



NETWORK SECURITY FIREWALL LOG REFERENCE GUIDE

NETDEFENDOS

VER. 10.21.02



NETWORK SECURITY SOLUTION <http://www.dlink.com>



Log Reference Guide

DFL-260E/860E/1660/2560/2560G

NetDefendOS Version 10.21.02

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Preface

Audience

The target audience for this reference guide consists of:

- Administrators that are responsible for configuring and managing a NetDefendOS installation.
- Administrators that are responsible for troubleshooting a NetDefendOS installation.

This guide assumes that the reader is familiar with NetDefendOS and understands the fundamentals of IP network security.

Notation

The following notation is used throughout this reference guide when specifying the parameters of a log message:

Angle Brackets <name> Used for specifying the *name* of a log message parameter.

Square Brackets [name] Used for specifying the *name of a conditional* log message parameter.

Example 1. Log Message Parameters

Log Message New configuration activated by user <username>, and committed via <authsystem>

Parameters authsystem
username

Both the *authsystem* and the *username* parameters will be included.

Example 2. Conditional Log Message Parameters

Log Message Administrative user <username> logged in via <authsystem>. Access level: <access_level>

Parameters authsystem
username
access_level
[userdb]
[server_ip]
[server_port]
[client_ip]
[client_port]

The *authsystem*, *username* and the *access_level* parameters will be included. The other parameters of *userdb*, *server_ip*, *server_port*, *client_ip* and *client_port* may or may not be included,

depending on the context of the log message.

Abbreviations

The following abbreviations are used throughout this reference guide:

| Abbreviation | Full name |
|--------------|--|
| ALG | Application Layer Gateway |
| ARP | Address Resolution Protocol |
| DHCP | Dynamic Host Configuration Protocol |
| DNS | Domain Name System |
| ESP | Encapsulating Security Payload |
| FTP | File Transfer Protocol |
| HA | High Availability |
| HTTP | Hyper Text Transfer Protocol |
| ICMP | Internet Control Message Protocol |
| IDS | Intrusion Detection System |
| IP | Internet Protocol |
| IPSec | Internet Protocol Security |
| L2TP | Layer 2 Tunneling Protocol |
| NAT | Network Address Translation |
| OSPF | Open Shortest Path First |
| PPP | Point to Point Protocol |
| PPPoE | Point to Point Protocol over Ethernet |
| RADIUS | Remote Authentication Dial In User Service |
| SAT | Static Address Translation |
| SMTP | Simple Mail Transfer Protocol |
| SNMP | Simple Network Management Protocol |
| SSL | Secure Socket Layer |
| TCP | Transport Control Protocol |
| TLS | Transport Layer Security |
| UDP | User Datagram Protocol |
| URL | Uniform Resource Locator |
| UTF | Unicode Transformation Format |
| VLAN | Virtual Local Area Network |
| VPN | Virtual Private Network |

Table 1. Abbreviations

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- Context Parameters, page 36
- Severity levels, page 41

This guide is a reference for all log messages generated by NetDefendOS. It is designed to be a valuable information source for both management and troubleshooting.

1.1. Log Message Structure

All log messages have a common design with attributes that include category, severity and recommended actions. These attributes enable the easy filtering of log messages, either within NetDefendOS prior to sending them to a log receiver, or as part of analysis that takes place after the logging and storage of messages on an external log server.

The following information is provided for each specific log message:

Name The name of the log message, which is a short string, 1-6 words separated by `_`. Please note that the name *cannot* be used as a unique identification of the log message, as several log messages might share the same name.

ID The ID is a number made up of a string of 8 digits which uniquely identifies the log message. The first 3 digits identify the category to which the log message belongs.



Note

In this guide, the Name and the ID of the log message form the title of the section describing the log message.

Category Log messages are grouped into categories, where each category maps to a specific subsystem in NetDefendOS. For instance, the IPSEC category includes some hundreds of log messages, all related to IPsec VPN activities. Other examples of categories include ARP, DHCP, IGMP and USERAUTH.

In this guide, categories are listed as sections in Chapter 2, *Log*

Message Reference.

As previously mentioned, the category is identified by the first 3 digits in the message ID. All messages in a particular category have the same first 3 digits in their ID.

| | |
|---------------------------|--|
| Default Severity | The default severity level for this log message. For a list of severity levels, please see section Section 1.3, "Severity levels". |
| Log Message | <p>A brief explanation of the event that took place. This explanation often features references to parameters, enclosed in angle brackets. Example:</p> <p><i>Administrative user <username> logged in via <authsystem>. Access level: <access_level></i></p> <p>Note that this information is only featured in this reference guide, and is never actually included in the log message.</p> |
| Explanation | <p>A detailed explanation of the event.</p> <p>Note that this information is only featured in this reference guide, and is never actually included in the log message.</p> |
| Gateway Action | A short string, 1-3 words separated by <code>_</code> , of what action NetDefendOS will take. If the log message is purely informative, this is set to "None". |
| Recommended Action | <p>A detailed recommendation of what the administrator should do if this log message is received. If the log message is purely informative, this is set to "None".</p> <p>Note that this information is only featured in this reference guide, and is never actually included in the log message.</p> |
| Revision | The current revision of the log message. This is increased each time a log message is changed between two releases. |

Additional Information

Depending on the log message, the following information may also be included:

| | |
|---------------------------|--|
| Parameters | The name of the parameters that are included in this log message. If a parameter is specified within square brackets (for example [username]), then the parameter is optional and may or may not be included in the log message. |
| Context Parameters | The name of the context parameters that are included in this log message. Please see Section 1.2, "Context Parameters" for a description of all available context parameters. |

1.2. Context Parameters

In many cases, information regarding a certain object is featured in the log message. This can be information about, for example, a connection. In this case, the log message should, besides all the normal log message attributes, also include information about which protocol is used, source and destination IP addresses and ports (if applicable), and so on.

As the same information will be included in many log messages, these are referenced as a *Context Parameter*. So whenever a log message includes information about a connection, it will feature the CONN parameter in the Context Parameter list. This means that additional information about the connection will also be included in the log message.

A description of all available context parameters follows with an explanation of all the additional parameters. The names of the additional parameters are specified using the Syslog format.

ALG Module Name

An ALG is always of a certain type, for example FTP, H323 or HTTP. This parameter specifies the name of the ALG sub-module, in order to quickly distinguish which type of ALG this is.

algmod The name of the ALG sub-module.

ALG Session ID

Each ALG session has its own session ID, which uniquely identifies an ALG session. This is useful, for example, when matching the opening of an ALG session with the closure of the same ALG session.

algsesid The session ID of an ALG session.

Packet Buffer

Information about the packet buffer, which in turn contains a large number of additional objects. Certain parameters may or may not be included, depending on the type of packet buffer. For example, the TCP flags are only included if the buffer contains a TCP protocol, and the ICMP-specific parameters are only included if the buffer contains a ICMP protocol.

rcvif The name of the receiving interface.

[hwsender] The sender hardware address. Valid if the protocol is ARP.

[hwdest] The destination hardware address. Valid if the protocol is ARP.

[arp] The ARP state. Valid if the protocol is ARP. Possible values: *request|reply*.

[srcip] The source IP Address. Valid if the protocol is not ARP.

[destip] The destination IP Address. Valid if the protocol is not ARP.

iphdrln The IP header length.

[fragoffs] Fragmentation offset. Valid if the IP packet is fragmented.

| | |
|----------------------|--|
| [fragid] | Fragmentation ID. Valid if the IP packet is fragmented. |
| ipproto | The IP Protocol. |
| ipdatalen | The IP data length. |
| [srcport] | The source port. Valid if the protocol is TCP or UDP. |
| [destport] | The destination port. Valid if the protocol is TCP or UDP. |
| [tcphdrln] | The TCP header length. Valid if the protocol is TCP. |
| [udptotlen] | The total UDP data length. Valid if the protocol is UDP. |
| [[tcpflag]=1] | The specific TCP flag is set. Valid if the protocol is TCP. Possible values for tcpflag: <i>syn, rst, ack, psh, fin, urg, ece, cwr</i> and <i>ns</i> . |
| [icmptype] | The ICMP sub-protocol name. Valid if the protocol is ICMP. |
| [echoid] | The ICMP echo ID. Valid if the protocol is ICMP and sub-protocol is echo. |
| [echoseq] | The ICMP echo sequence number. Valid if the protocol is ICMP and sub-protocol is echo. |
| [unreach] | The ICMP destination unreachable code. Valid if the protocol is ICMP and sub-protocol is destination unreachable. |
| [redirect] | The ICMP redirect code. Valid if the protocol is ICMP and sub-protocol is redirect. |
| [icmrcode] | The ICMP sub-protocol code. Valid if the protocol is ICMP and sub-protocol is not echo, destination unreachable or redirect. |

Connection

Additional information about a connection. Certain parameters may or may not be included depending on the type and status of the connection. For example, the number of bytes sent by the originator and terminator is only included if the connection is closed.

| | |
|-----------------------|---|
| conn | The status of the connection. Possible values: <i>open, close, closing</i> and <i>unknown</i> . |
| connipproto | The IP protocol used in this connection. |
| connrecvif | The name of the receive interface. |
| connsrcip | The source IP address. |
| [connsrcport] | The source port. Valid if the protocol is TCP or UDP. |
| [connsrcidt] | The source ID. Valid if the protocol is not TCP or UDP. |
| conndestif | The name of the destination interface. |
| conndestip | The destination IP address. |
| [conndestport] | The destination port. Valid if the protocol is TCP or UDP. |
| [conndestidt] | The destination ID. Valid if the protocol is not TCP or UDP. |

[origsent] The number of bytes sent by the originator in this connection. Valid if the connection is closing or closed.

[termsent] The number of bytes sent by the terminator in this connection. Valid if the connection is closing or closed.

IDP

Specifies the name and a description of the signature that triggered this event.



Note

For IDP log messages an additional log receiver, an SMTP log receiver, can be configured. This information is only sent to log receivers of that kind, and not included in the Syslog format.

Dropped Fragments

Specifies detailed information about dropped fragments in a packet.

Rule Name

Specifies the name of the rule that was used when this event was triggered.

rule The name of the rule.

Rule Information

Additional information about the rule that was used when this event was triggered. Certain parameters may or may not be included, depending on the type of rule. For example, the name of an authenticated user is only included if this rule contains network objects that has user authentication information in them.

rule The name of the rule.

[satsrcrule] The name of the SAT source rule. Valid if the rule action is SAT.

[satdestrule] The name of the SAT destination rule. Valid if the rule action is SAT.

[srcusername] The name of the authenticated user in the source network object. Valid if the source network object has user authentication information.

[destusername] The name of the authenticated user in the destination network object. Valid if the destination network object has user authentication information.

User Authentication

Additional information about a user authentication event.

| | |
|------------------|---|
| authrule | The name of the user authentication rule. |
| authagent | The name of the user authentication agent. |
| authevent | The user authentication event that occurred. Possible values: <i>login, logout, timedout, disallowed_login, accounting</i> and <i>unknown</i> . |
| username | The name of the user that triggered this event. |
| srcip | The source IP address of the user that triggered this event. |

OSPF

Additional information about OSPF.

| | |
|-------------------|---|
| logsection | The OSPF section Possible values: <i>packet, hello, ddesc, exchange, lsa, spf, route</i> and <i>unknown</i> . |
| loglevel | The log level value. |

OSPF LSA

Additional information about OSPF LSA.

| | |
|-----------------|---|
| lsatype | The LSA type Possible values: <i>Router, network, IP summary, ASBR summary</i> and <i>AS external</i> . |
| lsaid | The LSA identifier. |
| lsaadvtr | The originating router for the LSA. |

Dynamic Route

Additional information about events regarding a dynamic route.

| | |
|--------------|---|
| event | The dynamic routing event that occurred. Possible values: <i>add, remove, modify, export, unexport</i> and <i>unknown</i> . |
| from | Originating router process. |
| to | Destination router process. |

Route

Additional information about a route.

| | |
|-------------------|------------------------------|
| route | Route network. |
| routeiface | Route destination interface. |
| routegw | Route gateway. |

roumetric Route metric (cost).

1.3. Severity levels

An event has a default severity level, based on how serious the event is. The following eight severity levels are possible, as defined by the Syslog protocol:

| | |
|--------------------------|--|
| 0 - Emergency | Emergency conditions, which most likely led to the system being unusable. |
| 1 - Alert | Alert conditions, which affected the functionality of the unit. Needs attention immediately. |
| 2 - Critical | Critical conditions, which affected the functionality of the unit. Action should be taken as soon as possible. |
| 3 - Error | Error conditions, which probably affected the functionality of the unit. |
| 4 - Warning | Warning conditions, which could affect the functionality of the unit. |
| 5 - Notice | Normal, but significant, conditions. |
| 6 - Informational | Informational conditions. |
| 7 - Debug | Debug level events. |

Priority in Syslog Messages

In Syslog messages the priority is indicated by the parameter **prio=nn**.

Excluding Logged Messages

NetDefendOS allows the exclusion from logging of entire categories of log messages or just specific log messages. It is also possible to change the severity level of log messages so that a specific category or a specific message has the severity reset to a particular level when it is sent by NetDefendOS. These features are documented further in the NetDefendOS Administrators Guide.

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Sort Order

All log messages are sorted by their category and then by their ID number.

2.1. ALG

These log messages refer to the **ALG (Events from Application Layer Gateways)** category.

2.1.1. alg_session_open (ID: 00200001)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | ALG session opened |
| Explanation | A new ALG session has been opened. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.2. alg_session_closed (ID: 00200002)

| | |
|---------------------------|-----------------------------------|
| Default Severity | INFORMATIONAL |
| Log Message | ALG session closed |
| Explanation | An ALG session has been closed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.3. max_line_length_exceeded (ID: 00200003)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Maximum line length <max> exceeded, got <len> characters. Closing connection |
| Explanation | The maximum length of an entered line was exceeded, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | If the maximum line length is configured too low, increase it. |
| Revision | 1 |
| Parameters | len max |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.4. alg_session_allocation_failure (ID: 00200009)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed to allocate ALG session |
| Explanation | The system failed to allocate an ALG session. The reason for this is either that the total number of concurrent ALG sessions has been reached or that the system has run out of memory. |
| Gateway Action | None |
| Recommended Action | Increase the number of ALG sessions on services configured with ALGs or try to free up some RAM depending on the situation. |
| Revision | 1 |

2.1.5. invalid_client_http_header_received (ID: 00200100)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | HTTPALG: Invalid HTTP header was received from the client. Closing Connection. ALG name: <alname>. |
| Explanation | An invalid HTTP header was received from the client. |
| Gateway Action | close |
| Recommended Action | Research the source of this and try to find out why the client is sending an invalid header. |
| Revision | 1 |

| | |
|---------------------------|-----------------------------------|
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.6. invalid_url_format (ID: 00200101)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | HTTPALG: Failed to parse the URL requested by the client: <reason>. ALG name: <alname>. |
| Explanation | The unit failed parsing the requested URL. The reason for this is probably because the requested URL has an invalid format, or it contains invalid UTF8 formatted characters. |
| Gateway Action | close |
| Recommended Action | Make sure that the requested URL is formatted correctly. |
| Revision | 1 |
| Parameters | reason alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.7. unknown_client_data_received (ID: 00200105)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | HTTPALG: Invalid client request - unexpected data received after the the client request header. Closing connection. ALG name: <alname>. |
| Explanation | Data was received after the client request header, although the header specified that no such data should be sent. |
| Gateway Action | closing_conneccion |
| Recommended Action | Research the source of this, and try to find out why the client is sending an invalid request. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.8. suspicious_data_received (ID: 00200106)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|---|
| Log Message | HTTPALG: Too much suspicious data has been received from the server. Closing the connection. ALG name: <alname>. |
| Explanation | The unit is configured to do content blocking, but the data from the server contains too much suspicious data. The unit can not properly determin if this data is a valid or if it should be blocked. |
| Gateway Action | closing_conneccion |
| Recommended Action | Research the source of this, and try to find out why the server is sending such large amounts of suspicious data. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.9. invalid_chunked_encoding (ID: 00200107)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | HTTPALG: The server sent invalid chunked encoding. Closing connection. ALG name: <alname>. |
| Explanation | The data received from the server was sent in chunked mode, but it was not properly formatted. |
| Gateway Action | closing_conneccion |
| Recommended Action | Research the source of this, and try to find out why the server is sending invalid formatted chunked data. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.10. invalid_server_http_header_received (ID: 00200108)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | HTTPALG: An invalid HTTP header was received from the server. Closing connection. ALG name: <alname>. |
| Explanation | An invalid HTTP header was received from the server. |
| Gateway Action | closing_conneccion |
| Recommended Action | Research the source of this and try to find out why the server is sending an invalid header. |
| Revision | 1 |

| | |
|---------------------------|-----------------------------------|
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.11. compressed_data_received (ID: 00200109)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | HTTPALG: Compressed data was received from the server, although uncompressed was requested. Closing connection. ALG name: <alname>. |
| Explanation | The unit requested that no compressed data should be used, but the server ignored this and sent compressed data anyway. As content processing will not work if the data is compressed, the connection will be closed. |
| Gateway Action | close |
| Recommended Action | Research the source of this, and try to find out why the server is sending compressed data. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.12. max_http_sessions_reached (ID: 00200110)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | HTTPALG: Maximum number of HTTP sessions (<max_sessions>) for service reached. Closing connection |
| Explanation | The maximum number of concurrent HTTP sessions has been reached for this service. No more sessions can be opened before old sessions have been released. |
| Gateway Action | close |
| Recommended Action | If the maximum number of HTTP sessions is too low, increase it. |
| Revision | 1 |
| Parameters | max_sessions |
| Context Parameters | ALG Module Name |

2.1.13. failed_create_new_session (ID: 00200111)

| | |
|-------------------------|----------|
| Default Severity | CRITICAL |
|-------------------------|----------|

| | |
|---------------------------|---|
| Log Message | HTTPALG: Failed to create new HTTPALG session (out of memory) |
| Explanation | An attempt to create a new HTTPALG session failed, because the unit is out of memory. |
| Gateway Action | close |
| Recommended Action | Decrease the maximum allowed HTTPALG sessions, or try to free some of the RAM used. |
| Revision | 2 |
| Context Parameters | ALG Module Name |

2.1.14. failure_connect_http_server (ID: 00200112)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | HTTPALG: Failed to connect to the HTTP Server. Closing connection. ALG name: <alname>. |
| Explanation | The unit failed to connect to the HTTP Server, resulting in that the ALG session could not be successfully opened. |
| Gateway Action | close |
| Recommended Action | Verify that there is a listening HTTP Server on the specified address. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.15. content_type_mismatch (ID: 00200113)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | HTTPALG: Content type mismatch in file <filename>. Identified filetype <filetype> |
| Explanation | The filetype of the file does not match the actual content type. As there is a content type mismatch, data is discarded. |
| Gateway Action | block_data |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | filename filetype contenttype |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.16. wcf_override_full (ID: 00200114)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | HTTPALG: WCF override cache full |
| Explanation | The WCF override hash is full. The oldest least used value will be replaced. |
| Gateway Action | replace |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.17. content_filtering_disabled (ID: 00200115)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | HTTPALG: Web Content Filtering disabled |
| Explanation | Web Content Filtering has been disabled due to license restriction. |
| Gateway Action | no_valid_license |
| Recommended Action | Extend valid time for Content Filtering. |
| Revision | 2 |
| Context Parameters | ALG Module Name |

2.1.18. max_download_size_reached (ID: 00200116)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | HTTPALG: The file <filename> with file size <filesize>kB exceeds the maximum allowed download size <max_download_size>kB. Closing connection |
| Explanation | The data received from the server exceeds the maximum allowed download file size, the request is rejected and the connection is closed. |
| Gateway Action | close |
| Recommended Action | If the configurable maximum download size is too low, increase it. |
| Revision | 2 |
| Parameters | filename filesize max_download_size |

| | |
|---------------------------|-----------------------------------|
| Context Parameters | ALG Module Name ALG Session ID |
|---------------------------|-----------------------------------|

2.1.19. blocked_filetype (ID: 00200117)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | HTTPALG: Requested file:<filename> is blocked as this file is identified as type <filetype>, which is in block list. |
| Explanation | The file is present in the block list. It will be blocked as per configuration. |
| Gateway Action | block |
| Recommended Action | If this file should be allowed, update the ALLOW/BLOCK list. |
| Revision | 2 |
| Parameters | filename filetype |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.20. out_of_memory (ID: 00200118)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | HTTPALG: Failed to allocate memory |
| Explanation | The unit does not have enough available RAM. WCF could not allocate memory for override functionality. |
| Gateway Action | none |
| Recommended Action | Try to free up some RAM by changing configuration parameters. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.21. wcf_servers_unreachable (ID: 00200119)

| | |
|-------------------------|--|
| Default Severity | CRITICAL |
| Log Message | HTTPALG: Failed to connect to web content servers |
| Explanation | Web Content Filtering was unable to connect to the Web Content Filtering servers. Verify that the unit has been configured with Internet access. |
| Gateway Action | none |

| | |
|---------------------------|----------------------|
| Recommended Action | Check_configuration. |
| Revision | 2 |
| Context Parameters | ALG Module Name |

2.1.22. wcf_srv_connection_error (ID: 00200120)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | HTTPALG: HTTP request not validated by Web Content Filter and allowed. |
| Explanation | The Web Content Filtering servers could not be contacted. The request has been allowed since fail-mode parameter is in allow mode. |
| Gateway Action | allow |
| Recommended Action | Investigate why the Web Content Filtering servers cannot be reached. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.23. wcf_server_unreachable (ID: 00200121)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | HTTPALG: Failed to connect to web content server <failedserver> |
| Explanation | Web Content Filtering was unable to connect to the Web Content Filtering server. The system will try to contact one of the backup servers. |
| Gateway Action | switching_server |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | failedserver |
| Context Parameters | ALG Module Name |

2.1.24. wcf_connecting (ID: 00200122)

| | |
|-------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | HTTPALG:Connecting to web content server <server> |

| | |
|---------------------------|---|
| Explanation | Connecting to Web Content Filtering server. |
| Gateway Action | connecting |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | server |
| Context Parameters | ALG Module Name |

2.1.25. wcf_server_connected (ID: 00200123)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | HTTPALG: Web content server <server> connected |
| Explanation | The connection with the Web Content server has been established. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | server |
| Context Parameters | ALG Module Name |

2.1.26. wcf_primary_fallback (ID: 00200124)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | HTTPALG: Falling back from secondary servers to primary server |
| Explanation | Web Content Filtering falls back to primary server after 60 minutes or when a better server has been detected. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.27. request_url (ID: 00200125)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | HTTPALG: Requesting URL <url>. Categories: <categories>. Audit: <audit>. Override: <override>. ALG name: <alname>. |

| | |
|---------------------------|---|
| Explanation | The URL has been requested. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | categories audit override url alname |
| Context Parameters | Connection Connection ALG Module Name ALG Session ID |

2.1.28. request_url (ID: 00200126)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | HTTPALG: Requesting URL <url>. Categories: <categories>. Audit: <audit>. Override: <override>. ALG name: <alname>. |
| Explanation | The URL has been requested. |
| Gateway Action | block |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | categories audit override url alname |
| Context Parameters | Connection Connection ALG Module Name ALG Session ID |

2.1.29. wcf_server_auth_failed (ID: 00200127)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | HTTPALG: Failed to authenticate with WCF server |
| Explanation | The WCF service could not authenticate with the WCF server. |
| Gateway Action | none |
| Recommended Action | None. |

| | |
|---------------------------|-----------------|
| Revision | 1 |
| Parameters | failedserver |
| Context Parameters | ALG Module Name |

2.1.30. wcf_server_bad_reply (ID: 00200128)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | HTTPALG: Failed to parse WCF server response |
| Explanation | The WCF service could not parse the server response. The WCF transmission queue is reset and a new server connection will be established. |
| Gateway Action | restarting |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | failedserver |
| Context Parameters | ALG Module Name |

2.1.31. request_url (ID: 00200129)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | HTTPALG: Requesting URL <url>. Categories: <categories>. Audit: <audit>. Override: <override>. ALG name: <alname>. |
| Explanation | The URL has been requested. |
| Gateway Action | allow_audit_mode |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | categories audit override url alname |
| Context Parameters | Connection Connection ALG Module Name ALG Session ID |

2.1.32. out_of_memory (ID: 00200130)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | HTTPALG: Failed to allocate memory |
| Explanation | The unit does not have enough available RAM. |
| Gateway Action | none |
| Recommended Action | Try to free up some RAM by changing configuration parameters. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.33. wcf_bad_sync (ID: 00200131)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | HTTPALG: WCF request out of sync |
| Explanation | The WCF response received from the server did not match the expected value. The requested URL is treaded as unknown category. |
| Gateway Action | compensating |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | url_orig url_req url_reply |
| Context Parameters | ALG Module Name |

2.1.34. restricted_site_notice (ID: 00200132)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | HTTPALG: User requests the forbidden URL <url>, eventhough Restricted Site Notice was applied. ALG name: <alname>. |
| Explanation | The URL has been requested and the categories are forbidden. Restricted Site Notice was applied. |
| Gateway Action | allow |
| Recommended Action | Disable the RESTRICTED_SITE_NOTICE mode of parameter CATEGORIES for this ALG. |
| Revision | 2 |
| Parameters | url alname |
| Context Parameters | Connection Connection |

ALG Module Name
ALG Session ID

2.1.35. url_reclassification_request (ID: 00200133)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | HTTPALG: Reclassification request for URL <url>. New Category <newcat>. ALG name: <alname>. |
| Explanation | The user has requested a category reclassification for the URL. |
| Gateway Action | allow |
| Recommended Action | Disable the ALLOW_RECLASSIFICATION mode of parameter CATEGORIES for this ALG. |
| Revision | 2 |
| Parameters | newcat url alname |
| Context Parameters | Connection Connection ALG Module Name ALG Session ID |

2.1.36. wcf_server_disconnected (ID: 00200134)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | HTTPALG: Web content server <server> disconnected |
| Explanation | The Web Content server has closed the connection. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | server |
| Context Parameters | ALG Module Name |

2.1.37. request_url (ID: 00200135)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | HTTPALG: Requesting URL <url>. Categories: <categories>. User: <user>. Audit: <audit>. Override: <override>. ALG name: <alname>. |

| | |
|---------------------------|---|
| Explanation | The URL has been requested. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | categories audit override url user alname |
| Context Parameters | Connection Connection ALG Module Name ALG Session ID |

2.1.38. request_url (ID: 00200136)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | HTTPALG: Requesting URL <url>. Categories: <categories>. User: <user>. Audit: <audit>. Override: <override>. ALG name: <alname>. |
| Explanation | The URL has been requested. |
| Gateway Action | allow_audit_mode |
| Recommended Action | None. |
| Revision | 3 |
| Parameters | categories audit override url user alname |
| Context Parameters | Connection Connection ALG Module Name ALG Session ID |

2.1.39. request_url (ID: 00200137)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | HTTPALG: Requesting URL <url>. Categories: <categories>. User: <user>. Audit: <audit>. Override: <override>. ALG name: <alname>. |

| | |
|---------------------------|---|
| Explanation | The URL has been requested. |
| Gateway Action | block |
| Recommended Action | None. |
| Revision | 3 |
| Parameters | categories audit override url user alname |
| Context Parameters | Connection Connection ALG Module Name ALG Session ID |

2.1.40. restricted_site_notice (ID: 00200138)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | HTTPALG: User requests the forbidden URL <url>, eventhough Restricted Site Notice was applied. User: <user>. ALG name: <alname>. |
| Explanation | The URL has been requested and the categories are forbidden. Restricted Site Notice was applied. |
| Gateway Action | allow |
| Recommended Action | Disable the RESTRICTED_SITE_NOTICE mode of parameter CATEGORIES for this ALG. |
| Revision | 3 |
| Parameters | url user alname |
| Context Parameters | Connection Connection ALG Module Name ALG Session ID |

2.1.41. url_reclassification_request (ID: 00200139)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | HTTPALG: Reclassification request for URL <url>. New Category <newcat>. User: <user>. ALG name: <alname>. |
| Explanation | The user has requested a category reclassification for the URL. |

| | |
|---------------------------|---|
| Gateway Action | allow |
| Recommended Action | Disable the ALLOW_RECLASSIFICATION mode of parameter CATEGORIES for this ALG. |
| Revision | 3 |
| Parameters | newcat url user alname |
| Context Parameters | Connection Connection ALG Module Name ALG Session ID |

2.1.42. wcf_mem_optimized (ID: 00200140)

| | |
|---------------------------|--|
| Default Severity | DEBUG |
| Log Message | HTTPALG: Optimizing WCF memory usage |
| Explanation | The Web Content Filtering subsystem has optimized its memory usage and freed up some memory. This is a normal condition and does not affect functionality nor performance. |
| Gateway Action | optimizing |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.43. wcf_performance_notice (ID: 00200142)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | HTTPALG: WCF Performance notice |
| Explanation | Information about the current WCF performance. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | cache_size cache_repl_per_sec trans_per_sec queue_len in_transit rtt queue_delta_per_sec |

| | |
|---------------------------|-----------------|
| | server |
| | srv_prec |
| Context Parameters | ALG Module Name |

2.1.44. wcf_server_timeout (ID: 00200143)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | HTTPALG: WCF request timeout |
| Explanation | The WCF server took too long time to reply. A new connection attempt is in progress. |
| Gateway Action | reconnecting |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.45. max_smtp_sessions_reached (ID: 00200150)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTPALG: Maximum number of SMTP sessions (<max_sessions>) for service reached. Closing connection |
| Explanation | The maximum number of concurrent SMTP sessions has been reached for this service. No more sessions can be opened before old sessions have been released. |
| Gateway Action | close |
| Recommended Action | If the maximum number of SMTP sessions is too low, increase it. |
| Revision | 1 |
| Parameters | max_sessions |
| Context Parameters | ALG Module Name |

2.1.46. maximum_email_per_minute_reached (ID: 00200151)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | SMTPALG: Maximum number of emails per client and minute reached. |
| Explanation | Client is trying to send emails at a rate higher than the configured value. |
| Gateway Action | session_rejected |

| | |
|---------------------------|------------------------------------|
| Recommended Action | This can be a possible DOS attack. |
| Revision | 2 |
| Parameters | sender_email_address |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.47. failed_create_new_session (ID: 00200152)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | SMTPALG: Failed to create new SMTPALG session (out of memory) |
| Explanation | An attempt to create a new SMTPALG session failed. The unit has run out of memory. |
| Gateway Action | close |
| Recommended Action | Decrease the maximum allowed SMTPALG sessions, or try to free some of the RAM used. |
| Revision | 2 |
| Context Parameters | ALG Module Name |

2.1.48. failed_connect_smtp_server (ID: 00200153)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SMTPALG: Failed to connect to the SMTP Server. Closing the connection. |
| Explanation | The SMTP ALG could not connect to the receiving SMTP server, resulting in that the ALG session could not be successfully opened. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 3 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.49. invalid_server_response (ID: 00200155)

| | |
|-------------------------|--|
| Default Severity | ERROR |
| Log Message | SMTPALG: Could not parse server response code |
| Explanation | The SMTP ALG failed to parse the SMTP response code from server. |

| | |
|---------------------------|--|
| Gateway Action | close |
| Recommended Action | If possible, verify response codes sent from server. |
| Revision | 3 |
| Context Parameters | Connection ALG Module Name ALG Session ID |

2.1.50. sender_email_id_mismatched (ID: 00200156)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTPALG: Mismatching sender address |
| Explanation | The SMTP "MAIL FROM:" command does not match the "From:" header. The e-mail will be tagged as spam. |
| Gateway Action | spam tag |
| Recommended Action | Disable the Verify E-Mail Sender ID setting if you experience that valid e-mails are being wrongly tagged. |
| Revision | 3 |
| Parameters | sender_email_address recipient_email_addresses data_sender_address |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.51. sender_email_id_mismatched (ID: 00200157)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SMTPALG: Mismatching sender address |
| Explanation | The SMTP "MAIL FROM:" command does not match the "From:" header. The transaction will be denied. |
| Gateway Action | reject |
| Recommended Action | Disable the Verify E-Mail Sender ID setting if you experience that valid e-mails are being wrongly blocked. |
| Revision | 3 |
| Parameters | sender_email_address recipient_email_addresses data_sender_address |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.52. sender_email_id_is_in_blacklist (ID: 00200158)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SMTPALG: Sender e-mail address is in Black List |
| Explanation | Since "MAIL FROM:" Email Id is in Black List, SMTP ALG rejected the Client request. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | sender_email_address |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.53. recipient_email_id_in_blacklist (ID: 00200159)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SMTPALG: Recipient e-mail address is in Black List |
| Explanation | Since "RCPT TO:" e-mail address is in Black List, SMTP ALG rejected the client request. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | sender_email_address recipient_email_addresses |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.54. some_recipient_email_ids_are_in_blocklist (ID: 00200160)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SMTPALG: Some recipients email id are in Black List |
| Explanation | Since some "RCPT TO:" Email ids are in Black List, SMTP ALG has blocked mail to those recipients. |
| Gateway Action | reject |
| Recommended Action | Emails can be forwarded only to the Non-Black List users. |

| | |
|---------------------------|---|
| Revision | 1 |
| Parameters | sender_email_address recipient_email_addresses |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.55. base64_decode_failed (ID: 00200164)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | SMTPALG: Base 64 decode failed. Attachment blocked |
| Explanation | The base64 encoded attachment could not be decoded. This can occur if the email sender sends incorrectly formatted data. The attachment has been blocked. |
| Gateway Action | block_allow |
| Recommended Action | Research how the sender is encoding the data. |
| Revision | 2 |
| Parameters | filename filetype sender_email_address recipient_email_addresses |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.56. base64_decode_failed (ID: 00200165)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SMTPALG: Base 64 decode failed. Attachment is allowed |
| Explanation | The data sent to Base64 decoding failed. This can occur if the email sender sends incorrectly formatted data. Fail-mode is set to allow so data will be forwarded. |
| Gateway Action | allow_block |
| Recommended Action | Research how the sender is encoding the data. |
| Revision | 2 |
| Parameters | filename filetype sender_email_address recipient_email_addresses |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.57. blocked_filetype (ID: 00200166)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | SMTPALG: Requested file:<filename> is blocked as this file is identified as type <filetype>, which is in block list. |
| Explanation | The file is present in the block list. It will be blocked as per configuration. |
| Gateway Action | block |
| Recommended Action | If this file should be allowed, update the ALLOW/BLOCK list. |
| Revision | 2 |
| Parameters | filename filetype sender_email_address recipient_email_addresses |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.58. content_type_mismatch (ID: 00200167)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTPALG: Content type mismatch in file <filename>. Identified filetype <filetype> |
| Explanation | The filetype of the file does not match the actual content type. As there is a content type mismatch, data is discarded. |
| Gateway Action | block_data |
| Recommended Action | None. |
| Revision | 4 |
| Parameters | filename filetype sender_email_address recipient_email_addresses |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.59. max_email_size_reached (ID: 00200170)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTPALG: Maximum email size limit <max_email_size>kb reached |

| | |
|---------------------------|--|
| Explanation | Email body and all attachments size of email has crossed the limitation. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | sender_email_address recipient_email_addresses max_email_size |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.60. content_type_mismatch_mimecheck_disabled (ID: 00200171)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | SMTPALG: Content type mismatch found for the file <filename>. It is identified as type <filetype> file |
| Explanation | Received type of data in the packet and its actual type do not match. As there is a mismatch and mime type check is disabled, the data will be allowed. |
| Gateway Action | allow |
| Recommended Action | Content type should be matched. |
| Revision | 3 |
| Parameters | filename filetype sender_email_address recipient_email_addresses |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.61. all_recipient_email_ids_are_in_blocklist (ID: 00200172)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SMTPALG: All recipients e-mail addresses are in Black List |
| Explanation | Since "RCPT TO:" email ids are in Black List, SMTP ALG rejected the client request. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |

| | |
|---------------------------|---|
| Parameters | sender_email_address recipient_email_addresses |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.62. out_of_memory (ID: 00200175)

| | |
|---------------------------|--|
| Default Severity | ALERT |
| Log Message | SMTPALG: Failed to allocate memory (out of memory) |
| Explanation | An attempt to allocate memory failed. |
| Gateway Action | close |
| Recommended Action | Try to free up unwanted memory. |
| Revision | 3 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.63. invalid_end_of_mail (ID: 00200176)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTPALG: Invalid end of mail "\\n.\\n" received. |
| Explanation | The client is sending invalid end of mail. Transaction will be terminated. |
| Gateway Action | block |
| Recommended Action | Research how the client is sending invalid end of mail. |
| Revision | 1 |
| Parameters | sender_email_address recipient_email_addresses |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.64. dnsbl_init_error (ID: 00200177)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | DNSbl internal error |
| Explanation | The email could not be checked for spam. Email will be processed without spam checks. |
| Gateway Action | none |

| | |
|---------------------------|-----------------------------------|
| Recommended Action | None. |
| Revision | 2 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.65. cmd_too_long (ID: 00200179)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SMTPALG: Command line too long |
| Explanation | The SMTP Command line exceeds the maximum command length of 712 characters. (RFC 2821 Ch. 4.5.3.1 says 512). |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 2 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.66. cmd_empty (ID: 00200180)

| | |
|---------------------------|--|
| Default Severity | DEBUG |
| Log Message | SMTPALG: Received empty command. |
| Explanation | The SMTP command line was empty. Ignoring command. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.67. failed_send_reply_code (ID: 00200181)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | SMTPALG: Could not send error code to client |
| Explanation | The SMTP ALG failed to send an error response code to the client. |
| Gateway Action | none |
| Recommended Action | None. |

| | |
|---------------------------|-----------------------------------|
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.68. smtp_no_header (ID: 00200184)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SMTPALG: Email without SMTP headers received |
| Explanation | The SMTP ALG received an email without headers. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.69. unsupported_extension (ID: 00200185)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | SMTPALG: Removed capability <capa> from EHLO response |
| Explanation | The SMTP ALG removed the [capa] capability from the EHLO response since the ALG does not support the specified extension. |
| Gateway Action | capability_removed |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | capa |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.70. cmd_pipelined (ID: 00200186)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | SMTPALG: Received pipelined request. |
| Explanation | The SMTP ALG does not support pipelined requests. The appearance of this log message indicates that the client used PIPELINING even though it was removed from capability list. |
| Gateway Action | reject |

| | |
|---------------------------|-----------------------------------|
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.71. smtp_state_violation (ID: 00200190)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTPALG: State violation: <violation>. |
| Explanation | The client sent an invalid sequence of commands. The protocol violation is explained by the [violation] parameter. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | violation |
| Context Parameters | Connection ALG Module Name ALG Session ID |

2.1.72. sender_email_dnsbl_spam_mark_removed_by_whitelist (ID: 00200195)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTPALG: Whitelist override DNSBL result for Email. |
| Explanation | Email was marked as SPAM by DNSBL. As Email Id was matched in whitelist, this mark is removed. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | sender_email_address |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.73. illegal_data_direction (ID: 00200202)

| | |
|-------------------------|-------|
| Default Severity | ERROR |
|-------------------------|-------|

| | |
|---------------------------|--|
| Log Message | FTPALG: TCP data from <peer> not allowed in this direction. Closing connection |
| Explanation | TCP Data was sent in an invalid direction, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer |
| Context Parameters | ALG Module Name ALG Session ID Rule Information Connection |

2.1.74. hybrid_data (ID: 00200206)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | FTPALG: Hybrid connection made |
| Explanation | A hybrid connection was successfully created. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID Rule Information Connection |

2.1.75. hybrid_data (ID: 00200209)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | FTPALG: Hybrid data channel closed |
| Explanation | A hybrid data channel was closed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID Rule Information Connection |

2.1.76. illegal_chars (ID: 00200210)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: 8 bit characters in control channel from <peer> not allowed. Closing connection |
| Explanation | 8 bit characters were discovered in the control channel. This is not allowed according to the FTPALG configuration, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | If 8 bit characters should be allowed, modify the FTPALG configuration. |
| Revision | 1 |
| Parameters | peer |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.77. control_chars (ID: 00200211)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: Unexpected telnet control chars in control channel from <peer>. Closing connection |
| Explanation | Unexpected telnet control characters were discovered in the control channel. This is not allowed according to the FTPALG configuration, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | If unknown commands should be allowed, modify the FTPALG configuration. |
| Revision | 1 |
| Parameters | peer |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.78. illegal_command (ID: 00200212)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | FTPALG: Failed to parse command from <peer> as a FTP command. String=<string>. Closing connection |

| | |
|---------------------------|---|
| Explanation | An invalid command was received on the control channel. This is not allowed, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | If unknown commands should be allowed, modify the FTPALG configuration. |
| Revision | 1 |
| Parameters | peer string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.79. illegal_command (ID: 00200213)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: Failed to parse command from <peer> as a FTP command. String=<string>. Rejecting command |
| Explanation | An invalid command was received on the control channel. This is allowed, but the command will be rejected as it is not understood. |
| Gateway Action | rejecting_command |
| Recommended Action | If unknown commands should not be allowed, modify the FTPALG configuration. |
| Revision | 1 |
| Parameters | peer string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.80. port_command_disabled (ID: 00200214)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: PORT command not allowed from <peer>. Rejecting command |
| Explanation | The client tried to issue a "PORT" command, which is not valid since the client is not allowed to do active FTP. The command will be rejected. |
| Gateway Action | rejecting_command |
| Recommended Action | If the client should be allowed to do active FTP, modify the FTPALG configuration. |

| | |
|---------------------------|---|
| Revision | 1 |
| Parameters | peer |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.81. illegal_command (ID: 00200215)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: Failed to parse PORT parameters from <peer>. String=<string>. Closing connection |
| Explanation | Invalid parameters to the "PORT" command were received. The connection will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.82. illegal_ip_address (ID: 00200216)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | FTPALG: Illegal PORT command from <peer>, bad IP address <ip4addr>. String=<string>. Rejecting command |
| Explanation | An illegal "PORT" command was received from the client. It requests that the server should connect to another IP that it's own. This is not allowed, and the command will be rejected. |
| Gateway Action | rejecting_command |
| Recommended Action | The FTP client could be compromised, and should not be trusted. |
| Revision | 1 |
| Parameters | peer ip4addr string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.83. illegal_port_number (ID: 00200217)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | FTPALG: Illegal PORT command from <peer>, port <port> not allowed. String=<string>. Rejecting command |
| Explanation | An illegal "PORT" command was received from the client. It requests that the server should connect to a port which is out of range. This is not allowed, and the command will be rejected. |
| Gateway Action | rejecting_command |
| Recommended Action | The FTP client could be compromised, and should not be trusted. |
| Revision | 1 |
| Parameters | peer port string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.84. failed_to_create_connection1 (ID: 00200218)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | FTPALG: Failed to create connection(1). Connection: <connection>. String=<string> |
| Explanation | An error occurred when creating a data connection from the server to client. This could possibly be a result of lack of memory. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer connection string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.85. illegal_command (ID: 00200219)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: SITE EXEC from <peer> not allowed, rejecting command |

| | |
|---------------------------|---|
| Explanation | The client tried to issue a "SITE EXEC" command, which is not valid since the client is not allowed to do this. The command will be rejected. |
| Gateway Action | rejecting_command |
| Recommended Action | If the client should be allowed to do issue "SITE EXEC" commands, modify the FTPALG configuration. |
| Revision | 1 |
| Parameters | peer |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.86. illegal_direction1 (ID: 00200220)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: Illegal direction for command(1), peer=<peer>. Closing connection. |
| Explanation | A command was sent in an invalid direction, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.87. illegal_direction2 (ID: 00200221)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: Illegal direction for command(2), peer=<peer>. Closing connection. |
| Explanation | A command was sent in an invalid direction, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer |

| | |
|---------------------------|---|
| Context Parameters | ALG Module Name ALG Session ID Connection |
|---------------------------|---|

2.1.88. illegal_option (ID: 00200222)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | FTPALG: Invalid OPTS argument from <peer>. String=<string>. Rejecting command. |
| Explanation | An invalid OPTS argument was received. The argument does not start with an alphabetic letter, and the command will be rejected. |
| Gateway Action | rejecting_command |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.89. illegal_option (ID: 00200223)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | FTPALG: Disallowed OPTS argument from <peer>. String:<string>. Rejecting command. |
| Explanation | A disallowed OPTS argument was received, and the command will be rejected. |
| Gateway Action | rejecting_command |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.90. unknown_option (ID: 00200224)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | FTPALG: Unknown OPTS argument from <peer>. String=<string>. Rejecting command. |
| Explanation | An unknown OPTS argument was received, and the command will be rejected. |
| Gateway Action | rejecting_command |
| Recommended Action | If unknown commands should be allowed, modify the FTPALG configuration. |
| Revision | 1 |
| Parameters | peer string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.91. illegal_command (ID: 00200225)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: Illegal command from <peer>. String=<string>. Rejecting command. |
| Explanation | An illegal command was received, and the command will be rejected. |
| Gateway Action | rejecting_command |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.92. unknown_command (ID: 00200226)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: Unknown command from <peer>. String=<string>. Rejecting command. |
| Explanation | An unknown command was received, and the command will be rejected. |
| Gateway Action | rejecting_command |
| Recommended Action | If unknown commands should be allowed, modify the FTPALG |

| | |
|---------------------------|---|
| | configuration. |
| Revision | 1 |
| Parameters | peer string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.93. illegal_reply (ID: 00200228)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | FTPALG: Illegal numerical reply (<reply>) from <peer>. String=<string>. Closing connection. |
| Explanation | An illegal numerical reply was received from server, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer reply string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.94. illegal_reply (ID: 00200230)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: Illegal multiline response (<reply>) from <peer>. String=<string>. Closing connection. |
| Explanation | An illegal multiline response was received from server, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer reply string |
| Context Parameters | ALG Module Name |

ALG Session ID
Connection

2.1.95. illegal_reply (ID: 00200231)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | FTPALG: Unsolicited 227 (passive mode) response from <peer>. String=<string>. Closing connection. |
| Explanation | An illegal response was received from the server, and the connection is closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.96. illegal_reply (ID: 00200232)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: Reply 229 (extended passive mode) from <peer> is not allowed. String=<string>. Closing connection. |
| Explanation | An illegal response was received from the server, and the connection is closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.97. bad_port (ID: 00200233)

| | |
|-------------------------|---|
| Default Severity | CRITICAL |
| Log Message | FTPALG: Bad port <port> from <peer>, should be within the range |

| | |
|---------------------------|---|
| | (<range>). String=<string>. Closing connection. |
| Explanation | An illegal "PORT" command was received from the server. It requests that the client should connect to a port which is out of range. This is not allowed, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | The FTP server could be compromised, and should not be trusted. |
| Revision | 1 |
| Parameters | peer port range string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.98. bad_ip (ID: 00200234)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | FTPALG: Invalid IP <ip4addr>, Server IP is <ip4addr_server>. String=<string>. Closing connection. |
| Explanation | The FTP Server requests that the client should connect to another IP that it's own. This is not allowed, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | The FTP server could be compromised, and should not be trusted. |
| Revision | 1 |
| Parameters | peer ip4addr ip4addr_server string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.99. failed_to_create_connection2 (ID: 00200235)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | FTPALG: Failed to create connection(2) Peer=<peer> Connection=<connection>. String=<string>. |
| Explanation | An error occurred when creating a data connection from the client to server. This could possibly be a result of lack of memory. |

| | |
|---------------------------|---|
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer connection string |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.100. failed_to_create_server_data_connection (ID: 00200236)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | FTPALG: Failed to create server data connection. Peer=<peer> Connection=<connection> |
| Explanation | An error occurred when creating server data connection. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer connection |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.101. failed_to_send_port (ID: 00200237)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | FTPALG: Failed to send port. Peer=<peer> |
| Explanation | An error occurred when trying to send the "PORT" command to the server. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer |
| Context Parameters | ALG Module Name ALG Session ID |

Connection

2.1.102. failed_to_register_rawconn (ID: 00200238)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | FTPALG: Internal Error - failed to register eventhandler. Closing connection |
| Explanation | An internal error occurred when registering an eventhandler, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | Contact the support. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.103. failed_to_merge_conns (ID: 00200239)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | FTPALG: Internal Error - failed to merge conns. Closing connection |
| Explanation | An internal error occurred when two connections were being merged into one, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | Contact the support. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.104. max_ftp_sessions_reached (ID: 00200241)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | FTPALG: Maximum number of FTP sessions (<max_sessions>) for service reached. Closing connection |
| Explanation | The maximum number of concurrent FTP sessions has been reached for this service. No more sessions can be opened before old sessions have been released. |
| Gateway Action | close |
| Recommended Action | If the maximum number of FTP sessions is too low, increase it. |
| Revision | 1 |

| | |
|---------------------------|-----------------|
| Parameters | max_sessions |
| Context Parameters | ALG Module Name |

2.1.105. failed_create_new_session (ID: 00200242)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | FTPALG: Failed to create new FTPALG session (out of memory) |
| Explanation | An attempt to create a new FTPALG session failed, because the unit is out of memory. |
| Gateway Action | close |
| Recommended Action | Decrease the maximum allowed FTPALG sessions, or try to free some of the RAM used. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.106. failure_connect_ftp_server (ID: 00200243)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | FTPALG: Failed to connect to the FTP Server. Closing connection |
| Explanation | The unit failed to connect to the FTP Server, resulting in that the ALG session could not be successfully opened. |
| Gateway Action | close |
| Recommended Action | Verify that there is a listening FTP Server on the specified address. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.107. content_type_mismatch (ID: 00200250)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | FTPALG: Content type mismatch in file <filename>. Identified filetype <filetype> |
| Explanation | The filetype of the file does not match the actual content type. As there is a content type mismatch, data is discarded. |
| Gateway Action | data_blocked_control_and_data_channel_closed |
| Recommended Action | None. |

| | |
|---------------------------|-----------------------------------|
| Revision | 1 |
| Parameters | filename filetype |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.108. failed_to_send_command (ID: 00200251)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | FTPALG:Failed to send the command. |
| Explanation | The command sent by the ALG to the server could not be sent. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.109. resumed_compressed_file_transfer (ID: 00200252)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: The file <filename> (File type: <filetype>) cannot be sent to antivirus scan engine. |
| Explanation | The data cannot be sent to AVSE for scanning since file transfer begins from within the middle of the file. The scanning process will fail for compressed files. |
| Gateway Action | data_blocked_control_and_data_channel_closed |
| Recommended Action | Change fail mode setting to allow, if resumed file transfers of compressed files should be allowed. |
| Revision | 2 |
| Parameters | filename filetype |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.110. blocked_filetype (ID: 00200253)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | FTPALG: Requested file:<filename> is blocked as this file is identified as type <filetype>, which is in block list. |

| | |
|---------------------------|---|
| Explanation | The file is present in the block list. It will be blocked as per configuration. |
| Gateway Action | data_blocked_control_and_data_channel_closed |
| Recommended Action | If this file should be allowed, update the ALLOW/BLOCK list. |
| Revision | 2 |
| Parameters | filename filetype |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.111. resumed_compressed_file_transfer (ID: 00200254)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | FTPALG: The file <filename> (File type: <filetype>) cannot be sent to antivirus scan engine. |
| Explanation | Decompression module cannot decompress a file that has been resumed. The file is allowed without any further scanning since Fail Mode is Allow. |
| Gateway Action | allow_data_without_scan |
| Recommended Action | Update Fail-Mode parameter if the file should be blocked. |
| Revision | 2 |
| Parameters | filename filetype |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.112. failed_to_send_response_code (ID: 00200255)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | FTPALG:Failed to send the response code. |
| Explanation | The FTP ALG could not send the correct response code to the client. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.113. illegal_command (ID: 00200267)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | FTPALG: REST from <peer> not allowed, rejecting command |
| Explanation | The client tried to issue a "REST" command, which is not valid since the client is not allowed to do this. The command will be rejected. |
| Gateway Action | rejecting_command |
| Recommended Action | If the client should be allowed to do issue "REST" commands, modify the FTPALG configuration. |
| Revision | 1 |
| Parameters | filename peer |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.114. https_not_allowed (ID: 00200270)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | HTTPS protocol is not allowed. |
| Explanation | Allowed protocols in ALG don't include HTTPS. |
| Gateway Action | block |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.115. http_not_allowed (ID: 00200271)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | HTTP protocol is not allowed. |
| Explanation | Allowed protocols in ALG don't include HTTP. |
| Gateway Action | block |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alname |

| | |
|---------------------------|---|
| Context Parameters | ALG Module Name ALG Session ID Connection |
|---------------------------|---|

2.1.116. clienthello_server_name (ID: 00200272)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | HTTPALG: HTTPS (c) Found server DNS name <hostname> in ClientHello datagram |
| Explanation | Found DNS server DNS name in ClientHello datagram. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | hostname alname |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.117. invalid_clienthello (ID: 00200273)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | HTTPALG: HTTPS (c) Failed to parse ClientHello datagram (<cause>). |
| Explanation | Failed to parse ClientHello datagram. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | cause alname |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.118. invalid_clienthello (ID: 00200274)

| | |
|-------------------------|--|
| Default Severity | ERROR |
| Log Message | HTTPALG: HTTPS (c) Failed to parse ClientHello datagram. |
| Explanation | Failed to parse ClientHello datagram. |

| | |
|---------------------------|---|
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.119. invalid_clienthello_server_name (ID: 00200275)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | HTTPALG: HTTPS (s) Failed to parse 'server_name' from ClientHello SNI extension (<cause>). |
| Explanation | Failed to parse 'server_name' from ClientHello SNI extension. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | cause alname |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.120. invalid_clienthello_server_name (ID: 00200276)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | HTTPALG: HTTPS (s) Failed to parse 'server_name' from ClientHello SNI extension. |
| Explanation | Failed to parse 'server_name' from ClientHello SNI extension. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.121. certificate_server_name (ID: 00200277)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | HTTPALG: HTTPS (s) Found server DNS name <hostname> in Certificate datagram |
| Explanation | Found server DNS name in Certificate datagram. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | hostname alname |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.122. invalid_certificate (ID: 00200278)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | HTTPALG: HTTPS (s) Failed to parse Certificate datagram (<cause>). |
| Explanation | Failed to parse Certificate datagram. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | cause alname |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.123. invalid_certificate (ID: 00200279)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | HTTPALG: HTTPS (s) Failed to parse Certificate datagram. |
| Explanation | Failed to parse Certificate datagram. |
| Gateway Action | close |
| Recommended Action | None. |

| | |
|---------------------------|---|
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.124. blacklisted_url_blocked (ID: 00200280)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | HTTPALG: HTTPS (c) Blacklisted URL <hostname> blocked |
| Explanation | Connection to blaclisted URL closed. |
| Gateway Action | close |
| Recommended Action | If the connection is to be allowed, update the URL filter to include the hostname as whilelisted. |
| Revision | 1 |
| Parameters | hostname alname |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.125. unknown_state (ID: 00200300)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | H323ALG: H.225 parser is in unknown state |
| Explanation | The H.225 parser failed to parse the H.225 message. The ALG session will be closed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer state |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.126. invalid_message (ID: 00200301)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | H323ALG: An invalid message was received from peer |
| Explanation | An invalid message was received from the peer. The ALG session will be closed. |
| Gateway Action | closing_session |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | peer message state |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.127. decode_failed (ID: 00200302)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | H323ALG: Decoding of message from peer failed. Closing session |
| Explanation | The H.225 parser failed to decode the H.225 message. The ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer message_type |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.128. encode_failed (ID: 00200303)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | H323ALG: Encoding of message from peer failed. Closing session |
| Explanation | The ASN.1 encoder failed to encode the message. The ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |

| | |
|---------------------------|---|
| Parameters | peer message_type |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.129. encode_failed (ID: 00200304)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | H323ALG: Failed before encoding message from peer. Closing session |
| Explanation | The ASN.1 encoder failed to allocate memory used for encoding of the message. The ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer message_type |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.130. encode_failed (ID: 00200305)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | H323ALG: Failed after encoding message from peer. Closing session |
| Explanation | The ASN.1 encoder failed to encode the message properly. The ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer message_type |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.131. decode_failed (ID: 00200306)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | H323ALG: Failed before encoding H.245 message. Closing connection |
| Explanation | The H.245 encoder failed to allocate memory used for encoding of the message. The ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.132. encode_failed (ID: 00200307)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | H323ALG: Failed after encoding H.245 message. Closing connection |
| Explanation | The H.245 encoder failed to encode the message. The ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.133. max_tcp_data_connections_exceeded (ID: 00200308)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | H323ALG: Maximum number of TCP data channels exceeded |
| Explanation | The maximum number of concurrent TCP data channels has been reached for this session. |
| Gateway Action | None |
| Recommended Action | If the maximum number of TCP data channels per session is too low, increase it. |
| Revision | 1 |

| | |
|---------------------------|---|
| Parameters | max_channels |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.134. max_connections_per_call_exceeded (ID: 00200309)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | H323ALG: No more connections allowed for this call |
| Explanation | The maximum number of concurrent logical channels (calls) has been reached for this session. |
| Gateway Action | None |
| Recommended Action | If the maximum number of concurrent logical channels (calls) per session is too low, increase it. |
| Revision | 1 |
| Parameters | max_connections |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.135. ignoring_channel (ID: 00200310)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | H323ALG: Ignoring mediaChannel info in openLogicalChannel |
| Explanation | Media channel information in the openLogicalChannel message is not handled. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.136. com_mode_response_message_not_translated (ID: 00200311)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | H323ALG: CommunicationModeResponse not translated. |
| Explanation | The H.245 Communication Mode Response message is not translated. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | peer |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.137. max_h323_session_reached (ID: 00200312)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | H323ALG: Maximum number of H.323 sessions (<max_sessions>) for service reached. Closing connection. |
| Explanation | The maximum number of concurrent H.323 sessions has been reached for this service. No more sessions can be opened before old sessions have been released. |
| Gateway Action | close |
| Recommended Action | If the maximum number of H.323 session is too low, increase it. |
| Revision | 1 |
| Parameters | max_sessions |
| Context Parameters | ALG Module Name |

2.1.138. failed_create_new_session (ID: 00200313)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | H323ALG: Failed to create new H.323 session (out of memory) |
| Explanation | Could not create a new H.323 session due to lack of memory. No more sessions can be created unless the system increases the amount of free memory. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.139. max_h323_gk_sessions_reached (ID: 00200314)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | H323ALG: Maximum number of H.323 gatekeeper sessions for service reached |
| Explanation | The maximum number of concurrent H.323 gatekeeper sessions has been reached for this service. Connection will be closed. |
| Gateway Action | close |
| Recommended Action | If the maximum number of concurrent H.323 gatekeeper sessions is too low, increase it. |
| Revision | 1 |
| Parameters | max_sessions |
| Context Parameters | ALG Module Name |

2.1.140. failed_create_new_session (ID: 00200315)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | H323ALG: Failed to create new gatekeeper session (out of memory) |
| Explanation | Could not create a new H.323 gatekeeper session due to lack of memory. No more sessions can be created unless the system increases the amount of free memory. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.141. failure_connect_h323_server (ID: 00200316)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | H323ALG: Failed to connect to the H.323 Server. Closing connection |
| Explanation | The unit failed to connect to the H.323 Server, resulting in that the ALG session could not open successfully. |
| Gateway Action | close |
| Recommended Action | Verify that there is a listening H.323 Server on the specified address. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

ALG Session ID

2.1.142. com_mode_command_message_not_translated (ID: 00200317)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | H323ALG: CommunicationModeCommand not translated. |
| Explanation | The H.245 Communication Mode Command message is not translated. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.143. packet_failed_initial_test (ID: 00200350)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | TFTPALG: Packet failed initial test (Invalid TFTP packet). Packet length <packet_length> |
| Explanation | An invalid TFTP packet was received. Refusing connection. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | packet_length |
| Context Parameters | ALG Module Name Connection |

2.1.144. packet_failed_traversal_test (ID: 00200351)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | TFTPALG: Filename <filename> failed test for directory traversal |
| Explanation | Filename failed test for directory traversal (contains invalid characters).Closing connection. |

| | |
|---------------------------|---|
| Gateway Action | reject |
| Recommended Action | If all characters in filenames should be allowed modify the TFTP Alg configuration. |
| Revision | 1 |
| Parameters | filename |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.145. command_not_allowed (ID: 00200353)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TFTPALG: <command> command not allowed |
| Explanation | Command (GET or PUT) not allowed. Closing connection. |
| Gateway Action | reject |
| Recommended Action | If command should be allowed modify the TFTP Alg configuration. |
| Revision | 1 |
| Parameters | command |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.146. option_value_invalid (ID: 00200354)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | TFTPALG: Option <option> contained invalid value <value> |
| Explanation | Option contained invalid value.Closing connection. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | option value |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.147. option_value_invalid (ID: 00200355)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | TFTPALG: Option <option> contained no readable value |
| Explanation | Option contained no readable value.Closing connection. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | option |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.148. option_tsize_invalid (ID: 00200356)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TFTPALG: Option tsize value <value> exceeding allowed max value <maxvalue> |
| Explanation | Option tsize value exceeding allowed value.Closing connection. |
| Gateway Action | reject |
| Recommended Action | If connection should be allowed modify the filetransfersize of the TFTP Alg configuration . |
| Revision | 1 |
| Parameters | value maxvalue |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.149. unknown_option_blocked (ID: 00200357)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TFTPALG: Request contained unknown option <option> |
| Explanation | Request contained unknown option.Closing connection. |
| Gateway Action | reject |
| Recommended Action | If connection should be allowed modify the TFTP Alg configuration . |
| Revision | 1 |
| Parameters | option |

| | |
|---------------------------|---|
| Context Parameters | ALG Module Name ALG Session ID Connection |
|---------------------------|---|

2.1.150. option_tsize_invalid (ID: 00200358)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TFTPALG: Option tsize value <value> exceeding allowed value <maxvalue> |
| Explanation | Option tsize value exceeding allowed value.Closing connection. |
| Gateway Action | close |
| Recommended Action | If connection should be allowed modify the filetransfersize of the TFTP Alg configuration . |
| Revision | 1 |
| Parameters | value maxvalue |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.151. unknown_option_blocked (ID: 00200359)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TFTPALG: Request contained unknown option <option> |
| Explanation | Request contained unknown option.Closing connection. |
| Gateway Action | close |
| Recommended Action | If connection should be allowed modify the TFTP Alg configuration . |
| Revision | 1 |
| Parameters | option |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.152. option_not_sent (ID: 00200360)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | TFTPALG: The received option <option> was not sent |
| Explanation | The received option was not sent.Closing connection. |

| | |
|---------------------------|---|
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | option |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.153. option_value_invalid (ID: 00200361)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TFTPALG: Option <option> contained invalid value <value> or option not sent |
| Explanation | Option contained invalid value or option not sent.Closing connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | option value |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.154. option_value_invalid (ID: 00200362)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | TFTPALG: Option <option> contained no readable value |
| Explanation | Option contained no readable value.Closing connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | option |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.155. blksize_out_of_range (ID: 00200363)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TFTPALG: Option blksize value <old_blksize> exceeding allowed value. Rewriting to <new_blksize> |
| Explanation | Option blksize value exceeding allowed value. Rewriting value. |
| Gateway Action | rewrite |
| Recommended Action | If the value should be allowed modify the TFTP Alg configuration. |
| Revision | 1 |
| Parameters | old_blksize new_blksize |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.156. max_tftp_sessions_reached (ID: 00200364)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | TFTPALG: Maximum number of TFTP sessions (<max_sessions>) for service reached. Closing connection |
| Explanation | The maximum number of concurrent TFTP sessions has been reached for this service. No more sessions can be opened before old sessions have been released. |
| Gateway Action | close |
| Recommended Action | If the maximum number of TFTP sessions is too low, increase it. |
| Revision | 1 |
| Parameters | max_sessions |
| Context Parameters | ALG Module Name |

2.1.157. failed_create_new_session (ID: 00200365)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | TFTPALG: Failed to create new TFTPALG session (out of memory) |
| Explanation | An attempt to create a new TFTPALG session failed, because the unit is out of memory. |
| Gateway Action | close |

| | |
|---------------------------|---|
| Recommended Action | Decrease the maximum allowed TFTPALG sessions, or try to free some of the RAM used. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.158. invalid_packet_received (ID: 00200366)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | TFTPALG: Received invalid packet Opcode <opcode> Packet length <packet_length> |
| Explanation | Received invalid packet.Closing connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | opcode packet_length |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.159. failed_create_connection (ID: 00200367)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | TFTPALG: Failed to create listening connection,internal error(<error_code>). Closing session |
| Explanation | The unit failed to create listening connection, resulting in that the ALG session could not be successfully opened. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | error_code |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.160. invalid_packet_received_reopen (ID: 00200368)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | TFTPALG: Received invalid packet Opcode <opcode> Packet length <packet_length> |
| Explanation | Received invalid packet.Closing listening connection and opening new instead. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | opcode packet_length |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.161. packet_out_of_sequence (ID: 00200369)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | TFTPALG: Received packet out of sequence opcode <opcode> packet length <packet_length> |
| Explanation | Received packet out of sequence.Closing connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | opcode packet_length |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.162. transfer_size_exceeded (ID: 00200370)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | TFTPALG: Received bytes <received> exceeding allowed max value <maxvalue> |
| Explanation | Transferred bytes exceeding allowed value.Closing connection. |
| Gateway Action | close |
| Recommended Action | If connection should be allowed modify the filetransfersize option of the TFTP Alg configuration . |
| Revision | 1 |

| | |
|---------------------------|---|
| Parameters | received maxvalue |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.163. options_removed (ID: 00200371)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TFTPALG: Options not allowed. Stripping options from packet |
| Explanation | Options not allowed. Stripping options from packet. |
| Gateway Action | rewrite |
| Recommended Action | If options should be allowed modify the TFTP Alg configuration. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.164. failed_strip_option (ID: 00200372)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | TFTPALG: Failed to strip options , (internal error) |
| Explanation | An attempt to send request packet without options failed because of an internal error. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.165. failed_create_connection (ID: 00200373)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | TFTPALG: Failed to create listening connection,internal error(<error_code>). Closing session |
| Explanation | The unit failed to create listening connection, resulting in that the ALG session could not be successfully opened. |
| Gateway Action | close |

| | |
|---------------------------|-----------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | error_code |
| Context Parameters | ALG Module Name |

2.1.166. invalid_error_message_received (ID: 00200374)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TFTPALG: Received invalid error message Opcode <opcode> Packet length <packet_length> |
| Explanation | Received invalid error message.Closing connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | opcode packet_length |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.1.167. max_pop3_sessions_reached (ID: 00200380)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | POP3ALG: Maximum number of POP3 sessions (<max_sessions>) for service reached. Closing connection |
| Explanation | The maximum number of concurrent POP3 sessions has been reached for this service. No more sessions can be opened before old sessions have been released. |
| Gateway Action | close |
| Recommended Action | If the maximum number of POP3 sessions is too low, increase it. |
| Revision | 1 |
| Parameters | max_sessions |
| Context Parameters | ALG Module Name |

2.1.168. failed_create_new_session (ID: 00200381)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|---|
| Log Message | POP3ALG: Failed to create new POP3ALG session (out of memory) |
| Explanation | An attempt to create a new POP3ALG session failed, because the unit is out of memory. |
| Gateway Action | close |
| Recommended Action | Decrease the maximum allowed POP3ALG sessions, or try to free some of the RAM used. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.169. failed_connect_pop3_server (ID: 00200382)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | POP3ALG: Failed to connect to the POP3 Server. Closing the connection. |
| Explanation | The unit failed to connect to the remote POP3 Server, resulting in that the ALG session could not be successfully opened. |
| Gateway Action | close |
| Recommended Action | Verify that there is a listening POP3 Server on the specified address. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.170. out_of_memory (ID: 00200383)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | POP3ALG: Failed to allocate memory (out of memory) |
| Explanation | An attempt to allocate memory failed. |
| Gateway Action | close |
| Recommended Action | Try to free up unwanted memory. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.171. blocked_filetype (ID: 00200384)

| | |
|-------------------------|--------|
| Default Severity | NOTICE |
|-------------------------|--------|

| | |
|---------------------------|--|
| Log Message | POP3ALG: Requested file:<filename> is blocked as this file is identified as type <filetype>, which is in block list. |
| Explanation | The file is present in the block list. It will be blocked as per configuration. |
| Gateway Action | block |
| Recommended Action | If this file should be allowed, update the ALLOW/BLOCK list. |
| Revision | 1 |
| Parameters | filename filetype sender_email_address |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.172. response_blocked_unknown (ID: 00200385)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | POP3ALG: Response blocked.Invalid response=<response> |
| Explanation | The server is sending unknown response. The response will be blocked. |
| Gateway Action | block |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | command" response |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.173. base64_decode_failed (ID: 00200386)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | POP3ALG: Base 64 decode failed. Attachment blocked |
| Explanation | The data sent to Base64 decoding failed. This can occur if the email sender sends incorrectly formatted data. The attachment has been blocked. |
| Gateway Action | block_data |
| Recommended Action | Research how the sender is encoding the data. |
| Revision | 1 |
| Parameters | filename |

| | |
|---------------------------|----------------------|
| | filetype |
| | sender_email_address |
| Context Parameters | ALG Module Name |
| | ALG Session ID |

2.1.174. possible_invalid_mail_end (ID: 00200387)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | POP3ALG: Possible invalid end of mail "\\n.\\n" received. |
| Explanation | The client is sending possible invalid end of mail. |
| Gateway Action | allow |
| Recommended Action | Research how the client is sending possible invalid end of mail. |
| Revision | 1 |
| Parameters | sender_email_address |
| Context Parameters | ALG Module Name |
| | ALG Session ID |

2.1.175. command_blocked_invalid_len (ID: 00200388)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | POP3ALG: Command line blocked,line begins with linebegin. Invalid line length <len> |
| Explanation | The client is sending command with invalid command length. The command will be blocked. |
| Gateway Action | block |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | len linebegin" |
| Context Parameters | ALG Module Name |
| | ALG Session ID |

2.1.176. response_blocked_invalid_len (ID: 00200389)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | POP3ALG: Response blocked.Invalid response length <len> |
| Explanation | The server is sending response with invalid response length. The |

| | |
|---------------------------|-----------------------------------|
| | response will be blocked. |
| Gateway Action | block |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | command" len |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.177. content_type_mismatch (ID: 00200390)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | POP3ALG: Content type mismatch in file <filename>. Identified filetype <filetype> |
| Explanation | The filetype of the file does not match the actual content type. As there is a content type mismatch, data is discarded. |
| Gateway Action | block_data |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | filename filetype sender_email_address |
| Context Parameters | ALG Module Name |

2.1.178. content_type_mismatch_mimecheck_disabled (ID: 00200391)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | POP3ALG: Content type mismatch found for the file <filename>. It is identified as type <filetype> file |
| Explanation | Received type of data in the packet and its actual type do not match. As there is a mismatch and mime type check is disabled, the data will be allowed. |
| Gateway Action | allow |
| Recommended Action | Content type should be matched. |
| Revision | 2 |
| Parameters | filename filetype |

| | |
|---------------------------|----------------------|
| | sender_email_address |
| Context Parameters | ALG Module Name |

2.1.179. command_blocked_invalid_argument (ID: 00200392)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | POP3ALG: Command blocked.Invalid argument <argument> given |
| Explanation | The client is sending command with invalid argument. The command will be blocked. |
| Gateway Action | block |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | command" argument |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.180. command_blocked (ID: 00200393)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | POP3ALG: Command <command> blocked. |
| Explanation | The client is sending command that are not allowed. The command will be blocked. |
| Gateway Action | block |
| Recommended Action | If the command are to be allowed change the Alg configuration.Note: The STLS command is allways blocked!. |
| Revision | 1 |
| Parameters | command |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.181. unknown_command_blocked (ID: 00200394)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | POP3ALG: Unknown command blocked. |
| Explanation | The client is sending unknown command. The command will be blocked. |

| | |
|---------------------------|--|
| Gateway Action | block |
| Recommended Action | If the command are to be allowed change the Alg configuration. |
| Revision | 1 |
| Parameters | command" |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.182. unexpected_mail_end (ID: 00200396)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | POP3ALG: Unexpected end of mail received while parsing mail content. |
| Explanation | Unexpected end of mail received while parsing mail content.. |
| Gateway Action | block |
| Recommended Action | Research if mail is not complete. |
| Revision | 1 |
| Parameters | sender_email_address len retrigs |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.183. invalid_line_endings (ID: 00200397)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | POP3ALG: Mail contains invalid line endings. |
| Explanation | Mail contains invalid line endings. |
| Gateway Action | block |
| Recommended Action | Research why mail contains invalid line endings. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.184. top_mail_end_blocked (ID: 00200398)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | POP3ALG: The last part of mail retrieved with TOP command blocked. |
| Explanation | Only part of mail retrieved using TOP command was received. The last part was therefore blocked by the Security Gateway. |
| Gateway Action | block |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | len retrigs |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.185. max_tls_sessions_reached (ID: 00200450)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TLSALG: Maximum number of TLS sessions (<max_sessions>) for service reached. Closing connection |
| Explanation | The maximum number of concurrent TLS sessions has been reached for this service. No more sessions can be opened before old sessions have been released. |
| Gateway Action | close |
| Recommended Action | If the maximum number of TLS sessions is too low, increase it. |
| Revision | 1 |
| Parameters | max_sessions |
| Context Parameters | ALG Module Name |

2.1.186. failed_create_new_session (ID: 00200451)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | TLSALG: Failed to create new TLSALG session (out of memory) |
| Explanation | An attempt to create a new TLSALG session failed, because the unit is out of memory. |
| Gateway Action | close |
| Recommended Action | Decrease the maximum allowed TLSALG sessions, or try to free some of the RAM used. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.187. failure_connect_http_server (ID: 00200452)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | TLSALG: Failed to connect to the HTTP Server. Closing connection. ALG name: <alname>. |
| Explanation | The unit failed to connect to the HTTP Server, resulting in that the ALG session could not be successfully opened. |
| Gateway Action | close |
| Recommended Action | Verify that there is a listening HTTP Server on the specified address. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.188. tls_alert_received (ID: 00200453)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | TLSALG: Received TLS <alert> alert from peer. |
| Explanation | A TLS alert was received. The TLS ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alert level alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.189. tls_renegotiation_attempted (ID: 00200454)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | TLSALG: TLS renegotiation attempted but not supported. |
| Explanation | The TLS peer initiated a renegotiation. Renegotiation is however not supported so an alert was sent to let the peer know that there will be no renegotiation. |
| Gateway Action | tls_alert_sent |

| | |
|---------------------------|-----------------------------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.190. tls_alert_sent (ID: 00200455)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | TLSALG: Sent TLS <alert> alert to peer. |
| Explanation | A TLS error has occurred that caused an alert to be sent to the peer. The TLS ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alert level alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.191. tls_cipher_suite_certificate_mismatch (ID: 00200456)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | TLSALG: The negotiated cipher suite can not be used with the configured certificate. |
| Explanation | The negotiated cipher suite, which is an exportable cipher suite, does not permit using the certificate's key to perform the key exchange. The certificate can not be sent and the TLS ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | Change cipher suites and/or certificate. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.192. ssl_renegotiation_attempted (ID: 00200457)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | TLSALG: SSL renegotiation attempted but not supported. |
| Explanation | The SSL peer initiated a renegotiation. Renegotiation is however not supported so the TLS ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.193. tls_disallowed_key_exchange (ID: 00200458)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | TLSALG: Disallowed key exchange. |
| Explanation | The TLS ALG session will be closed because there are not enough resources to process any TLS key exchanges at the moment. This could be a result of TLS handshake message flooding. This action is triggered by a system that monitors the amount of resources that is spent on key exchanges. This system is controlled by the advanced setting SSL_ProcessingPriority. |
| Gateway Action | close |
| Recommended Action | Investigate the source of this, and try to find out if it is a part of a possible attack, or normal traffic. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.194. tls_invalid_message (ID: 00200459)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | TLSALG: Invalid TLS <message_type> message received. |
| Explanation | A badly formatted TLS message has been received. The TLS ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |

| | |
|---------------------------|-----------------------------------|
| Revision | 1 |
| Parameters | message_type alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.195. tls_bad_message_order (ID: 00200460)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | TLSALG: Bad TLS handshake message order. |
| Explanation | A TLS handshake message of a type that is not expected in the current state of the handshake was received. The TLS ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.196. tls_no_shared_cipher_suites (ID: 00200461)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TLSALG: No shared cipher suites. |
| Explanation | A connecting TLS peer does not share any cipher suites with the unit. The TLS ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | Make sure that the client and the unit share atleast one cipher suite. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.197. tls_out_of_memory (ID: 00200462)

| | |
|-------------------------|------------------------|
| Default Severity | ERROR |
| Log Message | TLSALG: Out of memory. |

| | |
|---------------------------|---|
| Explanation | The unit was unable to allocate the memory required to process the TLS connection of a TLS ALG session. The TLS ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.198. `tls_failed_to_verify_finished` (ID: 00200463)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | TLSALG: Failed to verify finished message. |
| Explanation | The unit failed to verify the TLS finished message. The finished message is used to verify that the key exchange and authentication processes were successful. The TLS ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.199. `unknown_tls_error` (ID: 00200464)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | TLSALG: Unknown TLS error. |
| Explanation | An unknown TLS error has occurred. The TLS ALG session will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alname |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.200. sdp_message_parsing_failed (ID: 00200501)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | SIPALG: SDP message parsing failed |
| Explanation | SDP part of message failed parsing due to malformed message. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | Examine why client or server is sending a malformed SDP message. |
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.201. sdp_message_validation_failed (ID: 00200502)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: SDP message validation failed |
| Explanation | SDP part of message failed validation due to malformed message. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | Examine why client or server is sending a malformed SDP message. |
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.202. sip_message_parsing_failed (ID: 00200503)

| | |
|-------------------------|-------|
| Default Severity | ERROR |
|-------------------------|-------|

| | |
|---------------------------|--|
| Log Message | SIPALG: SIP message parsing failed |
| Explanation | SIP part of message failed parsing due to malformed message. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | Examine why client or server is sending a malformed SIP message. |
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.203. sip_message_validation_failed (ID: 00200504)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | SIPALG: SIP message validation failed due to malformed message |
| Explanation | SIP part of message failed validation due to malformed message. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | Examine why client or server is sending a malformed SIP message. |
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.204. max_sessions_per_uri_reached (ID: 00200505)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | SIPALG: Maximum number of sessions per SIP URI has been reached |
| Explanation | The configured maximum number of concurrent SIP sessions [max_ses_per_id] per SIP URI has been reached. |
| Gateway Action | close |

| | |
|---------------------------|--|
| Recommended Action | If the maximum number of SIPALG sessions per SIP URI is too low, increase it. |
| Revision | 2 |
| Parameters | max_ses_per_id from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.205. registration_hijack_detected (ID: 00200506)

| | |
|---------------------------|--|
| Default Severity | ALERT |
| Log Message | Registration hijack attempt detected |
| Explanation | The number of registration attempts [reg_hijack_count] has been exceeded. |
| Gateway Action | drop |
| Recommended Action | Check with the user, why he is using false authentication to register. |
| Revision | 2 |
| Parameters | reg_hijack_count from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.206. sip_signal_timeout (ID: 00200507)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SIPALG: SIP signal timeout |
| Explanation | SIP signal timeout for session [method]. The session will be deleted. |
| Gateway Action | close |
| Recommended Action | If the configured SIP signal timeout value is too low, increase it. |
| Revision | 2 |
| Parameters | method from_uri |

| | |
|---------------------------|--|
| | to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.207. sip_request_response_timeout (ID: 00200508)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SIPALG: SIP request-response timeout |
| Explanation | SIP request-response timeout for the session [method]. The session will be deleted. |
| Gateway Action | close |
| Recommended Action | If the configured SIP Request-Response timeout value is too low, increase it. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.208. registration_time_modified (ID: 00200509)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | SIPALG: Expire value modified in registration request |
| Explanation | The SIP-ALG modified the requested registration time since it exceeds the configured maximum registration time value [cfg_registration_time]. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | cfg_registration_time from_uri to_uri srcip srcport destip |

| | |
|---------------------------|-----------------|
| | destport |
| Context Parameters | ALG Module Name |

2.1.209. unsuccessful_registration (ID: 00200510)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SIPALG: Unsuccessful registration |
| Explanation | The user failed to register. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.210. unsuccessful_unregistration (ID: 00200511)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | SIPALG: Failed unregistration |
| Explanation | The user failed to unregister. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.211. unsuccessful_search_in_registration_table (ID:

00200512)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SIPALG: Registration entry not found |
| Explanation | The specified user could not be found in the register table. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.212. sipalg_session_created (ID: 00200513)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | SIPALG: New SIP-ALG session created |
| Explanation | New SIP-ALG session for [method] request created. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.213. failed_to_create_session (ID: 00200514)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to create sipalg session |

| | |
|---------------------------|--|
| Explanation | A new SIP-ALG session for [method] request could not be created. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.214. failed_to_find_session (ID: 00200515)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to find sipalg session |
| Explanation | Failed to find sipalg session. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.215. sipalg_session_deleted (ID: 00200516)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | SIPALG: SIP-ALG session deleted |
| Explanation | SIP-ALG session deleted for [method] request. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method |

| | |
|---------------------------|--|
| | from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.216. sipalg_session_state_updated (ID: 00200517)

| | |
|---------------------------|---|
| Default Severity | DEBUG |
| Log Message | SIPALG: SIP-ALG session state updated |
| Explanation | The SIP-ALG session state updated to [session_state] state. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | session_state from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.217. sipalg_transaction_created (ID: 00200520)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | SIPALG: Transaction created |
| Explanation | SIP-ALG transaction created for [method] request. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.218. failed_to_create_new_transaction (ID: 00200521)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to create transaction |
| Explanation | The SIP-ALG failed to create transaction for [method] request. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.219. failed_to_find_transaction (ID: 00200522)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SIPALG: Failed to find transaction |
| Explanation | Failed to find transaction for [method] request. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.220. sipalg_transaction_deleted (ID: 00200523)

| | |
|-------------------------|------------------------------------|
| Default Severity | NOTICE |
| Log Message | SIPALG: sipalg transaction deleted |

| | |
|---------------------------|--|
| Explanation | The transaction for [method] request is deleted. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.221. sipalg_transaction_state_updated (ID: 00200524)

| | |
|---------------------------|---|
| Default Severity | DEBUG |
| Log Message | SIPALG: Transaction state updated |
| Explanation | A SIP-ALG transaction state has been updated to [transaction_state] state. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | transaction_state from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.222. no_route_found (ID: 00200526)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to find route for given host |
| Explanation | No route information found for the given host. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | None. |

| | |
|---------------------------|--|
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.223. failed_to_get_free_port (ID: 00200527)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | SIPALG: Failed to get free NAT port pair for the given host |
| Explanation | Failed to get free port for the given host. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | The system is unstable and might require a reboot. |
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.224. failed_to_find_role (ID: 00200528)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to find role |
| Explanation | SIPALG: Failed to find role for [method] request. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip |

| | |
|---------------------------|-----------------|
| | destport |
| Context Parameters | ALG Module Name |

2.1.225. failed_to_update_port (ID: 00200529)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to update port information |
| Explanation | Failed to update port into session for [method] request. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.226. failed_to_update_contact (ID: 00200530)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to update contact |
| Explanation | Failed to update contact into session for [method] request. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.227. failed_to_modify_sdp_message (ID: 00200531)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to modify SDP message |
| Explanation | Failed to modify SDP part of message. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.228. failed_to_modify_via (ID: 00200532)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to modify via in message |
| Explanation | Failed to modify the via header in message for [method] request. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.229. failed_to_modify_from (ID: 00200533)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to modify FROM tag in message |
| Explanation | Failed to modify the FROM tag in message for [method] request. |
| Gateway Action | drop |
| Recommended Action | None. |

| | |
|---------------------------|--|
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.230. failed_to_modify_request_uri (ID: 00200534)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to modify request URI in message |
| Explanation | Failed to modify the request URI in message for [method] request. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.231. failed_to_modify_request (ID: 00200535)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to modify the request |
| Explanation | Failed to modify the topology info in the [method] request. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip |

| | |
|---------------------------|-----------------|
| | destport |
| Context Parameters | ALG Module Name |

2.1.232. method_not_supported (ID: 00200536)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SIPALG: Method not supported |
| Explanation | The method [method] is not supported. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.233. general_error (ID: 00200537)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SIPALG: General Error |
| Explanation | General error while processing message. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.234. third_party_call_control (ID: 00200538)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SIPALG: Block third party SIP request |
| Explanation | The SIP-ALG has detected a SIP/SDP message involving third party IP address. Reason: [reason]. The request will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.235. out_of_memory (ID: 00200539)

| | |
|---------------------------|--|
| Default Severity | EMERGENCY |
| Log Message | SIPALG: Out of memory |
| Explanation | Memory allocation failed while processing SIP message. |
| Gateway Action | drop |
| Recommended Action | Change configuration to free up more RAM. |
| Revision | 1 |
| Parameters | message |

2.1.236. null_sip_message_received (ID: 00200540)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | SIPALG: SIP packet reception error. Reason:<reason> |
| Explanation | Packet without data received. |
| Gateway Action | drop |
| Recommended Action | Research how SIPALG received NULL SIP packet. |
| Revision | 1 |
| Parameters | reason |
| Context Parameters | ALG Module Name |

2.1.237. user_registered (ID: 00200541)

| | |
|---------------------------|---------------------------------|
| Default Severity | NOTICE |
| Log Message | SIPALG: Successful Registration |
| Explanation | User [user_name] registered. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | user_name contact |
| Context Parameters | ALG Module Name |

2.1.238. user_unregistered (ID: 00200542)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | SIPALG: Successful unregistration |
| Explanation | User [user_name] unregistered successfully. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | user_name contact |
| Context Parameters | ALG Module Name |

2.1.239. dns_resolution_failed (ID: 00200545)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed to do dns resolve |
| Explanation | An attempt to resolve dns failed. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | Check if the dns servers are configured. |
| Revision | 1 |
| Parameters | reason |
| Context Parameters | ALG Module Name |

2.1.240. failed_to_modify_contact (ID: 00200547)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to modify contact tag in message |
| Explanation | Failed to modify the contact tag in SIP message. Reason: [reason]. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | reason from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.241. invalid_udp_packet (ID: 00200548)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | SIPALG: Invalid SIP UDP packet received |
| Explanation | The SIP ALG received an invalid UDP packet. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.242. failed_to_parse_media (ID: 00200549)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to parse media |
| Explanation | Failed to parse media for the request [method]. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |

| | |
|---------------------------|--|
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.243. max_session_per_service_reached (ID: 00200550)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SIPALG: Maximum number of transaction per session has been reached |
| Explanation | The configured maximum number of concurrent SIP sessions [max_ses_per_service] per SIP SERVICE has been reached. |
| Gateway Action | close |
| Recommended Action | If the maximum number of SIPALG sessions per SIP service is too low, increase it. |
| Revision | 2 |
| Parameters | max_ses_per_service from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.244. max_tsxn_per_session_reached (ID: 00200551)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SIPALG: Maximum number of sessions per Service has been reached |
| Explanation | The configured maximum number of transaction [max_tsxn_per_session] per SIP SESSION has been reached. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | max_tsxn_per_session from_uri to_uri srcip |

| | |
|---------------------------|-------------------------------|
| | srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.245. invalid_transaction_state (ID: 00200552)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Invalid transaction state change |
| Explanation | Invalid transaction state found [tsxn_invalid_state]. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | tsxn_invalid_state from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.246. invalid_session_state (ID: 00200553)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | SIPALG: Invalid session state change |
| Explanation | Invalid session state found [session_invalid_state]. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | session_invalid_state from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.247. sipalg_calleg_created (ID: 00200554)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | SIPALG: CallLeg created |
| Explanation | SIP-ALG calleg created for [method] request. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.248. failed_to_create_new_calleg (ID: 00200555)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to create calleg |
| Explanation | The SIP-ALG failed to create calleg for [method] request. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.249. failed_to_find_calleg (ID: 00200556)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | SIPALG: Failed to find calleg |
| Explanation | Failed to find calleg for [method] request. |
| Gateway Action | drop |

| | |
|---------------------------|--|
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.250. failed_to_update_callleg (ID: 00200557)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SIPALG: Failed to update callleg |
| Explanation | Failed to update callleg for [method] request. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.251. sipalg_callleg_deleted (ID: 00200558)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | SIPALG: sipalg callleg deleted |
| Explanation | The callleg for [method] request is deleted. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip |

| | |
|---------------------------|-----------------------------------|
| | srcport destip destport |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.252. failed_to_modify_response (ID: 00200559)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to modify the response |
| Explanation | Failed to modify the topology info in the [method] response. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.253. sipalg_calleg_state_updated (ID: 00200560)

| | |
|---------------------------|--|
| Default Severity | DEBUG |
| Log Message | SIPALG: SIP-ALG calleg state updated |
| Explanation | The SIP-ALG calleg state updated to [calleg_state] state. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | calleg_state from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.254. failed_to_modify_sat_request (ID: 00200561)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SIPALG: Failed to modify the SAT request |
| Explanation | Failed to modify request ip to SAT destination IP in the [method] request. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | method from_uri to_uri srcip srcport destip destport |
| Context Parameters | ALG Module Name |

2.1.255. max_pptp_sessions_reached (ID: 00200601)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | PPTPALG: Maximum number of PPTP sessions (<max_sessions>) for service reached. Closing connection |
| Explanation | The maximum number of concurrent PPTP sessions has been reached for this service. No more sessions can be opened before old sessions have been released. |
| Gateway Action | close |
| Recommended Action | If the maximum number of PPTP sessions is too low, increase it. |
| Revision | 1 |
| Parameters | max_sessions |
| Context Parameters | ALG Module Name |

2.1.256. failed_create_new_session (ID: 00200602)

| | |
|-------------------------|--|
| Default Severity | CRITICAL |
| Log Message | PPTPALG: Failed to create new PPTPALG session (out of memory) |
| Explanation | An attempt to create a new PPTPALG session failed. The unit has run out of memory. |

| | |
|---------------------------|---|
| Gateway Action | close |
| Recommended Action | Decrease the maximum allowed PPTPALG sessions, or try to free some of the RAM used. |
| Revision | 1 |
| Context Parameters | ALG Module Name |

2.1.257. failed_connect_pptp_server (ID: 00200603)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | PPTPALG: Failed to connect to the PPTP Server. Closing the connection. |
| Explanation | The PPTP ALG could not connect to the receiving PPTP server, resulting in that the ALG session could not be successfully opened. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID |

2.1.258. pptp_tunnel_established_client (ID: 00200604)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | PPTPALG: PPTP tunnel established from client |
| Explanation | A PPTP tunnel has been established between PPTP client and security gateway. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Session ID ALG Module Name |

2.1.259. pptp_tunnel_removed_client (ID: 00200605)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | PPTPALG: PPTP tunnel between client and security gateway removed |
| Explanation | A PPTP tunnel has been removed between the PPTP client and the |

| | |
|---------------------------|-----------------------------------|
| | PPTP-ALG. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Session ID ALG Module Name |

2.1.260. pptp_tunnel_removed_server (ID: 00200606)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | PPTPALG: PPTP tunnel between server and security gateway removed |
| Explanation | A PPTP tunnel has been removed between the PPTP server and the PPTP-ALG. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Session ID ALG Module Name |

2.1.261. pptp_session_established (ID: 00200607)

| | |
|---------------------------|--------------------------------------|
| Default Severity | NOTICE |
| Log Message | PPTPALG: PPTP session established |
| Explanation | A PPTP session has been established. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Session ID ALG Module Name |

2.1.262. pptp_session_removed (ID: 00200608)

| | |
|-------------------------|----------------------------------|
| Default Severity | NOTICE |
| Log Message | PPTPALG: PPTP session removed |
| Explanation | A PPTP session has been removed. |

| | |
|---------------------------|-----------------------------------|
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Session ID ALG Module Name |

2.1.263. pptp_malformed_packet (ID: 00200609)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Malformed packet received from <remotegw> on <iface> |
| Explanation | A malformed packet was received by the PPTP-ALG. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegw |

2.1.264. pptp_tunnel_established_server (ID: 00200610)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | PPTPALG: PPTP tunnel established from server |
| Explanation | A PPTP tunnel has been established between PPTP server and security gateway. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Session ID ALG Module Name |

2.2. ANTISPAM

These log messages refer to the **ANTISPAM (Anti-spam related events)** category.

2.2.1. recipient_email_changed_to_drop_address (ID: 05900196)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | SMTPALG: Recipient e-mail address is changed to DNSBL Drop address |
| Explanation | "RCPT TO:" e-mail address is changed to the Drop address configured in DNS Blacklist. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | sender_email_address drop_address |
| Context Parameters | ALG Module Name ALG Session ID |

2.2.2. dnsbl_allocate_error (ID: 05900800)

| | |
|---------------------------|----------------------------|
| Default Severity | EMERGENCY |
| Log Message | Could not allocate memory |
| Explanation | Could not allocate memory. |
| Gateway Action | none |
| Recommended Action | Check memory. |
| Revision | 1 |
| Parameters | type |

2.2.3. dnsbl_ipcache_add (ID: 05900810)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | IP <ipaddr> added to IP Cache for <alname> |
| Explanation | An IP address was added to the IP Cache. |
| Gateway Action | none |

| | |
|---------------------------|--------------------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | type alname ipaddr |

2.2.4. dnsbl_ipcache_remove (ID: 05900811)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | IP <ipaddr> removed from IP Cache for <alname> due to timeout |
| Explanation | An IP address was removed from the IP Cache due to timeout. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | type alname ipaddr |

2.2.5. dnsbl_session_add (ID: 05900812)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Session created for IP <ipaddr> for <alname> |
| Explanation | Session created and awaiting processing. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | type alname ipaddr |

2.2.6. dnsbl_session_error (ID: 05900813)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | Error creating Session for IP <ipaddr> for <alname> |
| Explanation | Error creating new Session. |
| Gateway Action | dnsbl will not process mail |

| | |
|---------------------------|---------------------------------------|
| Recommended Action | Check configuration and dns settings. |
| Revision | 1 |
| Parameters | type alname ipaddr |

2.2.7. dnsbl_ipcache_add (ID: 05900814)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Session for IP <ipaddr> for <alname> is done with result <result> |
| Explanation | An IP address was added to the IP Cache. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | type alname ipaddr result |

2.2.8. dnsbl_disabled (ID: 05900815)

| | |
|---------------------------|---|
| Default Severity | EMERGENCY |
| Log Message | DNSBL for <alname> has been disabled |
| Explanation | The DNSBL has been disabled due to few active BlackLists. |
| Gateway Action | none |
| Recommended Action | Check configuration of DNSBL. |
| Revision | 1 |
| Parameters | type alname |

2.2.9. dnsbl_active (ID: 05900816)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | DNSBL for <alname> has been activated |
| Explanation | The DNSBL has changed status from disabled to active as contact with BlackLists have been restored. |
| Gateway Action | none |

| | |
|---------------------------|----------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | type alname |

2.2.10. dnsbl_query_add (ID: 05900817)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Query created for IP <ipaddr> to BlackList <blacklist> for <alname> |
| Explanation | A DNS Query was created. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | type alname ipaddr blacklist query |

2.2.11. dnsbl_blacklist_disable (ID: 05900818)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | BlackList <blacklist> for <alname> has been disabled |
| Explanation | BlackList was disable as it failed to respond to the query. |
| Gateway Action | none |
| Recommended Action | Check configuration if keeps begin disabled. |
| Revision | 1 |
| Parameters | type alname blacklist |

2.2.12. dnsbl_txtrecord_truncated (ID: 05900819)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | TXT records does not fit buffer for Session with IP <ipaddr> for <alname> |
| Explanation | TXT records will not fit the string buffer and will be truncated. |

| | |
|---------------------------|--------------------------|
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | type alname ipaddr |

2.2.13. dnsbl_record_truncated (ID: 05900820)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | DNSBL name not fit buffer for Session with IP <ipaddr> for <alname> |
| Explanation | DNSBL name will not fit the string buffer and will be truncated. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | type alname ipaddr |

2.3. ANTIVIRUS

These log messages refer to the **ANTIVIRUS (Anti-virus related events)** category.

2.3.1. virus_found (ID: 05800001)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Virus found in file <filename>. Virus Name: <virusname>. Signature: <virussig>. Advisory ID: <advisoryid>. |
| Explanation | A virus has been detected in a data stream. Since anti-virus is running in protect mode, the data transfer will be aborted in order to protect the receiver. |
| Gateway Action | block_data |
| Recommended Action | If the infected file is local, run anti-virus program to clean the file. |
| Revision | 2 |
| Parameters | filename virusname virussig advisoryid [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.2. virus_found (ID: 05800002)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Virus found in file <filename>. Virus Name: <virusname>. Signature: <virussig>. Advisory ID: <advisoryid>. |
| Explanation | A virus has been detected in a data stream. Since anti-virus is running in audit mode, the data transfer will be allowed to continue. |
| Gateway Action | allow_data |
| Recommended Action | If the infected file is local, run anti-virus program to clean the file. |
| Revision | 2 |
| Parameters | filename virusname virussig advisoryid [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name |

ALG Session ID
Connection

2.3.3. excluded_file (ID: 05800003)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | File <filename> is excluded from scanning. Identified filetype: <filetype>. |
| Explanation | The named file will be excluded from anti-virus scanning. The filetype is present in the anti-virus scan exclusion list. |
| Gateway Action | allow_data_without_scan |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | filename filetype [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.4. decompression_failed (ID: 05800004)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Decompression error for file <filename> |
| Explanation | The file could not be scanned by the anti-virus module since the decompression of the compressed file failed. Since anti-virus is running in protect mode, the data transfer will be aborted in order to protect the receiver. |
| Gateway Action | block_data |
| Recommended Action | Change Fail Mode parameter to allow if files that fail decompression should be allowed without scanning. |
| Revision | 1 |
| Parameters | filename [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.5. decompression_failed (ID: 05800005)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Decompression error for file <filename> |
| Explanation | The file could not be scanned by the anti-virus module since the decompression of the compressed file failed. Since anti-virus is running in audit mode, the data transfer will be allowed to continue. |
| Gateway Action | allow_data |
| Recommended Action | Change Fail Mode parameter to deny if files that fail decompression should be blocked. |
| Revision | 1 |
| Parameters | filename [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.6. compression_ratio_violation (ID: 05800006)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Compression ratio violation for file <filename>. Compression ratio threshold: <comp_ratio> |
| Explanation | Anti-virus has scanned a compressed file with a compression ratio higher than the specified value. Action is set to continue scan. |
| Gateway Action | continue_scan |
| Recommended Action | Files with too high compression ratio can consume large amount of resources. This can be a DOS attack. |
| Revision | 1 |
| Parameters | filename comp_ratio [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.7. compression_ratio_violation (ID: 05800007)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Compression ratio violation for file <filename>. Compression ratio threshold: <comp_ratio> |

| | |
|---------------------------|--|
| Explanation | Anti-virus has scanned a compressed file with a compression ratio higher than the specified value. Action is set to continue scan. |
| Gateway Action | abort_scan |
| Recommended Action | Files with too high compression ratio can consume large amount of resources. This can be a DOS attack. |
| Revision | 1 |
| Parameters | filename comp_ratio [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.8. compression_ratio_violation (ID: 05800008)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Compression ratio violation for file <filename>. Compression ratio threshold: <comp_ratio> |
| Explanation | Anti-virus has scanned a compressed file with a compression ratio higher than the specified value. Action is set to continue scan. |
| Gateway Action | block_data |
| Recommended Action | Files with too high compression ratio can consume large amount of resources. This can be a DOS attack. |
| Revision | 1 |
| Parameters | filename comp_ratio [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.9. out_of_memory (ID: 05800009)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | Out of memory |
| Explanation | Memory allocation failed. Since anti-virus is running in audit mode, the data transfer will be allowed to continue. |
| Gateway Action | allow_data |

| | |
|---------------------------|---|
| Recommended Action | Try to free some memory by changing configuration parameters. |
| Revision | 1 |
| Parameters | filename filetype [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.10. out_of_memory (ID: 05800010)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Out of memory |
| Explanation | Memory allocation failed. Since anti-virus is running in protect mode, the data transfer will be aborted in order to protect the receiver. |
| Gateway Action | block_data |
| Recommended Action | Try to free some memory by changing configuration parameters. |
| Revision | 1 |
| Parameters | filename filetype [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.11. virus_scan_failure (ID: 05800011)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Anti-virus scan engine failed for the file: <filename> |
| Explanation | An error occurred in the anti-virus scan engine. Since anti-virus is running in protect mode, the data transfer will be aborted in order to protect the receiver. |
| Gateway Action | block_data |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | filename [layer7_srcinfo] |

| | |
|---------------------------|---|
| | [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.12. virus_scan_failure (ID: 05800012)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Anti-virus scan engine failed for the file: <filename> |
| Explanation | An error occurred in the anti-virus scan engine. Since anti-virus is running in audit mode, the data transfer will be allowed to continue. |
| Gateway Action | allow_data |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | filename [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.13. no_valid_license (ID: 05800015)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | AVSE: Virus scanning aborted. No valid license present. |
| Explanation | Anti-virus scanning is aborted since there is no valid license present. |
| Gateway Action | av_scanning_aborted |
| Recommended Action | If anti-virus scanning is wanted, you must get a valid license with anti-virus capabilities. Anti-virus scanning can be turned off in order to avoid future postings of this log message. |
| Revision | 2 |
| Context Parameters | ALG Session ID |

2.3.14. av_signatures_missing (ID: 05800016)

| | |
|-------------------------|--|
| Default Severity | CRITICAL |
| Log Message | AVSE: Virus scanning aborted. Not all virus signatures present. |
| Explanation | Anti-virus scanning is aborted since there is local anti-virus signature |

| | |
|---------------------------|--|
| | databases missing. |
| Gateway Action | av_scanning_denied |
| Recommended Action | Connect your gateway to the Internet and download the anti-virus databases or configure automatic updates of anti-virus. |
| Revision | 3 |
| Context Parameters | ALG Session ID |

2.3.15. general_engine_error (ID: 05800017)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | AVSE: Virus scanning aborted. General error occurred during initialization. |
| Explanation | Anti-virus scanning is aborted since the scan engine returned a general error during initialization. |
| Gateway Action | av_scanning_aborted |
| Recommended Action | Try to restart the unit in order to solve this issue. |
| Revision | 2 |
| Context Parameters | ALG Session ID |

2.3.16. out_of_memory (ID: 05800018)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | AVSE: Virus scanning aborted. Out of memory during initialization. |
| Explanation | Anti-virus scanning is aborted since the scan engine run out of memory during initialization. |
| Gateway Action | av_scanning_denied |
| Recommended Action | Review your configuration in order to free up more RAM. |
| Revision | 2 |
| Context Parameters | ALG Session ID |

2.3.17. virus_url_detected (ID: 05800020)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Virus infected URL found in URL <url>. Advisory ID: <advisoryid>. |
| Explanation | A virus infected URL request has been detected. Since anti-virus is running in protect mode, the request will be aborted in order to |

| | |
|---------------------------|---|
| | protect the receiver. |
| Gateway Action | block_data |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | url advisoryid [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.18. virus_url_detected (ID: 05800021)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Virus infected URL found in URL <url>. Advisory ID: <advisoryid>. |
| Explanation | A virus infected URL request has been detected. Since anti-virus is running in audit mode, the request will be allowed to continue. |
| Gateway Action | allow_data |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | url advisoryid [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.19. decompression_failed_encrypted_file (ID: 05800024)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Decompression failed for file <filename>. The file is encrypted. |
| Explanation | The file could not be scanned by the anti-virus module since the compressed file is encrypted with password protection. Since anti-virus is running in protect mode, the data transfer will be aborted in order to protect the receiver. |
| Gateway Action | block_data |
| Recommended Action | Change Fail Mode parameter to allow if files that fail decompression should be allowed without scanning. |

| | |
|---------------------------|--|
| Revision | 1 |
| Parameters | filename [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.20. decompression_failed_encrypted_file (ID: 05800025)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Decompression failed for file <filename>. The file is encrypted. |
| Explanation | The file could not be scanned by the anti-virus module since the compressed file is encrypted with password protection. Since anti-virus is running in audit mode, the data transfer will be allowed to continue. |
| Gateway Action | allow_data |
| Recommended Action | Change Fail Mode parameter to deny if files that fail decompression should be blocked. |
| Revision | 1 |
| Parameters | filename [layer7_srcinfo] [layer7_dstinfo] |
| Context Parameters | ALG Module Name ALG Session ID Connection |

2.3.21. out_of_memory (ID: 05800027)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Out of memory while allocating anti-virus cache entry. |
| Explanation | An attempt to add a detected virus to the anti-virus cache failed since the system has run out of memory. . |
| Gateway Action | ignore |
| Recommended Action | Try to free some memory by changing configuration parameters. |
| Revision | 1 |

2.3.22. unknown_encoding (ID: 05800182)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTPALG: Content transfer encoding is unknown or not present |
| Explanation | Antivirus module cannot scan the attachment since the transfer encoding is missing or unknown. Fail Mode is deny so data is blocked. |
| Gateway Action | block_data |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | filename unknown_content_transfer_encoding sender_email_address recipient_email_addresses: |
| Context Parameters | ALG Module Name ALG Session ID |

2.3.23. unknown_encoding (ID: 05800183)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTPALG: Content transfer encoding is unknown or not present. |
| Explanation | Antivirus module cannot scan the attachment since the transfer encoding is missing or unknown. Fail Mode is allow so data is allowed without scanning. |
| Gateway Action | allow_data_without_scan |
| Recommended Action | Research the Content Transfer Encoding format. |
| Revision | 1 |
| Parameters | filename unknown_content_transfer_encoding sender_email_address recipient_email_addresses |
| Context Parameters | ALG Module Name ALG Session ID |

2.3.24. unknown_encoding (ID: 05800184)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | POP3ALG: Content transfer encoding is unknown or not present |
| Explanation | Antivirus module cannot scan the attachment since the transfer encoding is missing or unknown. Fail Mode is deny so data is blocked. |

| | |
|---------------------------|---|
| Gateway Action | block_data |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | filename unknown_content_transfer_encoding sender_email_address |
| Context Parameters | ALG Module Name ALG Session ID |

2.3.25. unknown_encoding (ID: 05800185)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | POP3ALG: Content transfer encoding is unknown or not present. |
| Explanation | Antivirus module cannot scan the attachment since the transfer encoding is missing or unknown. Fail Mode is allow so data is allowed without scanning. |
| Gateway Action | allow_data_without_scan |
| Recommended Action | Research the Content Transfer Encoding format. |
| Revision | 1 |
| Parameters | filename unknown_content_transfer_encoding sender_email_address |
| Context Parameters | ALG Module Name ALG Session ID |

2.4. APPCONTROL

These log messages refer to the **APPCONTROL (Application Control events)** category.

2.4.1. application_identified (ID: 07200001)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Application identified. Application: <application>. |
| Explanation | An application protocol has been recognized by the application control function. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | application |
| Context Parameters | Connection |

2.4.2. application_identified (ID: 07200002)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Application identified. Application: <application>. |
| Explanation | An application protocol has been recognized by the application control function. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | application |
| Context Parameters | Connection |

2.4.3. application_end (ID: 07200003)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Application ended. Application: <application>. |
| Explanation | The end of an application protocol has been recognized by the application control function. |
| Gateway Action | None |
| Recommended Action | None. |

| | |
|---------------------------|-------------------------------------|
| Revision | 2 |
| Parameters | application origsent termsent |
| Context Parameters | Connection |

2.4.4. application_control_disabled (ID: 07200004)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Application Control disabled |
| Explanation | Application Control has been disabled due to license restriction. |
| Gateway Action | no_valid_license |
| Recommended Action | Extend valid time for Application Control. |
| Revision | 2 |

2.4.5. appctl_memory_optimized (ID: 07200008)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Cleaning up Application Control memory |
| Explanation | The application control subsystem cleaned up memory usage in order to free memory. The AppCtl_FreeMemOptLevel setting can be used to tweak the limit when memory cleanup should be triggered. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |

2.4.6. application_content (ID: 07200015)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Application attribute found. Application: <application> Attribute: <attribute> Value: <value> |
| Explanation | An application attribute has been identified by Application Content Control. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

| | |
|---------------------------|-----------------------------------|
| Parameters | application attribute value |
| Context Parameters | Connection |

2.4.7. application_content_allowed (ID: 07200016)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Application content allowed. Application: <application> Attribute: <attribute> Value: <value> |
| Explanation | The identified application attribute and its value is allowed by the Application Content Control policy. |
| Gateway Action | None |
| Recommended Action | Modify the Application Content Control policy if this traffic should be denied. |
| Revision | 1 |
| Parameters | application attribute value |
| Context Parameters | Connection |

2.4.8. application_content_denied (ID: 07200017)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Application content denied. Application: <application> Attribute: <attribute> Value: <value> |
| Explanation | The configured Application Content Control policy does not allow the identified attribute or its value. The connection is closed. |
| Gateway Action | close |
| Recommended Action | Modify the Application Content Control policy if this traffic should be allowed. |
| Revision | 1 |
| Parameters | application attribute value |
| Context Parameters | Connection |

2.4.9. out_of_memory (ID: 07200018)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Out of memory |
| Explanation | Failed to allocate memory for Application Content Control. |
| Gateway Action | None |
| Recommended Action | Modify the units configuration to make more RAM available. |
| Revision | 1 |
| Context Parameters | Connection |

2.4.10. application_content_limit_reached (ID: 07200019)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Maximum number of concurrent non-classified (in progress) application control connections (50.000) reached. |
| Explanation | There is a maximum of 50.000 Application Content Control attributes to store until connections have been fully classified. This limit has been reached. Application Content Control is disabled for this connection until the connection has been fully classified. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Connection |

2.5. ARP

These log messages refer to the **ARP (ARP events)** category.

2.5.1. unsolicited_reply_drop (ID: 00300001)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Unsolicited ARP reply received and dropped |
| Explanation | An ARP reply was received even though no reply was currently expected for this IP. |
| Gateway Action | None |
| Recommended Action | If this is not the wanted behavior, change the setting UnsolicitedARPReplies. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.5.2. no_sender_ip (ID: 00300002)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | ARP query sender IP is 0.0.0.0 |
| Explanation | The source IP-address of an ARP query is 0.0.0.0. Allowing. |
| Gateway Action | allow |
| Recommended Action | If this is not the desired behaviour, modify the configuration. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.5.3. no_sender_ip (ID: 00300003)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | ARP query sender IP is 0.0.0.0. Dropping |
| Explanation | The source IP-address of an ARP query is 0.0.0.0. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | If this is not the desired behaviour, modify the configuration. |
| Revision | 1 |

| | |
|---------------------------|----------------------------|
| Context Parameters | Rule Name Packet Buffer |
|---------------------------|----------------------------|

2.5.4. arp_response_broadcast (ID: 00300004)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | ARP response is a broadcast address |
| Explanation | The ARP response has a sender address which is a broadcast address. Allowing. |
| Gateway Action | allow |
| Recommended Action | If this is not the desired behaviour, modify the configuration. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.5.5. arp_response_multicast (ID: 00300005)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | ARP response is a multicast address |
| Explanation | The ARP response has a sender address which is a multicast address. This might be the case if there are load balancing network equipment in the network. Allowing. |
| Gateway Action | allow |
| Recommended Action | If this is not the desired behaviour, modify the configuration. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.5.6. mismatching_hwaddrs (ID: 00300006)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | ARP hw sender does not match Ethernet hw sender |
| Explanation | The hardware sender address specified in the ARP data does not match the Ethernet hardware sender address. Allowing. |
| Gateway Action | allow |
| Recommended Action | If this is not the desired behaviour, modify the configuration. |
| Revision | 1 |

| | |
|---------------------------|----------------------------|
| Context Parameters | Rule Name Packet Buffer |
|---------------------------|----------------------------|

2.5.7. mismatching_hwaddrs_drop (ID: 00300007)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | ARP hw sender does not match Ethernet hw sender. Dropping |
| Explanation | The hardware sender address specified in the ARP data does not match the Ethernet hardware sender address. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | If this is not the desired behaviour, modify the configuration. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.5.8. hwaddr_change (ID: 00300008)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | <knownip> has a different address <newhw> compared to the known hardware address <knownhw>. Allow packet for further processing. |
| Explanation | A known dynamic ARP entry has a different hardware address than the one in the ARP packet. Allowing packet for further processing. |
| Gateway Action | allow_processing |
| Recommended Action | If this is not the desired behaviour, modify the configuration. |
| Revision | 1 |
| Parameters | knownip knownhw newhw |
| Context Parameters | Rule Name Packet Buffer |

2.5.9. arp_resolution_failed (ID: 00300009)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | ARP resolution failed |
| Explanation | ARP query was not resolved before the ARP cache entry expired. |
| Gateway Action | remove_entry |

| | |
|---------------------------|-----------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipaddr iface |

2.5.10. unsolicited_reply_accept (ID: 00300010)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Unsolicited ARP reply received and accepted |
| Explanation | An ARP reply was received even though no reply was currently expected for this IP. |
| Gateway Action | None |
| Recommended Action | If this is not the wanted behavior, change the setting UnsolicitedARPReplies. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.5.11. arp_resolution_success (ID: 00300020)

| | |
|---------------------------|---------------------------------------|
| Default Severity | NOTICE |
| Log Message | ARP entry was added to the ARP cache. |
| Explanation | ARP entry was added to the ARP cache. |
| Gateway Action | added_entry |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | enetaddr ipaddr iface |

2.5.12. arp_cache_size_limit_reached (ID: 00300030)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | ARP cache size limit reached |
| Explanation | The ARP cache size limit has been reached. Current license limit is [limit]. |
| Gateway Action | None |

| | |
|---------------------------|--|
| Recommended Action | Update your license to allow a greater amount of concurrent ARP entries. |
| Revision | 1 |
| Parameters | limit |

2.5.13. invalid_arp_sender_ip_address (ID: 00300049)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Failed to verify ARP sender IP address. Dropping |
| Explanation | The ARP sender IP address could not be verified according to the "access" section, and the packet is dropped. |
| Gateway Action | drop |
| Recommended Action | If all ARP sender IP addresses should be accepted without validation, modify the configuration. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.5.14. arp_access_allowed_expect (ID: 00300050)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Allowed by expect rule in access section |
| Explanation | The ARP sender IP address is verified by an expect rule in the access section. |
| Gateway Action | access_allow |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.5.15. impossible_hw_address (ID: 00300051)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | Impossible hardware address 0000:0000:0000 in ARP response. Dropping |
| Explanation | The ARP response has sender hardware address 0000:0000:0000, which is illegal. Dropping packet. |

| | |
|---------------------------|--|
| Gateway Action | drop |
| Recommended Action | Verify that no fault network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.5.16. arp_response_broadcast_drop (ID: 00300052)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | ARP response is a broadcast address. Dropping |
| Explanation | The ARP response has a sender address which is a broadcast address. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | If this is not the desired behaviour, modify the configuration. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.5.17. arp_response_multicast_drop (ID: 00300053)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | ARP response is a multicast address. Dropping |
| Explanation | The ARP response has a sender address which is a multicast address. This might be the case if there are load balancing network equipment in the network. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | If this is not the desired behaviour, modify the configuration. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.5.18. arp_collides_with_static (ID: 00300054)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Known entry is <knowntype> <knownip>=<knownhw>. Dropping |
| Explanation | The hardware sender address does not match the static entry in the ARP table. Static ARP changes are not allowed. Dropping packet. |

| | |
|---------------------------|---|
| Gateway Action | drop |
| Recommended Action | If this is not the desired behaviour, modify the configuration. |
| Revision | 1 |
| Parameters | reason knowntype knownip knownhw |
| Context Parameters | Rule Name Packet Buffer |

2.5.19. hwaddr_change_drop (ID: 00300055)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | <knownip> has a different address <newhw> compared to the known hardware address <knownhw>. Dropping packet. |
| Explanation | A known dynamic ARP entry has a different hardware address than the one in the ARP packet. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | If this is not the desired behaviour, modify the configuration. |
| Revision | 1 |
| Parameters | knownip knownhw newhw |
| Context Parameters | Rule Name Packet Buffer |

2.6. AUTHAGENTS

These log messages refer to the **AUTHAGENTS (Authentication Agent events)** category.

2.6.1. authagent_connected (ID: 06500001)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Connected to Authentication Agent at <name>:<ip4addr>:<port> |
| Explanation | Connected to Authentication Agent. |
| Gateway Action | connected |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | name ip4addr port |

2.6.2. authagent_disconnected (ID: 06500002)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Disconnected from Authentication Agent at <name>:<ip4addr>:<port> |
| Explanation | A Authentication Agent connection was disconnected. |
| Gateway Action | connected |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | name ip4addr port |

2.6.3. authagent_internal_error (ID: 06500003)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Internal error while communicating with Agent <name>:<ip4addr>. |
| Explanation | Internal error. |
| Gateway Action | internal_error |
| Recommended Action | None. |
| Revision | 1 |

| | |
|-------------------|-----------------|
| Parameters | name ip4addr |
|-------------------|-----------------|

2.6.4. authagent_rekeying_error (ID: 06500004)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Agent <name>:<ip4addr> does not accept new key. |
| Explanation | Rekeying error. |
| Gateway Action | rekeying_error |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | name ip4addr |

2.6.5. authagent_protocol_mismatch (ID: 06500005)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | SGW protocol <sgwproto> and Agent <name>:<ip4addr> protocol <agentproto> do not match. |
| Explanation | Protocol mismatch. |
| Gateway Action | protocol_mismatch |
| Recommended Action | Update SGW or Agent. |
| Revision | 1 |
| Parameters | name ip4addr sgwproto agentproto |

2.6.6. authagent_negotiation_error (ID: 06500006)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Negotiation error with Agent <name>:<ip4addr>. |
| Explanation | Negotiation error. |
| Gateway Action | negotiation_error |
| Recommended Action | None. |
| Revision | 1 |

| | |
|-------------------|-----------------|
| Parameters | name ip4addr |
|-------------------|-----------------|

2.6.7. authagent_decryption_error (ID: 06500007)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Error while decrypting message from Agent <name>:<ip4addr>. |
| Explanation | Decryption error. |
| Gateway Action | decryption_error |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | name ip4addr |

2.6.8. authagent_challenge_error (ID: 06500008)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Challenge error with Agent <name>:<ip4addr>. |
| Explanation | Challenge error. |
| Gateway Action | challenge_error |
| Recommended Action | Check PSK. |
| Revision | 1 |
| Parameters | name ip4addr |

2.6.9. authagent_seqnumber_error (ID: 06500009)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Received bad sequence number from Authentication Agent <name>:<ip4addr>. |
| Explanation | Received bad sequence number from Authentication Agent. |
| Gateway Action | seqnumber_error |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | name ip4addr |

2.6.10. authagent_adduser_error (ID: 06500010)

| | |
|---------------------------|-----------------------------------|
| Default Severity | INFORMATIONAL |
| Log Message | Error adding user <name> at <ip>. |
| Explanation | Add user error. |
| Gateway Action | adduser_error |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | name ip |

2.6.11. authagent_initial_error (ID: 06500011)

| | |
|---------------------------|------------------------------|
| Default Severity | INFORMATIONAL |
| Log Message | Error fetching initial data. |
| Explanation | Initial data error. |
| Gateway Action | initial_error |
| Recommended Action | None. |
| Revision | 1 |

2.6.12. authagent_removeuser_error (ID: 06500012)

| | |
|---------------------------|-------------------------------------|
| Default Severity | INFORMATIONAL |
| Log Message | Error removing user <name> at <ip>. |
| Explanation | Remove user error. |
| Gateway Action | removeuser_error |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | name ip |

2.6.13. authagent_password_error (ID: 06500013)

| | |
|-------------------------|---------------|
| Default Severity | INFORMATIONAL |
|-------------------------|---------------|

| | |
|---------------------------|---|
| Log Message | Password error with Agent <name>:<ip4addr>. |
| Explanation | Password error. |
| Gateway Action | password_error |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | name ip4addr |

2.6.14. authagent_user_login (ID: 06500014)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | User logged in. Idle timeout: <idle_timeout>, Session timeout: <session_timeout> |
| Explanation | A user logged in and has been granted access, according to the group membership or user name information. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | idle_timeout session_timeout groups |
| Context Parameters | User Authentication |

2.6.15. authagent_failed_session_update (ID: 06500015)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed to update session timeout. Session timeout: <session_timeout> |
| Explanation | Failed to update session timeout. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | session_timeout groups |
| Context Parameters | User Authentication |

2.7. AVSE

These log messages refer to the **AVSE (Events from Anti Virus Scan Engine)** category.

2.7.1. av_db_digital_signature (ID: 05100001)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Could not start Anti-virus engine because of <reason> |
| Explanation | The unit tried to read the anti-virus database, but failed. The reason for this is specified in the "reason" parameter. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.8. AVUPDATE

These log messages refer to the **AVUPDATE (Antivirus Signature update)** category.

2.8.1. av_db_update_failure (ID: 05000001)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Update of the Anti-virus database failed, because of <reason> |
| Explanation | The unit tried to update the anti-virus database, but failed. The reason for this is specified in the "reason" parameter. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.8.2. av_database_downloaded (ID: 05000002)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | New anti-virus database downloaded |
| Explanation | An updated version of the anti-virus database has been downloaded, which will now be used. |
| Gateway Action | using_new_database |
| Recommended Action | None. |
| Revision | 2 |

2.8.3. av_db_already_up_to_date (ID: 05000003)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Anti-virus database is up-to-date |
| Explanation | The current anti-virus database is up-to-date, and does not need to be updated. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.8.4. av_db_update_denied (ID: 05000004)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Anti-virus database could not be updated, as no valid subscription exist |
| Explanation | The current license does not allow the anti-virus database to be updated. |
| Gateway Action | None |
| Recommended Action | Check the system's time and/or purchase a subscription. |
| Revision | 1 |

2.8.5. av_detects_invalid_system_time (ID: 05000005)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | System clock is not properly set. Invalid date (<date>) in antivirus signature file. Antivirus Disabled |
| Explanation | The system clock is not up to date. The system clock must be set correctly in order to use the antivirus features. Antivirus features remains disabled until clock is correct and a manual antivirus update has been performed. |
| Gateway Action | antivirus_disabled |
| Recommended Action | Check and set the system time correct and perform a manual antivirus update. |
| Revision | 1 |
| Parameters | date |

2.8.6. downloading_new_database (ID: 05000007)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Downloading new antivirus database |
| Explanation | A new antivirus database is available. The database is being downloaded. |
| Gateway Action | downloading_new_database |
| Recommended Action | None. |
| Revision | 1 |

2.8.7. unsynced_databases (ID: 05000008)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | Unsynchronized hardware and software databases detected |
| Explanation | The anti-virus hardware and software databases are not synchronized. A full update is automatically initiated. |
| Gateway Action | downloading_new_database |
| Recommended Action | None. |
| Revision | 1 |

2.8.8. downloading_new_database (ID: 05000009)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Downloading new antivirus database <ss2db> |
| Explanation | A new antivirus database is available. The database is being downloaded. |
| Gateway Action | downloading_new_database |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ss2db |

2.9. BLACKLIST

These log messages refer to the **BLACKLIST (Blacklist events)** category.

2.9.1. failed_to_write_list_of_blocked_hosts_to_media (ID: 04600001)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed to write list of blocked hosts to media |
| Explanation | Failed to write list of blocked hosts to media. The media might be corrupted. |
| Gateway Action | none |
| Recommended Action | Verify that the media is intact. |
| Revision | 1 |

2.9.2. unable_to_allocate_static_entry (ID: 04600002)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unable to allocate static entry for <host> |
| Explanation | Unable to allocate static entry. Unit is low on memory. |
| Gateway Action | no_block |
| Recommended Action | Review the configuration in order to free more RAM. |
| Revision | 1 |
| Parameters | host |

2.9.3. unable_to_allocate_host_entry (ID: 04600003)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Unable to allocate dynamic entry for <host> |
| Explanation | Unable to allocate dynamic entry. Unit is low on memory. |
| Gateway Action | no_block |
| Recommended Action | Review the configuration in order to free more RAM. |
| Revision | 1 |
| Parameters | host |

2.9.4. host_unblacklisted (ID: 04600004)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Blacklist entry removed. Protocol: <proto>, IP: <ip>, Port: <port>. |
| Explanation | A blacklist entry has been removed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | proto ip port |

2.9.5. host_blacklisted (ID: 04600006)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Blacklist entry added . Protocol: <proto>, IP: <ip>, Port: <port>. |
| Explanation | A blacklist entry was added. |
| Gateway Action | None |
| Recommended Action | Investigate threshold or IntrusionDetection rules that could have triggered dynamic blacklisting. |
| Revision | 2 |
| Parameters | proto ip port |

2.10. BUFFERS

These log messages refer to the **BUFFERS (Events regarding buffer usage)** category.

2.10.1. buffers_flooded (ID: 00500001)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | The buffers were flooded for <duration> seconds. Current usage is <buf_usage> percent |
| Explanation | The unit was temporarily out of buffers for a period of time. This could be a result of a period of heavy network traffic load. |
| Gateway Action | None |
| Recommended Action | If this is a reoccurring event, try increasing the number of HighBuffers. |
| Revision | 1 |
| Parameters | duration buf_usage |

2.10.2. buffers_profile (ID: 00500002)

| | |
|---------------------------|---|
| Default Severity | DEBUG |
| Log Message | Buffer requested by <reason> used at total of <duration> ticks and was touched <numstop> times |
| Explanation | A buffer associated with a profiling request has been identified. This log message will only be generated by special built firmware for the purpose of debugging. |
| Gateway Action | None |
| Recommended Action | Nothing. |
| Revision | 1 |
| Parameters | numstop duration reason |
| Context Parameters | Packet Buffer |

2.11. CONN

These log messages refer to the **CONN (State engine events, e.g. open/close connections)** category.

2.11.1. conn_open (ID: 00600001)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Connection opened |
| Explanation | A connection has been opened. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Information Connection Packet Buffer |

2.11.2. conn_close (ID: 00600002)

| | |
|---------------------------|--------------------------------|
| Default Severity | INFORMATIONAL |
| Log Message | Connection closed |
| Explanation | A connection has been closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Information Connection |

2.11.3. connection_table_full (ID: 00600003)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Closing (replacing) this connection; connection table full |
| Explanation | The connection table is currently full, and the unit needs to open a new connection. This specific connection is closed, and replaced with the new connection. |
| Gateway Action | replacing_conn |
| Recommended Action | None. |

| | |
|---------------------------|-------------------------|
| Revision | 1 |
| Context Parameters | Rule Name Connection |

2.11.4. conn_open_natsat (ID: 00600004)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Connection opened |
| Explanation | A connection has been opened. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Information Connection Packet Buffer |

2.11.5. conn_close_natsat (ID: 00600005)

| | |
|---------------------------|--------------------------------|
| Default Severity | INFORMATIONAL |
| Log Message | Connection closed |
| Explanation | A connection has been closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Information Connection |

2.11.6. out_of_connections (ID: 00600010)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Out of connections. Rejecting connection attempt |
| Explanation | The connection table is currently full, and this new connection attempt will be rejected. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |

| | |
|---------------------------|----------------------------|
| Context Parameters | Rule Name Packet Buffer |
|---------------------------|----------------------------|

2.11.7. out_of_connections (ID: 00600011)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Out of connections. Dropping connection attempt |
| Explanation | The connection table is currently full, and this new connection attempt will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.11.8. no_new_conn_for_this_packet (ID: 00600012)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | State inspector would not open a new connection for this TCP packet, rejecting |
| Explanation | State inspector would not open a new connection for this TCP packet since the combination of TCP flags is wrong. Only packets with the SYN TCP-flag set as the only TCP flag are allowed to open a new TCP connection. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | protocol |
| Context Parameters | Rule Name Packet Buffer |

2.11.9. no_new_conn_for_this_packet (ID: 00600013)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | State inspector would not open a new connection for this ICMP packet, dropping packet |
| Explanation | State inspector would not open a new connection for this ICMP packet since it is not an ICMP Echo Request. Only Echo Requests are allowed to open a new ICMP connection. |

| | |
|---------------------------|----------------------------|
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | protocol |
| Context Parameters | Rule Name Packet Buffer |

2.11.10. no_return_route (ID: 00600014)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Failed to open a new connection since a return route to the sender address cant be found. Dropping packet |
| Explanation | There was no return route found to the sender address of the packet. Therefore, a new connection could not be opened and the packet is dropped. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Connection Packet Buffer |

2.11.11. reverse_connect_attempt (ID: 00600015)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Disallowed reverse connect attempt from peer. Dropping |
| Explanation | State inspector does not allow this packet in reverse direction on the already opened connection. This type of packet is only allowed to be sent by the originator of a connection. Dropping the packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Connection Packet Buffer |

2.11.12. unknown_icmpv6_type (ID: 00600016)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | State inspector would not open a new connection for this ICMPv6 packet, dropping packet |
| Explanation | State inspector would not open a new connection for this ICMPv6 packet since it is not an ICMPv6 Echo Request. Only Echo Requests are allowed to open a new ICMPv6 connection. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | protocol |
| Context Parameters | Rule Name Packet Buffer |

2.11.13. port_0_illegal (ID: 00600020)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TCP/UDP destination port or TCP source port was set to 0. Dropping |
| Explanation | The TCP/UDP destination or TCP source port was set to 0, which is not allowed. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.11.14. udp_src_port_0_illegal (ID: 00600021)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | UDP source port is set to 0. Dropping |
| Explanation | The UDP source port was set to 0. This can be used by UDP streams not expecting return traffic. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | If the packet is wanted, change the UDP source port 0 setting. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.11.15. udp_src_port_0_forwarded (ID: 00600022)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | UDP source port is set to 0. Forwards packet |
| Explanation | The UDP source port was set to 0. This can be used by UDP streams not expecting return traffic. Forwarding packet. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.11.16. conn_usage (ID: 00600023)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Connection used to forward a packet. |
| Explanation | A packet has passed through the connection. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.11.17. active_data (ID: 00600100)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | FTPALG: Incoming active data channel |
| Explanation | An active data channel connection has been established. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID Rule Information Connection |

2.11.18. passive_data (ID: 00600101)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | FTPALG: Incoming passive data channel |
| Explanation | A passive data channel connection has been established. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID Rule Information Connection |

2.11.19. active_data (ID: 00600102)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | FTPALG: Active data channel closed |
| Explanation | An active data channel was closed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID Rule Information Connection |

2.11.20. passive_data (ID: 00600103)

| | |
|---------------------------|-------------------------------------|
| Default Severity | INFORMATIONAL |
| Log Message | FTPALG: Passive data channel closed |
| Explanation | A passive data channel was closed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | ALG Module Name ALG Session ID |

Rule Information
Connection

2.12. DHCP

These log messages refer to the **DHCP (DHCP client events)** category.

2.12.1. offered_ip_occupied (ID: 00700001)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Interface <iface> received a lease with an offered IP that appear to be occupied (<ip4addr>) |
| Explanation | Received a DHCP lease which appears to be in use by someone else. |
| Gateway Action | restart |
| Recommended Action | Check network for statically configured hosts or incorrectly proxy ARPed routes. |
| Revision | 1 |
| Parameters | iface ip4addr |

2.12.2. lease_changed (ID: 00700002)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Some vital parameter(s) in the lease on interface <iface> have changed, restarting DHCP-process |
| Explanation | The DHCP server have updated some information considered vital. This will result in the DHCP process being restarted. |
| Gateway Action | restart |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface |
| Context Parameters | Packet Buffer |

2.12.3. lease_acquired (ID: 00700003)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Interface <iface> have successfully acquired a lease |
| Explanation | An interface have successfully acquired a lease. |
| Gateway Action | None |
| Recommended Action | None. |

| | |
|---------------------------|---------------------------------------|
| Revision | 1 |
| Parameters | iface ip netmask bcast gw |
| Context Parameters | Packet Buffer |

2.12.4. renewed_lease (ID: 00700004)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Interface <iface> have renewed its lease. The new lease is valid for <valid_seconds> seconds |
| Explanation | An interface have successfully renewed its lease. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface valid_seconds |
| Context Parameters | Packet Buffer |

2.12.5. lease_expired (ID: 00700005)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Interface <iface> lease expired |
| Explanation | A lease have expired and the ip data for this interface are no longer valid. |
| Gateway Action | restart |
| Recommended Action | Check connection and DHCP server reachability. |
| Revision | 1 |
| Parameters | iface |

2.12.6. invalid_lease_time (ID: 00700007)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Interface <iface> received a lease with a leasetime (<lease_time>) which is lower then the minimum allowed (<minimum_lease_time>) |

| | |
|---------------------------|--|
| Explanation | An interface received a lease with a leasetime which is lower than the configured minimum. |
| Gateway Action | drop |
| Recommended Action | Check the DHCP server configuration or adjust the minimum leasetime limit. |
| Revision | 1 |
| Parameters | iface lease_time minimum_lease_time |
| Context Parameters | Packet Buffer |

2.12.7. invalid_server_id (ID: 00700008)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Interface <iface> received a lease with an invalid server ID (<server_id>) |
| Explanation | An interface received a lease with an invalid server ID parameter. |
| Gateway Action | drop |
| Recommended Action | Check DHCP server configuration. |
| Revision | 1 |
| Parameters | iface server_id |
| Context Parameters | Packet Buffer |

2.12.8. invalid_netmask (ID: 00700009)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Interface <iface> received a lease with an invalid netmask (<netmask>) |
| Explanation | An interface received a lease with an invalid netmask. |
| Gateway Action | drop |
| Recommended Action | Check DHCP server configuration. |
| Revision | 1 |
| Parameters | iface netmask |
| Context Parameters | Packet Buffer |

2.12.9. invalid_broadcast (ID: 00700010)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Interface <iface> received a lease with an invalid broadcast address (<broadcast>) |
| Explanation | An interface received a lease with an invalid broadcast address. |
| Gateway Action | drop |
| Recommended Action | Check DHCP server configuration. |
| Revision | 1 |
| Parameters | iface broadcast |
| Context Parameters | Packet Buffer |

2.12.10. invalid_offered_ip (ID: 00700011)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Interface <iface> received a lease with an invalid offered IP (<offered_ip>) |
| Explanation | An interface received a lease with an invalid offered IP address. |
| Gateway Action | drop |
| Recommended Action | Check DHCP server configuration. |
| Revision | 1 |
| Parameters | iface offered_ip |
| Context Parameters | Packet Buffer |

2.12.11. invalid_gateway (ID: 00700012)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Interface <iface> received a lease with an invalid gateway (<gateway>) |
| Explanation | An interface received a lease with an invalid gateway address. |
| Gateway Action | drop |
| Recommended Action | Check DHCP server configuration. |
| Revision | 1 |

| | |
|---------------------------|------------------|
| Parameters | iface gateway |
| Context Parameters | Packet Buffer |

2.12.12. offered_broadcast_equals_gateway (ID: 00700013)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Interface <iface> received a lease where the offered broadcast equals the offered gateway |
| Explanation | An interface received a lease where the offered broadcast address is equal with the offered gateway address. |
| Gateway Action | drop |
| Recommended Action | Check DHCP server configuration. |
| Revision | 1 |
| Parameters | iface |
| Context Parameters | Packet Buffer |

2.12.13. ip_collision (ID: 00700014)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Interface <iface> received a lease which if used will cause an IP collision (DHCP IP: <dhcp_ip> collides with configured route: <configured_route>) |
| Explanation | An interface received a lease which if used will cause an IP collision with a configured route. |
| Gateway Action | drop |
| Recommended Action | Check DHCP server configuration and the SG interface configuration. |
| Revision | 1 |
| Parameters | iface dhcp_ip configured_route |
| Context Parameters | Packet Buffer |

2.12.14. route_collision (ID: 00700015)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Interface <iface> received a lease which if used will cause a route |

| | |
|---------------------------|---|
| | collision (DHCP route: <dhcp_route> collides with configured route <configured_route>) |
| Explanation | An interface received a lease which if used will cause a route collision with a configured route. |
| Gateway Action | drop |
| Recommended Action | Check DHCP server configuration and SG interface configuration. |
| Revision | 1 |
| Parameters | iface dhcp_route configured_route |
| Context Parameters | Packet Buffer |

2.13. DHCPRELAY

These log messages refer to the **DHCPRELAY (DHCP relay events)** category.

2.13.1. unable_to_save_dhcp_relay_list (ID: 00800001)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unable to auto save the DHCP relay list to disk |
| Explanation | Unable to autosave the DHCP relay list to disk. |
| Gateway Action | None |
| Recommended Action | Check disk usage and health. |
| Revision | 1 |

2.13.2. dhcp_relay_list_saved (ID: 00800002)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | DHCP relay list was successfully auto saved to disk |
| Explanation | The DHCP relay list was successfully written to disk. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.13.3. dhcp_pkt_too_small (ID: 00800003)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Received DHCP packet which is smaller then the minimum allowed 300 bytes. |
| Explanation | Received a DHCP packet which is smaller then the minimum allowed 300 bytes. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.13.4. incorrect_bootp_dhcp_cookie (ID: 00800004)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Incorrect BOOTP/DHCP cookie. Dropping |
| Explanation | Received a packet with an incorrect BOOTP/DHCP cookie. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.13.5. maximum_ppm_for_relayer_reached (ID: 00800005)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | The maximum packets-per-minute limit have been reached. Requests will be denied for a period of time |
| Explanation | The maximum DHCP packets-per-minute limit for the relayer have been reached. |
| Gateway Action | None |
| Recommended Action | Verify packets-per-minute limit. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.13.6. relayer_resuming (ID: 00800006)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | The relayer is now resuming, <packets_dropped> packets were dropped while the relayer was inactive |
| Explanation | The relayer is now resuming its duties since being temporary halted by the packets-per-minute limit. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | packets_dropped |
| Context Parameters | Packet Buffer |

2.13.7. hop_limit_exceeded (ID: 00800007)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Hop limit exceeded. Dropping |
| Explanation | The maximum hop limit for the DHCP packet have been reached. |
| Gateway Action | None |
| Recommended Action | Verify maximum-hop-limit setting. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.13.8. client_release (ID: 00800008)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Client <client_ip> requested release. Relay canceled |
| Explanation | A client requested that lease should be canceled. |
| Gateway Action | relay_canceled |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip |
| Context Parameters | Packet Buffer |

2.13.9. got_reply_without_transaction_state (ID: 00800009)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Got server reply without transaction state for client <client_hw>. Dropping |
| Explanation | Received a server reply without a matching transaction state. |
| Gateway Action | drop |
| Recommended Action | Check the network environment for errors. |
| Revision | 1 |
| Parameters | client_hw |
| Context Parameters | Packet Buffer |

2.13.10. maximum_dhcp_client_relay_routes_reached (ID: 00800010)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | The limit for DHCP relay routes have been reached. Dropping |
| Explanation | The DHCP relay routes limit have been reached. |
| Gateway Action | drop |
| Recommended Action | Verify max-relay-routes-limit. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.13.11. unable_to_add_relay_route_since_out_of_memory (ID: 00800011)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Internal Error: Out of memory: Can't add DHCP relay route. Dropping |
| Explanation | Unable to add DHCP relay route since out of memory. |
| Gateway Action | drop |
| Recommended Action | Check firewall memory consumption. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.13.12. ignored_relay_request (ID: 00800012)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Request ignored according to the ruleset |
| Explanation | A DHCP relay request was ignored according to the rules. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.13.13. no_message_type (ID: 00800013)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|---|
| Log Message | No message type. Dropping |
| Explanation | Received DHCP packet without the required message type parameter. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.13.14. bad_inform_pkt_with_mismatching_source_ip_and_client_ip (ID: 00800014)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | INFORM packet did not pass through a relay but the packet source ip and the client ip doesnt match. Dropping |
| Explanation | Received non relayed INFORM DHCP packet with illegally mismatching source and client IP. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.13.15. received_relayed_inform_packet_without_client_ip (ID: 00800015)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | INFORM packet passed a relay but the client ip isnt set. Dropping |
| Explanation | Received relayed INFORM DHCP packet with illegally missing client IP. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.13.16. maximum_current_dhcp_relays_for_iface (ID:

00800016)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | The maximum number <max_relays> of current DHCP relays for this interface have been reached. Dropping |
| Explanation | The maximum number of DHCP relayed through a specified interface have been reached. |
| Gateway Action | drop |
| Recommended Action | Verify max-relay-per-interface setting. |
| Revision | 1 |
| Parameters | max_relays |
| Context Parameters | Rule Name Packet Buffer |

2.13.17. dhcp_server_is_unroutable (ID: 00800017)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | BOOTP/DHCP-server at <dest_ip> is unroutable. Dropping |
| Explanation | Unable to find route to specified DHCP server. |
| Gateway Action | drop |
| Recommended Action | Update routing table with a route to the DHCP server. |
| Revision | 1 |
| Parameters | dest_ip |
| Context Parameters | Rule Name Packet Buffer |

2.13.18. unable_to_get_free_transaction_state (ID: 00800018)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unable to get free transaction state for client <client_hw>. Dropping |
| Explanation | Unable to get a free transaction state to handle client request. |
| Gateway Action | drop |
| Recommended Action | Verify max-transaction-count setting. |
| Revision | 1 |
| Parameters | client_hw |

| | |
|---------------------------|----------------------------|
| Context Parameters | Rule Name Packet Buffer |
|---------------------------|----------------------------|

2.13.19. invalid_gateway (ID: 00800019)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received request with invalid gateway (<gateway_ip>). Dropping |
| Explanation | Received DHCP request with an invalid gateway. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. |
| Revision | 1 |
| Parameters | gateway_ip |
| Context Parameters | Rule Name Packet Buffer |

2.13.20. relayed_request (ID: 00800020)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Relayed DHCP-request <type> from client <client_hw> to <dest_ip> |
| Explanation | Relayed a DHCP request. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | type client_hw dest_ip |
| Context Parameters | Rule Name Packet Buffer |

2.13.21. relayed_request (ID: 00800021)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Relayed BOOTP-request from client <client_hw> to <dest_ip> |
| Explanation | Relayed a BOOTP request. |
| Gateway Action | None |
| Recommended Action | None. |

| | |
|---------------------------|----------------------------|
| Revision | 1 |
| Parameters | client_hw dest_ip |
| Context Parameters | Rule Name Packet Buffer |

2.13.22. got_reply_on_a_non_security_equivalent_interface (ID: 00800022)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received reply for client <client_hw> on a non security equivalent interface. Dropping |
| Explanation | Received a reply for a client on a non security equivalent interface. |
| Gateway Action | drop |
| Recommended Action | Verify security-equivalent-interface setting. |
| Revision | 1 |
| Parameters | client_hw |
| Context Parameters | Rule Name Packet Buffer |

2.13.23. assigned_ip_not_allowed (ID: 00800023)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | DHCP/BOOTP-Server <server_ip> gave out an IP <ip> which isn't accepted. Dropping |
| Explanation | Received a lease with an IP which is not accepted according to the rules. |
| Gateway Action | drop |
| Recommended Action | Verify allowed-lease-addresses setting. |
| Revision | 1 |
| Parameters | iface server_ip ip |
| Context Parameters | Rule Name Packet Buffer |

2.13.24. illegal_client_ip_assignment (ID: 00800024)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | DHCP/BOOTP-Server <server_ip> tried to assign a client with an illegal IP <ip>. Dropping |
| Explanation | Received a lease with an illegal client assignment IP. |
| Gateway Action | drop |
| Recommended Action | Check DHCP server configuration. |
| Revision | 1 |
| Parameters | server_ip ip |
| Context Parameters | Rule Name Packet Buffer |

2.13.25. ambiguous_host_route (ID: 00800025)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | A host route for <dest_ip> already exists which points to another interface. Dropping |
| Explanation | An ambiguous host route indicating another interface was detected trying to setup a dynamic hostroute for a client. |
| Gateway Action | drop |
| Recommended Action | Review previous configured host route for client. |
| Revision | 1 |
| Parameters | dest_ip |
| Context Parameters | Rule Name Packet Buffer |

2.13.26. relayed_dhcp_reply (ID: 00800026)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Relayed DHCP-reply <type> to client <client_hw> |
| Explanation | Relayed DHCP reply to client. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | type client_hw |

| | |
|---------------------------|----------------------------|
| Context Parameters | Rule Name Packet Buffer |
|---------------------------|----------------------------|

2.13.27. relayed_bootp_reply (ID: 00800027)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Relayed BOOTP-reply to client <client_hw> |
| Explanation | Relayed BOOTP reply to client. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_hw |
| Context Parameters | Rule Name Packet Buffer |

2.13.28. relayed_dhcp_reply (ID: 00800028)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Relayed DHCP-reply <type> to gateway <gateway_ip> |
| Explanation | Relayed DHCP reply to a gateway. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | type gateway_ip |
| Context Parameters | Rule Name Packet Buffer |

2.13.29. relayed_bootp_reply (ID: 00800029)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Relayed BOOTP-reply to gateway <gateway_ip> |
| Explanation | Relayed BOOTP reply to a gateway. |
| Gateway Action | None |
| Recommended Action | None. |

| | |
|---------------------------|----------------------------|
| Revision | 1 |
| Parameters | gateway_ip |
| Context Parameters | Rule Name Packet Buffer |

2.14. DHCPSEVER

These log messages refer to the **DHCPSEVER (DHCP server events)** category.

2.14.1. unable_to_send_response (ID: 00900001)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Failed to get buffer for sending. Unable to reply |
| Explanation | Unable to get a buffer for sending. |
| Gateway Action | None |
| Recommended Action | Check buffer consumption. |
| Revision | 1 |

2.14.2. option_section_is_too_big_unable_to_reply (ID: 00900002)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | The option section is too big, unable to reply. Dropping |
| Explanation | Unable to send reply since the DHCP option section is too big. |
| Gateway Action | drop |
| Recommended Action | Reduce the number of used DHCP options. |
| Revision | 1 |

2.14.3. unable_to_save_lease_db (ID: 00900003)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Unable to auto save the lease database to disk |
| Explanation | Some sort of error occurred saving the lease database to disk. |
| Gateway Action | None |
| Recommended Action | Make sure that there is sufficient disk space available. |
| Revision | 1 |

2.14.4. lease_db_successfully_saved (ID: 00900004)

| | |
|-------------------------|--------|
| Default Severity | NOTICE |
|-------------------------|--------|

| | |
|---------------------------|--|
| Log Message | Lease database was successfully auto saved to disk |
| Explanation | The lease database was successfully saved to disk. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.14.5. dhcp_packet_too_small (ID: 00900005)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received DHCP packet which is smaller then the minimum allowed 300 bytes. Dropping |
| Explanation | Received a DHCP packet which is smaller then the minimum allowed 300 bytes. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.14.6. request_for_ip_from_non_bound_client_without_state (ID: 00900006)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received a request from client(not in bound) <client> for IP <client_ip> without state. Rejecting |
| Explanation | Received a request from a non bound client without state. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client client_ip |
| Context Parameters | Packet Buffer |

2.14.7. request_for_ip_from_bound_client_without_state (ID: 00900007)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|---|
| Log Message | Received a request from client(in bound) <client> for IP <client_ip> without state. Rejecting |
| Explanation | Received a request from a bound client without state. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client client_ip |
| Context Parameters | Packet Buffer |

2.14.8. request_for_ip_from_non_bound_client_without_state (ID: 00900008)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received a request from client(not in bound) <client> for IP <client_ip> without state. Ignoring |
| Explanation | Received a request from an unbound client without state. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client client_ip |
| Context Parameters | Packet Buffer |

2.14.9. all_ip_pools_depleted (ID: 00900010)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | All IP pools are depleted. Unable to handle request. Ignoring |
| Explanation | All IP pools have been depleted. |
| Gateway Action | None |
| Recommended Action | Extend the pools to support more clients. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.14.10. request_with_bad_udp_checksum (ID: 00900011)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received request with bad UDP checksum. Dropping |
| Explanation | Received request with bad UDP checksum. |
| Gateway Action | drop |
| Recommended Action | Check network equipment for errors. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.14.11. lease_timeout (ID: 00900012)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Lease for IP <client_ip> timed out. Was bound to client <client_hw> |
| Explanation | A client lease wasn't renewed and timed out. |
| Gateway Action | lease_inactive |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip client_hw |
| Context Parameters | Rule Name |

2.14.12. lease_timeout (ID: 00900013)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Offer for IP <client_ip> timed out. Was offered to client <client_hw> |
| Explanation | An offer to a client was never accepted and timed out. |
| Gateway Action | lease_inactive |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip client_hw |
| Context Parameters | Rule Name |

2.14.13. pool_depleted (ID: 00900014)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | All IPs in the pool are in use. Request cannot be fulfilled |
| Explanation | A request cannot be fulfilled since all pools are in use. |
| Gateway Action | None |
| Recommended Action | Extend the pools to support more clients. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.14.14. sending_offer (ID: 00900015)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Received DISCOVER from client <client_hw>. Sending IP offer <offer_ip> |
| Explanation | Received discover (initial IP query) from a client. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_hw offer_ip |
| Context Parameters | Rule Name Packet Buffer |

2.14.15. pool_depleted (ID: 00900016)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | All IPs in the pool are now in use |
| Explanation | All IPs the the pool have been consumed. |
| Gateway Action | None |
| Recommended Action | Extend the pool to support more clients. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.14.16. request_for_non_offered_ip (ID: 00900017)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Client <client_hw> requested non offered IP. Rejecting |
| Explanation | Client sent a request for a non offered IP. |
| Gateway Action | nak |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_hw client_wanted client_offered |
| Context Parameters | Rule Name Packet Buffer |

2.14.17. request_for_non_bound_ip (ID: 00900018)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Client <client_hw> requested non bound IP. Rejecting |
| Explanation | Client requested a non bound IP. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_hw client_wanted bound |
| Context Parameters | Rule Name Packet Buffer |

2.14.18. client_bound (ID: 00900019)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Client <client_hw> accepted IP <client_ip>. Client is now bound |
| Explanation | Client accepted the IP address and are now bound. |
| Gateway Action | new_lease |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_hw client_ip |

| | |
|---------------------------|----------------------------|
| Context Parameters | Rule Name Packet Buffer |
|---------------------------|----------------------------|

2.14.19. client_renewed (ID: 00900020)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Client <client_hw> renewed IP <client_ip> |
| Explanation | Client successfully renewed its lease. |
| Gateway Action | renew |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_hw client_ip |
| Context Parameters | Rule Name Packet Buffer |

2.14.20. got_inform_request (ID: 00900021)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Got INFORM request from client <client_hw>. Acknowledging |
| Explanation | Got an inform (client already got an IP and asks for configuration parameters) request from a client. |
| Gateway Action | acknowledging |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_hw client_ip |
| Context Parameters | Rule Name Packet Buffer |

2.14.21. decline_for_ip_on_wrong_iface (ID: 00900022)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | Got decline for ip <client_ip> on wrong interface (recv: <recv_if>, lease: <client_if>). Decline is ignored |
| Explanation | Got decline from a client on the wrong interface. |
| Gateway Action | None |

| | |
|---------------------------|--|
| Recommended Action | Check network for inconsistent routes. |
| Revision | 1 |
| Parameters | client_hw client_ip recv_if client_if |
| Context Parameters | Rule Name Packet Buffer |

2.14.22. decline_for_non_offered_ip (ID: 00900023)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Client <client_hw> declined non offered IP. Decline is ignored |
| Explanation | Client rejected non a offered IP. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_hw |
| Context Parameters | Rule Name Packet Buffer |

2.14.23. declined_by_client (ID: 00900024)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Client <client_hw> declined IP <client_ip>. IP blacklisted |
| Explanation | A client declined (indicated that the IP is already in use someone else) offered IP. |
| Gateway Action | blacklist |
| Recommended Action | Check network for statically configured hosts or incorrectly proxy ARPed routes. |
| Revision | 1 |
| Parameters | client_hw client_ip |
| Context Parameters | Rule Name Packet Buffer |

2.14.24. request_for_ip_from_bound_client_without_state (ID: 00900025)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received a request from client(bound) <client> for IP <client_ip> without state. Ignoring |
| Explanation | Received a request from a bound client without state. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client client_ip |
| Context Parameters | Packet Buffer |

2.14.25. release_for_ip_on_wrong_iface (ID: 00900026)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Got release for ip <client_ip> on wrong interface (recv: <recv_if>, lease: <client_if>). Decline is ignored |
| Explanation | Got release from a client on the wrong interface. |
| Gateway Action | None |
| Recommended Action | Check network for inconsistent routes. |
| Revision | 1 |
| Parameters | client_hw client_ip recv_if client_if |
| Context Parameters | Rule Name Packet Buffer |

2.14.26. released_by_client (ID: 00900027)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Client <client_hw> released IP <client_ip>. |
| Explanation | A client released (prematurely ended) its lease. |
| Gateway Action | lease_released |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_hw |

| | |
|---------------------------|---------------|
| Context Parameters | client_ip |
| | Rule Name |
| | Packet Buffer |

2.15. DHCPV6CLIENT

These log messages refer to the **DHCPV6CLIENT (DHCPv6 Client Events)** category.

2.15.1. offered_ip_occupied (ID: 07300001)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Interface <iface> received a lease with an offered IP that appear to be occupied (<ip6addr>) |
| Explanation | Received a DHCPv6 lease which appears to be in use by someone else. |
| Gateway Action | restart |
| Recommended Action | Check network for statically configured hosts. |
| Revision | 1 |
| Parameters | iface ip6addr |

2.15.2. lease_acquired (ID: 07300003)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Interface <iface> have successfully acquired a lease |
| Explanation | An interface have successfully acquired a lease. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface ip |
| Context Parameters | Packet Buffer |

2.15.3. renewed_lease (ID: 07300004)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Interface <iface> have renewed its lease. The new lease is valid for <valid_seconds> seconds |
| Explanation | An interface have successfully renewed its lease. |
| Gateway Action | None |
| Recommended Action | None. |

| | |
|---------------------------|------------------------|
| Revision | 1 |
| Parameters | iface valid_seconds |
| Context Parameters | Packet Buffer |

2.15.4. lease_expired (ID: 07300005)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Interface <iface> lease expired |
| Explanation | A lease have expired and the ip data for this interface are no longer valid. |
| Gateway Action | restart |
| Recommended Action | Check connection and DHCP6 server reachability. |
| Revision | 1 |
| Parameters | iface |

2.15.5. adv_bad_status (ID: 07300006)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | DHCPv6 server Advertisement unsuccessful status on <iface>. Status: <code>. |
| Explanation | A DHCPv6 Advertisement was received containing a bad status code. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | code iface |

2.15.6. reply_bad_status (ID: 07300007)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | DHCPv6 server Reply unsuccessful status on <iface>. Status: <code>. |
| Explanation | A DHCPv6 Reply was received containing a bad status code. |
| Gateway Action | drop |
| Recommended Action | None. |

| | |
|-------------------|---------------|
| Revision | 1 |
| Parameters | code iface |

2.15.7. bad_server_address (ID: 07300008)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | DHCPv6 server Reply contained a bad server address <address> on <iface>. |
| Explanation | A DHCPv6 Reply was received containing a bad server address. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | address iface |

2.15.8. bad_address_offered (ID: 07300009)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | DHCPv6 server Reply offered a bad address <address> on <iface>. |
| Explanation | A DHCPv6 Reply was received containing a bad ip address. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | address iface |

2.15.9. bad_timers (ID: 07300010)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | DHCPv6 server Reply IA_NA option timer T1 <t1> is erroneously larger than T2 <t2> on <iface>. |
| Explanation | A DHCPv6 Reply IA_NA option with faulty timers was received. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |

| | |
|-------------------|-------------------|
| Parameters | t1 t2 iface |
|-------------------|-------------------|

2.15.10. low_life_time (ID: 07300011)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | DHCPv6 server Reply IA_NA offered address lifetime too low on <iface>. Preferred lifetime <preferred>, valid lifetime <valid>. |
| Explanation | A DHCPv6 Reply IA_NA option was received containing an address life time too low. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | preferred valid iface |

2.15.11. ip_collision (ID: 07300012)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Interface <iface> received an offer which if used will cause an IP collision (DHCPv6 IP: <dhcpv6_ip> collides with configured route: <configured_route>) |
| Explanation | An interface received an offer which if used will cause an IP collision with a configured route. |
| Gateway Action | drop |
| Recommended Action | Check DHCPv6 server configuration and the SG interface configuration. |
| Revision | 1 |
| Parameters | iface dhcpv6_ip configured_route |

2.16. DHCPV6SERVER

These log messages refer to the **DHCPV6SERVER (DHCPv6 Server Events)** category.

2.16.1. client_id_missing (ID: 07400001)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Client ID option missing in received message. |
| Explanation | The received packet is missing vital information. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.16.2. server_id_missing (ID: 07400002)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Server ID option missing in received message. |
| Explanation | The received packet is missing vital information. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.16.3. client_id_unexpected (ID: 07400003)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unexpected Client ID option in received message. |
| Explanation | The received message contains unexpected information. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. Dropping. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.16.4. server_id_unexpected (ID: 07400004)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unexpected Server ID option in received message. |
| Explanation | The received message contains unexpected information. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. Dropping. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.16.5. unable_to_send_response (ID: 07400005)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Failed to get buffer for reply message. |
| Explanation | Unable to get a buffer for sending. |
| Gateway Action | None |
| Recommended Action | Check buffer consumption. |
| Revision | 1 |

2.16.6. sending_reply (ID: 07400006)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Received SOLICIT with Rapid Commit option from client <client_hw> on <iface>. Sending IP offer <offer_ip>. |
| Explanation | Received Solicit message with Rapid Commit option from a client. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_hw iface offer_ip |

2.16.7. sending_reply (ID: 07400007)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | Received REQUEST from client <client_hw> on <iface>. Sending IP offer <offer_ip>. |

| | |
|---------------------------|---|
| Explanation | Received Request message from a client. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_hw iface offer_ip |

2.16.8. client_renewed (ID: 07400008)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Client <client_hw> on <iface> renewed IP <client_ip>. |
| Explanation | Client successfully renewed its address lease. |
| Gateway Action | renew |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_hw iface client_ip |

2.16.9. client_rebound (ID: 07400009)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Client <client_hw> on <iface> renewed IP <client_ip>. |
| Explanation | Client successfully rebound its address lease. |
| Gateway Action | rebind |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_hw iface client_ip |

2.16.10. lease_timeout (ID: 07400010)

| | |
|-------------------------|-------------------------------------|
| Default Severity | NOTICE |
| Log Message | Lease for IP <client_ip> timed out. |

| | |
|---------------------------|--|
| Explanation | A client lease wasn't renewed and timed out. |
| Gateway Action | lease_inactive |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip |
| Context Parameters | Rule Name |

2.16.11. pool_depleted (ID: 07400011)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | All IPs in the pool are now in use. Request for new IP address cannot be fulfilled. |
| Explanation | A request for new IP address cannot be fulfilled since all addresses are in use. |
| Gateway Action | none |
| Recommended Action | Extend the pool to support more IP addresses. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.16.12. bad_udp_checksum (ID: 07400012)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received DHCPv6 packet with bad UDP checksum. Dropping. |
| Explanation | Received DHCPv6 packet with bad UDP checksum. |
| Gateway Action | drop |
| Recommended Action | Check network equipment for errors. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.16.13. dhcpv6_packet_too_small (ID: 07400013)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Received DHCPv6 packet which is smaller than the minimum allowed bytes. Dropping. |
| Explanation | Received a DHCPv6 packet which is smaller than the minimum |

| | |
|---------------------------|---|
| | allowed bytes. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.16.14. dhcpv6_faulty_length (ID: 07400014)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received DHCPv6 packet with faulty length. Dropping. |
| Explanation | Received a DHCPv6 packet with mismatching lengths calculated from IP- and UDP-layers. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.16.15. invalid_options_length (ID: 07400015)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received DHCPv6 packet with faulty options size. Dropping. |
| Explanation | Received a DHCPv6 packet with unexpected option sizes. |
| Gateway Action | drop |
| Recommended Action | Investigate what client implementation is being used. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.16.16. lease_db_successfully_saved (ID: 07400016)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Lease database was successfully auto saved to disk |
| Explanation | The lease database was successfully saved to disk. |
| Gateway Action | None |
| Recommended Action | None. |

| | |
|-----------------|---|
| Revision | 1 |
|-----------------|---|

2.16.17. unable_to_save_lease_db (ID: 07400017)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Unable to auto save the lease database to disk |
| Explanation | Some sort of error occurred saving the lease database to disk. |
| Gateway Action | None |
| Recommended Action | Make sure that there is sufficient disk space available. |
| Revision | 1 |

2.16.18. unexpected_advertise_message (ID: 07400018)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Unexpected message type (Advertise) in received packet. |
| Explanation | Received DHCPv6 packet with unexpected message type (Advertise). |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.16.19. unexpected_reply_message (ID: 07400019)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Unexpected message type (Reply) in received packet. |
| Explanation | Received DHCPv6 packet with unexpected message type (Reply). |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.16.20. unexpected_reconfigure_message (ID: 07400020)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Unexpected message type (Reconfigure) in received packet. |
| Explanation | Received DHCPv6 packet with unexpected message type (Reconfigure). |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.16.21. unexpected_relay_reply_message (ID: 07400021)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Unexpected message type (Relay-reply) in received packet. |
| Explanation | Received DHCPv6 packet with unexpected message type (Relay-reply). |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.16.22. unexpected_unknown_message (ID: 07400022)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Unexpected message type <message_type> in received packet. |
| Explanation | Received DHCPv6 packet with unexpected message type (message_type). |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | message_type |
| Context Parameters | Packet Buffer |

2.17. DYNROUTING

These log messages refer to the **DYNROUTING (Dynamic routing)** category.

2.17.1. failed_to_export_route_to_ospf_process_failed_to_alloc (ID: 01100001)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Failed to export route to OSPF process (unable to alloc export node) |
| Explanation | Unable to export route to a OSPF process since out of memory. |
| Gateway Action | alert |
| Recommended Action | Check memory consumption. |
| Revision | 1 |
| Context Parameters | Dynamic Route Rule Name Route |

2.17.2. route_exported_to_ospf_as (ID: 01100002)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Route exported to OSPF AS |
| Explanation | A route was just exported to a OSPF AS. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Dynamic Route Rule Name Route |

2.17.3. route_unexported_from_ospf_as (ID: 01100003)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Route unexported from OSPF AS |
| Explanation | A route was just unexported from a OSPF AS. |
| Gateway Action | None |
| Recommended Action | None. |

| | |
|---------------------------|-------------------------------------|
| Revision | 1 |
| Context Parameters | Dynamic Route Rule Name Route |

2.17.4. failed_to_add_route_unable_to_alloc (ID: 01100004)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed to add route (unable to alloc route) |
| Explanation | Failed to create a route since out of memory. |
| Gateway Action | alert |
| Recommended Action | Check memory consumption. |
| Revision | 1 |
| Context Parameters | Dynamic Route Rule Name Route |

2.17.5. route_added (ID: 01100005)

| | |
|---------------------------|-------------------------------------|
| Default Severity | NOTICE |
| Log Message | Route added |
| Explanation | A route was just added. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Dynamic Route Rule Name Route |

2.17.6. route_removed (ID: 01100006)

| | |
|---------------------------|---------------------------|
| Default Severity | NOTICE |
| Log Message | Route removed |
| Explanation | A route was just removed. |
| Gateway Action | None |
| Recommended Action | None. |

| | |
|---------------------------|-------------------------------------|
| Revision | 1 |
| Context Parameters | Dynamic Route Rule Name Route |

2.18. FRAG

These log messages refer to the **FRAG (Fragmentation events)** category.

2.18.1. individual_frag_timeout (ID: 02000001)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Individual fragment timed out. |
| Explanation | A fragment of an IP packet timed out, and is dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.2. fragact_contains_frags (ID: 02000002)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Internal Error: A failed active fragment contained fragments. Dropping |
| Explanation | An Internal Error occurred when freeing an active fragment. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Dropped Fragments Rule Name |

2.18.3. fail_suspect_out_of_resources (ID: 02000003)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Out of reassembly resources for suspect. Frags: <frags>. <srcip>-<destip> <ipproto> FragID: <fragid>, State: <fragact> |
| Explanation | Out of fragmentation-reassembly resources when processing the IP packet, which may contain illegal fragments. Dropping packet and freeing resources. |
| Gateway Action | drop |
| Recommended Action | None. |

| | |
|---------------------------|--|
| Revision | 1 |
| Parameters | srcip destip ipproto fragid fragact frags |
| Context Parameters | Dropped Fragments Rule Name |

2.18.4. fail_out_of_resources (ID: 02000004)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Out of reassembly resources. Frags: <frags>. <srcip>-<destip> <ipproto> FragID: <fragid>, State: <fragact> |
| Explanation | Out of fragmentation-reassembly resources when processing the IP packet. Dropping packet and freeing resources. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | srcip destip ipproto fragid fragact frags |
| Context Parameters | Dropped Fragments Rule Name |

2.18.5. fail_suspect_timeout (ID: 02000005)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Time out reassembling suspect. Frags: <frags>. <srcip>-<destip> <ipproto> FragID: <fragid>, State: <fragact> |
| Explanation | Timed out when reassembling a fragmented IP packet, which may contain illegal fragments. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | srcip destip |

| | |
|---------------------------|---------------------------------------|
| | ipproto fragid fragact frags |
| Context Parameters | Dropped Fragments Rule Name |

2.18.6. fail_timeout (ID: 02000006)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Time out reassembling. Frags: <frags>. <srcip>-<destip> <ipproto> FragID: <fragid>, State: <fragact> |
| Explanation | Timed out when reassembling a fragmented IP packet. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | srcip destip ipproto fragid fragact frags |
| Context Parameters | Dropped Fragments Rule Name |

2.18.7. disallowed_suspect (ID: 02000007)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Dropping stored fragments of disallowed suspect packet. Frags: <frags>. <srcip>-<destip> <ipproto> FragID: <fragid>, State: <fragact> |
| Explanation | The fragments of a disallowed IP packet, which may contain illegal fragments, were dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | srcip destip ipproto fragid fragact |

| | |
|---------------------------|--------------------------------|
| | frags |
| Context Parameters | Dropped Fragments Rule Name |

2.18.8. drop_fragments_of_disallowed_packet (ID: 02000008)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Dropping stored fragments of disallowed packet. Frags: <frags>. <srcip>-<destip> <ipproto> FragID: <fragid>, State: <fragact> |
| Explanation | The fragments of a disallowed IP packet were dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | srcip destip ipproto fragid fragact frags |
| Context Parameters | Dropped Fragments Rule Name |

2.18.9. drop_fragments_of_illegal_packet (ID: 02000009)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Dropping fragments of illegal packet. Frags: <frags>. <srcip>-<destip> <ipproto> FragID: <fragid>, State: <fragact> |
| Explanation | The fragments of an illegal IP packet were dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | srcip destip ipproto fragid fragact frags |
| Context Parameters | Dropped Fragments Rule Name |

2.18.10. drop_extraneous_frags_of_completed_packet (ID: 02000010)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Dropping extraneous fragments of completed packet. Frags: <frags>. <srcip>-<destip> <ipproto> FragID: <fragid>, State: <fragact> |
| Explanation | A completed reassembled IP packet contains extraneous fragments, which are dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | srcip destip ipproto fragid fragact frags |
| Context Parameters | Dropped Fragments Rule Name |

2.18.11. learn_state (ID: 02000011)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Internal Error: Invalid state <state> |
| Explanation | Internal Error, the fragmented IP packet has an invalid state. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | state |
| Context Parameters | Dropped Fragments Rule Name |

2.18.12. drop_duplicate_frag_suspect_packet (ID: 02000012)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Dropping duplicate fragment of suspect packet |
| Explanation | A duplicate fragment of an IP packet, which may contain illegal |

| | |
|---------------------------|---|
| | fragments, was received. Dropping the duplicate fragment. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.13. drop_duplicate_frag (ID: 02000013)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Dropping duplicate fragment |
| Explanation | A duplicate fragment of an IP packet was received. Dropping the duplicate fragment. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.14. frag_offset_plus_length_not_in_range (ID: 02000014)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Fragment offset+length not in range <minipdatalen>-<maxipdatalen> |
| Explanation | The fragment offset and length would be outside of the allowed IP size range. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | minipdatalen maxipdatalen |
| Context Parameters | Rule Name Packet Buffer |

2.18.15. no_available_fragacts (ID: 02000015)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | Internal Error: No available resources (out of memory?). |
| Explanation | An Internal Error occurred. Failed to create necessary fragmentation reassembly resources. This could be a result of the unit being out of memory. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.16. bad_ipdatalen (ID: 02000016)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Bad IPDataLen=<ipdatalen> |
| Explanation | The partly reassembled IP packet has an invalid IP data length. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipdatalen |
| Context Parameters | Rule Name Packet Buffer |

2.18.17. bad_ipdatalen (ID: 02000017)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Fragment offset+length is greater than the configured maximum <maxipdatalen> |
| Explanation | The fragment offset plus length would result in a greater length than the configured maximum length of an IP packet. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | maxipdatalen |
| Context Parameters | Rule Name Packet Buffer |

2.18.18. overlapping_frag (ID: 02000018)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Overlapping fragment |
| Explanation | This fragment would overlap the next fragment offset. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.19. bad_offs (ID: 02000019)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Bad fragment offset |
| Explanation | The fragment has an invalid offset. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.20. duplicate_frag_with_different_length (ID: 02000020)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Duplicate fragment with different length received |
| Explanation | The fragment is a duplicate of an already received fragment, but the fragment lengths differ. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.21. duplicate_frag_with_different_data (ID: 02000021)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Duplicate fragment with different data received |
| Explanation | The fragment is a duplicate of an already received fragment, but the fragment data differs. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.22. partial_overlap (ID: 02000022)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Fragments partially overlap |
| Explanation | Two fragments partially overlap. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.23. drop_frag_disallowed_suspect_packet (ID: 02000023)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Dropping fragment of disallowed suspect packet |
| Explanation | A fragment of a disallowed IP packet, which may contain illegal fragments, is dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.24. drop_frag_disallowed_packet (ID: 02000024)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Dropping fragment of disallowed packet |
| Explanation | A fragment of a disallowed IP packet is dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.25. already_completed (ID: 02000025)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Dropping extraneous fragment of completed packet |
| Explanation | A completed reassembled IP packet contains a extraneous fragment, which is dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.26. drop_frag_failed_suspect_packet (ID: 02000026)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Dropping fragment of failed suspect packet |
| Explanation | A fragment of a failed IP packet, which may contain illegal fragments, is dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.27. drop_frag_failed_packet (ID: 02000027)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Dropping fragment of failed packet |
| Explanation | A fragment of a failed IP packet is dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.28. drop_frag_illegal_packet (ID: 02000028)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Dropping fragment of illegal packet |
| Explanation | A fragment of an illegal IP packet is dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.29. fragments_available_freeing (ID: 02000100)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Internal Error: Contains fragments even when freeing. Dropping |
| Explanation | An Internal Error occurred when freeing an active fragment. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Dropped Fragments Rule Name |

2.18.30. bad_ipdatalen (ID: 02000116)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Bad IPDataLen=<ipdatalen> |
| Explanation | The partly reassembled IP packet has an invalid IP data length. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipdatalen |
| Context Parameters | Rule Name Packet Buffer |

2.18.31. single_frag (ID: 02000117)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Illegal fragment, last fragment with zero offset. Dropping packet. |
| Explanation | A fragment with More Fragments flag cleared and an Offset of zero is not a legal fragment. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.18.32. bad_offs (ID: 02000119)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Bad fragment offset |
| Explanation | The fragment has an invalid offset. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.19. GRE

These log messages refer to the **GRE (GRE events)** category.

2.19.1. failed_to_setup_gre_tunnel (ID: 02200001)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Failed to setup open tunnel from <local_ip> to <remote_ip> |
| Explanation | Unable to setup GRE tunnel with endpoint. |
| Gateway Action | drop |
| Recommended Action | Check CONN usage and local routing. |
| Revision | 1 |
| Parameters | local_ip remote_ip |

2.19.2. gre_bad_flags (ID: 02200002)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | GRE packet with bad flag(s). Packet dropped |
| Explanation | Received GRE packet with a bad flag combination. |
| Gateway Action | drop |
| Recommended Action | Check GRE endpoint configuration. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.19.3. gre_bad_version (ID: 02200003)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | GRE packet with bad version (not 0). Packet dropped |
| Explanation | Received GRE packet with bad version. |
| Gateway Action | drop |
| Recommended Action | Check GRE endpoint configuration. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.19.4. gre_checksum_error (ID: 02200004)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | GRE packet with checksum error. Packet dropped |
| Explanation | Received GRE packet with checksum errors. |
| Gateway Action | drop |
| Recommended Action | Check network equipment for errors. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.19.5. gre_length_error (ID: 02200005)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | GRE packet length error. Packet dropped |
| Explanation | Received GRE packet with length error. |
| Gateway Action | drop |
| Recommended Action | Check GRE endpoint configuration. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.19.6. gre_send_routing_loop_detected (ID: 02200006)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Routing loop detected. GRE packet send failed |
| Explanation | Routing loop to the GRE endpoint detected. |
| Gateway Action | drop |
| Recommended Action | Check local routing. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.19.7. unmatched_session_key (ID: 02200007)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | Received GRE packet with unmatched session key. Packet dropped |
| Explanation | Received GRE packet with unmatched session key. |
| Gateway Action | drop |
| Recommended Action | Check GRE session key settings on the remote gateway. |
| Revision | 1 |
| Parameters | session_key |
| Context Parameters | Packet Buffer |

2.19.8. gre_routing_flag_set (ID: 02200008)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received GRE packet with routing flag set. Packet dropped |
| Explanation | Received GRE packet with unsupported routing option enabled. |
| Gateway Action | drop |
| Recommended Action | Check GRE configuration on remote gateway. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.20. HA

These log messages refer to the **HA (High Availability events)** category.

2.20.1. peer_gone (ID: 01200001)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Peer firewall disappeared. Going active |
| Explanation | The peer gateway (which was active) is not available anymore. This gateway will now go active instead. |
| Gateway Action | activate |
| Recommended Action | None. |
| Revision | 1 |

2.20.2. peer_gone (ID: 01200002)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Peer firewall disappeared. |
| Explanation | The peer gateway (which was inactive) is not available anymore. This gateway will continue to stay active. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.20.3. conflict_both_peers_active (ID: 01200003)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Conflict: Both peers are active! Resolving... |
| Explanation | A conflict occurred as both peers are active at the same time. The conflict will automatically be resolved. |
| Gateway Action | resolving |
| Recommended Action | None. |
| Revision | 1 |

2.20.4. peer_has_higher_local_load (ID: 01200004)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Both active, peer has higher local load; staying active |
| Explanation | Both members are active, but the peer has higher local load. This gateway will stay active. |
| Gateway Action | stay_active |
| Recommended Action | None. |
| Revision | 1 |

2.20.5. peer_has_lower_local_load (ID: 01200005)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Both active, peer has lower local load; deactivating |
| Explanation | Both members are active, but the peer has lower local load. This gateway will de-activate. |
| Gateway Action | deactivate |
| Recommended Action | None. |
| Revision | 1 |

2.20.6. peer_has_more_connections (ID: 01200006)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Both active, peer has more connections; deactivating |
| Explanation | Both members are active, but the peer has more connections. This gateway will de-activate. |
| Gateway Action | deactivate |
| Recommended Action | None. |
| Revision | 1 |

2.20.7. peer_has_fewer_connections (ID: 01200007)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | Both active, peer has fewer connections; staying active |
| Explanation | Both members are active, but the peer has fewer connections. This gateway will stay active. |
| Gateway Action | stay_active |

| | |
|---------------------------|-------|
| Recommended Action | None. |
| Revision | 1 |

2.20.8. `conflict_both_peers_inactive` (ID: 01200008)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Conflict: Both peers are inactive! Resolving... |
| Explanation | A conflict occurred as both peers are inactive at the same time. The conflict will automatically be resolved. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.20.9. `peer_has_more_connections` (ID: 01200009)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Both inactive, peer has more connections; staying inactive... |
| Explanation | Both members are inactive, but the peer has more connections. This gateway will stay inactive. |
| Gateway Action | stay_deactivated |
| Recommended Action | None. |
| Revision | 1 |

2.20.10. `peer_has_fewer_connections` (ID: 01200010)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Both inactive, peer has fewer connections; going active... |
| Explanation | Both members are inactive, but the peer has fewer connections. This gateway will go active. |
| Gateway Action | activate |
| Recommended Action | None. |
| Revision | 1 |

2.20.11. `peer_alive` (ID: 01200011)

| | |
|---------------------------|----------------------------|
| Default Severity | NOTICE |
| Log Message | Peer firewall is alive |
| Explanation | The peer gateway is alive. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.20.12. heartbeat_from_unknown (ID: 01200043)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received HA heartbeat from unknown IP. Dropping |
| Explanation | The received HA heartbeat packet was originating from an unknown IP. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.20.13. should_have_arrived_on_sync_iface (ID: 01200044)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | This packet should have arrived on the sync iface. Dropping |
| Explanation | The HA packet did not arrive on the sync interface. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.20.14. activate_failed (ID: 01200050)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Failed to activate the configuration merged from HA partner |

| | |
|---------------------------|--|
| Explanation | The gateway failed to activate the merged configuration that was received from the peer. |
| Gateway Action | ha_activate_conf |
| Recommended Action | None. |
| Revision | 1 |

2.20.15. merge_failed (ID: 01200051)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Failed to merge configuration from HA partner |
| Explanation | The gateway failed to merge the configuration that was received from the peer. |
| Gateway Action | ha_merge_conf |
| Recommended Action | None. |
| Revision | 1 |

2.20.16. ha_commit_error (ID: 01200052)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | The merged HA configuration contains errors |
| Explanation | The merged HA configuration contains errors, and can not be committed. |
| Gateway Action | ha_committchanges |
| Recommended Action | Resolve the errors and commit the changes again. |
| Revision | 1 |

2.20.17. ha_write_failed (ID: 01200053)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Could not write HA configuration to disk |
| Explanation | The HA configuration could not be written to the storate media. |
| Gateway Action | ha_committchanges |
| Recommended Action | Verify that the storage media is not write protected or damaged. |
| Revision | 1 |

2.20.18. ha_commit_unknown_error (ID: 01200054)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | An unknown error occurred while saving the HA configuration |
| Explanation | An unknown error occurred when the HA configuration was to be saved. It has not been committed. |
| Gateway Action | ha_commitchanges |
| Recommended Action | None. |
| Revision | 1 |

2.20.19. linkmon_triggered_failover (ID: 01200055)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | HA node going inactive. <reason> |
| Explanation | Linkmon requested the node to go inactive. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.20.20. resync_conns_to_peer (ID: 01200100)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Initiating complete resynchronization of <numconns> connections to peer firewall |
| Explanation | All current connections will be re-synchronized to peer, as the peer has been restarted. Initializing re-synchronization process. |
| Gateway Action | resync_conns_init |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason numconns |

2.20.21. hasync_connection_established (ID: 01200200)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | HASync connection to peer firewall established |
| Explanation | HA synchronization connection to peer has been established. Supported events will now be synchronized between the members of the HA cluster. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |

2.20.22. hasync_connection_disconnected_lifetime_expired (ID: 01200201)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | HASync connection lifetime expired. Reconnecting... |
| Explanation | The HA synchronization connection lifetime has expired. A new connection will be established by reconnecting to the peer. |
| Gateway Action | reconnect |
| Recommended Action | None. |
| Revision | 2 |

2.20.23. hasync_connection_failed_timeout (ID: 01200202)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | HASync connection to peer firewall failed. Reconnecting... |
| Explanation | The HA synchronization connection attempt failed. Reconnecting to peer. |
| Gateway Action | reconnect |
| Recommended Action | None. |
| Revision | 2 |

2.20.24. resync_conns_to_peer_complete (ID: 01200300)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | Connection resynchronization to peer complete |
| Explanation | The connection resynchronization process to peer is complete. All connections has been synchronized. |

| | |
|---------------------------|-------|
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.20.25. disallowed_on_sync_iface (ID: 01200400)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received non-HA traffic on sync iface. Dropping |
| Explanation | A packet which is not a HA-related packet was received on the sync interface. This should not happen, and the packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.20.26. sync_packet_on_nonsync_iface (ID: 01200410)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received state sync packet on non-sync iface. Dropping |
| Explanation | A HA state sync packet was received on a non-sync interface. This should never happen, and the packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.20.27. ttl_too_low (ID: 01200411)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received HA heartbeat with too low TTL. Dropping |
| Explanation | The received HA heartbeat packet had a TTL (Time-To-Live) field which is too low. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |

| | |
|---------------------------|----------------------------|
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.20.28. heartbeat_from_myself (ID: 01200412)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received HA heartbeat from the gateway itself. Dropping |
| Explanation | The received HA heartbeat packet was originating from the gateway itself. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.20.29. config_sync_failure (ID: 01200500)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Tried to synchronize configuration to peer 3 times without success. Giving up. |
| Explanation | The gateway tried to synchronize the configuration to peer three times, but failed. It will now give up trying to do so. |
| Gateway Action | give_up_synching |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | numretries |

2.20.30. action=deactivate reason=requested (ID: 01200616)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Both active, deactivation in progress. |
| Explanation | Both active, deactivation in progress. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.20.31. action=activate reason=requested (ID: 01200617)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Both not active, activation in progress. |
| Explanation | Both not active, activation in progress. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.20.32. action=going_online (ID: 01200618)

| | |
|---------------------------|-----------------------|
| Default Severity | NOTICE |
| Log Message | Ha unit going online. |
| Explanation | Ha unit going online. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | previous_shutdown= |

2.21. HWM

These log messages refer to the **HWM (Hardware monitor events)** category.

2.21.1. temperature_alarm (ID: 04000011)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Temperature monitor <index> (<name>) is outside the specified limit. Current value is <current_temp> <unit>, lower limit is <min_limit>, upper limit is <max_limit> |
| Explanation | The unit may be overheating, this may be because the cooling is failing or to hot enviroment. |
| Gateway Action | none |
| Recommended Action | Shutdown the unit and determine the problem. |
| Revision | 1 |
| Parameters | index name unit current_temp min_limit max_limit |

2.21.2. temperature_normal (ID: 04000012)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Temperature monitor <index> (<name>) is outside the specified limit. Current value is <current_temp> <unit>, lower limit is <min_limit>, upper limit is <max_limit> |
| Explanation | The sensor reports that the temperature value is back in the normal range. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | index name unit current_temp min_limit max_limit |

2.21.3. voltage_alarm (ID: 04000021)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Voltage monitor <index> (<name>) is outside the specified limit. Current value is <current_voltage> <unit>, lower limit is <min_limit>, upper limit is <max_limit> |
| Explanation | The powersupply of this unit may be failing. |
| Gateway Action | none |
| Recommended Action | Change powersupply unit. |
| Revision | 1 |
| Parameters | index name unit current_voltage min_limit max_limit |

2.21.4. voltage_normal (ID: 04000022)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Voltage monitor <index> (<name>) is outside the specified limit. Current value is <current_voltage> <unit>, lower limit is <min_limit>, upper limit is <max_limit> |
| Explanation | The sensor reports that the voltage value is back in the normal range. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | index name unit current_voltage min_limit max_limit |

2.21.5. fanrpm_alarm (ID: 04000031)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Fan RPM monitor <index> (<name>) is outside the specified limit. Current value is <current_fanrpm> <unit>, value is <current_fanrpm> <unit>, lower limit is <min_limit>, upper limit is <max_limit> |
| Explanation | The fan is behaving strange, this may because it is failing or blocked. |

| | |
|---------------------------|---|
| Gateway Action | none |
| Recommended Action | Unblock or change the corresponding fan. |
| Revision | 1 |
| Parameters | index name unit current_fanrpm min_limit max_limit |

2.21.6. fanrpm_normal (ID: 04000032)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Fan RPM monitor <index> (<name>) is outside the specified limit. Current value is <current_fanrpm> <unit>, lower limit is <min_limit>, upper limit is <max_limit> |
| Explanation | The sensor reports that the fan rpm value is back in the normal range. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | index name unit current_fanrpm min_limit max_limit |

2.21.7. gpio_alarm (ID: 04000041)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | GPIO monitor <index> (<name>) is outside the specified limit. Current value is <current_gpio> <unit>, value is <current_gpio> <unit>, lower limit is <min_limit>, upper limit is <max_limit> |
| Explanation | This varies depending on hardware model and what the GPIO is connected to. |
| Gateway Action | none |
| Recommended Action | Depends on what the GPIO is connected to. |
| Revision | 1 |
| Parameters | index name |

unit
current_gpio
min_limit
max_limit

2.21.8. gpio_normal (ID: 04000042)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Temperature monitor <index> (<name>) is outside the specified limit. Current value is <current_gpio> <unit>, lower limit is <min_limit>, upper limit is <max_limit> |
| Explanation | The sensor reports that the GPIO value is back into the normal range. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | index name unit current_gpio min_limit max_limit |

2.21.9. free_memory_warning_level (ID: 04000101)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Free memory has fallen below the specified limit of <limit_percentage> percent, limit classified is <severity>, free <free_mem> MB of total <total_mem> MB, percentage free <free_percentage> |
| Explanation | The amount of free memory is getting low. |
| Gateway Action | None |
| Recommended Action | Review the configuration and disable or lower settings to reduce memory consumption. |
| Revision | 1 |
| Parameters | limit_percentage total_mem free_mem free_percentage severity |

2.21.10. free_memory_warning_level (ID: 04000102)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Free memory has fallen below the specified limit of <limit_megabyte> megabyte, limit classified is <severity>, free <free_mem> MB of total <total_mem> MB, percentage free <free_percentage> |
| Explanation | The amount of free memory is getting low. |
| Gateway Action | None |
| Recommended Action | Review the configuration and disable or lower settings to reduce memory consumption. |
| Revision | 1 |
| Parameters | limit_megabyte total_mem free_mem free_percentage severity |

2.21.11. free_memory_normal_level (ID: 04000103)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | The amount of free memory is in the normal range, free <free_mem> MB of total <total_mem> MB, percentage free <free_percentage> |
| Explanation | The memory usage is in the normal range. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | total_mem free_mem free_percentage |

2.22. IDP

These log messages refer to the **IDP (Intrusion Detection & Prevention events)** category.

2.22.1. scan_detected (ID: 01300001)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Scan detected: <description>, Signature ID=<signatureid>. ID Rule: <idrule>. Protocol: <ipproto>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Internal ID: <internalid>. Closing connection. |
| Explanation | A scan signature mapped to the "protect" action matched the traffic, closing connection. |
| Gateway Action | close |
| Recommended Action | Research the advisory (searchable by the unique ID), if you suspect an attack. |
| Revision | 2 |
| Parameters | description signatureid idrule ipproto srcip srcport destip destport internalid |
| Context Parameters | Rule Name Deep Inspection |

2.22.2. idp_notice (ID: 01300002)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | IDP Notice: <description>, Signature ID=<signatureid>. ID Rule: <idrule>. Protocol: <ipproto>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Internal ID: <internalid>. Closing connection. |
| Explanation | A notice signature mapped to the "protect" action matched the traffic, closing connection. |
| Gateway Action | close |
| Recommended Action | This is probably not an attack, but you may research the advisory (searchable by the unique ID). |
| Revision | 2 |
| Parameters | description |

| | |
|---------------------------|---|
| | signatureid idrule iproto srcip srcport destip destport internalid |
| Context Parameters | Rule Name Deep Inspection |

2.22.3. intrusion_detected (ID: 01300003)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Intrusion detected: <description>, Signature ID=<signatureid>. ID Rule: <idrule>. Protocol: <iproto>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Internal ID: <internalid>. Closing connection. |
| Explanation | An attack signature mapped to the "protect" action matched the traffic. |
| Gateway Action | close |
| Recommended Action | Research the advisory (searchable by the unique ID). |
| Revision | 2 |
| Parameters | description signatureid idrule iproto srcip srcport destip destport internalid |
| Context Parameters | Rule Name Deep Inspection |

2.22.4. virus_detected (ID: 01300004)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Virus/worm detected: <description>, Signature ID=<signatureid>. ID Rule: <idrule>. Protocol: <iproto>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Internal ID: <internalid>. Closing connection. |
| Explanation | A virus signature mapped to the "protect" action matched the traffic. |
| Gateway Action | close |

| | |
|---------------------------|---|
| Recommended Action | Research the advisory (searchable by the unique ID). |
| Revision | 2 |
| Parameters | description signatureid idrule ipproto srcip srcport destip destport internalid |
| Context Parameters | Rule Name Deep Inspection |

2.22.5. scan_detected (ID: 01300005)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Scan detected: <description>, Signature ID=<signatureid>. ID Rule: <idrule>. Protocol: <ipproto>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Internal ID: <internalid>. |
| Explanation | A scan signature matched the traffic. |
| Gateway Action | None |
| Recommended Action | Research the advisory (searchable by the unique ID). |
| Revision | 2 |
| Parameters | description signatureid idrule ipproto srcip srcport destip destport internalid |
| Context Parameters | Rule Name Deep Inspection |

2.22.6. idp_notice (ID: 01300006)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | IDP Notice: <description>, Signature ID=<signatureid>. ID Rule: <idrule>. Protocol: <ipproto>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Internal ID: <internalid>. |

| | |
|---------------------------|---|
| Explanation | A notice signature matched the traffic. |
| Gateway Action | None |
| Recommended Action | This is probably not an attack, but you may research the advisory (searchable by the unique ID). |
| Revision | 2 |
| Parameters | description signatureid idrule ipproto srcip srcport destip destport internalid |
| Context Parameters | Rule Name Deep Inspection |

2.22.7. intrusion_detected (ID: 01300007)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Intrusion detected: <description>, Signature ID=<signatureid>. ID Rule: <idrule>. Protocol: <ipproto>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Internal ID: <internalid> |
| Explanation | An attack signature matched the traffic. |
| Gateway Action | None |
| Recommended Action | Research the advisory (searchable by the unique ID). |
| Revision | 2 |
| Parameters | description signatureid idrule ipproto srcip srcport destip destport internalid |
| Context Parameters | Rule Name Deep Inspection |

2.22.8. virus_detected (ID: 01300008)

| | |
|-------------------------|--------|
| Default Severity | NOTICE |
|-------------------------|--------|

| | |
|---------------------------|--|
| Log Message | Virus/Worm detected: <description>, Signature ID=<signatureid>. ID Rule: <idrule>. Protocol: <ipproto>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Internal ID: <internalid>. |
| Explanation | A virus signature matched the traffic. |
| Gateway Action | None |
| Recommended Action | Research the advisory (searchable by the unique ID). |
| Revision | 2 |
| Parameters | description signatureid idrule ipproto srcip srcport destip destport internalid |
| Context Parameters | Rule Name Deep Inspection |

2.22.9. invalid_url_format (ID: 01300009)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed to parse the HTTP URL. ID Rule: <idrule>. URL: <url>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Closing connection. |
| Explanation | The unit failed parsing an URL. The reason for this is probably because the URL has an invalid format, or it contains invalid UTF8 formatted characters. |
| Gateway Action | close |
| Recommended Action | Make sure that the URL is formatted correctly. |
| Revision | 1 |
| Parameters | idrule url srcip srcport destip destport |
| Context Parameters | Rule Name |

2.22.10. invalid_url_format (ID: 01300010)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | Failed to parse the HTTP URL. ID Rule: <idrule>. URL: <url>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Ignoring the URL. |
| Explanation | The unit failed parsing an URL. The reason for this is probably because the URL has an invalid format, or it contains invalid UTF8 formatted characters. |
| Gateway Action | ignore |
| Recommended Action | Make sure that the URL is formatted correctly. |
| Revision | 1 |
| Parameters | idrule url srcip srcport destip destport |
| Context Parameters | Rule Name |

2.22.11. idp_evasion (ID: 01300011)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed to reassemble data. ID Rule: <idrule>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Closing connection. |
| Explanation | The unit failed to reassemble data. The reason for this is probably due to an IDP engine evasion attack. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | idrule srcip srcport destip destport |
| Context Parameters | Rule Name |

2.22.12. idp_evasion (ID: 01300012)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed to reassemble data. ID Rule: <idrule>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. |

| | |
|---------------------------|--|
| Explanation | The unit failed to reassemble data. The reason for this is probably due to an IDP engine evasion attack. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | idrule srcip srcport destip destport |
| Context Parameters | Rule Name |

2.22.13. idp_outofmem (ID: 01300013)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed to scan data. ID Rule: <idrule>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Closing connection. |
| Explanation | The unit failed to scan data. The reason for this is due to low amount of memory. |
| Gateway Action | close |
| Recommended Action | Review your configuration. |
| Revision | 1 |
| Parameters | idrule srcip srcport destip destport |
| Context Parameters | Rule Name |

2.22.14. idp_outofmem (ID: 01300014)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed to scan data. ID Rule: <idrule>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. |
| Explanation | The unit failed to scan data. The reason for this is due to low amount of memory. |
| Gateway Action | ignore |
| Recommended Action | Review your configuration. |

| | |
|---------------------------|--|
| Revision | 1 |
| Parameters | idrule srcip srcport destip destport |
| Context Parameters | Rule Name |

2.22.15. idp_failscan (ID: 01300015)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed to scan data. ID Rule: <idrule>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Reason: reason>. Closing connection. |
| Explanation | The unit failed to scan data. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | idrule srcip srcport destip destport reason |
| Context Parameters | Rule Name |

2.22.16. idp_failscan (ID: 01300016)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed to scan data. ID Rule: <idrule>. Source IP: <srcip>. Source Port: <srcport>. Destination IP: <destip>. Destination Port: <destport>. Reason: <reason>. |
| Explanation | The unit failed to scan data. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | idrule srcip srcport destip destport |

| | |
|---------------------------|-----------|
| | reason |
| Context Parameters | Rule Name |

2.23. IDPPIPES

These log messages refer to the **IDPPIPES (IDP Traffic Shaping events)** category.

2.23.1. conn_idp_piped (ID: 06100001)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | IDP Pipe event triggered. Throughput limited to <limit> |
| Explanation | An IDP rule with Pipe event triggered on the specified connection. The connection is piped to [limit] kbps. |
| Gateway Action | limit_throughput |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | limit |
| Context Parameters | Connection |

2.23.2. host_idp_piped (ID: 06100002)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Dynamic pipe state added for host <host>. Throughput limited to <limit> for all new connections for <ttd> seconds |
| Explanation | An IDP Pipe event triggered. The host [host] will be dynamically piped with a total throughput of [limit] kbps. All new connections to and from this host will be piped for [ttl] seconds. |
| Gateway Action | host_idp_piped |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | host limit ttl |
| Context Parameters | Connection |

2.23.3. out_of_memory (ID: 06100003)

| | |
|-------------------------|---------------------------------------|
| Default Severity | ALERT |
| Log Message | Out of memory |
| Explanation | An attempt to allocate memory failed. |

| | |
|---------------------------|---|
| Gateway Action | host_state_creation_aborted |
| Recommended Action | Issue the "memory" CLI command and check for modules with abnormal memory consumption. Otherwise, revise configuration in order to free more RAM. |
| Revision | 1 |

2.23.4. idp_piped_state_replaced (ID: 06100004)

| | |
|---------------------------|--|
| Default Severity | DEBUG |
| Log Message | Replaced IDP pipe host entry <replaced_host> |
| Explanation | An old dynamic pipe entry was removed and replaced since the maximum number of pipe states were reached. |
| Gateway Action | state_replaced |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | replaced_host old_host_ttl |

2.23.5. idp_piped_state_expire (ID: 06100005)

| | |
|---------------------------|---|
| Default Severity | DEBUG |
| Log Message | Removed IDP dynamic pipe state for host <host> due to TTL expire |
| Explanation | An old dynamic pipe entry was removed since its TTL expired. Connections to and from this host are no longer piped. |
| Gateway Action | state_removed |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | host |

2.23.6. conn_idp_unpipd (ID: 06100006)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | IDP Pipe disabled. Throughput no longer limited to <limit> |
| Explanation | A configuration change regarding the dynamic pipes' throughput parameters have occurred. The dynamic piping for this connection is disabled. |
| Gateway Action | pipe_removed |

| | |
|---------------------------|------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | limit |
| Context Parameters | Connection |

2.23.7. conn_idp_piped (ID: 06100007)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | IDP dynamic pipe state found. Throughput limited to <limit> |
| Explanation | A new connection is piped to [limit] kbps since either the source or destination IP is dynamically throttled by IDP dynamic pipe state. New connections to and from the IP will be throttled as long as an IDP Pipe state exist. |
| Gateway Action | limit_throughput |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | limit |
| Context Parameters | Connection |

2.24. IDPUPDATE

These log messages refer to the **IDPUPDATE (Intrusion Detection & Prevention Database update)** category.

2.24.1. idp_db_update_failure (ID: 01400001)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Update of the Intrusion Detection & Prevention database failed, because of <reason> |
| Explanation | The unit tried to update the Intrusion Detection & Prevention database, but failed. The reason for this is specified in the "reason" parameter. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.24.2. idp_database_downloaded (ID: 01400002)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | New Intrusion Detection & Prevention database downloaded |
| Explanation | An updated version of the Intrusion Detection & Prevention database has been downloaded, which will now be used. |
| Gateway Action | using_new_database |
| Recommended Action | None. |
| Revision | 2 |

2.24.3. idp_db_already_up_to_date (ID: 01400003)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Intrusion Detection & Prevention database is up-to-date |
| Explanation | The current Intrusion Detection & Prevention database is up-to-date, and does not need to be updated. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.24.4. idp_db_update_denied (ID: 01400004)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Intrusion Detection & Prevention database could not be updated, as no valid subscription exist |
| Explanation | The current license does not allow Intrusion Detection & Prevention database to be updated. |
| Gateway Action | None |
| Recommended Action | Check the system's time and/or purchase a subscription. |
| Revision | 1 |

2.24.5. idp_detects_invalid_system_time (ID: 01400005)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | System clock is not properly set. Invalid date (<date>) in IDP signature file. IDP disabled |
| Explanation | The system clock is not up to date. The system clock must be set correctly in order to use the IDP features. IDP features remains disabled until clock is correct and a manual IDP update has been performed. |
| Gateway Action | idp_disabled |
| Recommended Action | Check and set the system time correct and perform a manual IDP update. |
| Revision | 1 |
| Parameters | date |

2.24.6. downloading_new_database (ID: 01400007)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Downloading new IDP database |
| Explanation | A new IDP database is available. The database is being downloaded. |
| Gateway Action | downloading_new_database |
| Recommended Action | None. |
| Revision | 1 |

2.24.7. unsynced_databases (ID: 01400009)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unsynchronized hardware and software databases detected |
| Explanation | The IDP hardware and software databases are not synchronized. A full update is automatically initiated. |
| Gateway Action | downloading_new_database |
| Recommended Action | None. |
| Revision | 1 |

2.25. IFACEMON

These log messages refer to the **IFACEMON (Interface monitor events)** category.

2.25.1. ifacemon_status_bad_rereport (ID: 03900001)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | IfaceMon reset interface <iface> 10 seconds ago. Link status: <linkspeed> Mbps <duplex> duplex |
| Explanation | The Interface Monitor reset the interface 10 seconds ago. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | delay iface [linkspeed] [duplex] |

2.25.2. ifacemon_status_bad (ID: 03900003)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | IfaceMon reports interface problems on <iface>. Resetting interface. Link status: <linkspeed> Mbps <duplex> duplex |
| Explanation | The Interface Monitor has discovered problems on an interface, and will reset it. |
| Gateway Action | nic_reset |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface linkspeed duplex |

2.25.3. ifacemon_status_bad (ID: 03900004)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | IfaceMon reports interface problems on <iface> Resetting interface |
| Explanation | The Interface Monitor has discovered problems on an interface, and will reset it. |
| Gateway Action | nic_reset |

| | |
|---------------------------|----------------------------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface [linkspeed] [duplex] |

2.26. IP6IN4

These log messages refer to the **IP6IN4 (6in4 Tunnel Events)** category.

2.26.1. failed_to_setup_6in4_tunnel (ID: 07800001)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Failed to setup open tunnel from <local_ip> to <remote_ip> |
| Explanation | Unable to setup 6in4 tunnel with endpoint. |
| Gateway Action | drop |
| Recommended Action | Check CONN usage and local routing. |
| Revision | 1 |
| Parameters | local_ip remote_ip |

2.26.2. 6in4_resolve_successful (ID: 07800002)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | 6in4 tunnel <iface> resolved <remotegwname> to <remotegw> |
| Explanation | The 6in4 tunnel succesfully resolved the DNS name of remote endpoint. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegwname remotegw |

2.26.3. 6in4_resolve_failed (ID: 07800003)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | 6in4 tunnel <iface> failed to resolve <remotegwname> |
| Explanation | The 6in4 tunnel failed to resolve the DNS name of the remote endpoint. |
| Gateway Action | None |
| Recommended Action | Make sure you have configured the DNS name of the remote endpoint and the DNS servers correctly. |

| | |
|-------------------|-----------------------|
| Revision | 1 |
| Parameters | iface remotegwname |

2.26.4. 6in4_invalid_sender_encap (ID: 07800004)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Invalid IPv6 sender entering 6in4 tunnel <senderip>. Packet dropped |
| Explanation | Packet should be dropped according to RFC 4213 since the source IP address is invalid. |
| Gateway Action | drop |
| Recommended Action | Check routing configuration or modify the IPv6 addresses of the clients. |
| Revision | 1 |
| Parameters | senderip |
| Context Parameters | Packet Buffer |

2.26.5. 6in4_length_error (ID: 07800005)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | 6in4 packet length error. Packet dropped |
| Explanation | Received 6in4 packet with length error. |
| Gateway Action | drop |
| Recommended Action | Check 6in4 endpoint configuration. |
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.26.6. 6in4_send_routing_loop_detected (ID: 07800006)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Routing loop detected. 6in4 packet send failed |
| Explanation | Routing loop to the 6in4 tunnel endpoint detected. |
| Gateway Action | drop |
| Recommended Action | Check local routing. |

| | |
|---------------------------|---------------|
| Revision | 1 |
| Context Parameters | Packet Buffer |

2.26.7. 6in4_invalid_sender_decap (ID: 07800007)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Invalid IPv6 sender in 6in4 tunnel <senderip>. Packet dropped |
| Explanation | Packet should be dropped according to RFC 4213 since the source IP address is invalid. |
| Gateway Action | drop |
| Recommended Action | Check 6in4 endpoint configuration. |
| Revision | 1 |
| Parameters | senderip |
| Context Parameters | Packet Buffer |

2.27. IPPOOL

These log messages refer to the **IPPOOL (IPPool events)** category.

2.27.1. no_offer_received (ID: 01900001)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | No offers were received |
| Explanation | No DHCP offers where received by the IP pool general query. |
| Gateway Action | None |
| Recommended Action | Review DHCP server parameters and IP pool configuration. |
| Revision | 1 |
| Parameters | waited |
| Context Parameters | Rule Name |

2.27.2. no_valid_dhcp_offer_received (ID: 01900002)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | No valid DHCP offers were received |
| Explanation | No valid DHCP offers were received. |
| Gateway Action | no_new_client_created |
| Recommended Action | Review DHCP server parameters and IP pool filters. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.27.3. too_many_dhcp_offers_received (ID: 01900003)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Too many DHCP offers received. This and subsequent offers will be ignored |
| Explanation | Too many DHCP offers received. |
| Gateway Action | ignoring_offer |
| Recommended Action | Limit the number of DHCP servers on the locally attached network. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.27.4. lease_disallowed_by_lease_filter (ID: 01900004)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | The lease was rejected due to a lease filter |
| Explanation | A lease was rejected by a lease filter. |
| Gateway Action | lease_rejected |
| Recommended Action | Verify the lease filters. |
| Revision | 1 |
| Parameters | client_ip |
| Context Parameters | Rule Name |

2.27.5. lease_disallowed_by_server_filter (ID: 01900005)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | The lease was rejected due to a server filter |
| Explanation | A lease was rejected by a server filter. |
| Gateway Action | lease_rejected |
| Recommended Action | Verify the server filters. |
| Revision | 1 |
| Parameters | server_ip |
| Context Parameters | Rule Name |

2.27.6. lease_have_bad_dhcp_server (ID: 01900006)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | The lease was rejected due to a bad DHCP-server address |
| Explanation | A lease was rejected due to a bad DHCP server address. |
| Gateway Action | lease_rejected |
| Recommended Action | Check DHCP server configuration. |
| Revision | 1 |
| Parameters | client_ip |
| Context Parameters | Rule Name |

2.27.7. lease_have_bad_netmask (ID: 01900007)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | The lease was rejected due to a bad offered netmask address |
| Explanation | A lease was rejected due to a bad offered netmask address. |
| Gateway Action | lease_rejected |
| Recommended Action | Check DHCP server configuration. |
| Revision | 1 |
| Parameters | netmask |
| Context Parameters | Rule Name |

2.27.8. lease_have_bad_offered_broadcast (ID: 01900008)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | The lease was rejected due to a bad offered broadcast address |
| Explanation | A lease was rejected due to a bad offered broadcast address. |
| Gateway Action | lease_rejected |
| Recommended Action | Check DHCP server configuration. |
| Revision | 1 |
| Parameters | broadcast |
| Context Parameters | Rule Name |

2.27.9. lease_have_bad_offered_ip (ID: 01900009)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | The lease was rejected due to a bad offered IP address |
| Explanation | A lease was rejected due to a bad offered IP address. |
| Gateway Action | lease_rejected |
| Recommended Action | Check DHCP server configuration. |
| Revision | 1 |
| Parameters | client_ip |
| Context Parameters | Rule Name |

2.27.10. lease_have_bad_gateway_ip (ID: 01900010)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | The lease was rejected due to a bad offered gateway address |
| Explanation | A lease was rejected due to a bad offered gateway address. |
| Gateway Action | lease_rejected |
| Recommended Action | Check DHCP server configuration. |
| Revision | 1 |
| Parameters | gateway_ip |
| Context Parameters | Rule Name |

2.27.11. lease_ip_is_already_occupied (ID: 01900011)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | The lease was rejected since it seem to be occupied |
| Explanation | A lease was rejected since it seem to be occupied. |
| Gateway Action | lease_rejected |
| Recommended Action | Check DHCP server configuration and statically configured hosts. |
| Revision | 1 |
| Parameters | client_ip |
| Context Parameters | Rule Name |

2.27.12. lease_rejected_by_server (ID: 01900012)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | The lease was rejected by server |
| Explanation | A lease was rejected by the DHCP server. |
| Gateway Action | lease_rejected |
| Recommended Action | Check DHCP server configuration. |
| Revision | 1 |
| Parameters | client_ip |
| Context Parameters | Rule Name |

2.27.13. ip_offer_already_exist_in_the_pool (ID: 01900013)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | The lease was rejected since the offered IP already exist in the pool |
| Explanation | A lease was rejected since the offered IP already exists in the pool. |
| Gateway Action | lease_rejected |
| Recommended Action | Check IP pool configuration. |
| Revision | 1 |
| Parameters | client_ip |
| Context Parameters | Rule Name |

2.27.14. pool_reached_max_dhcp_clients (ID: 01900014)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | The maximum number of clients for this IP pool have been reached |
| Explanation | The maximum number of clients for this pool have been reached. |
| Gateway Action | no_new_client_created |
| Recommended Action | Verify max clients limitation for the pool. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.27.15. macrange_depleted (ID: 01900015)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | The range of MAC addresses for the DHCPclients have been depleted |
| Explanation | The configured range of MAC addresses for the DHCP clients have been depleted. |
| Gateway Action | no_new_client_created |
| Recommended Action | Expand the MAC address range. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.27.16. ip_fetched_pool (ID: 01900016)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Subsystem fetched a IP from the pool |
| Explanation | A subsystem fetched an IP from the pool. |
| Gateway Action | inform |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip subsystem |
| Context Parameters | Rule Name |

2.27.17. ip_returned_to_pool (ID: 01900017)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Subsystem returned an IP to the pool |
| Explanation | A subsystem returned an IP to the pool. |
| Gateway Action | inform |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip subsystem |
| Context Parameters | Rule Name |

2.28. IPSEC

These log messages refer to the **IPSEC (IPsec (VPN) events)** category.

2.28.1. fatal_ipsec_event (ID: 01800100)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Fatal event occurred, because of <reason> |
| Explanation | Fatal event occurred in IPsec stack. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.28.2. warning_ipsec_event (ID: 01800101)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Warning event occurred, because of <reason> |
| Explanation | Warning event from IPsec stack. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.28.3. audit_event (ID: 01800103)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Source IP: <source_ip>, Destination IP: <dest_ip>, SPI: <spi>, Seq: <seq>, Protocol: <protocol>, Reason: <reason>. |
| Explanation | An audit event occurred in the IPsec stack. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | source_ip dest_ip spi |

seq
protocol
reason

2.28.4. audit_flood (ID: 01800104)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | <reason>. |
| Explanation | The rate limit for audit messages was reached. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.28.5. ike_delete_notification (ID: 01800105)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Local IP: <local_ip>, Remote IP: <remote_ip>, Cookies: <cookies>, Reason: <reason>. |
| Explanation | None. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | local_ip remote_ip cookies reason |

2.28.6. ike_invalid_payload (ID: 01800106)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Local IP: <local_ip>, Remote IP: <remote_ip>, Cookies: <cookies>, Reason: <reason>. |
| Explanation | None. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

| | |
|-------------------|--|
| Parameters | local_ip remote_ip cookies reason |
|-------------------|--|

2.28.7. ike_invalid_proposal (ID: 01800107)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Local IP: <local_ip>, Remote IP: <remote_ip>, Cookies: <cookies>, Reason: <reason>. |
| Explanation | The proposal for the security association could not be accepted. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | local_ip remote_ip cookies reason |

2.28.8. ike_retry_limit_reached (ID: 01800108)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Local IP: <local_ip>, Remote IP: <remote_ip>, Cookies: <cookies>, Reason: <reason>. |
| Explanation | The retry limit for transmitting ISAKMP messages was reached. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | local_ip remote_ip cookies reason |

2.28.9. ike_quickmode_failed (ID: 01800109)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Local IP: <local_ip>, Remote IP: <remote_ip>, Cookies: <cookies>, Reason: <reason>. |
| Explanation | None. |

| | |
|---------------------------|--|
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | local_ip remote_ip cookies reason |

2.28.10. packet_corrupt (ID: 01800110)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Source IP: <source_ip>, Destination IP: <dest_ip>, SPI: <spi>, Seq: <seq>, Protocol: <protocol>, Reason: <reason>. |
| Explanation | Received a corrupt packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | source_ip dest_ip spi seq protocol reason |

2.28.11. icv_failure (ID: 01800111)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Source IP: <source_ip>, Destination IP: <dest_ip>, SPI: <spi>, Seq: <seq>, Protocol: <protocol>, Reason: <reason>. |
| Explanation | The computed and ICV of the received packet did not match. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | source_ip dest_ip spi seq protocol reason |

2.28.12. sequence_number_failure (ID: 01800112)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Source IP: <source_ip>, Destination IP: <dest_ip>, SPI: <spi>, Seq: <seq>, Protocol: <protocol>, Reason: <reason>. |
| Explanation | The received packet did not fall within the sliding window. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | source_ip dest_ip spi seq protocol reason |

2.28.13. sa_lookup_failure (ID: 01800113)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Source IP: <source_ip>, Destination IP: <dest_ip>, SPI: <spi>, Seq: <seq>, Protocol: <protocol>, Reason: <reason>. |
| Explanation | The received packet could not be mapped to an appropriate SA. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | source_ip dest_ip spi seq protocol reason |

2.28.14. ip_fragment (ID: 01800114)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | Source IP: <source_ip>, Destination IP: <dest_ip>, SPI: <spi>, Seq: <seq>, Protocol: <protocol>, Reason: <reason>. |
| Explanation | The packet offered to AH/ESP processing appears to be an IP fragment. |

| | |
|---------------------------|--|
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | source_ip dest_ip spi seq protocol reason |

2.28.15. sequence_number_overflow (ID: 01800115)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Source IP: <source_ip>, Destination IP: <dest_ip>, SPI: <spi>, Seq: <seq>, Protocol: <protocol>, Reason: <reason>. |
| Explanation | An attempt to transmit a packet that would result in sequence number overflow. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | source_ip dest_ip spi seq protocol reason |

2.28.16. bad_padding (ID: 01800116)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Source IP: <source_ip>, Destination IP: <dest_ip>, SPI: <spi>, Seq: <seq>, Protocol: <protocol>, Reason: <reason>. |
| Explanation | The received packet has incorrect padding. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | source_ip dest_ip spi seq protocol |

reason

2.28.17. hardware_accelerator_congested (ID: 01800117)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Source IP: <source_ip>, Destination IP: <dest_ip>, SPI: <spi>, Seq: <seq>, Protocol: <protocol>, Reason: <reason>. |
| Explanation | Hardware acceleration failed due to resource shortage. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | source_ip dest_ip spi seq protocol reason |

2.28.18. hardware_acceleration_failure (ID: 01800118)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Source IP: <source_ip>, Destination IP: <dest_ip>, SPI: <spi>, Seq: <seq>, Protocol: <protocol>, Reason: <reason>. |
| Explanation | Hardware acceleration failed due to resource shortage, a corrupt packet or other hardware related error. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | source_ip dest_ip spi seq protocol reason |

2.28.19. commit_failed (ID: 01800200)

| | |
|-------------------------|--------------------------------------|
| Default Severity | CRITICAL |
| Log Message | Failed to commit IPsec configuration |

| | |
|---------------------------|---------------------------------------|
| Explanation | Failed to commit IPsec configuration. |
| Gateway Action | IPsec_configuration_disabled |
| Recommended Action | Reconfigure_IPsec. |
| Revision | 1 |

2.28.20. commit succeeded (ID: 01800201)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Commit succeeded - recalculating flows and reapplying routes |
| Explanation | Succeeded to commit IPsec configuration. Flows will be recalculated and reapplied. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.21. IPsec_successfully_started (ID: 01800202)

| | |
|---------------------------|-------------------------------|
| Default Severity | INFORMATIONAL |
| Log Message | IPsec is up and running |
| Explanation | IPsec configured and started. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.22. x509_init_failed (ID: 01800203)

| | |
|---------------------------|-----------------------------------|
| Default Severity | CRITICAL |
| Log Message | Failed to initilaze x509 library |
| Explanation | Failed to initilaze x509 library. |
| Gateway Action | IPsec_configuration_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.23. pm_create_failed (ID: 01800204)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed to create policymanager |
| Explanation | Failed to create policymanager. Out of memory. |
| Gateway Action | reduce_number_of_tunnels |
| Recommended Action | None. |
| Revision | 1 |

2.28.24. failed_to_start_ipsec (ID: 01800206)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Disable all IPsec tunnels |
| Explanation | Disable all IPsec tunnels due to memory limitations. |
| Gateway Action | disable_all_ipsec_interfaces |
| Recommended Action | None. |
| Revision | 1 |

2.28.25. failed_create_audit_module (ID: 01800207)

| | |
|---------------------------|--------------------------------|
| Default Severity | ERROR |
| Log Message | Failed to create audit module. |
| Explanation | Failed to create audit module. |
| Gateway Action | IPsec_audit_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.26. failed_to_configure_IPsec (ID: 01800210)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed during configuration with error: <error_msg> |
| Explanation | Failed to set IPsec configuration. |
| Gateway Action | IPsec_configuration_disabled |
| Recommended Action | Reconfigure_IPsec. |
| Revision | 1 |

| | |
|-------------------|-----------|
| Parameters | error_msg |
|-------------------|-----------|

2.28.27. reconfig_IPsec (ID: 01800211)

| | |
|---------------------------|-----------------------------------|
| Default Severity | INFORMATIONAL |
| Log Message | Reconfiguration of IPsec started |
| Explanation | Reconfiguration of IPsec started. |
| Gateway Action | ipsec_reconfigured |
| Recommended Action | None. |
| Revision | 2 |

2.28.28. IPsec_init_failed (ID: 01800213)

| | |
|---------------------------|------------------------------|
| Default Severity | CRITICAL |
| Log Message | Failed to initialize IPsec |
| Explanation | Failed to start IPsec. |
| Gateway Action | IPsec_configuration_disabled |
| Recommended Action | Restart. |
| Revision | 1 |

2.28.29. ipsec_started_successfully (ID: 01800214)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | IPsec started successfully |
| Explanation | Succeeded to create Policymanger and commit IPsec configuration. |
| Gateway Action | ipsec_started |
| Recommended Action | None. |
| Revision | 2 |

2.28.30. Failed_to_add_certificate (ID: 01800302)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed add host certificate: <certificate>, for tunnel <tunnel> |
| Explanation | Failed to add specified host certificate. |

| | |
|---------------------------|-----------------------|
| Gateway Action | certificate_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 1 |
| Parameters | certificate tunnel |

2.28.31. Default_IKE_DH_groups_will_be_used (ID: 01800303)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Default configuration for IKE DH groups (2 and 5) will be used for tunnel: <tunnel> |
| Explanation | Inform that default DH groups settings will be used. |
| Gateway Action | Use_default_IKE_DH_groups |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnel |

2.28.32. failed_to_set_algorithm_properties (ID: 01800304)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed to set properties IPsec algorithm <alg>, for tunnel <tunnel> |
| Explanation | Failed to set specified properties (keysize, lifetimes) for IPsec algorithm. |
| Gateway Action | use_default_values_for_algorithm |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alg tunnel |

2.28.33. failed_to_set_algorithm_properties (ID: 01800305)

| | |
|-------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed to set properties for IKE algorithm <alg>, for tunnel <tunnel> |
| Explanation | Failed to set specified properties (keysize, lifetimes) for IKE algorithm. |
| Gateway Action | use_default_values_for_algorithm |

| | |
|---------------------------|---------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | alg tunnel |

2.28.34. failed_to_add_root_certificate (ID: 01800306)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed add root certificate: <certificate>, for tunnel <tunnel> |
| Explanation | Failed to set specified certificate as root certificate. |
| Gateway Action | disable_certificate |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 1 |
| Parameters | certificate tunnel |

2.28.35. dns_resolve_failed (ID: 01800308)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Failed to resolve remote gateway <gateway> for IPsec Tunnel <ipsectunnel>. Keeping old IP <old_ip> |
| Explanation | Failed to resolve remote gateway through DNS. |
| Gateway Action | keeping_old_ip |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | gateway ipsectunnel old_ip |

2.28.36. dns_resolve_failed (ID: 01800309)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Failed to resolve remote gateway <gateway> for IPsec Tunnel <ipsectunnel>. Disabling IPsec tunnel |
| Explanation | Failed to resolve remote gateway through DNS. |
| Gateway Action | IPsec_tunnel_disabled |

| | |
|---------------------------|------------------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | gateway ipsectunnel |

2.28.37. failed_to_add_peer (ID: 01800312)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed to add remote gateway: <gateway> resolved by DNS for IPsec tunnel: <ipsectunnel> |
| Explanation | Failed to add remote gateway, that have been resolved by DNS, to tunnel. |
| Gateway Action | IPsec_tunnel_disabled |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | gateway ipsectunnel |

2.28.38. failed_to_add_rules (ID: 01800313)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed to add rules after remote gw: <gateway> have been resolved by DNS for IPsec tunnel: <ipsectunnel> |
| Explanation | Failed to add rules to tunnel after remote gateway have been resolved by DNS. |
| Gateway Action | IPsec_tunnel_disabled |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | gateway ipsectunnel |

2.28.39. failed_to_add_rules (ID: 01800314)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed to commit rules after remote gw: <gateway> have been resolved by DNS for IPsec tunnel: <ipsectunnel> |
| Explanation | Failed to add rules to tunnel after remote gateway have been resolved by DNS. |

| | |
|---------------------------|------------------------|
| Gateway Action | IPsec_tunnel_disabled |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | gateway ipsectunnel |

2.28.40. new_remote_gw_ip (ID: 01800315)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Resolved remote-gateway <gateway> to IP <ip> for IPsec tunnel <ipsectunnel> |
| Explanation | Tunnel have succesfully been reconfigured after remote gateway have been resolved. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | gateway ipsectunnel ip |

2.28.41. no_policymanager (ID: 01800316)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | No policymanager!! to free tunnel object from |
| Explanation | No policymanager to free tunnel from!!! IPsec does not work properly. |
| Gateway Action | ipsec_out_of_work |
| Recommended Action | Restart. |
| Revision | 1 |

2.28.42. peer_is_dead (ID: 01800317)

| | |
|-------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Peer <peer> has been detected dead |
| Explanation | A remote peer have been detected as dead. This will cause all tunnels associated with the peer to be taken down. |
| Gateway Action | IPsec_tunnel_disabled |

| | |
|---------------------------|-------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | peer |

2.28.43. failed_to_set_dpd_cb (ID: 01800318)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed to set callback for Dead Peer Detection |
| Explanation | Failed to set callback for Dead Peer Detection User will not receive log message when a peer has been detected dead and the tunnel have been killed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.44. failed_to_add_key_provider (ID: 01800321)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed with error: <status_msg>, when adding external key provider for certificate handling |
| Explanation | Failed to add external key provider. All certificate authentication will be disabled. |
| Gateway Action | IPsec_disabled |
| Recommended Action | Restart. |
| Revision | 1 |
| Parameters | status_msg |

2.28.45. failed_to_add_certificate (ID: 01800322)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed add certificate: <certificate>, for tunnel <tunnel> |
| Explanation | Failed to add certificate. Tunnel configured with this certificate for authentication will fail while negotiate. |
| Gateway Action | certificate_disabled |
| Recommended Action | None. |
| Revision | 1 |

| | |
|-------------------|-----------------------|
| Parameters | certificate tunnel |
|-------------------|-----------------------|

2.28.46. failed_to_set_remote_ID (ID: 01800323)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Invalid type for ID in remote access idlist: <type>, for tunnel <tunnel> |
| Explanation | Invalid type for ID in remote access idlist have been specified in configuration. |
| Gateway Action | vpntunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 1 |
| Parameters | type tunnel |

2.28.47. failed_to_create_authorization (ID: 01800327)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed to create local authorization object |
| Explanation | Failed to create local authorization object. configured remote access groups will not be possible to use. |
| Gateway Action | IPsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.48. Failed_to_set_xauth (ID: 01800328)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed set XAuth for tunnel <tunnel> |
| Explanation | Failed to set extended authentication (XAuth) for the tunnel. |
| Gateway Action | None |
| Recommended Action | Reconfigure_tunnnel. |
| Revision | 1 |
| Parameters | tunnel |

2.28.49. Failed_to_create_xauth_group (ID: 01800329)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed create XAuth group |
| Explanation | Failed to create extended authentication (XAuth) group. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.50. IPsec_tunnel_added (ID: 01800333)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | IPsec tunnel added to the configuration |
| Explanation | An IPsec tunnel has been enabled or added to the configuration. |
| Gateway Action | reconfiguration |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | username client_ip IPsec_tunnel |

2.28.51. IPsec_tunnel_added_bySGW (ID: 01800334)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | IPsec tunnel added by the Security Gateway |
| Explanation | An IPsec tunnel has been added by the Security Gateway. |
| Gateway Action | reconfiguration_by_SGW |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | username client_ip IPsec_tunnel |

2.28.52. IPsec_tunnel_modified_bySGW (ID: 01800335)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | IPsec tunnel changed by the Security Gateway |
| Explanation | An IPsec tunnel has been changed by the Security Gateway. |
| Gateway Action | reconfiguration_by_SGW |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | username client_ip IPsec_tunnel |

2.28.53. IPsec_tunnel_modified (ID: 01800336)

| | |
|---------------------------|---------------------------------------|
| Default Severity | INFORMATIONAL |
| Log Message | IPsec tunnel configuration modified |
| Explanation | An IPsec tunnel has been modified. |
| Gateway Action | reconfiguration |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip username IPsec_tunnel |

2.28.54. IPsec_tunnel_removed (ID: 01800337)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | IPsec tunnel removed from the configuration |
| Explanation | An IPsec tunnel has been disabled or removed from the configuration. |
| Gateway Action | reconfiguration |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip username IPsec_tunnel |

2.28.55. tunnel_disabled (ID: 01800340)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Tunnel <tunnel> disabled due to configuration error. |
| Explanation | Tunnel [tunnel] disabled due to configuration error. |
| Gateway Action | tunnel_disabled |
| Recommended Action | Tunnel_disabled. |
| Revision | 1 |
| Parameters | tunnel |

2.28.56. tunnel_cfg_error (ID: 01800341)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Critical configuration error on tunnel <tunnel>. |
| Explanation | Critical configuration error on tunnel [tunnel]. |
| Gateway Action | restart |
| Recommended Action | Restart. |
| Revision | 1 |
| Parameters | tunnel |

2.28.57. ippool_does_not_exist (ID: 01800400)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | IP pool does not exist: <ippool> |
| Explanation | The config mode pool refers to an IP pool that does not exist. As a result, IPsec clients using config mode will not be able lease IP addresses. |
| Gateway Action | None |
| Recommended Action | Update your config mode configuration. |
| Revision | 1 |
| Parameters | ippool |

2.28.58. cfgmode_ip_freed (ID: 01800402)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | Returned a dynamic cfg mode IP <ip> to the IP pool |

| | |
|---------------------------|---|
| Explanation | A dynamically allocated ip used for IKE cfg mode was returned to the IP pool. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ip |

2.28.59. recieved_packet_to_disabled_IPsec (ID: 01800500)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | received plaintext packet disabled IPsec. Packet will be dropped |
| Explanation | Received plain text packet to IPsec while disabled. |
| Gateway Action | packet_will_be_dropped |
| Recommended Action | None. |
| Revision | 2 |

2.28.60. recieved_packet_to_disabled_IPsec (ID: 01800501)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Received plain text packet to IPsec while shutting down. Packet will be dropped |
| Explanation | Received plain text packet to IPsec while shutting down. |
| Gateway Action | packet_will_be_dropped |
| Recommended Action | None. |
| Revision | 1 |

2.28.61. Recieved_plaintext_packet_for_disabled_IPsec_interface (ID: 01800502)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | IPsec tunnel <ipsec_connection> is disabled. Packet will be dropped |
| Explanation | A packed was dropped due to the IPsec interface being disabled. |
| Gateway Action | packet_will_be_dropped |
| Recommended Action | This is usualy a consequence of low memory or a bad configuration. Look for previous log messages to find the cause for the interface |

| | |
|-------------------|------------------|
| | being disabled. |
| Revision | 1 |
| Parameters | ipsec_connection |

2.28.62. no_remote_gateway (ID: 01800503)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Remote gateway is null. No route is possible |
| Explanation | No remote gateway for packet, i.e no route defined. |
| Gateway Action | packet_will_be_dropped |
| Recommended Action | None. |
| Revision | 1 |

2.28.63. no_route (ID: 01800504)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed to lookup route. No route for packet. |
| Explanation | No remote gateway for packet, i.e no route defined. |
| Gateway Action | packet_will_be_dropped |
| Recommended Action | None. |
| Revision | 1 |

2.28.64. ping_keepalive_failed_in_tunnel (ID: 01800505)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | IPsec ping monitor detects loss if ping replies of packets INSIDE the tunnel |
| Explanation | IPsec ping monitor detects loss if ping replies of packets INSIDE the tunnel. |
| Gateway Action | tunnel_will_disabled_after_8_number_of_lost_packets |
| Recommended Action | None. |
| Revision | 1 |

2.28.65. ipsec_interface_disabled (ID: 01800506)

| | |
|---------------------------|---------------------------|
| Default Severity | ERROR |
| Log Message | IPsec interface disabled |
| Explanation | IPsec interface disabled. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.66. maximum_allowed_tunnels_limit_reached (ID: 01800900)

| | |
|---------------------------|--|
| Default Severity | ALERT |
| Log Message | Negotiation aborted due to license restrictions. Reached maximum of <allowed_tunnels> active IPsec tunnels |
| Explanation | More tunnels and/or unique peers than the license allow are trying to establish. |
| Gateway Action | negotiation_aborted |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | allowed_tunnels |

2.28.67. SAs_not_killed_for_remote_peer (ID: 01800901)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed to kill associated SA:s for <remotepeer> peer(s) |
| Explanation | This happens if there is no tunnel established with the given peer. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | remotepeer |

2.28.68. sa_write_congestion (ID: 01801337)

| | |
|-------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Failed to write SA to Nitrox II due to congestion. <dir> SPI <spi> |

| | |
|---------------------------|--|
| Explanation | There was not enough free buffers to write the SA to Nitrox II. Every new packet on the SA will trigger a new try. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | dir spi |

2.28.69. sa_write_congestion (ID: 01801338)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Failed to write SA to Nitrox II; the request timed out. <dir> SPI <spi> |
| Explanation | A request to write an SA to Nitrox II timed out\r\n. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | dir spi |

2.28.70. trigger_non_ip_packet (ID: 01802001)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Trigger for non-IP packet of protocol <proto>. Dropping request for policy |
| Explanation | Trigger for non IP packet, dropping request. |
| Gateway Action | dropping_request |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | proto |

2.28.71. rule_not_active (ID: 01802002)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | The rule is not in the active configuration. Dropping request for policy |
| Explanation | The rule is not in the active configuration, dropping request. |

| | |
|---------------------------|------------------|
| Gateway Action | dropping_request |
| Recommended Action | None. |
| Revision | 1 |

2.28.72. malformed_packet (ID: 01802003)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Malformed packet for trigger.Dropping request for policy |
| Explanation | Malformed packet for trigger, dropping request. |
| Gateway Action | dropping_request |
| Recommended Action | None. |
| Revision | 1 |

2.28.73. max_ipsec_sa_negotiations_reached (ID: 01802004)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | The maximum number of active Quick-Mode negotiations reached. Rekey not done. |
| Explanation | Maximum number of active Quick-Mode negotiations reached. |
| Gateway Action | rekey_not_done |
| Recommended Action | None. |
| Revision | 1 |

2.28.74. max_number_of_tunnels_reached (ID: 01802011)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Negotiation aborted due to license restrictions <maxtunnels> |
| Explanation | Reached max number of allowed active VPN tunnels according to license. |
| Gateway Action | ike_negotiation_aborted |
| Recommended Action | Reconfigure_IPsec. |
| Revision | 1 |
| Parameters | maxtunnels |

2.28.75. ike_sa_failed (ID: 01802022)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Ike SA negotiation failed: <statusmsg> Local IKE peer: <local_peer> Remote IKE peer: <remote_peer> Initiator SPI: <initiator_spi>. |
| Explanation | Negotiation of IKE SA failed. |
| Gateway Action | no_ike_sa |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | statusmsg local_peer remote_peer initiator_spi |

2.28.76. ike_sa_negotiation_completed (ID: 01802024)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | IKE SA <options> negotiation completed: <mode> using <auth> (<encryption><keysize> - <hash>) Diffie-Hellman group <dhgroup> (<bits>) Lifetime: <lifetime> seconds |
| Explanation | Negotiation of IKE SA completed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | options mode auth encryption keysize hash dhgroup bits lifetime |

2.28.77. ike_sa_negotiation_failed (ID: 01802030)

| | |
|-------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | No IKE SA negotiations done. Reason: The authentication credentials were not specified or private key was not available |
| Explanation | No IKE SA negotiations done because of authentication problems. |
| Gateway Action | no_ike_sa |

| | |
|---------------------------|-------|
| Recommended Action | None. |
| Revision | 1 |

2.28.78. ike_sa_negotiation_failed (ID: 01802031)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Type of the local ID <localid> is not KEY-ID for the mamros-pskeyext negotiation. The negotiation might fail. |
| Explanation | Type of the local ID is not KEY-ID for the mamros-pskeyext negotiation. The negotiation might fail. |
| Gateway Action | no_ike_sa |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | localid |

2.28.79. ipsec_sa_negotiation_completed (ID: 01802040)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | IPsec SA <sa> <info> negotiation completed: |
| Explanation | Child SA negotiatiion successfully completed. |
| Gateway Action | ipsec_sa_enabled |
| Recommended Action | None. |
| Revision | 3 |
| Parameters | sa info local_peer remote_peer spi_in spi_out [local_ts] [remote_ts] |

2.28.80. ipsec_sa_informal (ID: 01802041)

| | |
|-------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | PFS using Diffie-Hellman group: <dhgroup> (<bits>) |
| Explanation | Information about PFS and Diffie Hellman group used for Child SA. |
| Gateway Action | None |

| | |
|---------------------------|-----------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | dhgroup bits |

2.28.81. ipsec_sa_informal (ID: 01802043)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Inbound SPI:<spiin> Outbound SPI:<spiout> Algorithm:<alg> <keysize> <mac> |
| Explanation | Log information about SPI-values and algorithms for Child SA. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | spiin spiout alg keysize mac |

2.28.82. ipsec_sa_informal (ID: 01802044)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Inbound SPI:<spiin> Outbound SPI:<spiout> Algorith:<mac> |
| Explanation | Log information about SPI-values and algorithms fro Child SA. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | spiin spiout mac |

2.28.83. ipsec_sa_lifetime (ID: 01802045)

| | |
|-------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Local lifetime child SA: <kb> kilobytes, <sec> seconds |
| Explanation | Inform about lifetime for child SA:. |

| | |
|---------------------------|-----------|
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | kb sec |

2.28.84. ipsec_sa_lifetime (ID: 01802046)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Local lifetime child SA: <sec> seconds |
| Explanation | Inform about lifetime for child SA:. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | sec |

2.28.85. ipsec_sa_lifetime (ID: 01802047)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Local lifetime child SA: <kb> kilobytes |
| Explanation | Inform about lifetime for child SA:. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | kb |

2.28.86. ipsec_sa_lifetime (ID: 01802048)

| | |
|---------------------------|-------------------------------------|
| Default Severity | INFORMATIONAL |
| Log Message | Local lifetime child SA: infinite |
| Explanation | Inform about lifetime for child SA. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.87. ipsec_sa_informal (ID: 01802058)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Local Proxy ID: <local_id>, Remote Proxy ID: <remote_id> |
| Explanation | Information about Proxy ID's for Child SA. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | local_id remote_id |

2.28.88. ipsec_invalid_protocol (ID: 01802059)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Invalid protocol <proto> received for SA |
| Explanation | Invalid protocol received for SA. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | proto |

2.28.89. ipsec_sa_negotiation_aborted (ID: 01802060)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | IPsec SA Negotiation aborted: AH can not be initiated with NAT-T |
| Explanation | Negotiation aborted since AH can not be initiated with NAT-T. |
| Gateway Action | ipsec_sa_negotiation_aborted |
| Recommended Action | None. |
| Revision | 1 |

2.28.90. create_rules_failed (ID: 01802080)

| | |
|-------------------------|--|
| Default Severity | ERROR |
| Log Message | Cannot insert this rule, the forced NAT protocol type does not match |

| | |
|---------------------------|---|
| | rule protocol |
| Explanation | Failed to insert rule since forced NAT protocol do not match rule protocol. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_IPsec. |
| Revision | 1 |

2.28.91. create_rules_failed (ID: 01802081)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Cannot insert this rule, the forced NAT protocol type does not match rule protocol |
| Explanation | Failed to insert rule since forced NAT protocol do not match rule protocol. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_IPsec. |
| Revision | 1 |

2.28.92. no_authentication_method_specified (ID: 01802100)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Neither pre-shared keys nor CA certificates nor EAP are specified for a tunnel |
| Explanation | No authentication method is specified for the tunnel. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_IPsec. |
| Revision | 1 |

2.28.93. no_key_method_configured_for_tunnel (ID: 01802102)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Tunnel does not specify any keying method (IKE or manual) |
| Explanation | No keying method (IKE/manual) is configured for tunnel. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_IPsec. |

| | |
|-----------------|---|
| Revision | 1 |
|-----------------|---|

2.28.94. invalid_configuration_of_force_open (ID: 01802104)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Auto-start rule does not specify single IP address or domain name for its remote peer |
| Explanation | Can not use Auto-start rule (force open) for roaming tunnels. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_IPsec. |
| Revision | 1 |

2.28.95. invalid_rule_setting (ID: 01802105)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Both REJECT and PASS defined for a rule |
| Explanation | Can not specify both pass and reject for a rule. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.96. invalid_rule_setting (ID: 01802106)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | The AUTHENTICATION-ONLY can be specified only for PASS rules |
| Explanation | Can only specify AUTHENTICATION-ONLY with PASS rules. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.97. invalid_rule_setting (ID: 01802107)

| | |
|-------------------------|---------------------------------------|
| Default Severity | ERROR |
| Log Message | To-tunnel specified for a REJECT rule |

| | |
|---------------------------|---|
| Explanation | To-tunnel can not be specified for REJECT rule. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.98. invalid_rule_setting (ID: 01802108)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | No from-tunnel specified for an AUTHENTICATION-ONLY rule |
| Explanation | From-tunnel must be specified for an AUTHENTICATION-ONLY rule. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.99. invalid_rule_setting (ID: 01802109)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | To-tunnel specified for an AUTHENTICATION-ONLY rule |
| Explanation | To-tunnel can not be specified for an AUTHENTICATION-ONLY rule. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.100. max_number_of_policy_rules_reached (ID: 01802110)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | The maximum number of policy rules reached |
| Explanation | The maximum number of policy rules reached. |
| Gateway Action | VPN_configuration_disabled |
| Recommended Action | Review the advanced setting IPsecMaxRules. |
| Revision | 2 |

2.28.101. suspicious_outbound_rule (ID: 01802114)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Detected suspicious outbound IPsec rule without any selectors |
| Explanation | Detected suspicious outbound IPsec rule without any selectors specified. |
| Gateway Action | the_rule_might_not_work |
| Recommended Action | Reconfigure_IPsec. |
| Revision | 2 |

2.28.102. no_algorithms_configured_for_tunnel (ID: 01802200)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | ESP tunnel is missing encryption and authentication algorithms |
| Explanation | ESP tunnel [tunnel] not configured with encryption and authentication algorithms. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 1 |
| Parameters | tunnel |

2.28.103. no_encryption_algorithm_configured_for_tunnel (ID: 01802201)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | ESP tunnel <tunnel> is missing encryption algorithm. Null encryption algorithm must be specified if no encryption is required |
| Explanation | ESP tunnel not configured with any encryption algorithm, not even Null. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 1 |
| Parameters | tunnel |

2.28.104. no_authentication_algorithm_specified (ID: 01802203)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | No authentication algorithm configured for AH tunnel <tunnel> |
| Explanation | AH tunnel is configured without spetication algorithm. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 1 |
| Parameters | tunnel |

2.28.105. AH_not_supported (ID: 01802204)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | AH configured but not supported |
| Explanation | Tunnel [tunnel] configured for AH, but AH is not supported. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 1 |
| Parameters | tunnel |

2.28.106. invalid_tunnel_configuration (ID: 01802208)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | No IPsec transform (AH or ESP) specified for tunnel <tunnel> |
| Explanation | IPsec transform type must be specified for tunnel. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 2 |
| Parameters | tunnel |

2.28.107. invalid_tunnel_configuration (ID: 01802209)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | Auto-start tunnel <tunnel> configured for `per-port' or `per-host' SA. |
| Explanation | `per-port' or `per-host' SA can not be specified for auto-start tunnels [tunnel]. |

| | |
|---------------------------|---------------------|
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 1 |
| Parameters | tunnel |

2.28.108. invalid_tunnel_configuration (ID: 01802210)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Both `auto-start' and `dont-initiate' specified for tunnel <tunnel> |
| Explanation | Both `auto-start' and `dont-initiate' can not be specified for a tunnel. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 1 |
| Parameters | tunnel |

2.28.109. out_of_memory_for_tunnel (ID: 01802211)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Out of memory. Could not allocate memory for tunnel name! <tunnel> |
| Explanation | Out of memory. Could not allocate memory for tunnel name!. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnel |

2.28.110. invalid_key_size (ID: 01802214)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Invalid key sizes specified for algorithms |
| Explanation | Invalid key sizes specified for algorithms. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 2 |

2.28.111. invalid_key_size (ID: 01802215)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Algorithm key sizes specified for unknown algorithm |
| Explanation | Algorithm key sizes specified for unknown algorithm. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 2 |

2.28.112. invalid_key_size (ID: 01802216)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Algorithm key sizes specified for unknown algorithm |
| Explanation | Algorithm key sizes specified for unknown algorithm. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 2 |

2.28.113. invalid_key_size (ID: 01802217)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Specified key size limits for cipher <alg> with fixed key size |
| Explanation | Configuration specifies key size limits for cipher with fixed key size. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 2 |
| Parameters | alg |

2.28.114. invalid_cipher_keysize (ID: 01802218)

| | |
|-------------------------|--|
| Default Severity | ERROR |
| Log Message | Configured max cipher key size <keysize> is bigger than the built-in maximum <max> |
| Explanation | Tunnel configured invalid key size for cipher. |

| | |
|---------------------------|---------------------|
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 1 |
| Parameters | keysize max |

2.28.115. invalid_key_size (ID: 01802219)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Tunnel specified key size limits for mac <alg> with fixed key size |
| Explanation | Configuration specifies key size limits for cipher with fixed key size. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 1 |
| Parameters | alg |

2.28.116. invalid_cipher_keysize (ID: 01802220)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Configured max MAC key size <keysize> is bigger than the built-in maximum <max> |
| Explanation | Tunnel configured invalid key size for MAC. |
| Gateway Action | VPN_tunnel_disabled |
| Recommended Action | Reconfigure_tunnel. |
| Revision | 1 |
| Parameters | keysize max |

2.28.117. malformed_tunnel_id_configured (ID: 01802225)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Malformed identity <id> configured for tunnel |
| Explanation | Malformed identity specified in configuration. |
| Gateway Action | VPN_tunnel_invalid |
| Recommended Action | Reconfigure_remote_id. |

| | |
|-------------------|----|
| Revision | 1 |
| Parameters | id |

2.28.118. malformed_psk_configured (ID: 01802229)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Malformed IKE secret (PSK) configured for tunnel |
| Explanation | Malformed IKE secret specified in configuration. |
| Gateway Action | VPN_tunnel_invalid |
| Recommended Action | Reconfigure_PSK. |
| Revision | 1 |

2.28.119. rule_selection_failed (ID: 01802300)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Rule selection failed: <info>. Internal severity level: <int_severity> |
| Explanation | Rule selection failed!. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | info int_severity |

2.28.120. max_phase1_sa_reached (ID: 01802400)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | The maximum number of active Phase-1 SAs reached |
| Explanation | Maximum number of active Phase-1 SAs reached. |
| Gateway Action | negotiation_aborted |
| Recommended Action | None. |
| Revision | 1 |

2.28.121. max_phase1_negotiations_reached (ID: 01802402)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | The maximum number of active Phase-1 negotiations reached |
| Explanation | Maximum number of active Phase-1 negotiations reached. |
| Gateway Action | negotiation_aborted |
| Recommended Action | None. |
| Revision | 2 |

2.28.122. max_active_quickmode_negotiation_reached (ID: 01802403)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | The maximum number of active Quick-Mode negotiations reached |
| Explanation | Maximum number of active Quick-Mode negotiations reached. |
| Gateway Action | quick-mode_not_done |
| Recommended Action | None. |
| Revision | 1 |

2.28.123. could_not_decode_certificate (ID: 01802600)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Could not decode Certificate to pem format. The certificate may be corrupted or it was given in unrecognized format. |
| Explanation | Could_not_decode_certificate. |
| Gateway Action | certificate_invalid |
| Recommended Action | None. |
| Revision | 1 |

2.28.124. could_not_convert_certificate (ID: 01802601)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Could not convert CMi certificate to X.509 certificate |
| Explanation | Could not convert CMi certificate to X.509 certificate. |
| Gateway Action | certificate_invalid |
| Recommended Action | None. |

| | |
|-----------------|---|
| Revision | 1 |
|-----------------|---|

2.28.125. could_not_get_subject_name_from_ca_cert (ID: 01802602)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Could not get subject name from a CA certificate. This certificate is not usable as an IPsec authenticator, and is not inserted into local list of trusted CAs |
| Explanation | Could not get subject name from a CA certificate. |
| Gateway Action | certificate_not_trusted |
| Recommended Action | None. |
| Revision | 1 |

2.28.126. could_not_set_cert_to_non_CRL_issuer (ID: 01802603)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Could not set CA certificate to non-CRL issuer. This may cause authentication errors if valid CRLs are not available |
| Explanation | Could not set CA certificate to non-CRL issuer. |
| Gateway Action | certificate_not_usable_if_no_valid_CRLs |
| Recommended Action | None. |
| Revision | 1 |

2.28.127. could_not_force_cert_to_be_trusted (ID: 01802604)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Could not force CA certificate as a point of trust |
| Explanation | Could not force CA certificate as a point of trust. |
| Gateway Action | certificate_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.128. could_not_trusted_set_for_cert (ID: 01802605)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Could not set the trusted set for a CA certificate |
| Explanation | Could not set the trusted set for a CA certificate. |
| Gateway Action | certificate_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.129. could_not_insert_cert_to_db (ID: 01802606)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Can not insert CA certificate into local database |
| Explanation | Can not insert CA certificate into local database. |
| Gateway Action | certificate_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.130. could_not_decode_certificate (ID: 01802607)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Could not decode Certificate to pem format. The certificate may be corrupted or it was given in unrecognized format. |
| Explanation | Could_not_decode_certificate. |
| Gateway Action | certificate_invalid |
| Recommended Action | None. |
| Revision | 1 |

2.28.131. could_not_lock_certificate (ID: 01802608)

| | |
|---------------------------|--------------------------------------|
| Default Severity | WARNING |
| Log Message | Could not lock certificate in cache |
| Explanation | Could not lock certificate in cache. |
| Gateway Action | certificate_invalid |
| Recommended Action | None. |

| | |
|-----------------|---|
| Revision | 1 |
|-----------------|---|

2.28.132. could_not_insert_cert_to_db (ID: 01802609)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Could not insert certificate into local database |
| Explanation | Could not insert certificate into local database. |
| Gateway Action | certificate_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.133. could_not_decode_crl (ID: 01802610)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Could not decode CRL. The certificate may be corrupted or it was given in unrecognized format. File format may be wrong |
| Explanation | Could_not_decode_CRL. |
| Gateway Action | certificate_invalid |
| Recommended Action | None. |
| Revision | 1 |

2.28.134. ike_sa_negotiation_completed (ID: 01802703)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | IKE SA: Local IKE peer: <local_peer> Remote IKE peer: <remote_peer> Initiator SPI: <initiator_spi> Responder SPI: <responder_spi>. Internal severity level: <int_severity>. |
| Explanation | Ike SA successfully installed. |
| Gateway Action | ike_sa_completed |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | local_peer remote_peer initiator_spi responder_spi int_severity |

2.28.135. ike_sa_negotiation_completed (ID: 01802704)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | IKE SA: Local IKE peer: <local_peer> Remote IKE peer: <remote_peer>. Internal severity level: <int_severity> |
| Explanation | Ike SA successfully installed. |
| Gateway Action | ike_sa_completed |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | local_peer remote_peer int_severity |

2.28.136. Certificate_contains_bad_IP_address (ID: 01802705)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Certificate contains bad IP address: length=<len> |
| Explanation | Certificate contains bad IP address. |
| Gateway Action | try_next_certificate |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | len |

2.28.137. dn_name_as_subject_alt_name (ID: 01802706)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Directory names are not supported as subject alternative names. Skipping DN: <dn_name> |
| Explanation | Directory specified as subject alternative name. |
| Gateway Action | skip_dn_name |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | dn_name |

2.28.138. could_not_decode_certificate (ID: 01802707)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Could not decode Certificate to pem format. The certificate may be corrupted or it was given in unrecognized format. |
| Explanation | Could_not_decode_certificate. |
| Gateway Action | certificate_invalid |
| Recommended Action | None. |
| Revision | 1 |

2.28.139. ike_sa_destroyed (ID: 01802708)

| | |
|---------------------------|----------------------------|
| Default Severity | INFORMATIONAL |
| Log Message | IKE SA destroyed: <ike_sa> |
| Explanation | Ike SA is destroyed. |
| Gateway Action | ike_sa_killed |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ike_sa |

2.28.140. cfgmode_exchange_event (ID: 01802709)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Event occurred for config mode <cfgmode> exchange: <msg>. Internal severity level: <int_severity> |
| Explanation | Config mode exchange event. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | cfgmode msg int_severity |

2.28.141. remote_access_address (ID: 01802710)

| | |
|-------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Addresses for remote access attributes: <ipaddr> expires time |

| | |
|---------------------------|---|
| | <time> |
| Explanation | Addresses for remote access attributes. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipaddr [time] |

2.28.142. remote_access_dns (ID: 01802711)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | DNS for remote access attributes: <dns_server> |
| Explanation | DNS for remote access attributes. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | dns_server |

2.28.143. remote_access_wins (ID: 01802712)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | WINS for remote access attributes: <win> |
| Explanation | WINS for remote access attributes. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | win |

2.28.144. remote_access_dhcp (ID: 01802713)

| | |
|-------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | DHCP for remote access attributes: <dhcp_s> |
| Explanation | DHCP remote access attributes. |
| Gateway Action | None |

| | |
|---------------------------|--------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | dhcp_s |

2.28.145. remote_access_subnets (ID: 01802714)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Subnets remote access attributes: <subnets> |
| Explanation | Subnets remote access attributes. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | subnets |

2.28.146. event_on_ike_sa (ID: 01802715)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Event: <msg> occurred for IKE SA: <side>. Internal severity level: <int_severity> |
| Explanation | Event occurred at IKE SA. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | side msg int_severity |

2.28.147. ipsec_sa_selection_failed (ID: 01802717)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Selection of IPsec SA failed due to <reason>. Internal severity level: <int_severity> |
| Explanation | Failed to select a SA. |
| Gateway Action | no_ipsec_sa_selected |
| Recommended Action | None. |

| | |
|-------------------|------------------------|
| Revision | 2 |
| Parameters | reason int_severity |

2.28.148. certificate_search_failed (ID: 01802718)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Certificate manager search failure: <reason>. Internal severity level: <int_severity> |
| Explanation | Search for matching certificate failed. |
| Gateway Action | certificate_failure |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason int_severity |

2.28.149. ipsec_sa_event (ID: 01802730)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | IPsec SA negotiation event: <msg>, <local_proxy>, <remote_proxy>. Internal severity level: <int_severity> |
| Explanation | Event occurred for IPsec SA. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | msg local_proxy remote_proxy int_severity |

2.28.150. ipsec_sa_event (ID: 01802731)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | IPsec SA negotiation event: <msg>. Internal severity level: <int_severity> |
| Explanation | Event occurred for IPsec SA. |
| Gateway Action | None |

| | |
|---------------------------|---------------------|
| Recommended Action | None. |
| Revision | 2 |
| Parameters | msg int_severity |

2.28.151. ipsec_sa_destroyed (ID: 01802732)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | IPsec SA destroyed: Inbound SPI: <spiin> Outbound SPI: <spiout> |
| Explanation | IPsec SA have been destroyed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | spiin spiout |

2.28.152. (ID: 01802735)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | L2TP <side> negotiation event: <msg>. <local_peer>, <remote_peer>. Internal severity level: <int_severity> |
| Explanation | L2TP negotiation event. |
| Gateway Action | l2tp_negotiation_event |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | side msg local_peer remote_peer int_severity |

2.28.153. (ID: 01802736)

| | |
|-------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | L2TP <side> negotiation event: <msg>. <local_id>, <remote_id>. Internal severity level: <int_severity> |
| Explanation | L2TP negotiation event. |

| | |
|---------------------------|--|
| Gateway Action | l2tp_negotiation_event |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | side msg local_id remote_id int_severity |

2.28.154. outofmem_create_engine (ID: 01802901)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Failed to allocate memory for engine object |
| Explanation | Could not allocate memory for engine object. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.155. init_rulelookup_failed (ID: 01802903)

| | |
|---------------------------|---------------------------------------|
| Default Severity | CRITICAL |
| Log Message | Initialization of rule lookup failed |
| Explanation | Initialization of rule lookup failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.156. init_rule_lookup_failed (ID: 01802904)

| | |
|---------------------------|---------------------------------------|
| Default Severity | CRITICAL |
| Log Message | Allocating default drop rule failed! |
| Explanation | Allocating default drop rule failed!. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.157. init_rule_lookup_failed (ID: 01802905)

| | |
|---------------------------|---------------------------------------|
| Default Severity | CRITICAL |
| Log Message | allocating default pass rule failed! |
| Explanation | Allocating default pass rule failed!. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.158. init_mutexes_failed (ID: 01802906)

| | |
|---------------------------|----------------------------|
| Default Severity | CRITICAL |
| Log Message | Allocating mutexes failed |
| Explanation | Allocating mutexes failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.159. init_interface_table_failed (ID: 01802907)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Initialization of interface table failed |
| Explanation | Initialization of interface table failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.160. init_flow_id_table_failed (ID: 01802908)

| | |
|-------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Allocation of flow id hash tables failed |
| Explanation | Allocation of flow id hash tables failed. |
| Gateway Action | ipsec_disabled |

| | |
|---------------------------|-------|
| Recommended Action | None. |
| Revision | 1 |

2.28.161. init_flow_table_failed (ID: 01802909)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Allocation of flow table failed (size <size>) |
| Explanation | Allocation of flow table failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | size |

2.28.162. init_next_hop_table_failed (ID: 01802910)

| | |
|---------------------------|--------------------------------------|
| Default Severity | CRITICAL |
| Log Message | Allocation of next hop table failed |
| Explanation | Allocation of next hop table failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.163. init_transform_table_failed (ID: 01802911)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Allocation of transform table failed (size <size>) |
| Explanation | Allocation of transform table failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | size |

2.28.164. init_peer_hash_failed (ID: 01802912)

| | |
|---------------------------|---------------------------------------|
| Default Severity | CRITICAL |
| Log Message | Allocation of peer hash table failed |
| Explanation | Allocation of peer hash table failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.165. init_peer_id_hash_failed (ID: 01802913)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Allocation of peer id hash table failed |
| Explanation | Allocation of peer id hash table failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.166. init_rule_table_failed (ID: 01802914)

| | |
|---------------------------|----------------------------------|
| Default Severity | CRITICAL |
| Log Message | Allocation of rule table failed |
| Explanation | Allocation of rule table failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.167. init_inbound_spi_hash_failed (ID: 01802915)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Allocation of inbound spi hash table failed |
| Explanation | Allocation of inbound spi hash table failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.168. init_transform_context_hash_failed (ID: 01802916)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Allocation of transform context hash table failed |
| Explanation | Allocation of transform context hash table failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.169. init_packet_context_cache_failed (ID: 01802917)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Allocation of packet context cache failed |
| Explanation | Allocation of packet context cache failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.170. init_transform_context_table_failed (ID: 01802918)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Allocation of transform context table failed |
| Explanation | Allocation of transform context table failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.171. init_nat_table_failed (ID: 01802919)

| | |
|-------------------------|----------------------------------|
| Default Severity | CRITICAL |
| Log Message | Allocation of NAT tables failed |
| Explanation | Allocation of NAT tables failed. |
| Gateway Action | ipsec_disabled |

| | |
|---------------------------|-------|
| Recommended Action | None. |
| Revision | 1 |

2.28.172. init_frag_table_failed (ID: 01802920)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Allocation of fragmentation tables failed |
| Explanation | Allocation of fragmentation tables failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.173. init_engine_tables_failed (ID: 01802921)

| | |
|---------------------------|-------------------------------------|
| Default Severity | CRITICAL |
| Log Message | Allocation of engine tables failed |
| Explanation | Allocation of engine tables failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.174. init_interceptor_failed (ID: 01802922)

| | |
|---------------------------|---------------------------------|
| Default Severity | CRITICAL |
| Log Message | Opening the interceptor failed |
| Explanation | Opening the interceptor failed. |
| Gateway Action | ipsec_disabled |
| Recommended Action | None. |
| Revision | 1 |

2.28.175. malformed_ike_sa_proposal (ID: 01803000)

| | |
|-------------------------|-------------------------------------|
| Default Severity | WARNING |
| Log Message | Malformed IKE SA proposal: <reason> |

| | |
|---------------------------|---------------------------------------|
| Explanation | Received a malformed IKE SA proposal. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.28.176. failed_to_select_policy_rule (ID: 01803001)

| | |
|---------------------------|-------------------------------|
| Default Severity | INFORMATIONAL |
| Log Message | Could not select policy rule |
| Explanation | Could not select policy rule. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.177. failed_to_select_ike_sa (ID: 01803002)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Could not select SA from IKE SA proposal |
| Explanation | Could not select SA from IKE SA proposal. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.178. ike_phase1_notification (ID: 01803003)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | <status> Phase-1 notification from <remote_peer> for protocol <proto>, SPI <spi>: <msg> (<type>) (<size> bytes) |
| Explanation | Received a IKE Phase-2 notification. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | status |

remote_peer
 proto
 spi
 msg
 type
 size

2.28.179. flow_cleanup_postponed (ID: 01803005)

| | |
|---------------------------|--|
| Default Severity | DEBUG |
| Log Message | Too many flows aged, more than <flows_invalidated> flows invalidated |
| Explanation | There where to many flows to invalidate at this time. |
| Gateway Action | invalidation_deferred |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | flows_invalidated |

2.28.180. ipsec_sa_failed (ID: 01803020)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | IPsec SA negotiation failed: <statusmsg> |
| Explanation | Negotiation of IPsec SA failed. |
| Gateway Action | no_ipsec_sa |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | statusmsg |

2.28.181. ipsec_sa_statistics (ID: 01803021)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | IPsec SA negotiations: <done> done, <success> successful, <failed> failed |
| Explanation | IPsec SA statistics. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

| | |
|-------------------|---------------------------|
| Parameters | done success failed |
|-------------------|---------------------------|

2.28.182. config_mode_exchange_event (ID: 01803022)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Config Mode exchange event: <msg>. <reason>. |
| Explanation | A Config Mode exchange event occurred. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | msg reason |

2.28.183. config_mode_exchange_event (ID: 01803023)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Config Mode exchange event: <msg>. |
| Explanation | A Config Mode exchange event occurred. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | msg |

2.28.184. xauth_exchange_done (ID: 01803024)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | XAuth exchange done: <statusmsg> |
| Explanation | Information about the result of a completed XAuth exchange. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | statusmsg |

2.28.185. config_mode_exchange_event (ID: 01803025)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Config Mode exchange event: <msg>. <reason>. |
| Explanation | A Config Mode exchange event occurred. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | msg reason |

2.28.186. config_mode_exchange_event (ID: 01803026)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Config Mode exchange event: <msg>. |
| Explanation | A Config Mode exchange event occurred. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | msg |

2.28.187. rejecting_ipsec_sa_delete (ID: 01803027)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Rejecting IPsec SA delete notification from <remote_peer> since it was for protocol <proto> |
| Explanation | Rejected IPsec SA delete notification due to protocol mismatch. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | remote_peer proto |

2.28.188. rejecting_ipsec_sa_delete (ID: 01803028)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Rejecting IPsec SA delete notification from <remote_peer> since the SPI size <spi_size> does not match the expected value 4 |
| Explanation | Rejected IPsec SA delete notification because the SPI size did not match the expected value 4. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | remote_peer spi_size |

2.28.189. ike_phase2_notification (ID: 01803029)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | <status> Phase-2 notification from <remote_peer> for protocol <proto>, SPI <spi>: <msg> (<type>) (<size> bytes) |
| Explanation | Received a IKE Phase-2 notification. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | status remote_peer proto spi msg type size |

2.28.190. ike_qm_notification (ID: 01803030)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Quick-Mode notification from <remote_peer> for protocol <proto>, SPI <spi>: <msg> (<type>) (<size> bytes) |
| Explanation | Received a IKE Quick-Mode notification. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | remote_peer |

proto
spi
msg
type
size

2.28.191. failed_to_verify_peer_identity (ID: 01803040)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Could not verify remote peer's identity |
| Explanation | Could not verify remote peer's identity. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.192. malformed_ipsec_sa_proposal (ID: 01803050)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Malformed IPsec SA proposal: <reason> |
| Explanation | Received a malformed IPsec SA proposal. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.28.193. malformed_ipsec_esp_proposal (ID: 01803051)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Malformed IPsec ESP proposal: <reason> |
| Explanation | Received a malformed IPsec ESP proposal. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.28.194. malformed_ipsec_ah_proposal (ID: 01803052)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Malformed IPsec AH proposal: <reason> |
| Explanation | Received a malformed IPsec AH proposal. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.28.195. failed_to_select_ipsec_proposal (ID: 01803053)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Could not select proposal for IPsec SA <sa_index> |
| Explanation | Could not select proposal for IPsec SA. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | sa_index |

2.28.196. failed_to_select_ipsec_sa (ID: 01803054)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Could not select SA from IPsec SA proposal |
| Explanation | Could not select SA from IPsec SA proposal. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.28.197. ike_responder_mode_not_available (ID: 01803101)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | Negotiation aborted due to license restrictions: IKE responder mode not available. |
| Explanation | A negotiation was aborted because it was not initiated by the correct side in accordance with license restrictions. |

| | |
|---------------------------|-------------------------|
| Gateway Action | ike_negotiation_aborted |
| Recommended Action | None. |
| Revision | 1 |

2.28.198. audit_event (ID: 01803200)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | An audit event occurred: <msg>. Internal severity level: <int_severity> |
| Explanation | An audit event occurred in the IPsec stack. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | msg int_severity |

2.28.199. modexp_accel_failed (ID: 01803400)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Hardware acceleration of modexp calculation failed due to <msg>. |
| Explanation | The failed calculation will be made in software instead. Hardware acceleration can fail due to valid reasons like a full request queue. A lot of these logs during a short timeframe could indicate issues with hardware acceleration. |
| Gateway Action | None |
| Recommended Action | Verify that the gateway is not in a overloaded state. If it's not overloaded and a lot of these logs is generated, contact the support and report this issue. |
| Revision | 1 |
| Parameters | msg |

2.28.200. rsa-crt_accel_failed (ID: 01803401)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | Hardware acceleration of RSA-CRT calculation failed. <msg> |
| Explanation | The failed calculation will be made in software instead. Hardware acceleration can fail due to valid reasons like a full request queue. A lot of these logs during a short timeframe could indicate issues with |

| | |
|---------------------------|---|
| | hardware acceleration. |
| Gateway Action | None |
| Recommended Action | Verify that the gateway is not in a overloaded state. If it's not overloaded and a lot of these logs is generated, contact the support and report this issue. |
| Revision | 1 |
| Parameters | msg |

2.28.201. ipsec_hwaccel_failed (ID: 01803410)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Failed to create a hardware acceleration context for IPsec SA (<dir> SPI <spi>). <error_msg> Packets will be processed in software. |
| Explanation | Hardware acceleration of the IPsec SA couldn't be done. All packets belonging to the specified SA will be processed in software. |
| Gateway Action | None |
| Recommended Action | Verify that the crypto suites are supported by the hardware accelerator. Contact support and report this issue if a supported crypto suite is configured. |
| Revision | 1 |
| Parameters | dir spi error_msg |

2.28.202. ike_aggressive_mode_not_allowed (ID: 01804000)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Aborting forbidden Aggressive Mode negotiation Local IKE peer: <local_peer> Remote IKE peer: <remote_peer> Initiator Cookie: <initiator_cookie>. Source Interface: <source_interface> |
| Explanation | A negotiation was aborted because selected tunnel only accepting Main Mode negotiations. |
| Gateway Action | ike_negotiation_aborted |
| Recommended Action | Sending NO_PROPOSAL_CHOSEN. |
| Revision | 1 |
| Parameters | local_peer remote_peer initiator_cookie source_interface |

2.29. IPV6_ND

These log messages refer to the **IPV6_ND (Neighbor Discovery events)** category.

2.29.1. neighbor_discovery_resolution_failed (ID: 06400009)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor Discovery resolution failed |
| Explanation | Neighbor Discovery query was not resolved before the cache entry expired. |
| Gateway Action | remove_entry |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipaddr iface |

2.29.2. nd_resolution_success (ID: 06400020)

| | |
|---------------------------|-------------------------------------|
| Default Severity | NOTICE |
| Log Message | ND entry was added to the ND cache. |
| Explanation | ND entry was added to the ND cache. |
| Gateway Action | added_entry |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | enetaddr ipaddr iface |

2.29.3. nd_spoofed_option_address (ID: 06400028)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | ND HW sender address matches our own address, but the option address does not. Dropping packet. |
| Explanation | The Neighbor Discovery packet Ethernet sender address appears to be our own, but the Link Layer option address does not. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |

| | |
|---------------------------|----------------------------|
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.4. nd_spoofer_hw_sender (ID: 06400029)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | ND HW sender address matches our own address. Dropping packet. |
| Explanation | The Neighbor Discovery packet Ethernet sender address appears to be our own. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.5. neighbor_discovery_cache_size_limit_reached (ID: 06400030)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Neighbor Discovery cache size limit reached |
| Explanation | The Neighbor Discovery cache size limit has been reached. Current license limit is [limit]. |
| Gateway Action | None |
| Recommended Action | Update your license to allow a greater amount of concurrent Neighbor Discovery entries. |
| Revision | 1 |
| Parameters | limit |

2.29.6. nd_option_hw_address_multicast (ID: 06400031)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | ND Link Layer option contains Enet multicast address. Dropping packet. |
| Explanation | The Neighbor Discovery packet Link Layer option contains an Ethernet multicast address. Dropping packet. |
| Gateway Action | drop |

| | |
|---------------------------|---|
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.7. nd_option_hw_address_mismatch (ID: 06400032)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | ND Link Layer option Enet sender mismatch. Dropping packet. |
| Explanation | The Neighbor Discovery packet Link Layer option does not match HW sender. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.8. nd_option_hw_address_mismatch (ID: 06400033)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | ND Link Layer option Enet sender mismatch. Dropping packet. |
| Explanation | The Neighbor Discovery packet Link Layer option does not match HW sender. Allowing packet. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.9. nd_duplicated_option (ID: 06400034)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | The same ND option appears more than once in the same packet. Dropping |
| Explanation | The Neighbor Discovery packet Link Layer Address Source appears more than once in the same packet. Dropping packet. |
| Gateway Action | drop |

| | |
|---------------------------|---|
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.10. nd_duplicated_option (ID: 06400035)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | The same ND option appears more than once in the same packet. Dropping packet. |
| Explanation | The Neighbor Discovery packet Link Layer Address Target appears more than once in the same packet. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.11. nd_illegal_lladdress_option_size (ID: 06400036)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Illegal option size. Dropping |
| Explanation | The Neighbor Discovery packet option size is illegal. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.12. nd_illegal_lladdress_option_size (ID: 06400037)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Illegal option size. Dropping |
| Explanation | The Neighbor Discovery packet option size is illegal. Dropping packet. |
| Gateway Action | drop |

| | |
|---------------------------|---|
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.13. nd_illegal_prefix_info_option_size (ID: 06400038)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Illegal option size. Dropping |
| Explanation | The Neighbor Discovery packet option size is illegal. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.14. nd_illegal_redirect_option_size (ID: 06400039)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Illegal option size. Dropping |
| Explanation | The Neighbor Discovery packet option size is illegal. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.15. nd_illegal_mtu_option_size (ID: 06400040)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Illegal option size. Dropping |
| Explanation | The Neighbor Discovery packet option size is illegal. Dropping packet. |
| Gateway Action | drop |

| | |
|---------------------------|---|
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.16. nd_zero_size_option (ID: 06400041)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Illegal option size. Dropping |
| Explanation | The Neighbor Discovery packet option size is zero. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.17. nd_option_truncated (ID: 06400042)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor Discovery packet truncated at ND option. Dropping |
| Explanation | The Neighbor Discovery packet is truncated at ND option. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.18. nd_packet_truncated (ID: 06400043)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor Discovery packet truncated at L4 header. Dropping |
| Explanation | The Neighbor Discovery packet is truncated at L4 header. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |

| | |
|---------------------------|----------------------------|
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.19. nd_unknown_icmp_code (ID: 06400044)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Unsupported ICMP code. Dropping |
| Explanation | The Neighbor Discovery packet ICMP code is unknown. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.20. nd_spoofed_target (ID: 06400045)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor Advertisement Target IP <targetip> is my address, but Ethernet address <targetenet> is not. Dropping |
| Explanation | The Neighbor Advertisement packet target IP address matches that of the receiving interface, but the target link layer address does not. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Parameters | targetip targetenet |
| Context Parameters | Rule Name Packet Buffer |

2.29.21. nd_spoofed_sender (ID: 06400046)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Sender IP <senderip> is my address. Dropping |
| Explanation | The Neighbor Discovery packet sender IP address matches that of the receiving interface. Dropping packet. |

| | |
|---------------------------|---|
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Parameters | senderip |
| Context Parameters | Rule Name Packet Buffer |

2.29.22. nd_hoplimit_reached (ID: 06400047)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor Discovery packet from <senderip> appears to have been routed. Dropping |
| Explanation | The Neighbor Discovery packet IP header contains a Hop Limit smaller than 255. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Parameters | senderip |
| Context Parameters | Rule Name Packet Buffer |

2.29.23. nd_multicast_target_address (ID: 06400048)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor Discovery target address <targetip> is multicast. Dropping |
| Explanation | The Neighbor Discovery target IP address is a multicast address, this is illegal according to RFC4861. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Parameters | targetip |
| Context Parameters | Rule Name Packet Buffer |

2.29.24. invalid_nd_sender_ip_address (ID: 06400049)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Failed to verify Neighbor Discovery sender IP address. Dropping |
| Explanation | The Neighbor Discovery sender IP address could not be verified according to the "access" section, and the packet is dropped. |
| Gateway Action | drop |
| Recommended Action | If all Neighbor Discovery sender IP addresses should be accepted without validation, modify the configuration. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.25. nd_access_allowed_expect (ID: 06400050)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Allowed by expect rule in access section |
| Explanation | The Neighbor Discovery sender IP address is verified by an expect rule in the access section. |
| Gateway Action | access_allow |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.26. nd_na_send_failure (ID: 06400051)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Failed to send Neighbor Advertisement packet. |
| Explanation | The system received a Neighbor Solicitation for one of its addresses but failed to reply with a Neighbor Advertisement packet. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |

2.29.27. nd_unknown_sender (ID: 06400052)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | Sender IP <senderip> is the Unknown Address. Dropping packet. |
| Explanation | The Neighbor Advertisement packet sender IP address matches that of the Unknown Address (::). Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Parameters | senderip |
| Context Parameters | Rule Name Packet Buffer |

2.29.28. nd_missing_tll_opt (ID: 06400053)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor Advertisement from <senderip> without target link-layer option. Dropping packet. |
| Explanation | The Neighbor Advertisement packet is missing the Target Link-Layer option. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Parameters | senderip |
| Context Parameters | Rule Name Packet Buffer |

2.29.29. nd_spoofed_dpd_reply (ID: 06400054)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Dead peer probe reply HW address <targetenet> does not match the cached address <cachedenet>. Dropping packet. |
| Explanation | The dead peer probe reply packet target HW address does not match the cached address. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Parameters | cachedenet targetenet |
| Context Parameters | Rule Name |

Packet Buffer

2.29.30. nd_mcast_dpd_reply (ID: 06400055)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Dead peer probe answered with multicast message. Dropping packet. |
| Explanation | The dead peer probe reply packet destination IP is a multicast address. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.31. nd_advert_for_static_entry (ID: 06400056)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor Advertisement for static entry hw address <cachedenet>, advertised as <targetenet>. Dropping packet. |
| Explanation | A Neighbor Advertisement for a configured static entry was received. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Parameters | cachedenet targetenet |
| Context Parameters | Rule Name Packet Buffer |

2.29.32. nd_blatant_advertisement (ID: 06400057)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Forged Neighbor Advertisement claiming cached enet address <cachedenet> should be <targetenet>. Dropping packet. |
| Explanation | An unsolicited Neighbor Advertisement claiming to be solicited was received. Dropping packet. |
| Gateway Action | drop |

| | |
|---------------------------|---|
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Parameters | cachedenet targetenet |
| Context Parameters | Rule Name Packet Buffer |

2.29.33. nd_updated_entry (ID: 06400058)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | ND cache entry <ipaddress> updated from <oldenet> to <newenet>. |
| Explanation | A Neighbor Advertisement updated an entry in the Neighbor Discovery cache. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipaddress oldenet newenet |
| Context Parameters | Rule Name Packet Buffer |

2.29.34. nd_update_entry_request (ID: 06400059)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | ND cache entry <ipaddress> update from <oldenet> to <newenet> request. DPD old address. |
| Explanation | A Neighbor Advertisement requests updating an entry in the Neighbor Discovery cache. Performing Dead Peer Detection before allowing changes. |
| Gateway Action | dpd_old_entry |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipaddress oldenet newenet |
| Context Parameters | Rule Name Packet Buffer |

2.29.35. nd_update_entry_request (ID: 06400060)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | ND cache entry <ipaddress> update from <oldenet> to <newenet> request. Dropping packet. |
| Explanation | A Neighbor Advertisement requests updating an entry in the Neighbor Discovery cache. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipaddress oldenet newenet |
| Context Parameters | Rule Name Packet Buffer |

2.29.36. nd_broadcast_enet (ID: 06400061)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor Discovery packet ethernet destination is broadcast. Dropping |
| Explanation | The Neighbor Discovery packet ethernet destination is broadcast. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.37. nd_dad_probe_unicast_dest (ID: 06400062)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Duplicate address probe with unicast destination address from <sendermac>. Dropping packet. |
| Explanation | The Neighbor Solicitation Duplicate Address Probe packet destination IP address is not a multicast address. Dropping packet. |
| Gateway Action | drop |

| | |
|---------------------------|---|
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Parameters | sendermac |
| Context Parameters | Rule Name Packet Buffer |

2.29.38. nd_rs_unicast_target (ID: 06400063)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Router Solicitation destination address <destip> isn't multicast. Dropping |
| Explanation | The Router Solicitation destination IP address isn't a multicast address, this is illegal according to RFC4861. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Parameters | destip |
| Context Parameters | Rule Name Packet Buffer |

2.29.39. nd_rs_illegal_option (ID: 06400064)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Router Solicitation packet contains an illegal option. Dropping |
| Explanation | The Router Solicitation packet contains a source link layer address option, this is illegal according to RFC4861. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.40. nd_ns_illegal_option (ID: 06400065)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor Solicitation packet contains an illegal option. Dropping |

| | |
|---------------------------|--|
| Explanation | The Neighbor Solicitation packet contains a source link layer address option, this is illegal according to RFC4861. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.29.41. nd_updated_entry (ID: 06400066)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | ND cache entry <ipaddress> updated from <oldenet> to <newenet>. |
| Explanation | A Neighbor Solicitation updated an entry in the Neighbor Discovery cache. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipaddress oldenet newenet |
| Context Parameters | Rule Name Packet Buffer |

2.29.42. nd_update_entry_request (ID: 06400067)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | ND cache entry <ipaddress> update from <oldenet> to <newenet> request. DPD old address. |
| Explanation | A Neighbor Solicitation requests updating an entry in the Neighbor Discovery cache. Performing Dead Peer Detection before allowing changes. |
| Gateway Action | dpd_old_entry |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipaddress oldenet newenet |
| Context Parameters | Rule Name |

Packet Buffer

2.29.43. nd_update_entry_request (ID: 06400068)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | ND cache entry <ipaddress> update from <oldenet> to <newenet> request. Dropping packet. |
| Explanation | A Neighbor Solicitation requests updating an entry in the Neighbor Discovery cache. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipaddress oldenet newenet |
| Context Parameters | Rule Name Packet Buffer |

2.29.44. nd_sol_multicast_dest_address (ID: 06400069)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Neighbor Discovery destination address <destip> is multicast but the solicited flag is set. Dropping |
| Explanation | The Neighbor Discovery destination IP address is a multicast address but the solicited flag is set, this is illegal according to RFC4861. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Parameters | destip |
| Context Parameters | Rule Name Packet Buffer |

2.29.45. nd_dad_probe_faulty_dest (ID: 06400070)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Duplicate address probe with faulty destination address from <sendermac>. Dropping packet. |

| | |
|---------------------------|---|
| Explanation | The Neighbor Solicitation Duplicate Address Probe packet destination IP address is not a solicited node multicast address. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Parameters | sendermac |
| Context Parameters | Rule Name Packet Buffer |

2.29.46. nd_dupe_addr_detected (ID: 06400071)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Conflicting duplicate address probe received on <iface>. IPv6 disabled. |
| Explanation | The link-local EUI64-generated [iface] address is already occupied by another host in the network. Resolve the address conflict by changing the ethernet address on the interface or on the conflicting host. IPv6 disabled. |
| Gateway Action | IPv6_Disabled |
| Recommended Action | Resolve the address conflict. |
| Revision | 1 |
| Parameters | iface |
| Context Parameters | Rule Name Packet Buffer |

2.29.47. nd_dupe_addr_detected (ID: 06400072)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Duplicate address reply received on <iface>. IPv6 disabled. |
| Explanation | The link-local EUI64-generated [iface] address is already occupied by another host in the network. Resolve the address conflict by changing the ethernet address on the interface or on the conflicting host. IPv6 disabled. |
| Gateway Action | IPv6_Disabled |
| Recommended Action | Resolve the address conflict. |
| Revision | 1 |
| Parameters | iface |

| | |
|---------------------------|----------------------------|
| Context Parameters | Rule Name Packet Buffer |
|---------------------------|----------------------------|

2.29.48. more_ndoptcount (ID: 06400073)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Number of options more than ICMP6MaxOptND - <optcount> |
| Explanation | Received a packet with number of options more than ICMP6MaxOptND. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | optcount |
| Context Parameters | Rule Name |

2.29.49. more_ndoptcount (ID: 06400074)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Number of options more than ICMP6MaxOptND - <optcount> |
| Explanation | Received a packet with number of options more than ICMP6MaxOptND. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | optcount |
| Context Parameters | Rule Name |

2.30. IP_ERROR

These log messages refer to the **IP_ERROR (Packet discarded due to IP header error(s))** category.

2.30.1. too_small_packet (ID: 01500001)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Packet is too small to contain IPv4 header |
| Explanation | The received packet is too small to contain an IPv4 header, and will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.30.2. disallowed_ip_ver (ID: 01500002)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Disallowed IP version <ipver> |
| Explanation | The received packet has a disallowed IP version, and will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | ipver |
| Context Parameters | Rule Name Packet Buffer |

2.30.3. invalid_ip_length (ID: 01500003)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Invalid IP header length - IPTotLen=<iptotlen>, IPHdrLen=<iphdrLen> |
| Explanation | The received packet IP header specifies an invalid length. The IP Header length can never be smaller than 20 bytes or longer than the total packet length. Dropping packet. |

| | |
|---------------------------|----------------------------|
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iptotlen iphdrln |
| Context Parameters | Rule Name Packet Buffer |

2.30.4. invalid_ip_length (ID: 01500004)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Invalid IP header length, IPTotLen=<iptotlen>, RecvLen=<recvlen> |
| Explanation | The received packet IP total length is larger than the received transport data. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iptotlen recvlen |
| Context Parameters | Rule Name Packet Buffer |

2.30.5. invalid_ip_checksum (ID: 01500005)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Invalid IP header checksum - RecvChkSum=<recvchksum>, CompChkSum=<compchksum> |
| Explanation | The received packet IP header checksum is invalid, dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | recvchksum compchksum |
| Context Parameters | Rule Name Packet Buffer |

2.30.6. Invalid_ip6_flow (ID: 01500020)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Invalid flow label value |
| Explanation | The received packet with flow label other than zero. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | flow_label |
| Context Parameters | Rule Name Packet Buffer |

2.30.7. Invalid_ip6_flow (ID: 01500021)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Invalid flow label value |
| Explanation | The received packet with flow label other than zero. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | flow_label |
| Context Parameters | Rule Name Packet Buffer |

2.30.8. Invalid_ip6_tc (ID: 01500022)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Invalid traffic class value |
| Explanation | The received packet with traffic class other than zero. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | traffic_class |
| Context Parameters | Rule Name Packet Buffer |

2.30.9. Invalid_ip6_tc (ID: 01500023)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Invalid traffic class value |
| Explanation | The received packet with traffic class other than zero. |
| Gateway Action | strip |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | traffic_class |
| Context Parameters | Rule Name Packet Buffer |

2.30.10. Invalid_ip6_tc (ID: 01500024)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Invalid traffic class value |
| Explanation | The received packet with traffic class other than zero. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | traffic_class |
| Context Parameters | Rule Name Packet Buffer |

2.30.11. faulty_payload (ID: 01500025)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Packet actual payload size <ipactpaylen> does not match IPv6 header payload size <ippaylen>. |
| Explanation | The received packet IPv6 header payload size is faulty, and will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ippaylen |

| | |
|---------------------------|----------------------------|
| | ipactpaylen |
| Context Parameters | Rule Name Packet Buffer |

2.30.12. too_small_packet (ID: 01500026)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Packet is too small to contain IPv6 header |
| Explanation | The received packet is too small to contain an IPv6 header, and will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.31. IP_FLAG

These log messages refer to the **IP_FLAG (Events concerning the IP header flags)** category.

2.31.1. ttl_low (ID: 01600001)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received packet with too low TTL of <ttl>. Min TTL is <ttlmin>. Ignoring |
| Explanation | The received packet has a TTL (Time-To-Live) field which is too low. Ignoring and forwarding packet anyway. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ttl ttlmin |
| Context Parameters | Rule Name Packet Buffer |

2.31.2. ip_rsv_flag_set (ID: 01600002)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | The IP Reserved Flag was set. Ignoring |
| Explanation | The received packet has the IP Reserved Flag set. This is ignored. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.31.3. ip_rsv_flag_set (ID: 01600003)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | The IP Reserved Flag was set, stripping |
| Explanation | The received packet has the IP Reserved Flag set. Removing it. |
| Gateway Action | strip_flag |
| Recommended Action | None. |

| | |
|---------------------------|----------------------------|
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.31.4. hop_limit_low (ID: 01600004)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received packet with too low HopLimit of <hoplimit>. Min HopLimit is <hoplimitmin>. Ignoring |
| Explanation | The received packet has a HopLimit field which is too low. Ignoring and forwarding packet anyway. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | hoplimit hoplimitmin |
| Context Parameters | Rule Name Packet Buffer |

2.32. IP_OPT

These log messages refer to the **IP_OPT (Events concerning the IP header options)** category.

2.32.1. source_route (ID: 01700001)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Packet has a source route |
| Explanation | The packet has a source route. Ignoring. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.32.2. timestamp (ID: 01700002)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Packet has a timestamp IP Option |
| Explanation | The packet contains a timestamp IP Option. Ignoring. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.32.3. router_alert (ID: 01700003)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Packet has a router alert IP option |
| Explanation | The packet contains a router alert IP Option. Ignoring. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.32.4. ipopt_present (ID: 01700004)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | IP Option <ipopt><optname> is present |
| Explanation | The packet contains an IP Option. Ignoring. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipopt optname |
| Context Parameters | Rule Name Packet Buffer |

2.32.5. ipoptlen_too_small (ID: 01700010)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Type <ipopt> is multibyte, available <avail>. Dropping |
| Explanation | The IP Option type is multi byte which requires two bytes, and there is less than two bytes available. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipopt minoptlen avail |
| Context Parameters | Rule Name Packet Buffer |

2.32.6. ipoptlen_invalid (ID: 01700011)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Type <ipopt> claims len=<optlen>, available=<avail>. Dropping |
| Explanation | The IP Option type does not fit in the option space. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |

| | |
|---------------------------|----------------------------|
| Revision | 1 |
| Parameters | ipopt optlen avail |
| Context Parameters | Rule Name Packet Buffer |

2.32.7. multiple_ip_option_routes (ID: 01700012)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Multiple source/return routes in IP options. Dropping |
| Explanation | There are multiple source/return routes specified among the IP Options. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.32.8. bad_length (ID: 01700013)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | IP Option Type <ipopt>: Bad length <optlen> for <route> Route. Dropping |
| Explanation | An invalid length is specified for the IP Option type. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipopt optlen route |
| Context Parameters | Rule Name Packet Buffer |

2.32.9. bad_route_pointer (ID: 01700014)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|---|
| Log Message | IP Option Type <ipopt>: Bad Source Route Pointer <routeptr>. Dropping |
| Explanation | The packet has a Source Route Pointer, which is invalid. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipopt routeptr |
| Context Parameters | Rule Name Packet Buffer |

2.32.10. source_route_disallowed (ID: 01700015)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Source route IP option disallowed. Dropping |
| Explanation | The packet has a source route, which is disallowed. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.32.11. multiple_ip_option_timestamps (ID: 01700016)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Multiple timestamps in IP options. Dropping |
| Explanation | The packet contains mutliple timestamps in IP Options. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.32.12. bad_timestamp_len (ID: 01700017)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | IP Option Type <ipopt>: Bad length <optlen>. Dropping |
| Explanation | The packet contains an IP Option, which has an invalid length. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipopt optlen |
| Context Parameters | Rule Name Packet Buffer |

2.32.13. bad_timestamp_pointer (ID: 01700018)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | IP Option Type <ipopt>: Bad Timestamp Pointer <tsptr>. Dropping |
| Explanation | The packet contains an invalid Timestamp Pointer. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipopt tsptr |
| Context Parameters | Rule Name Packet Buffer |

2.32.14. bad_timestamp_pointer (ID: 01700019)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | IP Option Type <ipopt>: Bad Timestamp Pointer <tsptr> with overflow <oflo>. Dropping |
| Explanation | The packet contains an invalid Timestamp Pointer, with Overflow. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipopt |

| | |
|---------------------------|----------------------------|
| | tsptr oflo |
| Context Parameters | Rule Name Packet Buffer |

2.32.15. timestamp_disallowed (ID: 01700020)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Timestamp IP option disallowed. Dropping |
| Explanation | The packet contains a timestamp IP Option, which is disallowed. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.32.16. router_alert_bad_len (ID: 01700021)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | IP Option Type <ipopt>: Bad length <optlen>. Dropping |
| Explanation | Packet contains a router alert IP Option, which has an invalid Length. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipopt optlen |
| Context Parameters | Rule Name Packet Buffer |

2.32.17. router_alert_disallowed (ID: 01700022)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Router Alert IP Option disallowed. Dropping |
| Explanation | The packet contains a timestamp IP Option, which is disallowed. Dropping packet. |

| | |
|---------------------------|----------------------------|
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.32.18. ipopt_present_disallowed (ID: 01700023)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | IP Option <ipopt><optname> is present. Dropping |
| Explanation | The packet contains an IP Option, which is disallowed. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipopt optname |
| Context Parameters | Rule Name Packet Buffer |

2.32.19. invalid_ip6payload_for_jumbo (ID: 01700039)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Non zero ip6 payload length for jumbo option |
| Explanation | Received a non zero ip6 payload length jumbo option packet. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.20. small_payload (ID: 01700040)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Jumbo option packet with a payload less than 65535 |
| Explanation | Received a jumbo option packet with a payload less than 65535. |

| | |
|---------------------------|-----------|
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.21. small_payload (ID: 01700041)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Jumbo option packet with a payload less than 65535 |
| Explanation | Received a jumbo option packet with a payload less than 65535. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.22. invalid_ip6payload_for_jumbo (ID: 01700042)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Non zero ip6 payload length for jumbo option |
| Explanation | Received a non zero ip6 payload length jumbo option packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.23. recvd_jumbo (ID: 01700043)

| | |
|---------------------------|---------------------------------|
| Default Severity | WARNING |
| Log Message | Received a jumbo option packet |
| Explanation | Received a jumbo option packet. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |

| | |
|---------------------------|-----------|
| Context Parameters | Rule Name |
|---------------------------|-----------|

2.32.24. invalid_order (ID: 01700044)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Invalid Jumbogram packet option other than in hop by hop header |
| Explanation | Received a Jumbogram packet other than in hop by hop header. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.25. recvd_jumbo (ID: 01700045)

| | |
|---------------------------|---------------------------------|
| Default Severity | WARNING |
| Log Message | Received a jumbo option packet |
| Explanation | Received a jumbo option packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.26. recvd_jumbo (ID: 01700046)

| | |
|---------------------------|---------------------------------|
| Default Severity | WARNING |
| Log Message | Received a jumbo option packet |
| Explanation | Received a jumbo option packet. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.27. rcvd_router_alert (ID: 01700047)

| | |
|---------------------------|--------------------------------------|
| Default Severity | WARNING |
| Log Message | Received Router Alert option Packet |
| Explanation | Received Router Alert option Packet. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.28. rcvd_router_alert (ID: 01700048)

| | |
|---------------------------|--------------------------------------|
| Default Severity | WARNING |
| Log Message | Received Router Alert option Packet |
| Explanation | Received Router Alert option Packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.29. rcvd_router_alert (ID: 01700049)

| | |
|---------------------------|--------------------------------------|
| Default Severity | WARNING |
| Log Message | Received Router Alert option Packet |
| Explanation | Received Router Alert option Packet. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.30. invalid_option (ID: 01700050)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Invalid IPv6 extension header option encountered. |
| Explanation | The packet contains an IPv6 extension header option of unknown |

| | |
|---------------------------|--|
| | type. The option will be ignored and the rest of the packet will be processed. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.32.31. invalid_option (ID: 01700051)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Invalid IPv6 extension header option encountered. |
| Explanation | The packet contains an IPv6 extension header option of unknown type. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.32.32. invalid_option (ID: 01700052)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Invalid IPv6 extension header option encountered. |
| Explanation | The packet contains an IPv6 extension header option of unknown type. Sending ICMPv6 Parameter Problem to the packet originator. |
| Gateway Action | send_param_problem |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.32.33. rcvd_ha_Option (ID: 01700053)

| | |
|-------------------------|-------------------------------------|
| Default Severity | WARNING |
| Log Message | Received Home address option Packet |

| | |
|---------------------------|--------------------------------------|
| Explanation | Received Home address option Packet. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.34. rcvd_ha_Option (ID: 01700054)

| | |
|---------------------------|--------------------------------------|
| Default Severity | WARNING |
| Log Message | Received Home address option Packet |
| Explanation | Received Home address option Packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.35. rcvd_ha_Option (ID: 01700055)

| | |
|---------------------------|--------------------------------------|
| Default Severity | WARNING |
| Log Message | Received Home address option Packet |
| Explanation | Received Home address option Packet. |
| Gateway Action | reject |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.36. invalid_padN_data (ID: 01700056)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Option data containing non-zero value |
| Explanation | Option data containing non-zero value. |
| Gateway Action | none |
| Recommended Action | None. |

| | |
|---------------------------|-----------|
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.37. invalid_padN_data (ID: 01700057)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Option data containing non-zero value |
| Explanation | Option data containing non-zero value. |
| Gateway Action | strip |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.38. invalid_padN_data (ID: 01700058)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Option data containing non-zero value |
| Explanation | Option data containing non-zero value. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.39. invalid_optLen (ID: 01700059)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Option Length is more than the specified number of bytes 5 |
| Explanation | Option Length is more than the specified number of bytes 5. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | OptLen |
| Context Parameters | Rule Name |

2.32.40. mismatch_ip_eth (ID: 01700060)

| | |
|---------------------------|---------------------------------------|
| Default Severity | WARNING |
| Log Message | IP and ethernet destination mismatch |
| Explanation | IP and ethernet destination mismatch. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.41. mismatch_ip_eth (ID: 01700061)

| | |
|---------------------------|---------------------------------------|
| Default Severity | WARNING |
| Log Message | IP and ethernet destination mismatch |
| Explanation | IP and ethernet destination mismatch. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.42. invalid_optlen (ID: 01700062)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Option Length is more than the size of extension header |
| Explanation | Option Length is more than the size of extension header. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.43. invalid_order (ID: 01700064)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|---|
| Log Message | Invalid Router Alert option other than in hop by hop header |
| Explanation | Received a Router Alert packet other than in hop by hop header. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.44. invalid_order (ID: 01700065)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Invalid home address options other than in destination header |
| Explanation | Received a home address packet other than in destination header. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.45. excessive_padding (ID: 01700066)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Multiple occurrence of Pad1/PadN option |
| Explanation | Multiple occurrence of Pad1/PadN option. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.46. repeated_option (ID: 01700067)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Received a packet with a repetitive options |
| Explanation | Received a packet with a repetitive options. |
| Gateway Action | none |

| | |
|---------------------------|-----------|
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.47. more_optcount (ID: 01700068)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Number of options more than IP6MaxOPH - <optcount> |
| Explanation | Received a packet with number of options more than IP6MaxOPH. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | optcount |
| Context Parameters | Rule Name |

2.32.48. more_optcount (ID: 01700069)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Number of options more than IP6MaxOPH - <optcount> |
| Explanation | Received a packet with number of options more than IP6MaxOPH. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | optcount |
| Context Parameters | Rule Name |

2.32.49. ip6_rhother (ID: 01700070)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Routing packet with type other than 0 or 2 |
| Explanation | Received Routing packet other than 0 or 2. |
| Gateway Action | none |
| Recommended Action | None. |

| | |
|---------------------------|-----------|
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.50. ip6_rhother (ID: 01700071)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Routing packet with type other than 0 or 2 |
| Explanation | Received Routing packet other than 0 or 2. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.51. ip6_rh2 (ID: 01700072)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Routing header with type 2 packet |
| Explanation | Received Routing header type 2 packet. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.52. ip6_rh2 (ID: 01700073)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Routing header with type 2 packet |
| Explanation | Received Routing header type 2 packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.53. ip6_rh0 (ID: 01700074)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Routing header with type 0 packet |
| Explanation | Received Routing header type 0 packet. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.54. ip6_rh0 (ID: 01700075)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Routing header with type 0 packet |
| Explanation | Received Routing header type 0 packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.55. too_small_packet (ID: 01700076)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Packet is too small to process |
| Explanation | The received packet is too small to contain an IPv6 payload, and will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.32.56. invalid_extnhdr_order (ID: 01700077)

| | |
|-------------------------|----------------------|
| Default Severity | WARNING |
| Log Message | Invalid header order |

| | |
|---------------------------|--|
| Explanation | Received a packet with invalid header order. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.57. invalid_ip6_exthdr (ID: 01700078)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Extension header length is greater than IP6ExtHdr Setting |
| Explanation | The received packet with extension header length is greater than IP6ExtHdr Setting. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.58. invalid_ip6_exthdr (ID: 01700079)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Extension header length is greater than IP6ExtHdr Setting |
| Explanation | The received packet with extension header length is greater than IP6ExtHdr Setting. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.32.59. invalid_nextheader (ID: 01700080)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Unrecognized IPv6 next header. |
| Explanation | A packet with unrecognized IPv6 Next Header was received. |
| Gateway Action | drop |

| | |
|---------------------------|-----------|
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.33. IP_PROTO

These log messages refer to the **IP_PROTO (IP Protocol verification events)** category.

2.33.1. multicast_ethernet_ip_address_mismatch (ID: 07000011)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received packet with a destination IP address <ip_multicast_addr> that does not match the Ethernet multicast address <eth_multicast_addr> |
| Explanation | A packet was received with an IP multicast Ethernet address as destination address. The IP address in the IP header does however not match it. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ip_multicast_addr eth_multicast_addr |
| Context Parameters | Rule Name Packet Buffer |

2.33.2. invalid_ip4_header_length (ID: 07000012)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Invalid IP4 Header length - total length is <totlen> bytes. Dropping |
| Explanation | The packet contains an invalid IP4 Header Length. The total length is more than 64 Kb, which is not allowed. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | totlen |
| Context Parameters | Rule Name Packet Buffer |

2.33.3. ttl_zero (ID: 07000013)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|---|
| Log Message | Received packet with zero TTL. Dropping |
| Explanation | A packet was received with a TTL (Time-To-Live) field set to zero, which is not allowed. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.33.4. ttl_low (ID: 07000014)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received packet with too low TTL of <ttl>. Min TTL is <ttlmin>. Dropping |
| Explanation | The received packet has a TTL (Time-To-Live) field which is too low. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ttl ttlmin |
| Context Parameters | Rule Name Packet Buffer |

2.33.5. ip_rsv_flag_set (ID: 07000015)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | The IP Reserved Flag was set. Dropping |
| Explanation | The received packet has the IP Reserved Flag set. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.33.6. oversize_tcp (ID: 07000018)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Configured size limit for the TCP protocol exceeded. Dropping |
| Explanation | The configured size limit for the TCP protocol was exceeded. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | This can be changed under the Advanced Settings section. |
| Revision | 1 |
| Parameters | proto |
| Context Parameters | Rule Name Packet Buffer |

2.33.7. invalid_tcp_header (ID: 07000019)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Invalid TCP header - IPDataLen=<ipdatalen>, TCPHdrLen=<tcphdrLen>. Dropping |
| Explanation | The TCP packet contains an invalid header. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipdatalen tcphdrLen |
| Context Parameters | Rule Name Packet Buffer |

2.33.8. oversize_udp (ID: 07000021)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Configured size limit for the UDP protocol exceeded. Dropping |
| Explanation | The configured size limit for the UDP protocol was exceeded. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | This can be changed under the Advanced Settings section. |
| Revision | 1 |
| Parameters | proto |

| | |
|---------------------------|----------------------------|
| Context Parameters | Rule Name Packet Buffer |
|---------------------------|----------------------------|

2.33.9. invalid_udp_header (ID: 07000022)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Invalid UDP header - IPDataLen=<ipdatalen>, UDPTotLen=<udptotlen>. Dropping |
| Explanation | The UDP packet contains an invalid header. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipdatalen udptotlen |
| Context Parameters | Rule Name Packet Buffer |

2.33.10. oversize_icmp (ID: 07000023)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Configured size limit for the ICMP protocol exceeded. Dropping |
| Explanation | The configured size limit for the ICMP protocol was exceeded. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | This can be changed under the Advanced Settings section. |
| Revision | 1 |
| Parameters | proto |
| Context Parameters | Rule Name Packet Buffer |

2.33.11. invalid_icmp_header (ID: 07000024)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Invalid ICMP header - IPDataLen=<ipdatalen>, ICMPMinLen=<icmpminlen>. Dropping |
| Explanation | The ICMP packet contains an invalid header. Dropping packet. |
| Gateway Action | drop |

| | |
|---------------------------|----------------------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ipdatalen icmptminlen |
| Context Parameters | Rule Name Packet Buffer |

2.33.12. multicast_ethernet_ip_address_mismatch (ID: 07000033)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received packet with a destination IP address <ip_multicast_addr> that does not match the Ethernet multicast address <eth_multicast_addr> |
| Explanation | A packet was received with an IP multicast Ethernet address as destination address, but the IP address in the IP header does however not match it. This is a known exploit, though the gateway is currently configured to forward these packets. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ip_multicast_addr eth_multicast_addr |
| Context Parameters | Rule Name Packet Buffer |

2.33.13. oversize_gre (ID: 07000050)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Configured size limit for the GRE protocol exceeded. Dropping |
| Explanation | The configured size limit for the GRE protocol was exceeded. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | This can be changed under the Advanced Settings section. |
| Revision | 1 |
| Parameters | proto |
| Context Parameters | Rule Name Packet Buffer |

2.33.14. **oversize_esp (ID: 07000051)**

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Configured size limit for the ESP protocol exceeded. Dropping |
| Explanation | The configured size limit for the ESP protocol was exceeded. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | This can be changed under the Advanced Settings section. |
| Revision | 1 |
| Parameters | proto |
| Context Parameters | Rule Name Packet Buffer |

2.33.15. **oversize_ah (ID: 07000052)**

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Configured size limit for the AH protocol exceeded. Dropping |
| Explanation | The configured size limit for the AH protocol was exceeded. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | This can be changed under the Advanced Settings section. |
| Revision | 1 |
| Parameters | proto |
| Context Parameters | Rule Name Packet Buffer |

2.33.16. **oversize_skip (ID: 07000053)**

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Configured size limit for the SKIP protocol exceeded. Dropping |
| Explanation | The configured size limit for the SKIP protocol was exceeded. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | This can be changed under the Advanced Settings section. |
| Revision | 1 |

| | |
|---------------------------|----------------------------|
| Parameters | proto |
| Context Parameters | Rule Name Packet Buffer |

2.33.17. **oversize_ospf (ID: 07000054)**

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Configured size limit for the OSPF protocol exceeded. Dropping |
| Explanation | The configured size limit for the OSPF protocol was exceeded. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | This can be changed under the Advanced Settings section. |
| Revision | 1 |
| Parameters | proto |
| Context Parameters | Rule Name Packet Buffer |

2.33.18. **oversize_ipip (ID: 07000055)**

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Configured size limit for the IPIP protocol exceeded. Dropping |
| Explanation | The configured size limit for the IPIP protocol was exceeded. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | This can be changed under the Advanced Settings section. |
| Revision | 1 |
| Parameters | proto |
| Context Parameters | Rule Name Packet Buffer |

2.33.19. **oversize_ipcomp (ID: 07000056)**

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Configured size limit for the IPComp protocol exceeded. Dropping |
| Explanation | The configured size limit for the IPComp protocol was exceeded. Dropping packet. |

| | |
|---------------------------|--|
| Gateway Action | drop |
| Recommended Action | This can be changed under the Advanced Settings section. |
| Revision | 1 |
| Parameters | proto |
| Context Parameters | Rule Name Packet Buffer |

2.33.20. **oversize_l2tp (ID: 07000057)**

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Configured size limit for the L2TP protocol exceeded. Dropping |
| Explanation | The configured size limit for the L2TP protocol was exceeded. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | This can be changed under the Advanced Settings section. |
| Revision | 1 |
| Parameters | proto |
| Context Parameters | Rule Name Packet Buffer |

2.33.21. **oversize_ip (ID: 07000058)**

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Configured size limit for IP protocol exceeded. Dropping |
| Explanation | The configured size limit for the IP protocol was exceeded. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | This can be changed under the Advanced Settings section. |
| Revision | 1 |
| Parameters | proto |
| Context Parameters | Rule Name Packet Buffer |

2.33.22. **hop_limit_zero (ID: 07000059)**

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | Forward IPv6 packet with zero HopLimit. Dropping |
| Explanation | Try to forward a IPv6 packet with the HopLimit field set to zero, which is not allowed. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 3 |
| Context Parameters | Rule Name Packet Buffer |

2.33.23. hop_limit_low (ID: 07000060)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received packet with too low HopLimit of <hoplimit>. Min HopLimit is <hoplimitmin>. Dropping |
| Explanation | The received packet has a HopLimit field which is too low. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | hoplimit hoplimitmin |
| Context Parameters | Rule Name Packet Buffer |

2.33.24. fragmented_icmp (ID: 07000070)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | This ICMP type is not allowed to be fragmented. Dropping |
| Explanation | The ICMP type is not allowed to be fragmented. Only "Echo" and "EchoReply" are allowed to be fragmented. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.33.25. invalid_icmp_data_too_small (ID: 07000071)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Invalid ICMP data length. ICMPDataLen=<icmpdatalen> ICMIPHdrMinLen=<icmpiphdrminlen>. Dropping |
| Explanation | The ICMP data is not large enough to contain an IPv4 Header. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | icmpdatalen icmpiphdrminlen |
| Context Parameters | Rule Name Packet Buffer |

2.33.26. invalid_icmp_data_ip_ver (ID: 07000072)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Invalid ICMP data. ICMPDataLen=<icmpdatalen> ICMIPVer=<icmpipver>. Dropping |
| Explanation | An invalid IP version is specified in the ICMP data. Version 4 expected. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | icmpdatalen icmpipver |
| Context Parameters | Rule Name Packet Buffer |

2.33.27. invalid_icmp_data_too_small (ID: 07000073)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Invalid ICMP data length. ICMPDataLen=<icmpdatalen> ICMIPHdrLen=<icmphdrLen>. Dropping |
| Explanation | The ICMP data length is invalid. It must be large enough for the actual header, and the header must specify that it is atleast 20 bytes long. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |

| | |
|---------------------------|----------------------------|
| Revision | 1 |
| Parameters | icmpdatalen icmphdrln |
| Context Parameters | Rule Name Packet Buffer |

2.33.28. invalid_icmp_data_invalid_ip_length (ID: 07000074)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Invalid ICMP data length. ICMPDataLen=<icmpdatalen> ICMPIPDataLen=<icmpipdatalen> ICMPIPDataMinLen=<icmpipdataminlen>. Dropping |
| Explanation | The ICMP data length is invalid. The contained IP data must be at least 8 bytes long. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | icmpdatalen icmpipdatalen icmpipdataminlen |
| Context Parameters | Rule Name Packet Buffer |

2.33.29. invalid_icmp_data_invalid_paramprob (ID: 07000075)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Invalid ICMP ProbPtr. ICMPDataLen=<icmpdatalen> ICMPIPDataLen=<icmpipdatalen> ParamProbPtr=<paramprobptr>. Dropping |
| Explanation | Invalid ICMP Parameter Problem pointer. Parameter Problem pointer is not within the allowed range. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | icmpdatalen icmpipdatalen paramprobptr |
| Context Parameters | Rule Name Packet Buffer |

2.33.30. illegal_sender_address (ID: 07000076)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Source address does not identify a single node uniquely. Dropping |
| Explanation | The source address is ending in zeroes. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.33.31. dest_beyond_scope (ID: 07000080)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Destination is beyond the scope of the source address. Dropping |
| Explanation | Link-local source address and a global-scope destination address. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | Verify that no faulty network equipment exists. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.33.32. ttl_zero (ID: 07000111)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Forward IPv4 packet with zero TTL. Dropping |
| Explanation | Try to forward a IPv4 packet with the TTL field set to zero, which is not allowed. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 3 |
| Context Parameters | Rule Name Packet Buffer |

2.34. L2TP

These log messages refer to the **L2TP (L2TP tunnel events)** category.

2.34.1. l2tpclient_resolve_successful (ID: 02800001)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | L2TP client <iface> resolved <remotegwname> to <remotegw> |
| Explanation | The L2TP client successfully resolved the DNS name of the remote gateway. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegwname remotegw |

2.34.2. l2tpclient_resolve_failed (ID: 02800002)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | L2TP client <iface> failed to resolve <remotegwname> |
| Explanation | The L2TP client failed to resolve the DNS name of the remote gateway. |
| Gateway Action | None |
| Recommended Action | Make sure you have configured the DNS name of the remote gateway and the DNS servers correctly. |
| Revision | 1 |
| Parameters | iface remotegwname |

2.34.3. l2tpclient_init (ID: 02800003)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | L2TP client initialized, request sent to server on <remotegw> |
| Explanation | The L2TP client has been initialized and a request has been sent to the remote gateway. |
| Gateway Action | None |
| Recommended Action | None. |

| | |
|-------------------|-------------------|
| Revision | 1 |
| Parameters | iface remotegw |

2.34.4. l2tp_connection_disallowed (ID: 02800004)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | L2TP connection disallowed according to rule <rule>! Tunnel ID: <tunnelid>, Session ID: <sessionid> |
| Explanation | The L2TP connection is disallowed according to the specified userauth rule. |
| Gateway Action | None |
| Recommended Action | Make sure the userauth rules are configured correctly. |
| Revision | 1 |
| Parameters | rule tunnelid sessionid |

2.34.5. unknown_l2tp_auth_source (ID: 02800005)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unknown L2TP authentication source for <rule>! Tunnel ID: <tunnelid>, Session ID: <sessionid> |
| Explanation | The authentication source for the specified userauth rule is unknown to the L2TP server. |
| Gateway Action | None |
| Recommended Action | Make sure the userauth rules are configured correctly. |
| Revision | 1 |
| Parameters | rule tunnelid sessionid |

2.34.6. only_routes_set_up_by_server_iface_allowed (ID: 02800006)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | L2TP server <iface> received a packet routed by a route not set up by the interface itself. Dropping packet |

| | |
|---------------------------|---|
| Explanation | The L2TP server received a packet that was routed to the interface by a route that was either manually configured or set up by another subsystem. |
| Gateway Action | drop |
| Recommended Action | Make sure no manually configured routes to the L2TP server interface exists in the configuration. |
| Revision | 1 |
| Parameters | iface |

2.34.7. l2tp_session_closed (ID: 02800007)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Closed L2TP session. Session ID: <sessionid>, Tunnel ID: <tunnelid> |
| Explanation | The L2TP session with the specified session ID has been closed. The session was set up using the specified tunnel. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface sessionid tunnelid |

2.34.8. l2tp_tunnel_closed (ID: 02800008)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Closed L2TP tunnel. Tunnel ID: <tunnelid>, Interface: <iface>. |
| Explanation | The L2TP tunnel with the specified tunnel ID has been closed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface tunnelid |

2.34.9. session_closed (ID: 02800009)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | MPPE failed but is required, closing session <sessionid> to |

| | |
|---------------------------|--|
| | <remotegw> on <iface> |
| Explanation | MPPE is required by the configuration but the MPPE negotiation failed. Session will be closed. |
| Gateway Action | None |
| Recommended Action | Make sure the peer is capable of MPPE encryption, or disable the MPPE requirement. |
| Revision | 1 |
| Parameters | iface sessionid remotegw |

2.34.10. l2tp_session_request (ID: 02800010)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | L2TP session request sent. Tunnel ID: <tunnelid> |
| Explanation | An L2TP session request has been sent over the specified L2TP tunnel. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnelid |

2.34.11. l2tp_session_up (ID: 02800011)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | L2TP session up. Tunnel ID: <tunnelid>, Session ID: <sessionid>, Auth: <auth>, MPPE: <mppe> |
| Explanation | The L2TP session negotiation has completed successfully. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnelid sessionid auth mppe |

2.34.12. l2tp_no_userauth_rule_found (ID: 02800014)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Did not find a matching userauth rule for this L2TP server! Tunnel ID: <tunnelid>, Session ID: <sessionid> |
| Explanation | The L2TP server was unsuccessful trying to find a matching userauth rule. |
| Gateway Action | None |
| Recommended Action | Make sure the userauth rules are configured correctly. |
| Revision | 1 |
| Parameters | tunnelid sessionid |

2.34.13. l2tp_session_request (ID: 02800015)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | L2TP session request received. Tunnel ID: <tunnelid> |
| Explanation | A new session request was received on the specified tunnel. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnelid |

2.34.14. l2tp_session_up (ID: 02800016)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | L2TP session up. Tunnel ID: <tunnelid>, Session ID: <sessionid>, User: <user>, Auth: <auth>, MPPE: <mppe>, Assigned IP: <assigned_ip> |
| Explanation | The L2TP session negotiation has completed successfully. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnelid sessionid user auth mppe assigned_ip |

2.34.15. failure_init_radius_accounting (ID: 02800017)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Failed to send Accounting Start to RADIUS Accounting Server. Accounting will be disabled |
| Explanation | Failed to send START message to RADIUS accounting server. RADIUS accounting will be disabled for this session. |
| Gateway Action | accounting_disabled |
| Recommended Action | Make sure the RADIUS accounting configuration is correct. |
| Revision | 1 |

2.34.16. l2tpclient_tunnel_up (ID: 02800018)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | L2TP tunnel to <remotegw> is up. Tunnel ID: <tunnelid> |
| Explanation | L2TP tunnel negotiated successfully. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnelid iface remotegw |

2.34.17. malformed_packet (ID: 02800019)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Malformed packet received from <remotegw> on tunnel <iface>. Error code: <error_code> |
| Explanation | A malformed packet was received by the L2TP interface. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegw error_code |

2.34.18. unknown_ctrl_conn_id (ID: 02800020)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Unknown Control Connection ID <ctrlconnid> from <remotegw> on tunnel <iface>. |
| Explanation | A packet with an unknown Control Connection ID was received by the L2TP interface. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegw ctrlconnid |

2.34.19. l2tp_session_closed (ID: 02800037)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Closed L2TP session. Session ID: <sessionid>, Tunnel ID: <ctrlconnid> |
| Explanation | The L2TP session with the specified session ID has been closed. The session was set up using the specified tunnel. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface sessionid ctrlconnid |

2.34.20. l2tp_tunnel_closed (ID: 02800038)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Closed L2TP tunnel. Tunnel ID: <ctrlconnid>, Interface: <iface>. |
| Explanation | The L2TP tunnel with the specified tunnel ID has been closed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

| | |
|-------------------|---------------------|
| Parameters | iface ctrlconnid |
|-------------------|---------------------|

2.34.21. l2tp_session_request (ID: 02800045)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | L2TP session request received. Control Connection ID: <ctrlconnid> |
| Explanation | A new session request was received on the specified tunnel. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ctrlconnid |

2.34.22. l2tp_session_up (ID: 02800046)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | L2TP session up. Control Connection ID: <ctrlconnid>, Session ID: <sessionid> |
| Explanation | The L2TP session negotiation has completed successfully. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ctrlconnid sessionid |

2.34.23. l2tp_session_up (ID: 02800047)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | L2TP session up. Control Connection ID: <ctrlconnid>, Session ID: <sessionid> |
| Explanation | The L2TP session negotiation has completed successfully. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ctrlconnid sessionid |

2.34.24. waiting_for_ip_to_listen_on (ID: 02800050)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | L2TP server <iface> cannot start until it has an IP address to listen on |
| Explanation | The L2TP server cannot start until the L2TP interface has a proper IP address to listen on. |
| Gateway Action | None |
| Recommended Action | Make sure that the IP address is configured correctly on the L2TP server interface, or that the DHCP server can hand out a proper IP address to the interface. |
| Revision | 1 |
| Parameters | iface |

2.34.25. no_session_found (ID: 02800060)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | No session found for message sent from <remotegw> on tunnel <iface>. |
| Explanation | No session found for message received by the L2TP interface. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegw |

2.35. LACP

These log messages refer to the **LACP (Link Aggregation Control Protocol)** category.

2.35.1. lacp_up (ID: 07700001)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Negotiation was successful and <physiface> was added to the <laiface> aggregation. |
| Explanation | LACP has successfully negotiated with a partner system and the specified Member interface is now fully operational. This event is generated independently for each Member interface. |
| Gateway Action | include_link |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | physiface laiface |

2.35.2. lacp_expired (ID: 07700002)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | The partner system on <physiface> has timed out due to no message being received in <timeout> seconds. |
| Explanation | LACP has not received a periodic message from the established partner system in some time and the link has been excluded from the aggregation. |
| Gateway Action | exclude_link |
| Recommended Action | If this occurs frequently, look for an unstable link or partner system. |
| Revision | 1 |
| Parameters | physiface laiface timeout |

2.35.3. lacp_down (ID: 07700003)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | No response has been received on <physiface>. The link will not be used in the <laiface> aggregation. |
| Explanation | No LACP message has been received on the link. |

| | |
|---------------------------|---|
| Gateway Action | exclude_link |
| Recommended Action | Verify that the link is operational and connected to a properly configured LACP system. |
| Revision | 1 |
| Parameters | physiface laiface |

2.35.4. lacp_partner_mismatch (ID: 07700004)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | The information exchanged with the partner system on <physiface> does not match that of other configured Members of the <laiface> aggregation. |
| Explanation | LACP has successfully exchanged information on several links but the exchanged information is not identical on all of those links. LACP has selected the best set of those links for aggregation and the rest have been excluded. This event is generated for each of the excluded links. |
| Gateway Action | exclude_link |
| Recommended Action | Verify that all configured Member interfaces are physically connected to the same properly configured system. |
| Revision | 1 |
| Parameters | physiface laiface |

2.35.5. lacp_link_speed_mismatch (ID: 07700005)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | <physiface> is not compatible with other Members of the <laiface> aggregation because they are not operating at the same link speed. |
| Explanation | All of the configured Member interfaces are not operating at the same link speed. LACP has selected the best set of those links for aggregation and the rest have been excluded. This event is generated for each of the excluded links. |
| Gateway Action | exclude_link |
| Recommended Action | Look for hardware or configuration limitations that may be preventing the affected link from operating at the same link speed as the other configured Members. |
| Revision | 1 |
| Parameters | physiface laiface |

2.35.6. lacp_link_down (ID: 07700006)

| | |
|---------------------------|---------------------------------|
| Default Severity | ERROR |
| Log Message | <physiface> appears to be down. |
| Explanation | . |
| Gateway Action | exclude_link |
| Recommended Action | . |
| Revision | 1 |
| Parameters | physiface laiface |

2.35.7. lacp_disabled_half_duplex (ID: 07700007)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | <physiface> has been disabled because it is operating at Half Duplex which is unsupported by the Link Aggregation feature. |
| Explanation | The specified interface has been disabled because it is operating at Half Duplex which is not supported by the Link Aggregation feature. |
| Gateway Action | exclude_link |
| Recommended Action | Look for hardware or configuration limitations that may be preventing the affected link from operating in Full Duplex mode. |
| Revision | 1 |
| Parameters | physiface laiface |

2.36. NATPOOL

These log messages refer to the **NATPOOL (Events related to NAT Pools)** category.

2.36.1. uninitialized_ippool (ID: 05600001)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | NATPool <poolname> has not been initialized |
| Explanation | The NATPool is not initialized. This can happen if the NATPool contains no valid IP addresses. If the NATPool is configured to use an IPPool, no IP addresses have been received from the IPPool. |
| Gateway Action | drop |
| Recommended Action | If the NATPool is configured to use an IPPool, verify that addresses have been loaded from IPPool. |
| Revision | 1 |
| Parameters | poolname |

2.36.2. removed_translation_address (ID: 05600002)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Translation IP address <address> does no longer exist in NATPool <poolname> |
| Explanation | The translation IP has been removed by a configuration change. The connection is no longer valid and will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | address poolname |

2.36.3. reconf_state_violation (ID: 05600003)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | State violation during re-mapping to STATEFUL NATPool <poolname>. |
| Explanation | The NATPool's configuration has changed to STATEFUL. This connection's translation IP violates the stateful NATPool. Connection will remain open but will no longer be attached to this NATPool. |
| Gateway Action | decouple |

| | |
|---------------------------|---------------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | address poolname |
| Context Parameters | Connection |

2.36.4. out_of_memory (ID: 05600005)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Out of memory while allocating NATPool state for <poolname> |
| Explanation | A state could not be allocated since the unit is out of memory. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | poolname |

2.36.5. dhcp_address_expired (ID: 05600006)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | NATPool DHCP address <address> lease expired |
| Explanation | The IP Address used by this NATPool have expired and may not be used any more. The connection will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | address poolname |
| Context Parameters | Connection |

2.36.6. out_of_memory (ID: 05600007)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | Out of memory while allocating NATPool IP entry for <poolname> |
| Explanation | An IP entry could not be allocated since the unit is out of memory. |
| Gateway Action | None |

| | |
|---------------------------|----------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | poolname |

2.36.7. proxyarp_failed (ID: 05600008)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Could not add dynamic ProxyARP route. NATPool <poolname> |
| Explanation | It was not possible to dynamically add a core route for the given IP address. |
| Gateway Action | None |
| Recommended Action | Try to configure a core route with ProxyARP manually. |
| Revision | 1 |
| Parameters | poolname ip |

2.36.8. max_states_reached (ID: 05600009)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Maximum amount of states <num_states> have been reached for NATPool <poolname>. Replacing lingering state <replacedip> |
| Explanation | The maximum configured number of states for this NAT Pool have been reached. NATPool subsystem will try to replace the oldest lingering state. |
| Gateway Action | replace_lingering |
| Recommended Action | Increase the MAXSTATES variable for this NATPool if more concurrent states are wanted. |
| Revision | 1 |
| Parameters | poolname num_states replacedip |

2.36.9. max_states_reached (ID: 05600010)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Maximum amount of states <num_states> have been reached for NATPool <poolname>. Replacing active state <replacedip> |
| Explanation | The maximum configured number of states for this NAT Pool have |

| | |
|---------------------------|---|
| | been reached. NATPool subsystem must replace an active state since no lingering states exist. |
| Gateway Action | replace_active |
| Recommended Action | Increase the MAXSTATES variable for this NATPool if more concurrent states are wanted. |
| Revision | 1 |
| Parameters | poolname num_states replacedip |

2.36.10. registerip_failed (ID: 05600011)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Request to activate already active Translation IP address <ip> in pool <poolname> |
| Explanation | Attempt to activate an already active Translation IP. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | poolname ip |

2.36.11. registerip_failed (ID: 05600012)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Too many Translation IP addresses requested for <poolname> |
| Explanation | To many Translation IP addresses was requested for NAT Pool. Dropping this address. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | poolname |

2.36.12. dynamicip_failed (ID: 05600013)

| | |
|-------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed to fetch new Translation IP address from IP Pool <poolname> |

| | |
|---------------------------|--|
| Explanation | Failed to fetch new Translation IP address from IP Pool. |
| Gateway Action | None |
| Recommended Action | Check configuration for NAT Pool and IP Pool. |
| Revision | 1 |
| Parameters | poolname |

2.36.13. synchronization_failed (ID: 05600014)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed to synchronize Translation IP address to peer |
| Explanation | Failed to synchronize Translation IP address to peer. |
| Gateway Action | None |
| Recommended Action | Check status of peer and verify High Availability configuration. |
| Revision | 1 |

2.36.14. registerip_failed (ID: 05600015)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Invalid synchronized translated connection receivedRequest to activate already active Translation IP address <ip> in pool <poolname> |
| Explanation | Attempt to activate an already active Translation IP. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | poolname ip |

2.37. OSPF

These log messages refer to the **OSPF (OSPF events)** category.

2.37.1. internal_error (ID: 02400001)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Internal Error. Iface <iface> got IEvent <ievent> in IState <istate>. Ignored |
| Explanation | Internal error in the OSPF interface state engine. |
| Gateway Action | ignore |
| Recommended Action | Contact support. |
| Revision | 1 |
| Parameters | iface ievent istate |
| Context Parameters | Rule Name |

2.37.2. internal_error (ID: 02400002)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Internal Error. Iface <iface> got NEvent <nevent> in NState <nstate>. Ignored |
| Explanation | Internal error in the OSPF interface neighbor state engine. |
| Gateway Action | ignore |
| Recommended Action | Contact support. |
| Revision | 1 |
| Parameters | iface nevent nstate |
| Context Parameters | Rule Name |

2.37.3. unable_to_map_ptp_neighbor (ID: 02400003)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Unable to map PTP neighbor <neighborid> to my ip <myifaceip> at HA failover |
| Explanation | Unable to map a configured PTP neighbor to the local IP at HA |

| | |
|---------------------------|-------------------------------------|
| | failover. |
| Gateway Action | None |
| Recommended Action | Check OSPF interface configuration. |
| Revision | 1 |
| Parameters | iface neighborid myifaceip |
| Context Parameters | Rule Name |

2.37.4. bad_packet_len (ID: 02400004)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received OSPF packet with bad length |
| Explanation | Received OSPF packet with a bad length. |
| Gateway Action | drop |
| Recommended Action | Check the configuration on the neighboring router. |
| Revision | 1 |
| Parameters | ospflen iplen type |
| Context Parameters | Rule Name Packet Buffer |

2.37.5. bad_ospf_version (ID: 02400005)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Packet OSPF version is not 2 |
| Explanation | Received OSPF packet with other version than 2. |
| Gateway Action | drop |
| Recommended Action | Make sure that all routers are using version 2. |
| Revision | 1 |
| Parameters | ver |
| Context Parameters | Rule Name Packet Buffer |

2.37.6. sender_not_in_iface_range (ID: 02400006)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Sender source <srcip> not within interface range (<ifacorange>) |
| Explanation | Received OSPF data from a neighboring router not within the receive interface range. |
| Gateway Action | drop |
| Recommended Action | Make sure all locally attached OSPF routes are on the same network. |
| Revision | 1 |
| Parameters | srcip ifacorange |
| Context Parameters | Rule Name Packet Buffer |

2.37.7. area_mismatch (ID: 02400007)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Bad area <area> |
| Explanation | Received OSPF data from a neighboring router not within the same area as the receive interface. |
| Gateway Action | drop |
| Recommended Action | Make sure all locally attached OSPF routers are in the same area as the attaching interfaces. |
| Revision | 1 |
| Parameters | area |
| Context Parameters | Rule Name Packet Buffer |

2.37.8. hello_netmask_mismatch (ID: 02400008)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Hello netmask mismatch. Received was <recv_netmask>, mine is <my_netmask>. Dropping |
| Explanation | Received OSPF data from a neighboring router with different network netmask then the receive interface. |
| Gateway Action | drop |
| Recommended Action | Make sure all locally attached OSPF routers have the same netmask as the attaching interfaces. |
| Revision | 1 |

| | |
|---------------------------|----------------------------|
| Parameters | recv_netmask my_netmask |
| Context Parameters | Rule Name Packet Buffer |

2.37.9. hello_interval_mismatch (ID: 02400009)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Hello interval mismatch. Received was <recv_interval>, mine is <my_interval>. Dropping |
| Explanation | Received OSPF data from a neighboring router with a mismatching hello interval. |
| Gateway Action | drop |
| Recommended Action | Make sure all locally attached OSPF routers share the same hello interval. |
| Revision | 1 |
| Parameters | recv_interval my_interval |
| Context Parameters | Rule Name Packet Buffer |

2.37.10. hello_rtr_dead_mismatch (ID: 02400010)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Hello router dead interval mismatch. Received was <recv_rtrdead>, mine is <my_rtrdead>. Dropping |
| Explanation | Received OSPF data from a neighboring router with a mismatching router dead interval. |
| Gateway Action | drop |
| Recommended Action | Make sure all locally attached OSPF routers share the same router dead interval. |
| Revision | 1 |
| Parameters | recv_rtrdead my_rtrdead |
| Context Parameters | Rule Name Packet Buffer |

2.37.11. hello_e_flag_mismatch (ID: 02400011)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Hello E-flag mismatch. Received was <recv_e_flag>, mine is <my_e_flag>. Dropping |
| Explanation | Received OSPF data from a neighboring router with mismatching E-flag (describes how AS-external-LSAs are flooded) configuration. |
| Gateway Action | drop |
| Recommended Action | Make sure all locally attached OSPF routers share the same E-flag configuration. |
| Revision | 1 |
| Parameters | recv_e_flag my_e_flag |
| Context Parameters | Rule Name Packet Buffer |

2.37.12. hello_n_flag_mismatch (ID: 02400012)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Hello N-flag mismatch. Received was <recv_n_flag>, mine is <my_n_flag>. Dropping |
| Explanation | Received OSPF data from a neighboring router with mismatching N-flag (NSSA details) configuration. |
| Gateway Action | drop |
| Recommended Action | Make sure all locally attached OSPF routers share the same N-flag configuration. |
| Revision | 1 |
| Parameters | recv_n_flag my_n_flag |
| Context Parameters | Rule Name Packet Buffer |

2.37.13. both_np_and_e_flag_set (ID: 02400013)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Hello N-flag and E-flag set. This is a illegal combination. Dropping |
| Explanation | Received OSPF data from a neighboring router which illegally have both the N and E-flag set. |
| Gateway Action | drop |
| Recommended Action | Check the configuration on the neighboring router. |

| | |
|---------------------------|----------------------------|
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.37.14. unknown_isa_type (ID: 02400014)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unknown LSA type <lsatype>. Dropping |
| Explanation | Received OSPF data from a neighbor which contained a unknown LSA. |
| Gateway Action | drop |
| Recommended Action | Check the configuration on the neighboring router. |
| Revision | 1 |
| Parameters | lsatype |
| Context Parameters | Rule Name Packet Buffer |

2.37.15. auth_mismatch (ID: 02400050)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Authentication mismatch. Received was <recv_auth>, mine is <my_auth> |
| Explanation | Authentication mismatch with neighboring OSPF router. |
| Gateway Action | drop |
| Recommended Action | Verify that the neighboring OSPF router share the same authentication. |
| Revision | 1 |
| Parameters | recv_auth my_auth |
| Context Parameters | Rule Name |

2.37.16. bad_auth_password (ID: 02400051)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Authentication mismatch. Bad password |
| Explanation | Authentication failed due to a bad password. |

| | |
|---------------------------|--|
| Gateway Action | drop |
| Recommended Action | Verify that the neighboring OSPF router share the same password. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.37.17. bad_auth_crypto_key_id (ID: 02400052)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Authentication mismatch. Bad crypto key id. Received was <recv_id>, mine is <my_id> |
| Explanation | Authentication failed due to a bad crypto key id. |
| Gateway Action | drop |
| Recommended Action | Verify that the neighboring OSPF router share the same crypto key id. |
| Revision | 1 |
| Parameters | recv_id my_id |
| Context Parameters | Rule Name |

2.37.18. bad_auth_crypto_seq_number (ID: 02400053)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Authentication mismatch. Bad crypto sequence number. Received was <recv_seq>, expected atleast <my_seq> |
| Explanation | Authentication failed due to mismatching crypto sequence number. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | recv_seq my_seq |
| Context Parameters | Rule Name |

2.37.19. bad_auth_crypto_digest (ID: 02400054)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Authentication mismatch. Bad crypto digest |

| | |
|---------------------------|---|
| Explanation | Authentication failed due to bad crypto digest. |
| Gateway Action | drop |
| Recommended Action | Verify that the neighboring OSPF router share the same crypto digest. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.37.20. checksum_mismatch (ID: 02400055)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Checksum mismatch. Received was <recv_chksum>, mine is <my_chksum> |
| Explanation | Received OSPF data from neighbor with mismatching checksum. |
| Gateway Action | drop |
| Recommended Action | Check network equipment for problems. |
| Revision | 1 |
| Parameters | recv_chksum my_chksum |
| Context Parameters | Rule Name |

2.37.21. dd_mtu_exceeds_interface_mtu (ID: 02400100)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor <neighbor> MTU is too high. Received DD has MTU <dd_mtu>. Interface MTU is <iface_mtu> |
| Explanation | Received database description from neighbor with too high MTU. |
| Gateway Action | drop |
| Recommended Action | Lower the MTU on the neighboring OSPF router. |
| Revision | 1 |
| Parameters | neighbor dd_mtu iface_mtu |
| Context Parameters | Rule Name |

2.37.22. m_ms_mismatch (ID: 02400101)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor <neighbor> M/MS mismatch. Restarting exchange |
| Explanation | Received indication that a neighbor got the M/MS (master/slave) role wrong. |
| Gateway Action | restart |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | neighbor |
| Context Parameters | Rule Name |

2.37.23. i_flag_misuse (ID: 02400102)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor <neighbor> misused the I-flag. Restarting exchange |
| Explanation | Neighbor misused the I-flag. |
| Gateway Action | restart |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | neighbor |
| Context Parameters | Rule Name |

2.37.24. opt_change (ID: 02400103)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Neighbor <neighbor> changed options during exchange. Restarting exchange |
| Explanation | Neighbor illegally changed options during the exchange phase. |
| Gateway Action | restart |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | neighbor |
| Context Parameters | Rule Name |

2.37.25. bad_seq_num (ID: 02400104)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Neighbor <neighbor> replied with a unexpected sequence number. Restarting exchange |
| Explanation | Received neighbor reply with a unexpected sequence number. |
| Gateway Action | restart |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | neighbor |
| Context Parameters | Rule Name |

2.37.26. non_dup_dd (ID: 02400105)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Neighbor <neighbor> sent a non dup DD from a higher state then exchange. Restarting exchange |
| Explanation | Received a non dup database descriptor from a neighbor in a higher state then exchange. |
| Gateway Action | restart |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | neighbor |
| Context Parameters | Rule Name |

2.37.27. as_ext_on_stub (ID: 02400106)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Neighbor <neighbor> implied AS-EXT on a stub area. Restarting exchange |
| Explanation | A neighbor illegally implied AS-EXT on a stub area. |
| Gateway Action | restart |
| Recommended Action | Check neighboring OSPF router configuration. |
| Revision | 1 |
| Parameters | neighbor |
| Context Parameters | Rule Name |

2.37.28. unknown_lsa (ID: 02400107)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor <neighbor> implied unknown LSA (<lsa_type>). Restarting exchange |
| Explanation | A neighbor described an unknown LSA type. |
| Gateway Action | restart |
| Recommended Action | Check neighboring OSPF router configuration. |
| Revision | 1 |
| Parameters | neighbor lsa_type |
| Context Parameters | Rule Name |

2.37.29. bad_lsa_sequencenumber (ID: 02400108)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Got LSA with bad sequence number <seqnum>. Restarting exchange |
| Explanation | Received a LSA with a bad sequence number. |
| Gateway Action | restart |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | seqnum |
| Context Parameters | Rule Name |

2.37.30. bad_lsa_maxage (ID: 02400109)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Got LSA with bad maxage (<maxage> > <def_maxage>). Restarting exchange |
| Explanation | Received a LSA with a bad maxage value. |
| Gateway Action | restart |
| Recommended Action | Check originating router configuration. |
| Revision | 1 |
| Parameters | maxage |

| | |
|---------------------------|------------|
| | def_maxage |
| Context Parameters | Rule Name |

2.37.31. lsa_checksum_mismatch (ID: 02400150)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | LSA checksum mismatch. LSA is discarded |
| Explanation | Received LSA with mismatching checksum. |
| Gateway Action | discard |
| Recommended Action | Check network equipment for problems. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.37.32. unknown_lsa_type (ID: 02400151)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unknown LSA type (<lsa_type>). LSA is discarded |
| Explanation | Received LSA of unknown type. |
| Gateway Action | discard |
| Recommended Action | Check originating router configuration. |
| Revision | 1 |
| Parameters | lsa_type |
| Context Parameters | Rule Name |

2.37.33. bad_lsa_seqnum (ID: 02400152)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Bad LSA sequence number (<seqnum>). LSA is discarded |
| Explanation | Received LSA with a bad sequence number. |
| Gateway Action | discard |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | seqnum |

| | |
|---------------------------|-----------|
| Context Parameters | Rule Name |
|---------------------------|-----------|

2.37.34. bad_lsa_maxage (ID: 02400153)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Bad LSA maxage (<maxage>). LSA is discarded |
| Explanation | Received LSA with a bad max age. |
| Gateway Action | discard |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | maxage |
| Context Parameters | Rule Name |

2.37.35. received_as_ext_on_stub (ID: 02400154)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received AS-EXT LSA on stub. LSA is discarded |
| Explanation | Received AS external LSA which is illegal on a stub area. |
| Gateway Action | discard |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.37.36. received_selforg_for_unknown_lsa_type (ID: 02400155)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received selforiginated LSA for unknown LSA <lsatype> type? Flushing |
| Explanation | Received selforiginated LSA of unknown type. |
| Gateway Action | flush |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | lsatype |

| | |
|---------------------------|-----------|
| Context Parameters | Rule Name |
|---------------------------|-----------|

2.37.37. db_copy_more_recent_then_received (ID: 02400156)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received LSA(LSA-<lsa> ID:<lsaid> AdvRtr:<lsartr>) is older then DB copy. Discarding received LSA |
| Explanation | Received LSA which is older then the copy in the database. |
| Gateway Action | discard |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | lsa lsaid lsartr |
| Context Parameters | Rule Name |

2.37.38. got_ack_mismatched_lsa (ID: 02400157)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Got ACK for mismatched LSA (LSA-<lsa> ID:<lsaid> AdvRtr:<lsartr>). ACK ingored |
| Explanation | Received acknowledge for mismatched LSA. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | lsa lsaid lsartr |
| Context Parameters | Rule Name |

2.37.39. upd_packet_lsa_size_mismatch (ID: 02400158)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | UPD packet LSA size mismatch. Parsing aborted |
| Explanation | Received OSPF UPD packet with a mismatching LSA size. |
| Gateway Action | abort |

| | |
|---------------------------|----------------------------|
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.37.40. req_packet_lsa_size_mismatch (ID: 02400159)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | REQ packet LSA size mismatch. Parsing aborted |
| Explanation | Received OSPF REQ packet with a mismatching LSA size. |
| Gateway Action | abort |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.37.41. ack_packet_lsa_size_mismatch (ID: 02400160)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | ACK packet LSA size mismatch. Parsing aborted |
| Explanation | Received OSPF ACK packet with a mismatching LSA size. |
| Gateway Action | abort |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.37.42. failed_to_create_replacement_lsa (ID: 02400161)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Failed to prepare replacement LSA (LSA- <lsa> ID:<lsaid> AdvRtr:<lsartr>) |
| Explanation | Failed to create LSA. |
| Gateway Action | alert |
| Recommended Action | Check memory consumption. |

| | |
|---------------------------|------------------------|
| Revision | 1 |
| Parameters | lsa lsaid lsartr |
| Context Parameters | Rule Name |

2.37.43. unable_to_send_ack (ID: 02400162)

| | |
|---------------------------|---------------------------------|
| Default Severity | CRITICAL |
| Log Message | Unable to send ACK |
| Explanation | Unable to send acknowledgement. |
| Gateway Action | alert |
| Recommended Action | Check memory consumption. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.37.44. got_router_lsa_mismatched_fields (ID: 02400163)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received Router LSA which contains mismatched Link State ID:(<lsaid>) and Advertising Router:(<lsartr>). LSA is discarded |
| Explanation | Received LSA of incompatible Link State ID and Advertising Router. |
| Gateway Action | discard |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | lsaid lsartr |
| Context Parameters | Rule Name |

2.37.45. unknown_neighbor (ID: 02400200)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Unknown neighbor(IP:<neighbor> ID:<neighborid>) seen on <iface>. Ignoring |
| Explanation | Unknown neighbor seen on PTP based interface. |
| Gateway Action | None |

| | |
|---------------------------|---|
| Recommended Action | Check for incorrectly configured neighbors. |
| Revision | 1 |
| Parameters | neighbor neighborid iface |
| Context Parameters | Rule Name |

2.37.46. too_many_neighbors (ID: 02400201)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Too many neighbors on <iface>. Unable to maintain 2-way with all of them(hello packet) |
| Explanation | There are too many OSPF routers on a directly connected network. |
| Gateway Action | None |
| Recommended Action | Reduce the number of OSPF routers on the network. |
| Revision | 1 |
| Parameters | iface |
| Context Parameters | Rule Name |

2.37.47. neighbor_died (ID: 02400202)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Neighbor <neighbor> on <neighboriface> died |
| Explanation | Lost connectivity with neighbor router. |
| Gateway Action | None |
| Recommended Action | Check neighbor status and connectivity. |
| Revision | 1 |
| Parameters | neighbor neighboriface |
| Context Parameters | Rule Name |

2.37.48. unable_to_find_transport_area (ID: 02400300)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Unable to find transport area <area> for VLINK <vlink> when building router LSA. Iface skipped |

| | |
|---------------------------|--|
| Explanation | Unable to find transport area for a vlink. |
| Gateway Action | skip_iface |
| Recommended Action | Check OSPF area configuration. |
| Revision | 1 |
| Parameters | area vlink |
| Context Parameters | Rule Name |

2.37.49. internal_error_unable_to_map_identifier (ID: 02400301)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Internal error: Unable to map a identifier for LSA Type:<lsatype> ID:<lsaid> AdvRouter:<lsaadvtr> |
| Explanation | Unable to map an identifier for a LSA. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | lsatype lsaid lsaadvtr |
| Context Parameters | Rule Name |

2.37.50. lsa_size_too_big (ID: 02400302)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Requested LSA size(<lsasize>) too big. Unable to create LSA |
| Explanation | Unable to create LSA since the size is too big. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | lsasize |
| Context Parameters | Rule Name |

2.37.51. memory_usage_exceeded_70_percent_of_max_allowed

(ID: 02400303)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Memory usage for OSPF process <ospfproc> have now exceeded 70 percent of the maximum allowed |
| Explanation | The memory usage for a OSPF process have exceeded 70 percent of the maximum allowed. |
| Gateway Action | None |
| Recommended Action | Check memory consumption. |
| Revision | 1 |
| Parameters | ospfproc |
| Context Parameters | Rule Name |

2.37.52. memory_usage_exceeded_90_percent_of_max_allowed (ID: 02400304)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Memory usage for OSPF process <ospfproc> have now exceeded 90 percent of the maximum allowed |
| Explanation | The memory usage for a OSPF process have exceeded 70 percent of the maximum allowed. |
| Gateway Action | None |
| Recommended Action | Check memory consumption. |
| Revision | 1 |
| Parameters | ospfproc |
| Context Parameters | Rule Name |

2.37.53. as_disabled_due_to_mem_alloc_fail (ID: 02400305)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | AS disabled due to memory allocation failure |
| Explanation | An OSPF AS have been disabled due to memory allocation failure. |
| Gateway Action | alert |
| Recommended Action | Check memory consumption. |
| Revision | 1 |

| | |
|---------------------------|-----------|
| Context Parameters | Rule Name |
|---------------------------|-----------|

2.37.54. internal_lsa_chksum_error (ID: 02400306)

| | |
|---------------------------|------------------------------|
| Default Severity | CRITICAL |
| Log Message | LSA internal checksum error |
| Explanation | Internal LSA checksum error. |
| Gateway Action | alert |
| Recommended Action | Check hardware for defects. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.37.55. unable_to_find_iface_to_stub_net (ID: 02400400)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Internal error: Unable to find my interface attached to stub network <stub> |
| Explanation | Unable to find local interface attached to stub network. |
| Gateway Action | None |
| Recommended Action | Contact support with a scenario description. |
| Revision | 1 |
| Parameters | stub |
| Context Parameters | Rule Name |

2.37.56. internal_error_unable_to_find_lnk_connecting_to_lsa (ID: 02400401)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Internal error: Unable to find my link connecting to described LSA (NetVtxId: <netvtxid>) |
| Explanation | Unable to find local link to described LSA. |
| Gateway Action | None |
| Recommended Action | Contact support with a scenario description. |
| Revision | 1 |

| | |
|---------------------------|-----------|
| Parameters | netvtxid |
| Context Parameters | Rule Name |

2.37.57. internal_error_unable_to_find_iface_connecting_to_lsa (ID: 02400402)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Internal error: Unable to find my interface connecting to described LSA (NetVtxId: <netvtxid>) |
| Explanation | Unable to find local interface connecting to described LSA. |
| Gateway Action | None |
| Recommended Action | Contact support with a scenario description. |
| Revision | 1 |
| Parameters | netvtxid |
| Context Parameters | Rule Name |

2.37.58. internal_error_unable_to_find_lnk_connecting_to_lsa (ID: 02400403)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Internal error: Unable to find my link connecting to described LSA (RtrVtxId: <rtrvtxid>) |
| Explanation | Unable to find local link connecting to described LSA. |
| Gateway Action | None |
| Recommended Action | Contact support with a scenario description. |
| Revision | 1 |
| Parameters | rtrvtxid |
| Context Parameters | Rule Name |

2.37.59. internal_error_unable_to_find_iface_connecting_to_lsa (ID: 02400404)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Internal error: Unable to find my interface connecting to described LSA (RtrVtxId: <rtrvtxid>) |

| | |
|---------------------------|--|
| Explanation | Unable to find local interface connecting to descried LSA. |
| Gateway Action | None |
| Recommended Action | Contact support with a scenario description. |
| Revision | 1 |
| Parameters | rtrvtxid |
| Context Parameters | Rule Name |

2.37.60. internal_error_unable_neighbor_iface_attached_back_to_me (ID: 02400405)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Internal error: Unable to find neighbor (RtrVtxId: <rtrvtxid>) interface attached back to me |
| Explanation | Unable to find neighbor interface attached back. |
| Gateway Action | None |
| Recommended Action | Contact support with a scenario description. |
| Revision | 1 |
| Parameters | rtrvtxid |
| Context Parameters | Rule Name |

2.37.61. bad_iface_type_mapping_rtr_to_rtr_link (ID: 02400406)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Internal error: Bad interface type (<ifacetype>) when mapping rtr-to-rtr (RtrVtxId:<rtrvtxid>) |
| Explanation | Bad interface type found when doing router-to-router mapping. |
| Gateway Action | None |
| Recommended Action | Check OSPF interface configuration. |
| Revision | 1 |
| Parameters | ifacetype rtrvtxid |
| Context Parameters | Rule Name |

2.37.62. internal_error_unable_to_find_lnk_connecting_to_lsa

(ID: 02400407)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Internal error: Unable to find my link connecting to described LSA (NetVtxId:<netvtxid>) |
| Explanation | Unable to find local link connected to described LSA. |
| Gateway Action | None |
| Recommended Action | Contact support with a scenario description. |
| Revision | 1 |
| Parameters | netvtxid |
| Context Parameters | Rule Name |

2.37.63. memory_allocation_failure (ID: 02400500)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Internal Error: Memory allocation failure! OSPF process now considered inconsistent |
| Explanation | Memory allocation failure. |
| Gateway Action | alert |
| Recommended Action | Check memory consumption. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.37.64. unable_to_send (ID: 02400501)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Internal Error: Unable to send (No sendbuffer?) |
| Explanation | Unable to get buffer for sending. |
| Gateway Action | alert |
| Recommended Action | Check buffer consumption. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.37.65. failed_to_add_route (ID: 02400502)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed to add route <route>! OSPF process should now be considered inconsistent |
| Explanation | Unable to add route. |
| Gateway Action | alert |
| Recommended Action | Check memory consumption. |
| Revision | 1 |
| Parameters | route |
| Context Parameters | Rule Name |

2.38. PPP

These log messages refer to the **PPP (PPP tunnel events)** category.

2.38.1. ip_pool_empty (ID: 02500001)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | IPCP can not assign IP address to peer because the IP address pool is empty |
| Explanation | IPCP can not assign an IP address to the peer because there are no free IP addresses in IP address pool. |
| Gateway Action | failed_ipcp_address_assignment |
| Recommended Action | Increase the number of IP addresses in the IP address pool to allow all connecting clients to be assigned a unique IP address. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.2. ip_address_required_but_not_received (ID: 02500002)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | IP address required but not received. PPP terminated |
| Explanation | Peer refuses to give out an IP address. Since an IP address lease is required, PPP is terminated. |
| Gateway Action | ppp_terminated |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.3. primary_dns_address_required_but_not_received (ID: 02500003)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Primary DNS address required but not received. PPP terminated |
| Explanation | Peer refuses to give out a primary DNS address. Since reception of a primary DNS address is required, PPP is terminated. |
| Gateway Action | ppp_terminated |
| Recommended Action | None. |

| | |
|-------------------|-------------|
| Revision | 1 |
| Parameters | tunnel_type |

2.38.4. secondary_dns_address_required_but_not_received (ID: 02500004)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Secondary DNS address required but not received. PPP terminated |
| Explanation | Peer refuses to give out a secondary DNS address. Since reception of a secondary DNS address is required, PPP is terminated. |
| Gateway Action | ppp_terminated |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.5. primary_nbns_address_required_but_not_received (ID: 02500005)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Primary NBNS address required but not received. PPP terminated |
| Explanation | Peer refuses to give out a primary NBNS address. Since reception of a primary NBNS address is required, PPP is terminated. |
| Gateway Action | ppp_terminated |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.6. secondary_nbns_address_required_but_not_received (ID: 02500006)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Secondary NBNS address required but not received. PPP terminated |
| Explanation | Peer refuses to give out a secondary NBNS address. Since reception of a secondary NBNS address is required, PPP is terminated. |
| Gateway Action | ppp_terminated |

| | |
|---------------------------|-------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.7. failed_to_agree_on_authentication_protocol (ID: 02500050)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed to agree on authentication protocol. PPP terminated |
| Explanation | Failed to agree on PPP authentication protocol. PPP is terminated. |
| Gateway Action | ppp_terminated |
| Recommended Action | Review the allowed authentication protocols configured. The client and server must be configured to have at least one authentication protocol in common. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.8. peer_refuses_to_use_authentication (ID: 02500051)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Peer refuses to use authentication. PPP terminated |
| Explanation | Peer refuses to use any authentication at all. PPP is terminated since we demand authentication. |
| Gateway Action | ppp_terminated |
| Recommended Action | Review the allowed authentication types configured. The client and server must be configured to have at least one authentication type in common. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.9. lcp_negotiation_stalled (ID: 02500052)

| | |
|-------------------------|--|
| Default Severity | ERROR |
| Log Message | LCP negotiation stalled. PPP terminated |
| Explanation | PPP LCP negotiation stalled. Terminating PPP since the peer persistently demands the use of an LCP option that is unsupported. |

| | |
|---------------------------|---|
| Gateway Action | ppp_terminated |
| Recommended Action | Try to reconfigure the peer so it does not demand the use of this LCP option. |
| Revision | 1 |
| Parameters | tunnel_type unsupported_lcp_option |

2.38.10. ppp_tunnel_limit_exceeded (ID: 02500100)

| | |
|---------------------------|--|
| Default Severity | ALERT |
| Log Message | PPP Tunnel license limit exceeded. PPP terminated |
| Explanation | PPP is terminated because the license restrictions do not allow any more PPP tunnels. No new PPP tunnels can be established until an existing one is closed. |
| Gateway Action | ppp_terminated |
| Recommended Action | Upgrade your license to allow more simultaneous PPP tunnels. |
| Revision | 1 |
| Parameters | tunnel_type limit |

2.38.11. authentication_failed (ID: 02500101)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Authentication failed. PPP terminated |
| Explanation | Authentication failed. PPP terminated. |
| Gateway Action | ppp_terminated |
| Recommended Action | Make sure that the right username and password is used. |
| Revision | 1 |
| Parameters | tunnel_type user |

2.38.12. response_value_too_long (ID: 02500150)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | PPP CHAP response value was truncated because it was too long |
| Explanation | PPP CHAP response value was truncated because it was too long. |

| | |
|---------------------------|-------------------------------|
| Gateway Action | chap_response_value_truncated |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.13. username_too_long (ID: 02500151)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | PPP CHAP username was truncated because it was too long |
| Explanation | PPP CHAP username was truncated because it was too long. |
| Gateway Action | chap_username_truncated |
| Recommended Action | Reconfigure the endpoints to use a shorter username. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.14. username_too_long (ID: 02500201)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | PPP MSCHAPv1 username was truncated because it was too long |
| Explanation | PPP MSCHAPv1 username was truncated because it was too long. |
| Gateway Action | mschapv1_username_truncated |
| Recommended Action | Reconfigure the endpoints to use a shorter username. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.15. username_too_long (ID: 02500301)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | PPP MSCHAPv2 username was truncated because it was too long |
| Explanation | PPP MSCHAPv2 username was truncated because it was too long. |
| Gateway Action | mschapv2_username_truncated |
| Recommended Action | Reconfigure the endpoints to use a shorter username. |
| Revision | 1 |

| | |
|-------------------|-------------|
| Parameters | tunnel_type |
|-------------------|-------------|

2.38.16. username_too_long (ID: 02500350)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | PPP PAP username was truncated because it was too long |
| Explanation | PPP PAP username was truncated because it was too long. |
| Gateway Action | pap_username_truncated |
| Recommended Action | Reconfigure the endpoints to use a shorter username. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.17. password_too_long (ID: 02500351)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | PPP PAP password was truncated because it was too long |
| Explanation | PPP PAP password was truncated because it was too long. |
| Gateway Action | pap_password_truncated |
| Recommended Action | Reconfigure the endpoints to use a shorter password. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.18. unsupported_auth_server (ID: 02500500)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Unsupported authentication server. PPP Authentication terminated |
| Explanation | Unsupported authentication server. PPP Authentication terminated. |
| Gateway Action | authentication_terminated |
| Recommended Action | Review the authentication server configuration. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.19. radius_error (ID: 02500501)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Radius server authentication error. PPP Authentication terminated |
| Explanation | There was an error while authenticating using a radius server. PPP Authentication terminated. |
| Gateway Action | authentication_terminated |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.20. authdb_error (ID: 02500502)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Local database authentication error. PPP Authentication terminated |
| Explanation | There was an error while authenticating using a local user database. PPP Authentication terminated. |
| Gateway Action | authentication_terminated |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.21. ldap_error (ID: 02500503)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | LDAP server authentication error. PPP Authentication terminated |
| Explanation | There was an error while authenticating using a LDAP server. PPP Authentication terminated. |
| Gateway Action | authentication_terminated |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tunnel_type |

2.38.22. MPPE_decrypt_fail (ID: 02500600)

| | |
|-------------------------|-------|
| Default Severity | ERROR |
|-------------------------|-------|

| | |
|---------------------------|--|
| Log Message | MPPE decryption resulted in the unsupported protocol <protocol>. Terminating PPP |
| Explanation | MPPE decryption resulted in an unsupported protocol. IP is the only protocol supported. This either means that the decryption failed or that the peer actually sent data using an unsupported protocol. PPP is terminated. |
| Gateway Action | ppp_terminated |
| Recommended Action | Reconnect the tunnel. If the peer keeps sending the same unsupported protocol, try to reconfigure the peer to only send IP packets through the tunnel. |
| Revision | 1 |
| Parameters | protocol |

2.39. PPPOE

These log messages refer to the **PPPOE (PPPoE tunnel events)** category.

2.39.1. pppoe_tunnel_up (ID: 02600001)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | PPPoE tunnel on <iface> established to <pppoeserver>. Auth: <auth>, IfaceIP: <ifaceip>, Downtime: <downtime> |
| Explanation | The PPPoE tunnel for the interface have been established. . |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface pppoeserver auth ifaceip downtime |

2.39.2. pppoe_tunnel_closed (ID: 02600002)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | PPPoE tunnel on <iface> to <pppoeserver> closed. Uptime: <uptime> |
| Explanation | The PPPoE tunnel for the interface have been closed. . |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface pppoeserver uptime |

2.40. PPTP

These log messages refer to the **PPTP (PPTP tunnel events)** category.

2.40.1. pptpclient_resolve_successful (ID: 02700001)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | PPTP client <iface> resolved <remotegwname> to <remotegw> |
| Explanation | The PPTP client successfully resolved the DNS name of remote gateway. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegwname remotegw |

2.40.2. pptpclient_resolve_failed (ID: 02700002)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | PPTP client <iface> failed to resolve <remotegwname> |
| Explanation | The PPTP client failed to resolve the DNS name of the remote gateway. |
| Gateway Action | None |
| Recommended Action | Make sure you have configured the DNS name of the remote gateway and the DNS servers correctly. |
| Revision | 1 |
| Parameters | iface remotegwname |

2.40.3. pptp_connection_disallowed (ID: 02700003)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | PPTP connection from <remotegw> disallowed according to rule <rule>! Call ID: <callid> |
| Explanation | The PPTP connection is disallowed by the new configuration according to the specified userauth rule. Closing down the PPTP connection. |
| Gateway Action | pptp_connection_closed |

| | |
|---------------------------|--|
| Recommended Action | Make sure the userauth rules are configured correctly. |
| Revision | 1 |
| Parameters | rule remotegw callid |

2.40.4. unknown_pptp_auth_source (ID: 02700004)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unknown PPTP authentication source for <rule>! Remote gateway: <remotegw>, Call ID: <callid> |
| Explanation | The authentication source for the specified userauth rule found in the new configuration is unknown to the PPTP server. Closing down the PPTP connection. |
| Gateway Action | pptp_connection_closed |
| Recommended Action | Make sure the userauth rules are configured correctly. |
| Revision | 1 |
| Parameters | rule remotegw callid |

2.40.5. user_disconnected (ID: 02700005)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | User <user> is forcibly disconnected. Call ID: <callid> Remote gateway: <remotegw> |
| Explanation | The connected client is forcibly disconnected by the userauth system. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | user callid remotegw |

2.40.6. only_routes_set_up_by_server_iface_allowed (ID: 02700006)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | PPTP server <iface> received a packet routed by a route not set up by the interface itself. Dropping packet. |
| Explanation | The PPTP server interface received a packet that was routed to the interface by a route that was either manually configured or set up by another subsystem. Traffic can only be sent out on the PPTP server using the dynamic routes set up by the interface itself. |
| Gateway Action | drop |
| Recommended Action | Make sure there are no manually configured routes pointing to the PPTP server interface in the configuration. |
| Revision | 1 |
| Parameters | iface |

2.40.7. mppe_required (ID: 02700007)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | MPPE failed but is required, closing session <callid> to <remotegw> on <iface>. |
| Explanation | MPPE is required by the configuration but the MPPE negotiation failed. Session will be closed. |
| Gateway Action | close_session |
| Recommended Action | Make sure the peer is capable of MPPE encryption, or disable the MPPE requirement. |
| Revision | 1 |
| Parameters | iface remotegw callid |

2.40.8. pptp_session_closed (ID: 02700008)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | PPTP session <callid> to <remotegw> on <iface> closed. |
| Explanation | A PPTP session has been closed. The specified interface, remote gateway and call ID identify the specific session. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegw callid |

2.40.9. pptp_session_request (ID: 02700009)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | PPTP session request sent on control connection to <remotegw> |
| Explanation | An PPTP session request has been sent on the control connection to the specified remote gateway. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | remotegw |

2.40.10. unsupported_message (ID: 02700010)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unsupported message type <type> received on session <callid> from <remotegw>. Ignoring message. |
| Explanation | A message with unsupported type received. Ignoring it. The specified interface, remote gateway and call ID identify the specific session. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface type callid remotegw |

2.40.11. failure_init_radius_accounting (ID: 02700011)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Failed to send Accounting Start to RADIUS Accounting Server. Accounting will be disabled. Interface: <iface>, Remote gateway: <remotegw>, Call ID: <callid> |
| Explanation | Failed to send START message to RADIUS accounting server. RADIUS accounting will be disabled for this session. The specified interface, remote gateway and call ID identify the specific session. |
| Gateway Action | accounting_disabled |
| Recommended Action | Make sure the RADIUS accounting configuration is correct. |

| | |
|-------------------|-----------------------------|
| Revision | 1 |
| Parameters | callid remotegw iface |

2.40.12. pptp_session_up (ID: 02700012)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | PPP negotiation completed for session <callid> to <remotegw> on <iface>. User: <user>, Auth: <auth>, MPPE: <mppe>, Assigned IP: <assigned_ip> |
| Explanation | The PPP negotiation has completed successfully for this session. The specified interface, remote gateway and call ID identify the specific session. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | callid iface remotegw user auth mppe assigned_ip |

2.40.13. pptp_session_up (ID: 02700013)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | PPP negotiation completed for session <callid> on <iface> connected to <remotegw>. Auth: <auth>, MPPE: <mppe> |
| Explanation | The PPP negotiation has completed successfully for this session. The specified interface, remote gateway and call ID identify the specific session. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | callid iface remotegw auth mppe |

2.40.14. tunnel_idle_timeout (ID: 02700014)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | PPTP tunnel to <remotegw> on <iface> has been idle for too long. Closing it. |
| Explanation | A PPTP tunnel has been idle for too long. Tunnel will be closed. |
| Gateway Action | close_tunnel |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegw |

2.40.15. session_idle_timeout (ID: 02700015)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | PPTP session <callid> to <remotegw> on <iface> has been idle for too long. Closing it. |
| Explanation | A PPTP session has been idle for too long. Session will be closed. |
| Gateway Action | close_session |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegw callid |

2.40.16. pptpclient_start (ID: 02700017)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | PPTP client <iface> started, connecting to server on <remotegw> |
| Explanation | A PPTP client has initiated the connection to its remote gateway. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegw |

2.40.17. pptpclient_connected (ID: 02700018)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | PPTP client <iface> connected to <remotegw>, requesting control connection |
| Explanation | A PPTP client has established a connection to its remote gateway and is sending a control connection request message. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegw |

2.40.18. pptp_tunnel_up (ID: 02700019)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | PPTP tunnel up, client <remotegw> connected to <iface> |
| Explanation | A remote PPTP client has established a connection to this PPTP server. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegw |

2.40.19. ctrlconn_refused (ID: 02700020)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | The remote PPTP server on <remotegw> refused to establish PPTP control connection. Reason: <reason> |
| Explanation | A remote PPTP server refused to establish PPTP control connection. |
| Gateway Action | None |
| Recommended Action | Read the reason specified by the PPTP server. This might give a clue why the PPTP server refused the PPTP control connection. |
| Revision | 1 |
| Parameters | reason |

iface
remotegw

2.40.20. pptp_tunnel_up (ID: 02700021)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | PPTP tunnel on <iface> is up. Connected to server on <remotegw>. |
| Explanation | This PPTP client has established a control connection to the remote PPTP server. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegw |

2.40.21. pptp_tunnel_closed (ID: 02700022)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | PPTP tunnel to <remotegw> on <iface> closed. |
| Explanation | The PPTP tunnel to has been closed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegw |

2.40.22. pptp_connection_disallowed (ID: 02700024)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | PPTP connection from <remotegw> disallowed according to rule <rule>. Interface: <iface>. |
| Explanation | The PPTP connection is disallowed according to the specified userauth rule. |
| Gateway Action | None |
| Recommended Action | Make sure the userauth rules are configured correctly. |
| Revision | 1 |

| | |
|-------------------|---------------------------|
| Parameters | rule iface remotegw |
|-------------------|---------------------------|

2.40.23. unknown_pptp_auth_source (ID: 02700025)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unknown PPTP authentication source for <rule>!. Interface: <iface>, Remote gateway: <remotegw>. |
| Explanation | The authentication source for the specified userauth rule is unknown to the PPTP server. |
| Gateway Action | None |
| Recommended Action | Make sure the userauth rules are configured correctly. |
| Revision | 1 |
| Parameters | rule iface remotegw |

2.40.24. pptp_no_userauth_rule_found (ID: 02700026)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Did not find a matching userauth rule for the incoming PPTP connection. Interface: <iface>, Remote gateway: <remotegw>. |
| Explanation | The PPTP server was unsuccessful trying to find a userauth rule matching the incoming PPTP connection. |
| Gateway Action | None |
| Recommended Action | Make sure the userauth rules are configured correctly. |
| Revision | 1 |
| Parameters | iface remotegw |

2.40.25. malformed_packet (ID: 02700027)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Malformed packet received from <remotegw> on <iface>. Error code: <error_code> |
| Explanation | A malformed packet was received by the PPTP interface. |
| Gateway Action | None |

| | |
|---------------------------|---------------------------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface remotegw error_code |

2.40.26. waiting_for_ip_to_listen_on (ID: 02700050)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | PPTP server <iface> cannot start until it has an IP address to listen on. |
| Explanation | The PPTP server cannot start until it has a proper IP address to listen on. |
| Gateway Action | None |
| Recommended Action | Make sure that the IP address is configured correctly on the PPTP server interface. If the PPTP server is supposed to listen on an IP assigned by a DHCP server, make sure that the DHCP server is working properly. |
| Revision | 1 |
| Parameters | iface |

2.41. RADIUSRELAY

These log messages refer to the **RADIUSRELAY (RADIUS relay)** category.

2.41.1. malformed_packet (ID: 07500001)

| | |
|---------------------------|----------------------------------|
| Default Severity | WARNING |
| Log Message | Malformed packet received. |
| Explanation | A malformed packet was received. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | username imsi mac iface |

2.41.2. user_reauthenticated (ID: 07500002)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | User <username> was reauthenticated. |
| Explanation | A user was re-authenticated. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | username imsi mac iface ip |

2.41.3. user_authenticated (ID: 07500003)

| | |
|---------------------------|------------------------------------|
| Default Severity | NOTICE |
| Log Message | User <username> was authenticated. |
| Explanation | A user was authenticated. |
| Gateway Action | None |
| Recommended Action | None. |

| | |
|-------------------|---|
| Revision | 1 |
| Parameters | username imsi mac iface ip calledstationid |

2.41.4. user_removed_timeout (ID: 07500004)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | User <username> was removed due to timeout. |
| Explanation | A user was removed because a timeout was reached. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | username imsi mac iface ip |

2.41.5. user_authentication_rejected (ID: 07500005)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | User <username> authentication was rejected |
| Explanation | A user authentication was rejected. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | username imsi mac iface calledstationid |

2.41.6. user_logged_out (ID: 07500006)

| | |
|-------------------------|--------|
| Default Severity | NOTICE |
|-------------------------|--------|

| | |
|---------------------------|--|
| Log Message | User <username> was logged out. |
| Explanation | A user was logged out. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | username imsi mac iface ip |

2.41.7. login_from_same_mac (ID: 07500007)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | User <newusername> is logging from in the same MAC address as <username>, logging out current user. |
| Explanation | A user is logging in from the same MAC address as an already authenticated user. The current user will be logged out. |
| Gateway Action | logout_current_user |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | username imsi mac iface ip newusername |

2.41.8. create_server_session_failed (ID: 07500009)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed to create server session for <name> on <ip>:<port> on interface <iface>. |
| Explanation | It was not possible to start a session for listening for RADIUS traffic. |
| Gateway Action | none |
| Recommended Action | Check configuration. |
| Revision | 1 |
| Parameters | name iface |

ip
port

2.41.9. login_from_new_mac (ID: 07500010)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | User <username> is logging in from another MAC address, logging out current user. |
| Explanation | An already authenticated user is logging in from a new MAC address than before. The current user instance will be logged out. |
| Gateway Action | logout_current_user |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | username imsi mac iface ip newmac |

2.42. REASSEMBLY

These log messages refer to the **REASSEMBLY (Events concerning data reassembly)** category.

2.42.1. ack_of_not_transmitted_data (ID: 04800002)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | TCP segment acknowledges data not yet transmitted |
| Explanation | A TCP segment that acknowledges data not yet transmitted was received. The segment will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Connection |

2.42.2. invalid_tcp_checksum (ID: 04800003)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | TCP segment with invalid checksum |
| Explanation | A TCP segment with an invalid checksum was received. The segment will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Connection |

2.42.3. mismatching_data_in_overlapping_tcp_segment (ID: 04800004)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | Overlapping TCP segment containing different data |
| Explanation | A TCP segment that partly overlaps segments that has been received earlier was received. The data in the overlapping part is however different from the data in the segments received earlier. The segment's data will be replaced so that it is consistent with the earlier received segments. |
| Gateway Action | correct the data |

| | |
|---------------------------|--|
| Recommended Action | Research the source of this erroneous traffic. |
| Revision | 1 |
| Context Parameters | Connection |

2.42.4. memory_allocation_failure (ID: 04800005)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Can't allocate memory to keep track of a packet |
| Explanation | The gateway is unable to allocate memory to keep track of packet that was received. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | Review configuration to reduce memory consumption. |
| Revision | 1 |

2.42.5. drop_due_to_buffer_starvation (ID: 04800007)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Can't allocate resources to process a packet |
| Explanation | The gateway ran out of resources when trying to allocate resources to send a packet. The packet that triggered the need to send a packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | Check buffer consumption. |
| Revision | 1 |

2.42.6. failed_to_send_ack (ID: 04800008)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed to send TCP ACK in response to a segment |
| Explanation | The gateway responds to some segments by sending an acknowledgement segment to the sender. An example is when it receives a segment that is outside of the receiver's receive window. This log message indicates that the gateway failed to allocate resources to send such an acknowledgement segment. |
| Gateway Action | none |
| Recommended Action | Check buffer consumption. |
| Revision | 1 |

2.42.7. processing_memory_limit_reached (ID: 04800009)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Maximum processing memory limit reached |
| Explanation | The reassembly subsystem has reached the maximum limit set on its processing memory. This will decrease the performance of connections that are processed by the reassembly subsystem. |
| Gateway Action | drop |
| Recommended Action | Consider increasing the setting Reassembly_MaxProcessingMem. |
| Revision | 1 |

2.42.8. maximum_connections_limit_reached (ID: 04800010)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Maximum connections limit reached |
| Explanation | The reassembly subsystem has reached the maximum number of concurrent connections. |
| Gateway Action | none |
| Recommended Action | Consider increasing the setting Reassembly_MaxConnections. |
| Revision | 1 |
| Context Parameters | Connection |

2.42.9. state_memory_allocation_failed (ID: 04800011)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed to allocate the memory needed to activate reassembly on a connection |
| Explanation | The reassembly subsystem has failed to allocate the memory needed to activate reassembly on a connection. |
| Gateway Action | none |
| Recommended Action | Review configuration to reduce memory consumption. |
| Revision | 1 |
| Context Parameters | Connection |

2.43. RFO

These log messages refer to the **RFO (Route fail over events)** category.

2.43.1. has_ping (ID: 04100001)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Interface <iface>, Table <table>, Net <net>: Route enabled, got PING reply from GW <gateway> |
| Explanation | Route is available. Received PING reply from the gateway. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | iface table net gateway |

2.43.2. no_ping (ID: 04100002)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Interface <iface>, Table <table>, Net <net>: Unable to open conn for PING trying again later |
| Explanation | Unable to open a connection to verify the status of the route. Will try again later. |
| Gateway Action | try_again_later |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface table net gateway |

2.43.3. no_ping (ID: 04100003)

| | |
|-------------------------|---|
| Default Severity | ERROR |
| Log Message | Interface <iface>, Table <table>, Net <net>: Route disabled, no PING reply from Gateway <gateway> |
| Explanation | Route is not available, and has been disabled. Did not receive a PING |

| | |
|---------------------------|----------------------------------|
| | reply from the gateway. |
| Gateway Action | route_disabled |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface table net gateway |

2.43.4. unable_to_register_pingmon (ID: 04100004)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Interface <iface>, Table <table>, Net <net>: Route no longer monitored, unable to register PING monitor |
| Explanation | Internal Error: The route is no longer monitored. Failed to register PING Route Monitor. |
| Gateway Action | route_not_monitored |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface table net gateway |

2.43.5. unable_to_register_pingmon (ID: 04100005)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Interface <iface>, Table <table>, Net <net>: Route no longer monitored via PING, unable to register PING monitor |
| Explanation | Internal Error: The route is no longer monitored. Failed to register PING Route Monitor. |
| Gateway Action | disabled_monitor |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface table net gateway |

2.43.6. has_arp (ID: 04100006)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Interface <iface>, Table <table>, Net <net>: Route enabled, got ARP reply from Gateway <gateway> |
| Explanation | Route is available. Received ARP reply from the gateway. |
| Gateway Action | route_enabled |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | iface table net gateway |

2.43.7. no_arp (ID: 04100007)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Interface <iface>, Table <table>, Net <net>: Route disabled, no ARP reply from Gateway <gateway> |
| Explanation | Route is not available, and has been disabled. Did not receive a ARP reply from the gateway. |
| Gateway Action | route_disabled |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | iface table net gateway |

2.43.8. unable_to_register_arp_monitor (ID: 04100008)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Interface <iface>, Table <table>, Net <net>: Route no longer monitored, unable to register ARP monitor |
| Explanation | Internal Error: The route is no longer monitored. Failed to register ARP Route Monitor. |
| Gateway Action | no_monitoring |
| Recommended Action | None. |

| | |
|-------------------|----------------------------------|
| Revision | 1 |
| Parameters | iface table net gateway |

2.43.9. unable_to_register_arp_monitor (ID: 04100009)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Interface <iface>, Table <table>, Net <net>: Route no longer monitored via ARP, unable to register ARP monitor |
| Explanation | Internal Error: The route is no longer monitored. Failed to register ARP Route Monitor. |
| Gateway Action | disabled_monitor |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface table net gateway |

2.43.10. no_link (ID: 04100010)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Interface <iface> has no link (reason: <reason>), all associated routes disabled. |
| Explanation | The interface has no link, and all associated routes has been disabled. |
| Gateway Action | associated_routes_disabled |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | iface reason |

2.43.11. has_link (ID: 04100011)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | Interface <iface> has link. Some associated routes may require ARP to be enabled |

| | |
|---------------------------|---|
| Explanation | The interface has a link. Some associated routes may require ARP to be enabled. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | iface |

2.43.12. unable_to_register_interface_monitor (ID: 04100012)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Interface <iface>, Table <table>, Net <net>: Route no longer monitored, unable to register interface monitor |
| Explanation | Internal Error: Route is no longer monitored. Unable to register Interface Monitor. |
| Gateway Action | no_monitoring |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface table net gateway |

2.43.13. unable_to_register_interface_monitor (ID: 04100013)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Interface <iface>, Table <table>, Net <net>: Route no longer monitored, unable to register interface monitor |
| Explanation | Internal Error: Route is no longer monitored. Unable to register Interface Monitor. |
| Gateway Action | disabled_monitor |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface table net gateway |

2.43.14. hostmon_failed (ID: 04100014)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Interface <iface>, Table <table>, Net <net>: Route disabled, host monitoring failed |
| Explanation | Route is disabled. Host monitoring failed. |
| Gateway Action | route_disabled |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface table net |

2.43.15. hostmon_successful (ID: 04100015)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Interface <iface>, Table <table>, Net <net>: Route enabled, host monitoring successful |
| Explanation | Route is available. Host monitoring successful. |
| Gateway Action | route_enabled |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | iface table net |

2.44. RULE

These log messages refer to the **RULE (Events triggered by rules)** category.

2.44.1. ruleset_fwdfast (ID: 06000003)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Packet statelessly forwarded (fwdfast) |
| Explanation | The packet matches a rule with a "fwdfast" action, and is statelessly forwarded. |
| Gateway Action | fwdfast |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Information Packet Buffer |

2.44.2. ip_verified_access (ID: 06000005)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | IP address verified according to ACCESS section |
| Explanation | The IP address was verified according to the ACCESS section. |
| Gateway Action | access_allow |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.44.3. rule_match (ID: 06000006)

| | |
|---------------------------|--|
| Default Severity | DEBUG |
| Log Message | GOTO action trigged |
| Explanation | A rule with a special GOTO action was triggered by an IP-rule lookup. This log message only appears if you explicitly requested it for the rule in question, and it is considered of DEBUG severity. |
| Gateway Action | GOTO |
| Recommended Action | None. |
| Revision | 1 |

| | |
|---------------------------|--|
| Context Parameters | Rule Name Rule Information Packet Buffer |
|---------------------------|--|

2.44.4. rule_match (ID: 06000007)

| | |
|---------------------------|--|
| Default Severity | DEBUG |
| Log Message | RETURN action triggered |
| Explanation | A rule with a special RETURN action was triggered by an IP-rule lookup. This log message only appears if you explicitly requested it for the rule in question, and it is considered of DEBUG severity. |
| Gateway Action | RETURN |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Rule Information Packet Buffer |

2.44.5. block0net (ID: 06000010)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Destination address is the 0.* net. Dropping |
| Explanation | The destination address was the 0.* net, which is not allowed according to the configuration. The packet is dropped. |
| Gateway Action | drop |
| Recommended Action | Investigate why this traffic had the 0.* net as the destination. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.44.6. block0net (ID: 06000011)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Destination address is the 0.* net. Accepting |
| Explanation | The destination address was the 0.* net, which is allowed according to the configuration. The packet is accepted. |
| Gateway Action | accept |
| Recommended Action | If this type of traffic should be dropped, modify the "Settings" |

| | |
|---------------------------|-------------------------------|
| | section in the configuration. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.44.7. block127net (ID: 06000012)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Destination address is the 127.* net. Dropping |
| Explanation | The destination address was the 127.* net, which is not allowed according to the configuration. The packet is dropped. |
| Gateway Action | drop |
| Recommended Action | Investigate why this traffic had the 127.* net as the destination. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.44.8. block127net (ID: 06000013)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Destination address is the 127.* net. Accepting |
| Explanation | The destination address was the 127.* net, which is allowed according to the configuration. The packet is accepted. |
| Gateway Action | accept |
| Recommended Action | If this type of traffic should be dropped, modify the "Settings" section in the configuration. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.44.9. block0net (ID: 06000020)

| | |
|-------------------------|--|
| Default Severity | WARNING |
| Log Message | Destination address is the 0::/8 net. Dropping |
| Explanation | The destination address was the 0::/8 net, which is not allowed according to the configuration. The packet is dropped. |
| Gateway Action | drop |

| | |
|---------------------------|--|
| Recommended Action | Investigate why this traffic had the 0::/8 net as the destination. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.44.10. block0net (ID: 06000021)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Destination address is the 0::/8 net. Accepting |
| Explanation | The destination address was the 0::/8 net, which is allowed according to the configuration. The packet is accepted. |
| Gateway Action | accept |
| Recommended Action | If this type of traffic should be dropped, modify the "Settings" section in the configuration. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.44.11. directed_broadcasts (ID: 06000030)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Packet directed to the broadcast address of the destination network. Forwarding |
| Explanation | The packet was directed to the broadcast address of the destination network, and the unit is configured to allow this. |
| Gateway Action | forward |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.44.12. directed_broadcasts (ID: 06000031)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | Packet directed to the broadcast address of the destination network. Dropping |
| Explanation | The packet was directed to the broadcast address of the destination network, and the unit is configured to disallow this. |

| | |
|---------------------------|-----------|
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name |

2.44.13. unknown_vlanitag (ID: 06000040)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Received VLAN packet with unknown type<type> and VLAN ID <vlanid>. Dropping |
| Explanation | The unit received a VLAN packet with an unknown tag, and the packet is dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 3 |
| Parameters | type vlanid |
| Context Parameters | Rule Name Packet Buffer |

2.44.14. ruleset_reject_packet (ID: 06000050)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Packet rejected by rule-set. Rejecting |
| Explanation | The rule-set is configured to rejected this packet. |
| Gateway Action | reject |
| Recommended Action | If this is not the indended behaviour, modify the rule-set. |
| Revision | 1 |
| Context Parameters | Rule Information Packet Buffer |

2.44.15. ruleset_drop_packet (ID: 06000051)

| | |
|-------------------------|---|
| Default Severity | WARNING |
| Log Message | Packet dropped by rule-set. Dropping |
| Explanation | The rule-set is configured to drop this packet. |

| | |
|---------------------------|---|
| Gateway Action | drop |
| Recommended Action | If this is not the intended behaviour, modify the rule-set. |
| Revision | 1 |
| Context Parameters | Rule Information Packet Buffer |

2.44.16. unhandled_local (ID: 06000060)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Allowed but unhandled packet to the firewall. Dropping |
| Explanation | A packet directed to the unit itself was received. The packet is allowed, but there is no matching state information for this packet. It is not part of any open connections, and will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.45. SECAAS

These log messages refer to the **SECAAS (Security as a Service)** category.

2.45.1. secaas_enter_reduced_functionality (ID: 07608000)

| | |
|---------------------------|---|
| Default Severity | EMERGENCY |
| Log Message | The Security Gateway has been placed in reduced functionality mode. Reason code: <reason> DateTime: <date_time> |
| Explanation | The Security Gateway has been placed in reduced functionality mode. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason date_time |

2.45.2. secaas_exit_reduced_functionality (ID: 07608001)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | The Security Gateway has exited reduced functionality mode. License has been validated by the CSPN network |
| Explanation | The Security Gateway has exited reduced functionality mode. License has been validated by the CSPN network. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.45.3. secaas_periodic_call_home (ID: 07608004)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | The Security Gateway did a periodic Call-Home in order to verify that the license is up to date and valid. |
| Explanation | The Security Gateway did a periodic Call-Home in order to verify that the license is up to date and valid. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.45.4. secaas_lockdown (ID: 07608006)

| | |
|---------------------------|--|
| Default Severity | EMERGENCY |
| Log Message | The firewall has been placed in local lockdown mode (<reason>) |
| Explanation | The firewall has been placed in local lockdown mode. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.45.5. secaas_call_home_initiation_failure (ID: 07608007)

| | |
|---------------------------|--|
| Default Severity | ALERT |
| Log Message | Call-Home request could not be started. Call-Home returned <result_code> |
| Explanation | Call-Home request could not be started. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | result_code |

2.45.6. secaas_download_license_failure (ID: 07608008)

| | |
|---------------------------|--|
| Default Severity | ALERT |
| Log Message | The Security Gateway failed to start the license download procedure. Error <result_code> |
| Explanation | The Security Gateway failed to start the license download procedure. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | result_code |

2.45.7. call_home_completed (ID: 07608009)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | SECaaS Call-Home Service query completed (<server_ip>) (<code>) |
| Explanation | A SECaaS Call-Home Service query was completed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | server_ip code |

2.45.8. call_home_failure (ID: 07608010)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | All Call-Home Service servers failed (<reason>) (<cspn_fqdn>) |
| Explanation | None of the resolved Call-Home Service servers could be reached. . |
| Gateway Action | None |
| Recommended Action | Verify that the Security Gateway and your network is configured to make HTTP requests to the IPs resolved. |
| Revision | 1 |
| Parameters | reason cspn_fqdn |

2.45.9. call_home_failure (ID: 07608011)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Call-Home Service server failure (<server_ip>) (<code>) (<reason>) |
| Explanation | The Call-Home Service server could not be reached. . |
| Gateway Action | None |
| Recommended Action | Verify that the Security Gateway and your network is configured to make HTTP requests to the logged IP. |
| Revision | 1 |
| Parameters | server_ip code reason |

2.45.10. call_home_lookup_failed (ID: 07608012)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Call-Home Service servers IP addresses could not be resolved |
| Explanation | The Security Gateway failed to resolve the Call-Home Service server. |
| Gateway Action | None |
| Recommended Action | Verify that the Security Gateway and your network is configured to make DNS lookups. |
| Revision | 1 |

2.45.11. license_request_completed (ID: 07608013)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | SECaaS license server request completed (<server_ip>) (<code>) |
| Explanation | A SECaaS license server request was completed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | server_ip code |

2.45.12. license_download_initiated (ID: 07608014)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Initiating SECaaS license download |
| Explanation | A SECaaS license download has been initiated. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.45.13. call_home_initiated (ID: 07608015)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | Initiating SECaaS Call-Home request |
| Explanation | A SECaaS Call-Home request has been initiated. |
| Gateway Action | None |

| | |
|---------------------------|-------|
| Recommended Action | None. |
| Revision | 1 |

2.45.14. `secaas_reduced_mode_replacement_log` (ID: 07608016)

| | |
|---------------------------|--|
| Default Severity | EMERGENCY |
| Log Message | The Security Gateway is in reduced functionality mode. |
| Explanation | The Security Gateway is in reduced functionality mode. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.46. SESMGR

These log messages refer to the **SESMGR (Session Manager events)** category.

2.46.1. sesmgr_session_created (ID: 04900001)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Session connected for User: <user>. Database: <database>. IP: <ip>. Type: <type>. |
| Explanation | New session created in Session Manager. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | user database ip type |

2.46.2. sesmgr_session_denied (ID: 04900002)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | New session denied for User: <user>. Database: <database>. IP: <ip>. Type: <type>. |
| Explanation | New session denied in Session Manager. |
| Gateway Action | remove_session |
| Recommended Action | Check settings for users. |
| Revision | 1 |
| Parameters | user database ip type |

2.46.3. sesmgr_session_removed (ID: 04900003)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | Session disconnected for User: <user>. Database: <database>. IP: <ip>. Type: <type>. |
| Explanation | Session disconnected in Session Manager. |
| Gateway Action | none |

| | |
|---------------------------|--------------------------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | user database ip type |

2.46.4. sesmgr_access_set (ID: 04900004)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Access level changed to <access> for User: <user>. Database: <database>. IP: <ip>. Type: <type>. |
| Explanation | Access level has been changed for session. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | user access database ip type |

2.46.5. sesmgr_session_timeout (ID: 04900005)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Session has timed out for User: <user>. Database: <database>. IP: <ip>. Type: <type>. |
| Explanation | Session has timed out and will be removed. |
| Gateway Action | remove_session |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | user database ip type |

2.46.6. sesmgr_upload_denied (ID: 04900006)

| | |
|-------------------------|--------|
| Default Severity | NOTICE |
|-------------------------|--------|

| | |
|---------------------------|---|
| Log Message | File upload connection denied for User: <user>. IP: <ip>. Type: <type>. |
| Explanation | Administrator session already active, file upload session denied. |
| Gateway Action | deny_upload |
| Recommended Action | Terminate administrator session and try again. |
| Revision | 1 |
| Parameters | user ip type |

2.46.7. sesmgr_console_denied (ID: 04900007)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Could not create new console for User: <user>. Database: <database>. IP: <ip>. Type: <type>. |
| Explanation | Could not create new console, new session will be removed. |
| Gateway Action | remove_session |
| Recommended Action | Check maximum number of sessions and consoles. |
| Revision | 1 |
| Parameters | user database ip type |

2.46.8. sesmgr_session_maximum_reached (ID: 04900008)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Maximum number of sessions reached |
| Explanation | Maximum number of sessions reached. |
| Gateway Action | deny_new_session |
| Recommended Action | Remove inactive sessions or increase maximum number of allowed sessions. |
| Revision | 1 |

2.46.9. sesmgr_allocate_error (ID: 04900009)

| | |
|-------------------------|-----------|
| Default Severity | EMERGENCY |
|-------------------------|-----------|

| | |
|---------------------------|--|
| Log Message | Could not allocate memory for new session |
| Explanation | Could not allocate memory for new session. |
| Gateway Action | none |
| Recommended Action | Check memory. |
| Revision | 1 |

2.46.10. sesmgr_session_activate (ID: 04900010)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Session has been activated for User: <user>. Database: <database>. IP: <ip>. Type: <type>. |
| Explanation | Disabled session has been activated. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | user database ip type |

2.46.11. sesmgr_session_disabled (ID: 04900011)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Session has been disabled for User: <user>. Database: <database>. IP: <ip>. Type: <type>. |
| Explanation | Session has been disabled. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | user database ip type |

2.46.12. sesmgr_console_denied_init (ID: 04900012)

| | |
|-------------------------|-------|
| Default Severity | ALERT |
|-------------------------|-------|

| | |
|---------------------------|--|
| Log Message | Could not create new console at initialization of Security Gateway for User: <user>. Database: <database>. IP: <ip>. Type: <type>. |
| Explanation | Could not create new console at initialization of Security Gateway. |
| Gateway Action | remove_session |
| Recommended Action | Check maximum number of sessions and consoles. |
| Revision | 1 |
| Parameters | user database ip type |

2.46.13. sesmgr_session_access_missing (ID: 04900015)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | No access level set for User: <user>. Database: <database>. IP: <ip>. Type: <type>. |
| Explanation | No access level set for user, new session denied. |
| Gateway Action | deny_session |
| Recommended Action | Check user settings. |
| Revision | 1 |
| Parameters | user database ip type |

2.46.14. sesmgr_session_old_removed (ID: 04900016)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Old session disconnected to be replaced for User: <user>. Database: <database>. IP: <ip>. Type: <type>. |
| Explanation | Old session disconnected and is being replaced by a new session for the user. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | user database ip type |

2.46.15. sesmgr_file_error (ID: 04900017)

| | |
|---------------------------|--|
| Default Severity | ALERT |
| Log Message | Error accessing files. |
| Explanation | Error occurred when accessing files for reading/writing. |
| Gateway Action | file_error |
| Recommended Action | Check available memory. |
| Revision | 1 |

2.46.16. sesmgr_techsupport (ID: 04900018)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Sending technical support file. |
| Explanation | Technical support file created and is being sent to user. |
| Gateway Action | techsupport_created |
| Recommended Action | None. |
| Revision | 1 |

2.47. SLB

These log messages refer to the **SLB (SLB events)** category.

2.47.1. server_online (ID: 02900001)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | SLB Server <server_ip> is online according to monitor |
| Explanation | A disabled server has been determined to be alive again. |
| Gateway Action | Adding this server to the active servers list. |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | server_ip |
| Context Parameters | Rule Name |

2.47.2. server_offline (ID: 02900002)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SLB Server <server_ip> is offline according to monitor |
| Explanation | The server is determined to be offline according to monitor. |
| Gateway Action | Removing this server from the active servers list. |
| Recommended Action | Determine why the server is not responding. |
| Revision | 2 |
| Parameters | server_ip monitor [monitor_port] [url] |
| Context Parameters | Rule Name |

2.48. SMTPLOG

These log messages refer to the **SMTPLOG (SMTPLOG events)** category.

2.48.1. unable_to_establish_connection (ID: 03000001)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unable to establish connection to SMTP server <smtp_server>. Send aborted |
| Explanation | The unit failed to establish a connection to the SMTP server. No SMTP Log will be sent. |
| Gateway Action | abort_sending |
| Recommended Action | Verify that a SMTP server is running at the address specified. |
| Revision | 1 |
| Parameters | smtp_server |

2.48.2. connect_timeout (ID: 03000002)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Timeout connecting to SMTP server <smtp_server>. Send aborted |
| Explanation | The unit timed out while trying to establish a connection to the SMTP server. No SMTP Log will be sent. |
| Gateway Action | abort_sending |
| Recommended Action | Verify that a SMTP server is running at the address specified. |
| Revision | 1 |
| Parameters | smtp_server |

2.48.3. send_failure (ID: 03000004)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Unable to send data to SMTP server <smtp_server>. Send aborted |
| Explanation | The unit failed to send data to the SMTP server. No SMTP Log will be sent. |
| Gateway Action | abort_sending |
| Recommended Action | None. |
| Revision | 1 |

| | |
|-------------------|-------------|
| Parameters | smtp_server |
|-------------------|-------------|

2.48.4. receive_timeout (ID: 03000005)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Receive timeout from SMTP server <smtp_server>. Send aborted |
| Explanation | The unit timed out while receiving data from the SMTP server. No SMTP Log will be sent. |
| Gateway Action | abort_sending |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | smtp_server |

2.48.5. rejected_connect (ID: 03000006)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTP server <smtp_server> rejected connection. Send aborted |
| Explanation | The SMTP server reject the connection attempt. No SMTP Log will be sent. |
| Gateway Action | abort_sending |
| Recommended Action | Verify that a SMTP Server is configured to accept connections from the unit. |
| Revision | 1 |
| Parameters | smtp_server |

2.48.6. rejected_ehlo_helo (ID: 03000007)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTP server <smtp_server> rejected both EHLO/HELO. Trying to continue anyway |
| Explanation | The SMTP server rejected the normal handshake process. The unit will try to continue anyway. |
| Gateway Action | None |
| Recommended Action | If problems arise, verify that the SMTP server is properly configured. |
| Revision | 1 |
| Parameters | smtp_server |

2.48.7. rejected_sender (ID: 03000008)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTP server <smtp_server> rejected sender <sender>. Send aborted |
| Explanation | The SMTP server rejected the sender. No SMTP Log will be sent. |
| Gateway Action | abort_sending |
| Recommended Action | Verify that the SMTP server is configured to accept this sender. |
| Revision | 1 |
| Parameters | smtp_server sender |

2.48.8. rejected_recipient (ID: 03000009)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SMTP server <smtp_server> rejected recipient <recipient> |
| Explanation | The SMTP server rejected the recipient. No SMTP Log will be sent. |
| Gateway Action | None |
| Recommended Action | Verify that the SMTP server is configured to accept this recipient. |
| Revision | 1 |
| Parameters | smtp_server recipient |

2.48.9. rejected_all_recipients (ID: 03000010)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SMTP server <smtp_server> rejected all recipients. Send aborted |
| Explanation | The SMTP server rejected all recipients. No SMTP Log will be sent. |
| Gateway Action | None |
| Recommended Action | Verify that the SMTP server is configured to accept these recipients. |
| Revision | 1 |
| Parameters | smtp_server |

2.48.10. rejected_data (ID: 03000011)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTP server <smtp_server> rejected DATA request. Send aborted |
| Explanation | The SMTP server rejected the DATA request. No SMTP Log will be sent. |
| Gateway Action | None |
| Recommended Action | Verify that the SMTP server is properly configured. |
| Revision | 1 |
| Parameters | smtp_server |

2.48.11. rejected_message_text (ID: 03000012)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SMTP server <smtp_server> rejected message text. Send aborted |
| Explanation | The SMTP server rejected the message text. No SMTP Log will be sent. |
| Gateway Action | None |
| Recommended Action | Verify that the SMTP server is properly configured. |
| Revision | 1 |
| Parameters | smtp_server |

2.49. SNMP

These log messages refer to the **SNMP (Allowed and disallowed SNMP accesses)** category.

2.49.1. disallowed_sender (ID: 03100001)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Disallowed SNMP from <peer>, disallowed sender IP |
| Explanation | The sender IP address is not allowed to send SNMP data to the unit. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | If this sender IP address should have SNMP access to the unit, this should be configured in the ACCESS section. |
| Revision | 1 |
| Parameters | peer |
| Context Parameters | Connection |

2.49.2. invalid_snmp_community (ID: 03100002)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Disallowed SNMP from <peer>, invalid community string |
| Explanation | The SNMP community string is invalid. |
| Gateway Action | drop |
| Recommended Action | Make sure the entered SNMP community string is correct. |
| Revision | 1 |
| Parameters | peer |
| Context Parameters | Connection |

2.50. SSHD

These log messages refer to the **SSHD (SSH Server events)** category.

2.50.1. out_of_mem (ID: 04700001)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Out of memory |
| Explanation | Memory Allocation Failure. System is running low on RAM memory. |
| Gateway Action | close |
| Recommended Action | Try to free some of the RAM used, or upgrade the amount of RAM memory. |
| Revision | 1 |

2.50.2. dh_key_exchange_failure (ID: 04700002)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | DH Key Exchange parse error when exchanging keys with client <client> |
| Explanation | A Diffie-Hellman Key Exchange Failure occurred when keys were exchanged with the client. Connection will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client |

2.50.3. illegal_version_string (ID: 04700004)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Version string is invalid. |
| Explanation | An invalid version string was received from the client. The connection will be closed. |
| Gateway Action | close |
| Recommended Action | Investigate why the SSH client is sending a malformed version string. |
| Revision | 1 |

2.50.4. error_occurred (ID: 04700005)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | <error> occurred with the connection from client <client>. |
| Explanation | An error occurred, and the connection will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | error client |

2.50.5. invalid_mac (ID: 04700007)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | MAC comparison failure. |
| Explanation | The MAC received from the client is invalid. The connection will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |

2.50.6. invalid_service_request (ID: 04700015)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Error processing service request from client <client> |
| Explanation | Failed to process service request sent from the client, closing connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client |

2.50.7. invalid_username_change (ID: 04700020)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | Username change is not allowed. From name <fromname> to <toname> client. Client: <client> |
| Explanation | User changed the username between two authentication phases, which is not allowed. Closing connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | fromname toname client |

2.50.8. invalid_username_change (ID: 04700025)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Service change is not allowed. From service <fromservice> to <toservice>. Client: <client> |
| Explanation | User changed the service between two authentication phases, which is not allowed. Closing connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | fromservice toservice client |

2.50.9. max_auth_tries_reached (ID: 04700030)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Maximum authentication re-tries reached for client <client> |
| Explanation | User failed to authenticate within the maximum allowed number of tries. Closing connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client |

2.50.10. ssh_login_timeout_expired (ID: 04700035)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SSH Login grace timeout (<gracetime> seconds) expired, closing connection. Client: <client> |
| Explanation | The client failed to login within the given login grace time. Closing connection. |
| Gateway Action | close |
| Recommended Action | Increase the grace timeout value if it is set too low. |
| Revision | 1 |
| Parameters | gracetime client |

2.50.11. ssh_inactive_timeout_expired (ID: 04700036)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SSH session inactivity limit (<inactivetime>) has been reached. Closing connection. Client: <client> |
| Explanation | The connect client has been inactive for too long, and is forcibly logged out. Closing connection. |
| Gateway Action | close |
| Recommended Action | Increase the inactive session timeout value if it is set too low. |
| Revision | 1 |
| Parameters | inactivetime client |

2.50.12. rsa_sign_verification_failed (ID: 04700050)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | RSA signature verification for client <client> failed. |
| Explanation | The client RSA signature could not be verified. Closing connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client |

2.50.13. dsa_sign_verification_failed (ID: 04700051)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | DSA signature verification for client <client> failed. |
| Explanation | The client DSA signature could not be verified. Closing connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client |

2.50.14. key_algo_not_supported. (ID: 04700055)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | The authentication algorithm type <keytype> is not supported. Client <client> |
| Explanation | The authentication algorithm that the client uses is not supported. Closing connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | keytype client |

2.50.15. unsupported_pubkey_algo (ID: 04700057)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Public Key Authentication Algorithm <authalgo> from client <client> not supported/enabled. |
| Explanation | The client is trying to authenticate using a Public Key Algorithm which is either not supported or not enabled. |
| Gateway Action | close |
| Recommended Action | If the algorithm is supported by unit, configure the unit to make use of it. |
| Revision | 1 |
| Parameters | authalgo client |

2.50.16. max_ssh_clients_reached (ID: 04700060)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Maximum number of connected SSH clients (<maxclients>) has been reached. Denying access for client: <client>. |
| Explanation | The maximum number of simultaneously connected SSH clients has been reached. Denying access for this attempt, and closing the connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | maxclients client |

2.50.17. client_disallowed (ID: 04700061)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Client <client> not allowed access according to the "remotes" section. |
| Explanation | The client is not allowed access to the SSH server. Closing connection. |
| Gateway Action | close |
| Recommended Action | If this client should be granted SSH access, add it in the "remotes" section. |
| Revision | 1 |
| Parameters | client |

2.50.18. ssh_force_conn_close (ID: 04700105)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | SSH connection is no longer valid. Client: <client>, closing connection |
| Explanation | The SSH connection is no longer valid. The might be a result of a "remotes" object being changed to no longer allow the SSH connection. Closing connection. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client |

2.50.19. scp_failed_not_admin (ID: 04704000)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Administrator access could not set for session from this ip: <ip> |
| Explanation | SCP transfers can only be used if sessions has administrator access. Closing connection. |
| Gateway Action | close |
| Recommended Action | If there are other active administrator session, they might preventing this session from gaining administrator access. |
| Revision | 1 |
| Parameters | ip |

2.51. SSLVPN

These log messages refer to the **SSLVPN (SSLVPN events.)** category.

2.51.1. sslvpn_session_created (ID: 06300010)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | SSL VPN Session created <remoteip>:<remoteport>-><localip>:<localport> at <ssliface> |
| Explanation | SSL VPN Session created [remoteip]:[remoteport]->[localip]:[localport] at [ssliface]. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | remoteip remoteport localip localport ssliface |

2.51.2. sslvpn_session_closed (ID: 06300011)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | SSLVPN session closed <remoteip>:<remoteport>-><localip>:<localport> at <ssliface> |
| Explanation | SSLVPN session closed [remoteip]:[remoteport]->[localip]:[localport] at [ssliface]. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | remoteip remoteport localip localport ssliface |

2.51.3. sslvpn_max_sessions_reached (ID: 06300012)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | SSL VPN can not create session. Maximun allowed SSLVPN tunnels |

| | |
|---------------------------|---|
| | reached. |
| Explanation | SSL VPN can not create session. Maximun allowed SSLVPN tunnels reached. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |

2.51.4. failure_init_radius_accounting (ID: 06300013)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Failed to send Accounting Start to RADIUS Accounting Server. Accounting will be disabled. Interface: <iface> |
| Explanation | Failed to send START message to RADIUS accounting server. RADIUS accounting will be disabled for this session. The specified interface, remote gateway and call ID identify the specific session. |
| Gateway Action | accounting_disabled |
| Recommended Action | Make sure the RADIUS accounting configuration is correct. |
| Revision | 1 |
| Parameters | iface |

2.51.5. sslvpn_connection_disallowed (ID: 06300203)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | SSL VPN connection from <remotegw> disallowed according to rule <rule>! |
| Explanation | The SSL VPN connection is disallowed by the new configuration according to the specified userauth rule. Closing down the SSL VPN connection. |
| Gateway Action | sslvpn_connection_closed |
| Recommended Action | Make sure the userauth rules are configured correctly. |
| Revision | 1 |
| Parameters | rule remotegw |

2.51.6. unknown_sslvpn_auth_source (ID: 06300204)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|---|
| Log Message | Unknown SSL VPN authentication source for <rule>! Remote gateway: <remotegw> |
| Explanation | The authentication source for the specified userauth rule found in the new configuration is unknown to the SSL VPN server. Closing down the SSL VPN connection. |
| Gateway Action | sslvpn_connection_closed |
| Recommended Action | Make sure the userauth rules are configured correctly. |
| Revision | 1 |
| Parameters | rule remotegw |

2.51.7. user_disconnected (ID: 06300205)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | User <user> is forcibly disconnected. Remote gateway: <remotegw> |
| Explanation | The connected client is forcibly disconnected by the userauth system. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | user remotegw |

2.51.8. sslvpn_connection_disallowed (ID: 06300224)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | SSL VPN connection from <remotegw> disallowed according to rule <rule>. Interface: <iface>. |
| Explanation | The SSL VPN connection is disallowed according to the specified userauth rule. |
| Gateway Action | None |
| Recommended Action | Make sure the userauth rules are configured correctly. |
| Revision | 1 |
| Parameters | rule iface remotegw |

2.51.9. unknown_sslvpn_auth_source (ID: 06300225)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Unknown SSL VPN authentication source for <rule>!. Interface: <iface>, Remote gateway: <remotegw>. |
| Explanation | The authentication source for the specified userauth rule is unknown to the SSL VPN server. |
| Gateway Action | None |
| Recommended Action | Make sure the userauth rules are configured correctly. |
| Revision | 1 |
| Parameters | rule iface remotegw |

2.51.10. sslvpn_no_userauth_rule_found (ID: 06300226)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Did not find a matching userauth rule for the incoming SSL VPN connection. Interface: <iface>, Remote gateway: <remotegw>. |
| Explanation | The SSL VPN server was unsuccessful trying to find a userauth rule matching the incoming SSL VPN connection. |
| Gateway Action | None |
| Recommended Action | Make sure the userauth rules are configured correctly. |
| Revision | 1 |
| Parameters | iface remotegw |

2.52. SYSTEM

These log messages refer to the **SYSTEM (System-wide events: startup, shutdown, etc.)** category.

2.52.1. demo_expired (ID: 03200020)

| | |
|---------------------------|---|
| Default Severity | EMERGENCY |
| Log Message | The DEMO period for this copy of D-Link Firewall has expired. Please install license and re-run D-Link Firewall, or restart the firewall to initiate another evaluation session |
| Explanation | The unit will no longer operate, as the demo period has expired. Install a license in order to avoid this. |
| Gateway Action | shutdown |
| Recommended Action | Install a license. |
| Revision | 1 |
| Parameters | shutdown |

2.52.2. demo_mode (ID: 03200021)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | This copy of D-Link Firewall is in DEMO mode. Firewall core will halt in <time> seconds |
| Explanation | The unit is running in DEMO mode, and will eventually expire. Install a license in order to avoid this. |
| Gateway Action | shutdown_soon |
| Recommended Action | Install a license. |
| Revision | 1 |
| Parameters | shutdown time |

2.52.3. demo_mode (ID: 03200022)

| | |
|-------------------------|--|
| Default Severity | ALERT |
| Log Message | DEMO mode halted at the count of <time> seconds. Reason: <reason>. |
| Explanation | DEMO mode halted at the count of [time] seconds. Reason: [reason]. |
| Gateway Action | shutdown_soon |

| | |
|---------------------------|--------------------|
| Recommended Action | Install a license. |
| Revision | 1 |
| Parameters | reason time |

2.52.4. demo_mode (ID: 03200023)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | DEMO mode resumed at the count of <time> seconds. Reason: <reason>. |
| Explanation | DEMO mode resumed at the count of [time] seconds. Reason: [reason]. |
| Gateway Action | shutdown_soon |
| Recommended Action | Install a license. |
| Revision | 1 |
| Parameters | reason time |

2.52.5. new_firmware_available (ID: 03200030)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | New firmware available. |
| Explanation | A new firmware release is available for download. |
| Gateway Action | None |
| Recommended Action | Upgrade_firmware. |
| Revision | 1 |

2.52.6. reset_clock (ID: 03200100)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | The clock at <oldtime> was manually reset by <user> to <newtime> |
| Explanation | The clock has manually been reset. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

| | |
|-------------------|----------------------------|
| Parameters | oldtime newtime user |
|-------------------|----------------------------|

2.52.7. reset_clock (ID: 03200101)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | The clock at <oldtime> was manually reset to <newtime> |
| Explanation | The clock has manually been reset. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | oldtime newtime |

2.52.8. invalid_ip_match_access_section (ID: 03200110)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Failed to verify IP address as per ACCESS section. Dropping |
| Explanation | The IP address was not verified according to the ACCESS section. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.52.9. nitrox2_watchdog_triggered (ID: 03200207)

| | |
|---------------------------|-------------------------------|
| Default Severity | ERROR |
| Log Message | Nitrox II watchdog triggered. |
| Explanation | Nitrox II watchdog triggered. |
| Gateway Action | Reboot |
| Recommended Action | None. |
| Revision | 1 |

2.52.10. nitrox2_restarted (ID: 03200208)

| | |
|---------------------------|---------------------------------|
| Default Severity | ERROR |
| Log Message | NITROX II interfaces restarted. |
| Explanation | NITROX II interfaces restarted. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.52.11. hardware_watchdog_initialized (ID: 03200260)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Hardware Watchdog <hardware_watchdog_chip> found and initialized with a timeout of <watchdog_timeout> minutes. |
| Explanation | The system has identified a Hardware Watchdog and initialized it. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | hardware_watchdog_chip watchdog_timeout |

2.52.12. port_bind_failed (ID: 03200300)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Out of memory while trying to allocate dynamic port for local IP <localip> to destination IP <destip> |
| Explanation | The unit failed to allocate a dynamic port, as it is out of memory. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason localip destip |

2.52.13. port_bind_failed (ID: 03200301)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | Out of dynamic assigned ports. All ports <port_base>-<port_end> for Local IP <localip> to Destination IP <destip> are in use |
| Explanation | Failed to allocate a dynamic port, as all ports are in use. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason localip destip port_base port_end |

2.52.14. port_hlm_conversion (ID: 03200302)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Using High Load Mode for Local IP <localip> Destination IP <destip> pair |
| Explanation | Mode for Local IP - Destination IP pair has changed to High Load because of heavy traffic. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | localip destip |

2.52.15. port_llm_conversion (ID: 03200303)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Using Low Load Mode for Local IP <localip> Destination IP <destip> pair |
| Explanation | Mode for Local IP - Destination IP pair has changed to Low Load because of low traffic. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | localip destip |

2.52.16. log_messages_lost_due_to_throttling (ID: 03200400)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | <logcnt> messages lost due to throttling |
| Explanation | Due to extensive logging, a number of log messages was not sent. |
| Gateway Action | None |
| Recommended Action | Examine why the unit sent such a large amount of log messages. If this is normal activity, the "LogSendPerSec" setting might be set too low. |
| Revision | 1 |
| Parameters | logcnt |

2.52.17. log_messages_lost_due_to_log_buffer_exhaust (ID: 03200401)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | <logcnt> log messages lost due to log buffer exhaustion |
| Explanation | Due to extensive logging, a number of log messages was not sent. |
| Gateway Action | None |
| Recommended Action | Examine why the unit sent such a large amount of log messages. If this is normal activity, the "LogSendPerSec" setting might be set too low. |
| Revision | 1 |
| Parameters | logcnt |

2.52.18. ssl_encryption_failed (ID: 03200450)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Encryption failed. |
| Explanation | Encryption failed due to error. Connection closed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.52.19. bidir_fail (ID: 03200600)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Failed to establish bi-directional communication with peer in <timeout> seconds |
| Explanation | The unit failed to establish a connection back to peer, using the new configuration. It will try to revert to the previous configuration file. |
| Gateway Action | None |
| Recommended Action | Verify that the new configuration file does not contain errors that would cause bi-directional communication failure. |
| Revision | 2 |
| Parameters | localcfgver remotecfgver timeout |

2.52.20. disk_cannot_remove_file (ID: 03200601)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Failed to remove <file>, bi-directional communication will now probably be impossible |
| Explanation | The unit failed to remove the new, faulty, configuration file. It will still try to revert to the previous configuration file. |
| Gateway Action | None |
| Recommended Action | Verify that the disk media is intact. |
| Revision | 1 |
| Parameters | file |

2.52.21. file_open_failed (ID: 03200602)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed to open newly uploaded configuration file <new_cfg> |
| Explanation | The unit failed to open the uploaded configuration file. |
| Gateway Action | None |
| Recommended Action | Verify that the disk media is intact. |
| Revision | 1 |
| Parameters | new_cfg |

2.52.22. disk_cannot_remove (ID: 03200603)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed to remove <old_cfg> |
| Explanation | The unit failed to remove the old configuration file. |
| Gateway Action | None |
| Recommended Action | Verify that the disk media is intact, and that the file is not write protected. |
| Revision | 1 |
| Parameters | old_cfg |

2.52.23. disk_cannot_rename (ID: 03200604)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed to rename <cfg_new> to <cfg_real> |
| Explanation | The unit failed to rename the new configuration file to the real configuration file name. |
| Gateway Action | None |
| Recommended Action | Verify that the disk media is intact. |
| Revision | 1 |
| Parameters | cfg_new cfg_real |

2.52.24. cfg_switch_fail (ID: 03200605)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed to switch to new configuration |
| Explanation | For reasons specified in earlier log events, the unit failed to switch to the new configuration and will continue to use the present configuration. |
| Gateway Action | None |
| Recommended Action | Consult the recommended action in the previous log message, which contained a more detailed error description. |
| Revision | 1 |

2.52.25. core_switch_fail (ID: 03200606)

| | |
|-------------------------|----------|
| Default Severity | CRITICAL |
|-------------------------|----------|

| | |
|---------------------------|---|
| Log Message | Failed to switch to new core |
| Explanation | For reasons specified in earlier log events, the unit failed to switch to the new core executable and will continue to use the present core executable. |
| Gateway Action | None |
| Recommended Action | Consult the recommended action in the previous log message, which contained a more detailed error description. |
| Revision | 1 |

2.52.26. bidir_ok (ID: 03200607)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Configuration <localcfgver><remotecfgver> verified for bi-directional communication |
| Explanation | The new configuration has been verified for communication back to peer, and will now be used as the active configuration. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | localcfgver remotecfgver |

2.52.27. shutdown (ID: 03201000)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Shutdown <shutdown>. Active in <time> seconds. Reason: <reason> |
| Explanation | The unit is shutting down. |
| Gateway Action | shutdown |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | shutdown time reason |

2.52.28. shutdown (ID: 03201010)

| | |
|-------------------------|--------|
| Default Severity | NOTICE |
|-------------------------|--------|

| | |
|---------------------------|---|
| Log Message | Reconfiguration aborted. Configuration files are missing |
| Explanation | The unit was issued a reconfigure command, but no configuration file is seen. The reconfiguration process is aborted. |
| Gateway Action | reconfigure_gateway_aborted |
| Recommended Action | Verify that the disk media is intact. |
| Revision | 1 |
| Parameters | reason |

2.52.29. shutdown (ID: 03201011)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Shutdown aborted. Core file <core> missing |
| Explanation | The unit was issued a shutdown command, but no core executable file is seen. The shutdown process is aborted. |
| Gateway Action | shutdown_gateway_aborted |
| Recommended Action | Verify that the disk media is intact. |
| Revision | 1 |
| Parameters | shutdown reason core |

2.52.30. config_activation (ID: 03201020)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Reconfiguration requested by <username> from <config_system> <client_ip>. |
| Explanation | Reconfiguration requested. |
| Gateway Action | reconfiguration |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | username userdb" client_ip config_system |

2.52.31. reconfiguration (ID: 03201021)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Reconfiguration will change <change_count> access control rule(s). |
| Explanation | Number of access control rules changed during the reconfiguration. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | change_count |

2.52.32. startup_normal (ID: 03202000)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Security gateway starting. Core: <corever>. Build: <build>. Current uptime: <uptime>. Using configuration file <cfgfile>, version <localcfgver> <remotecfgver>. Previous shutdown: <previous_shutdown> |
| Explanation | The Security Gateway is starting up. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | corever build uptime cfgfile localcfgver remotecfgver previous_shutdown |

2.52.33. startup_echo (ID: 03202001)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Security gateway starting echo (<delay> seconds). Core: <corever>. Build: <build>. Current uptime: <uptime>. Using configuration file <cfgfile>, localcfgver <localcfgver>, remotecfgver <remotecfgver>. Previous shutdown: <previous_shutdown> |
| Explanation | The Security Gateway is starting up, echo. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | delay |

corever
 build
 uptime
 cfgfile
 localcfgver
 remotecfgver
 previous_shutdown

2.52.34. shutdown (ID: 03202500)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Shutdown <shutdown> |
| Explanation | The Security Gateway is shutting down. |
| Gateway Action | shutdown |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | shutdown |

2.52.35. admin_login (ID: 03203000)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Administrative user <username> logged in via <authsystem>. Access level: <access_level> |
| Explanation | An administrative user has logged in to the configuration system. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | authsystem username access_level [interface] [userdb] [server_ip] [server_port] [client_ip] [client_port] |

2.52.36. admin_logout (ID: 03203001)

| | |
|-------------------------|--------|
| Default Severity | NOTICE |
|-------------------------|--------|

| | |
|---------------------------|---|
| Log Message | Administrative user <username> logged out, via <authsystem>. Access level: <access_level> |
| Explanation | An administrative user has logged out from the configuration system. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | authsystem username access_level [userdb] [client_ip] |

2.52.37. admin_login_failed (ID: 03203002)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Administrative user <username> failed to log in via <authsystem>, because of bad credentials |
| Explanation | An administrative user failed to log in to configuration system. This is most likely due to an invalid entered username or password. |
| Gateway Action | disallow_admin_access |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | authsystem username [interface] [server_ip] [server_port] [client_ip] [client_port] |

2.52.38. sslvpnuser_login (ID: 03203004)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | SSL VPN user <username> logged in via <authsystem>. |
| Explanation | An SSL VPN user has logged in to the SSL VPN user page. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

| | |
|-------------------|--|
| Parameters | authsystem username userdb server_ip server_port client_ip client_port |
|-------------------|--|

2.52.39. activate_changes_failed (ID: 03204000)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Bidirectional confirmation of the new configuration failed, previous configuration will be used |
| Explanation | The unit failed to establish a connection back to peer, using the new configuration. The previous configuration will still be used. |
| Gateway Action | using_prev_config |
| Recommended Action | Make sure that the new configuration allows the unit to establish a connection with the administration interface. |
| Revision | 1 |
| Parameters | authsystem |

2.52.40. accept_configuration (ID: 03204001)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | New configuration activated by user <username> from <config_system> <client_ip>. |
| Explanation | The new configuration has been successfully activated. |
| Gateway Action | using_new_config |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | username userdb" client_ip config_system |

2.52.41. reject_configuration (ID: 03204002)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | New configuration rejected by user <username> from <config_system> <client_ip>. |

| | |
|---------------------------|---|
| Explanation | The new configuration has been rejected. |
| Gateway Action | reconfiguration_using_old_config |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | username userdb" client_ip config_system |

2.52.42. date_time_modified (ID: 03205000)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | The local Date and Time has been modified by <user>. Time and Date before change: <pre_change_date_time>. Time and Date after change: <post_change_date_time> |
| Explanation | The local Date and Time of the unit has been changed. |
| Gateway Action | using_new_date_time |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | authsystem user pre_change_date_time post_change_date_time |

2.52.43. admin_timeout (ID: 03206000)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Administrative user <username> timed out from <authsystem> |
| Explanation | The administrative user has been inactive for too long, and has been automatically logged out. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | authsystem username userdb client_ip access_level |

2.52.44. admin_login_group_mismatch (ID: 03206001)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Administrative user <username> not allowed access via <authsystem> |
| Explanation | The user does not have proper administration access to the configuration system. |
| Gateway Action | disallow_admin_access |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | authsystem username server_ip server_port client_ip client_port |

2.52.45. admin_login_internal_error (ID: 03206002)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Internal error occurred when administrative user <username> tried to login, not allowed access via <authsystem> |
| Explanation | An internal error occurred when the user tried to log in, and as a result has not been given administration access. |
| Gateway Action | disallow_admin_access |
| Recommended Action | Please contact the support and report this issue. |
| Revision | 1 |
| Parameters | authsystem username server_ip server_port client_ip client_port |

2.53. TCP_FLAG

These log messages refer to the **TCP_FLAG (Events concerning the TCP header flags)** category.

2.53.1. tcp_flags_set (ID: 03300001)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | The TCP <good_flag> and <bad_flag> flags are set. Allowing |
| Explanation | The possible combinations for these flags are: SYN URG, SYN PSH, SYN RST, SYN FIN and FIN URG. |
| Gateway Action | allow |
| Recommended Action | If any of these combinations should either be dropped or having the bad flag stripped, specify this in configuration, in the "Settings" sub system. |
| Revision | 1 |
| Parameters | good_flag bad_flag |
| Context Parameters | Rule Name Packet Buffer |

2.53.2. tcp_flags_set (ID: 03300002)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | The TCP <good_flag> and <bad_flag> flags are set. Stripping <bad_flag> flag |
| Explanation | The possible combinations for these flags are: SYN URG, SYN PSH, SYN RST, SYN FIN and FIN URG. Removing the "bad" flag. |
| Gateway Action | strip_bad_flag |
| Recommended Action | If any of these combinations should either be dropped or ignored, specify this in configuration, in the "Settings" sub system. |
| Revision | 1 |
| Parameters | good_flag bad_flag |
| Context Parameters | Rule Name Packet Buffer |

2.53.3. tcp_flag_set (ID: 03300003)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | The TCP <bad_flag> flag is set. Ignoring |
| Explanation | The TCP flag is set. Ignoring. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | bad_flag |
| Context Parameters | Rule Name Packet Buffer |

2.53.4. tcp_flag_set (ID: 03300004)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | The TCP <bad_flag> flag is set. Stripping |
| Explanation | A "bad" TCP flag is set. Removing it. |
| Gateway Action | strip_flag |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | bad_flag |
| Context Parameters | Rule Name Packet Buffer |

2.53.5. tcp_null_flags (ID: 03300005)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Packet has no SYN, ACK, FIN or RST flag set |
| Explanation | The packet has no SYN, ACK, FIN or RST flag set. Ignoring. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.53.6. tcp_flags_set (ID: 03300008)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | The TCP <good_flag> and <bad_flag> flags are set. Dropping |
| Explanation | The possible combinations for these flags are: SYN URG, SYN PSH, SYN RST, SYN FIN and FIN URG. |
| Gateway Action | drop |
| Recommended Action | If any of these combinations should either be ignored or having the bad flag stripped, specify this in configuration, in the "Settings" sub system. |
| Revision | 1 |
| Parameters | good_flag bad_flag |
| Context Parameters | Rule Name Packet Buffer |

2.53.7. tcp_flag_set (ID: 03300009)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | The TCP <bad_flag> flag is set. Dropping |
| Explanation | The TCP flag is set. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | bad_flag |
| Context Parameters | Rule Name Packet Buffer |

2.53.8. unexpected_tcp_flags (ID: 03300010)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unexpected tcp flags <flags> from <endpoint> during state <state>. Dropping |
| Explanation | Received unexpected tcp flags during a specific state. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |

| | |
|---------------------------|--|
| Parameters | flags endpoint state |
| Context Parameters | Rule Name Connection Packet Buffer |

2.53.9. mismatched_syn_resent (ID: 03300011)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Mismatched syn "resent" with seq <seqno>, expected <origseqno>. Dropping |
| Explanation | Mismatching sequence numbers. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | seqno origseqno |
| Context Parameters | Rule Name Connection Packet Buffer |

2.53.10. mismatched_first_ack_seqno (ID: 03300012)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | ACK packet with seq <seqno>. Expected <expectseqno>. Dropping |
| Explanation | Mismatching sequence numbers. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | seqno expectseqno |
| Context Parameters | Rule Name Connection Packet Buffer |

2.53.11. mismatched_first_ack_seqno (ID: 03300013)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | SYNACK packet with seq <seqno>. Expected <expectseqno>. Dropping |
| Explanation | Mismatching sequence numbers. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | seqno expectseqno |
| Context Parameters | Rule Name Connection Packet Buffer |

2.53.12. rst_out_of_bounds (ID: 03300015)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Originator RST seq <seqno> is not in window <winstart>...<winend>. Dropping |
| Explanation | The RST flag sequence number is not within the receiver window. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | seqno winstart winend |
| Context Parameters | Rule Name Connection Packet Buffer |

2.53.13. tcp_seqno_too_low (ID: 03300016)

| | |
|---------------------------|--|
| Default Severity | DEBUG |
| Log Message | TCP sequence number <seqno> is not in the acceptable range <accstart>-<accend>. Dropping |
| Explanation | A TCP segment with an unacceptable sequence number was received. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |

| | |
|---------------------------|--|
| Parameters | seqno accstart accend |
| Context Parameters | Rule Name Connection Packet Buffer |

2.53.14. unacceptable_ack (ID: 03300017)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | TCP acknowledgement <ack> is not in the acceptable range <accstart>-<accend>. Dropping |
| Explanation | A TCP segment with an unacceptable acknowledgement number was received during state SYN_SENT. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | ack accstart accend |
| Context Parameters | Rule Name Connection Packet Buffer |

2.53.15. rst_without_ack (ID: 03300018)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | TCP RST segment without ACK during state SYN_SENT. Dropping |
| Explanation | A TCP segment with the RST flag but not the ACK flag was received during state SYN_SENT. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Connection Packet Buffer |

2.53.16. tcp_seqno_too_high (ID: 03300019)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | TCP sequence number <seqno> is not in the acceptable range <accstart>-<accend>. Dropping |
| Explanation | A TCP segment with an unacceptable sequence number was received. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | seqno accstart accend |
| Context Parameters | Rule Name Connection Packet Buffer |

2.53.17. tcp_rcv_windows_drained (ID: 03300022)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Out of large TCP receive windows. Maximum windows: <max_windows>. Triggered <num_events> times last 10 seconds. |
| Explanation | The TCP stack could not accept incoming data since it has run out of large TCP receive windows. This event was triggered [num_events] times during the last 10 seconds. |
| Gateway Action | close |
| Recommended Action | If the system is configured to use TCP based ALGs, increase the amount of maximum sessions parameter on the associated service. |
| Revision | 1 |
| Parameters | max_windows [num_events] |

2.53.18. tcp_snd_windows_drained (ID: 03300023)

| | |
|-------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Out of large TCP send windows. Maximum windows: <max_windows>. Triggered <num_events> times last 10 seconds. |
| Explanation | The TCP stack could not send data since it has run out of large TCP send windows. This event was triggered [num_events] times during the last 10 seconds. |
| Gateway Action | close |

| | |
|---------------------------|---|
| Recommended Action | If the system is configured to use TCP based ALGs, increase the amount of maximum sessions parameter on the associated service. |
| Revision | 1 |
| Parameters | max_windows [num_events] |

2.53.19. tcp_get_freesocket_failed (ID: 03300024)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | System was not able to get a free socket. Triggered <num_events> times last 10 seconds. |
| Explanation | The TCP stack could not get a free socket. This event was triggered [num_events] times during the last 10 seconds. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.53.20. tcp_seqno_too_low_with_syn (ID: 03300025)

| | |
|---------------------------|--|
| Default Severity | DEBUG |
| Log Message | TCP sequence number <seqno> is not in the acceptable range <accstart>-<accend>. Dropping |
| Explanation | A TCP segment with an unacceptable sequence number was received. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | seqno accstart accend |
| Context Parameters | Rule Name Connection Packet Buffer |

2.54. TCP_OPT

These log messages refer to the **TCP_OPT (Events concerning the TCP header options)** category.

2.54.1. tcp_mss_too_low (ID: 03400001)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | TCP MSS <mss> too low. TCPMSSMin=<minmss> |
| Explanation | The TCP MSS is too low. Ignoring. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tcpopt mss minmss |
| Context Parameters | Rule Name Packet Buffer |

2.54.2. tcp_mss_too_low (ID: 03400002)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | TCP MSS <mss> too low. TCPMSSMin=<minmss>. Adjusting |
| Explanation | The TCP MSS is too low. Adjusting to use the configured minimum MSS. |
| Gateway Action | adjust |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tcpopt mss minmss |
| Context Parameters | Rule Name Packet Buffer |

2.54.3. tcp_mss_too_high (ID: 03400003)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | TCP MSS <mss> too high. TCPMSSMax=<maxmss> |

| | |
|---------------------------|------------------------------------|
| Explanation | The TCP MSS is too high. Ignoring. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tcpopt mss maxmss |
| Context Parameters | Rule Name Packet Buffer |

2.54.4. tcp_mss_too_high (ID: 03400004)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | TCP MSS <mss> too high. TCPMSSMax=<maxmss>. Adjusting |
| Explanation | The TCP MSS is too high. Adjusting to use the configured maximum MSS. |
| Gateway Action | adjust |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tcpopt mss maxmss |
| Context Parameters | Rule Name Packet Buffer |

2.54.5. tcp_mss_above_log_level (ID: 03400005)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | TCP MSS <mss> higher than log level. TCPMSSLogLevel=<mssloglevel> |
| Explanation | The TCP MSS is higher than the log level. |
| Gateway Action | log |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tcpopt mss mssloglevel |
| Context Parameters | Rule Name |

Packet Buffer

2.54.6. tcp_option (ID: 03400006)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Packet has a type <tcptopt> TCP option |
| Explanation | The packet has a TCP Option of the specified type. Ignoring. |
| Gateway Action | ignore |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tcptopt |
| Context Parameters | Rule Name Packet Buffer |

2.54.7. tcp_option_strip (ID: 03400007)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Packet has a type <tcptopt> TCP option. Stripping it |
| Explanation | The packet has a TCP Option of the specified type. Removing it. |
| Gateway Action | strip |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tcptopt |
| Context Parameters | Rule Name Packet Buffer |

2.54.8. bad_tcptopt_length (ID: 03400010)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Type <tcptopt> is multibyte, available=<avail>. Dropping |
| Explanation | The TCP Option type is multi byte which requires two bytes, and there is less than two bytes available. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |

| | |
|---------------------------|-------------------------------|
| Parameters | tcptopt minoptlen avail |
| Context Parameters | Rule Name Packet Buffer |

2.54.9. bad_tcptopt_length (ID: 03400011)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Type <tcptopt> claims length=<len> bytes, avail=<avail> bytes. Dropping |
| Explanation | The TCP Option type does not fit in the option space. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tcptopt len avail |
| Context Parameters | Rule Name Packet Buffer |

2.54.10. bad_tcptopt_length (ID: 03400012)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Type <tcptopt>: bad length <optlen>. Expected <expectlen> bytes. Dropping |
| Explanation | The TCP Option type has an invalid length. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tcptopt optlen expectlen |
| Context Parameters | Rule Name Packet Buffer |

2.54.11. tcp_mss_too_low (ID: 03400013)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TCP MSS <mss> too low. TCPMSSMin=<minmss>. Dropping |
| Explanation | The TCP MSS is too low. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tcptopt mss minmss |
| Context Parameters | Rule Name Packet Buffer |

2.54.12. tcp_mss_too_high (ID: 03400014)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | TCP MSS <mss> too high. TCPMSSMax=<maxmss>. Dropping |
| Explanation | The TCP MSS is too high. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tcptopt mss maxmss |
| Context Parameters | Rule Name Packet Buffer |

2.54.13. tcp_option_disallowed (ID: 03400015)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Packet has a <tcptopt> TCP option, which is disallowed. Dropping |
| Explanation | The packet has a TCP Option of the specified type. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | tcptopt |
| Context Parameters | Rule Name |

Packet Buffer

2.54.14. tcp_null_flags (ID: 03400016)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Packet has no SYN, ACK, FIN or RST flag set. Dropping |
| Explanation | The packet has no SYN, ACK, FIN or RST flag set. Dropping packet. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.54.15. multiple_tcp_ws_options (ID: 03400017)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Multiple window scale options present in a single TCP segment |
| Explanation | Multiple TCP window scale options present in a single TCP segment. |
| Gateway Action | strip |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Connection Packet Buffer |

2.54.16. too_large_tcp_window_scale (ID: 03400018)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | TCP window scale option with shift count <shift_cnt> was received. The shift count will be lowered to 14. |
| Explanation | A TCP segment with a window scale option specifying a shift count that is larger than 14 was received. The shift count will be lowered to 14. |
| Gateway Action | adjust |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | shift_cnt |

| | |
|---------------------------|-----------------------------|
| Context Parameters | Connection Packet Buffer |
|---------------------------|-----------------------------|

2.54.17. mismatching_tcp_window_scale (ID: 03400019)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Mismatching TCP window scale shift count. Expected <old> got <new> will use <effective> |
| Explanation | TCP segment with a window scale option specifying a different shift count than previous segments was received. The lower of the two values will be used. |
| Gateway Action | adjust |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | old new effective |
| Context Parameters | Connection Packet Buffer |

2.55. THRESHOLD

These log messages refer to the **THRESHOLD (Threshold rule events)** category.

2.55.1. conn_threshold_exceeded (ID: 05300100)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Connection threshold <description> exceeded <threshold>. Source IP: <srcip>. Closing connection |
| Explanation | The source ip is opening up new connections too fast. |
| Gateway Action | closing_connection |
| Recommended Action | Investigate worms and DoS attacks. |
| Revision | 1 |
| Parameters | description threshold srcip |
| Context Parameters | Rule Name |

2.55.2. reminder_conn_threshold (ID: 05300101)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Reminder: Connection threshold <description> exceeded <threshold>. Source IP: <srcip>. |
| Explanation | The source ip is still opening up new connections too fast. |
| Gateway Action | None |
| Recommended Action | Look through logs to see if the source ip has misbehaved in the past. |
| Revision | 1 |
| Parameters | description threshold srcip |
| Context Parameters | Rule Name |

2.55.3. conn_threshold_exceeded (ID: 05300102)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | Connection threshold <description> exceeded <threshold>. Source IP: <srcip> |
| Explanation | The source ip is opening up new connections too fast. |

| | |
|---------------------------|------------------------------------|
| Gateway Action | None |
| Recommended Action | Investigate worms and DoS attacks. |
| Revision | 1 |
| Parameters | description threshold srcip |
| Context Parameters | Rule Name |

2.55.4. failed_to_keep_connection_count (ID: 05300200)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Failed to keep connection count. Reason: Out of memory |
| Explanation | The device was unable to allocate resources needed to include the connection in the connection count kept by threshold rules. The connection will not be included in the connection count. |
| Gateway Action | none |
| Recommended Action | Check memory consumption. |
| Revision | 1 |
| Context Parameters | Connection |

2.55.5. failed_to_keep_connection_count (ID: 05300201)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Failed to keep connection count. Reason: Out of memory |
| Explanation | The device was unable to allocate resources needed to include the connection in the connection count kept by threshold rules. Since there exist protect actions that are triggered by thresholds on the number of connections, the connection will be closed. |
| Gateway Action | close |
| Recommended Action | Check memory consumption. |
| Revision | 1 |
| Context Parameters | Connection |

2.55.6. threshold_conns_from_srcip_exceeded (ID: 05300210)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | The number of connections matching the rule and originating from |

| | |
|---------------------------|--|
| | <srcip> exceeds <threshold>. |
| Explanation | The number of connections matching the threshold rule and originating from a single host exceeds the configured threshold. Note: This log message is rate limited via an exponential back-off procedure. |
| Gateway Action | none |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | threshold srcip [username] |
| Context Parameters | Rule Name |

2.55.7. threshold_conns_from_srcip_exceeded (ID: 05300211)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | The number of connections matching the rule and originating from <srcip> exceeds <threshold>. |
| Explanation | The number of connections matching the threshold rule and originating from a single host exceeds the configured threshold. The configured protective measures will be triggered. Note: This log message is rate limited via an exponential back-off procedure. |
| Gateway Action | protect |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | threshold srcip [username] |
| Context Parameters | Rule Name |

2.55.8. threshold_conns_from_filter_exceeded (ID: 05300212)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | The number of connections matching the rule exceeds <threshold>. The Offending host is <srcip>. |
| Explanation | The number of connections matching the threshold rule exceeds the configured threshold. Note: This log message is rate limited via an exponential back-off procedure. |
| Gateway Action | none |

| | |
|---------------------------|----------------------------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | threshold srcip [username] |
| Context Parameters | Rule Name |

2.55.9. threshold_conns_from_filter_exceeded (ID: 05300213)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | The number of connections matching the rule exceeds <threshold>. The Offending host is <srcip>. |
| Explanation | The number of connections matching the threshold rule exceeds the configured threshold. The configured protective measures will be triggered. Note: This log message is rate limited via an exponential back-off procedure. |
| Gateway Action | protect |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | threshold srcip [username] |
| Context Parameters | Rule Name |

2.56. TIMESYNC

These log messages refer to the **TIMESYNC (Firewall time synchronization events)** category.

2.56.1. synced_clock (ID: 03500001)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | The clock at <oldtime>, was off by <clockdrift> second(s) and synchronized with <timeserver> to <newtime> |
| Explanation | The clock has been synchronized with the time server. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 2 |
| Parameters | oldtime newtime clockdrift timeserver |

2.56.2. failure_communicate_with_timeservers (ID: 03500002)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Communication with the timeserver(s) failed. Clock not updated. |
| Explanation | The unit failed to establish a connection with the time sync server. The clock has not been updated. |
| Gateway Action | clock_not_synced |
| Recommended Action | Verify that the time sync server is running. |
| Revision | 1 |

2.56.3. clockdrift_too_high (ID: 03500003)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | According to the timeserver the clock has drifted <clockdrift> seconds(s) which is NOT in the allowed correction interval (+/-<interval> seconds) |
| Explanation | The clock has drifted so much that it is not within the allowed +/- correction interval. The clock will not be updated. |
| Gateway Action | clock_not_synced |
| Recommended Action | If the correction interval is too narrow, it can be changed in the Advanced Settings section. |

| | |
|-------------------|--------------------------------------|
| Revision | 1 |
| Parameters | clockdrift timeserver interval |

2.57. TRANSPARENCY

These log messages refer to the **TRANSPARENCY (Events concerning the Transparent Mode feature)** category.

2.57.1. impossible_hw_sender_address (ID: 04400410)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Impossible hardware sender address 0000:0000:0000. Dropping. |
| Explanation | Some equipment on the network is sending packets with a source MAC address of 0000:0000:0000. These packets will be dropped. |
| Gateway Action | drop |
| Recommended Action | Investigate if there are equipment sending packets using 0000:0000:0000 as source MAC address. If there are, try to change the behaviour of that equipment. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.57.2. enet_hw_sender_broadcast (ID: 04400411)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Ethernet hardware sender is a broadcast address. Accepting. |
| Explanation | The Ethernet hardware sender address is a broadcast address. The packet will be accepted. |
| Gateway Action | accept |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.57.3. enet_hw_sender_broadcast (ID: 04400412)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | Ethernet hardware sender is a broadcast address. Rewriting to the address of the forwarding interface. |
| Explanation | The Ethernet hardware sender address is a broadcast address. The packet will be rewritten with the hardware sender address of the forwarding interface. |

| | |
|---------------------------|----------------------------|
| Gateway Action | rewrite |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.57.4. enet_hw_sender_broadcast (ID: 04400413)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Ethernet hardware sender is a broadcast address. Dropping. |
| Explanation | The Ethernet hardware sender address is a broadcast address. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | Investigate if there are equipment sending packets using a broadcast address as sender MAC address. If there are, try to change the behaviour of that equipment. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.57.5. enet_hw_sender_multicast (ID: 04400414)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Ethernet hardware sender is a multicast address. Accepting. |
| Explanation | The Ethernet hardware sender address is a multicast address. The packet will be accepted. |
| Gateway Action | accept |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.57.6. enet_hw_sender_multicast (ID: 04400415)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | Ethernet hardware sender is a multicast address. Rewriting to the address of the forwarding interface. |

| | |
|---------------------------|---|
| Explanation | The Ethernet hardware sender address is a multicast address. The packet will be rewritten with the hardware sender address of the forwarding interface. |
| Gateway Action | rewrite |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.57.7. enet_hw_sender_multicast (ID: 04400416)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Ethernet hardware sender is a multicast address. Dropping. |
| Explanation | The Ethernet hardware sender address is a multicast address. The packet will be dropped. |
| Gateway Action | drop |
| Recommended Action | Investigate if there are equipment sending packets using a multicast address as sender MAC address. If there are, try to change the behaviour of that equipment. |
| Revision | 1 |
| Context Parameters | Rule Name Packet Buffer |

2.57.8. relay_stp_frame (ID: 04400417)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Relaying STP frame from <recvif> to switched interfaces |
| Explanation | An incoming STP frame has been relayed to all switched interfaces in the same switch route as [recif]. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | recvif |

2.57.9. dropped_stp_frame (ID: 04400418)

| | |
|-------------------------|---------------|
| Default Severity | INFORMATIONAL |
|-------------------------|---------------|

| | |
|---------------------------|---|
| Log Message | Dropping STP frame from <recvif> |
| Explanation | An incoming STP frame has been dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | recvif |

2.57.10. invalid_stp_frame (ID: 04400419)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Incoming STP frame from <recvif> dropped. Reason: <reason> |
| Explanation | An incoming Spanning-Tree frame has been dropped since it is either malformed or its type is unknown. Supported Spanning-Tree versions are STP, RSTP, MSTP and PVST+. |
| Gateway Action | drop |
| Recommended Action | If the frame format is invalid, locate the unit which is sending the malformed frame. |
| Revision | 1 |
| Parameters | recvif reason |

2.57.11. relay_mpls_frame (ID: 04400420)

| | |
|---------------------------|--|
| Default Severity | INFORMATIONAL |
| Log Message | Forwarding MPLS packet from <recvif>. |
| Explanation | An incoming MPLS packet has been forwarded through the gateway. [destif] indicates if it was forwarded to an ultimate destination or if it was broadcasted to over all interfaces in the switch group. |
| Gateway Action | allow |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | recvif destif |

2.57.12. dropped_mpls_packet (ID: 04400421)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Dropping MPLS packet from <recvif> |
| Explanation | An incoming MPLS packet has been dropped. |
| Gateway Action | drop |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | recvif |

2.57.13. invalid_mpls_packet (ID: 04400422)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Incoming MPLS packet on <recvif> dropped. Reason: <reason> |
| Explanation | An incoming MPLS packet has been dropped since it was malformed. |
| Gateway Action | drop |
| Recommended Action | If the packet format is invalid, locate the unit which is sending the malformed packet. |
| Revision | 1 |
| Parameters | recvif reason |

2.58. USERAUTH

These log messages refer to the **USERAUTH (User authentication (e.g. RADIUS) events)** category.

2.58.1. accounting_start (ID: 03700001)

| | |
|---------------------------|---|
| Default Severity | INFORMATIONAL |
| Log Message | Successfully received RADIUS Accounting START response from RADIUS Accounting server |
| Explanation | The unit received a valid response to an Accounting-Start event from the Accounting Server. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.2. invalid_accounting_start_server_response (ID: 03700002)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received a RADIUS Accounting START response with an Identifier mismatch. Ignoring this packet |
| Explanation | The unit received a response with an invalid Identifier mismatch. This can be the result of a busy network, causing accounting event re-sends. This will be ignored. |
| Gateway Action | ignore_packet |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.3. no_accounting_start_server_response (ID: 03700003)

| | |
|-------------------------|--|
| Default Severity | ALERT |
| Log Message | Did not receive a RADIUS Accounting START response. Accounting has been disabled |
| Explanation | The unit did not receive a response to an Accounting-Start event from the Accounting Server. Accounting features will be disabled. |

| | |
|---------------------------|--|
| Gateway Action | accounting_disabled |
| Recommended Action | Verify that the RADIUS Accounting server daemon is running on the Accounting Server. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.4. invalid_accounting_start_server_response (ID: 03700004)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Received an invalid RADIUS Accounting START response from RADIUS Accounting server. Accounting has been disabled |
| Explanation | The unit received an invalid response to an Accounting-Start event from the Accounting Server Accounting features will be disabled. |
| Gateway Action | accounting_disabled |
| Recommended Action | Verify that the RADIUS Accounting server is properly configured. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.5. no_accounting_start_server_response (ID: 03700005)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Logging out the authenticated user, as no RADIUS Accounting START response was received from RADIUS Accounting server |
| Explanation | The authenticated user is logged out as no response to the Accounting-Start event was received from the Accounting Server. |
| Gateway Action | logout_user |
| Recommended Action | Verify that the RADIUS Accounting server daemon is running on the Accounting Server. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.6. invalid_accounting_start_server_response (ID: 03700006)

| | |
|-------------------------|---------|
| Default Severity | WARNING |
|-------------------------|---------|

| | |
|---------------------------|--|
| Log Message | Logging out the authenticated user, as an invalid RADIUS Accounting START response was received from RADIUS Accounting server |
| Explanation | The authenticated user is logged out as an invalid response to the Accounting-Start event was received from the Accounting Server. |
| Gateway Action | logout_user |
| Recommended Action | Verify that the RADIUS Accounting server is properly configured. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.7. failed_to_send_accounting_stop (ID: 03700007)

| | |
|---------------------------|--|
| Default Severity | ALERT |
| Log Message | Failed to send Accounting STOP to Authentication Server. Accounting information will not be sent to Authentication Server. |
| Explanation | The unit failed to send an Accounting-Stop event to the Accounting Server. Accounting information will not be sent to the Accounting Server. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.8. accounting_stop (ID: 03700008)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Successfully received RADIUS Accounting STOP response from RADIUS Accounting server. Bytes sent=<bytessent>, Bytes rcv=<bytesrcv>, Packets sent=<packetsent>, Packets rcv=<packetsrcv>, Session time=<sestime> |
| Explanation | The unit received a valid response to an Accounting-Stop event from the Accounting Server. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | bytessent bytesrcv packetsent packetsrcv |

| | |
|---------------------------|---|
| | gigawrapsent gigawraprecv sestime |
| Context Parameters | User Authentication |

2.58.9. invalid_accounting_stop_server_response (ID: 03700009)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received a RADIUS Accounting STOP response with an Identifier mismatch. Ignoring this packet |
| Explanation | The unit received a response with an invalid Identifier mismatch. This can be the result of a busy network, causing accounting event re-sends. This will be ignored. |
| Gateway Action | ignore_packet |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.10. no_accounting_stop_server_response (ID: 03700010)

| | |
|---------------------------|--|
| Default Severity | ALERT |
| Log Message | Did not receive a RADIUS Accounting STOP response. User statistics might not have been updated on the Accounting Server |
| Explanation | The unit did not receive a response to an Accounting-Stop event from the Accounting Server. Accounting information might not have been properly received by the Accounting Server. |
| Gateway Action | None |
| Recommended Action | Verify that the RADIUS Accounting server daemon is running on the Accounting Server. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.11. invalid_accounting_stop_server_response (ID: 03700011)

| | |
|-------------------------|---|
| Default Severity | ALERT |
| Log Message | Received an invalid RADIUS Accounting STOP response from RADIUS |

| | |
|---------------------------|--|
| | Accounting server. User statistics might not have been updated on the Accounting Server |
| Explanation | The unit received an invalid response to an Accounting-Stop event from the Accounting Server. Accounting information might not have been properly received by the Accounting Server. |
| Gateway Action | None |
| Recommended Action | Verify that the RADIUS Accounting server is properly configured. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.12. failure_init_radius_accounting (ID: 03700012)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Failed to send Accounting Start to RADIUS Accounting Server. Accounting will be disabled |
| Explanation | The unit failed to send an Accounting-Start event to the Accounting Server. Accounting features will be disabled. |
| Gateway Action | accounting_disabled |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.13. invalid_accounting_start_request (ID: 03700013)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Logging out the authenticated user, as a RADIUS Accounting START request could not be sent to the RADIUS Accounting server |
| Explanation | The authenticated user is logged out as an Accounting-Start request did not get sent to the Accounting Server. This could be a result of missing a route from the unit to the Accounting Server. |
| Gateway Action | logout_user |
| Recommended Action | Verify that a route exists from the unit to the RADIUS Accounting server, and that it is properly configured. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.14. no_accounting_start_server_response (ID: 03700014)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Did not send a RADIUS Accounting START request. Accounting has been disabled |
| Explanation | The unit did not send an Accounting-Start event to the Accounting Server. Accounting features will be disabled. This could be a result of missing a route from the unit to the Accounting Server. |
| Gateway Action | accounting_disabled |
| Recommended Action | Verify that a route exists from the unit to the RADIUS Accounting server, and that it is properly configured. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.15. user_timeout (ID: 03700020)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | User timeout expired, user is automatically logged out |
| Explanation | The user is automatically logged out, as the configured timeout expired. |
| Gateway Action | user_removed |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.16. group_list_too_long (ID: 03700030)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | User <username> belongs in too many groups, keeping the 32 first groups |
| Explanation | A username can only be a member of a maximum of 32 groups. This username is a member of too many groups, and only the 32 first groups will be used. |
| Gateway Action | truncating_group_list |
| Recommended Action | Lower the number of groups that this user belongs to. |
| Revision | 1 |
| Parameters | username |

2.58.17. accounting_alive (ID: 03700050)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Successfully received RADIUS Accounting Interim response from RADIUS Accounting server. Bytes sent=<bytessent>, Bytes rcv=<bytesrcv>, Packets sent=<packetsent>, Packets rcv=<packetsrcv>, Session time=<sestime> |
| Explanation | The unit successfully received a RADIUS Accounting Interim response to an Accounting-Interim request event from the Accounting Server. Accounting information has been updated on the Accounting Server. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | bytessent bytesrcv packetsent packetsrcv gigawrapresent gigawraprecv sestime |
| Context Parameters | User Authentication |

2.58.18. accounting_interim_failure (ID: 03700051)

| | |
|---------------------------|--|
| Default Severity | ALERT |
| Log Message | Failed to send Accounting Interim to Authentication Server. Accounting information might not be properly updated on the Accounting Server. |
| Explanation | The unit failed to send an Accounting-Interim event to the Accounting Server. The statistics on the Accounting Server might not have been properly synchronized. |
| Gateway Action | None |
| Recommended Action | Verify that the RADIUS Accounting server daemon is running on the Accounting Server. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.19. no_accounting_interim_server_response (ID: 03700052)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Did not receive a RADIUS Accounting Interim response. User statistics might not have been updated on the Accounting Server |
| Explanation | The unit did not receive a response to an Accounting-Interim event from the Accounting Server. Accounting information might not have been properly received by the Accounting Server. |
| Gateway Action | None |
| Recommended Action | Verify that the RADIUS Accounting server daemon is running on the Accounting Server. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.20. invalid_accounting_interim_server_response (ID: 03700053)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Received an invalid RADIUS Accounting Interim response from RADIUS Accounting server. User statistics might not have been updated on the Accounting Server |
| Explanation | The unit received an invalid response to an Accounting-Interim event from the Accounting Server. Accounting information might not have been properly received by the Accounting Server. |
| Gateway Action | None |
| Recommended Action | Verify that the RADIUS Accounting server is properly configured. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.21. invalid_accounting_interim_server_response (ID: 03700054)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Received a RADIUS Accounting Interim response with an Identifier mismatch. Ignoring this packet |
| Explanation | The unit received a response with an invalid Identifier mismatch. This can be the result of a busy network, causing accounting event re-sends. This will be ignored. |
| Gateway Action | ignore_packet |
| Recommended Action | None. |

| | |
|---------------------------|---------------------|
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.22. `relogin_from_new_srcip` (ID: 03700100)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | User with the same username is logging in from another IP address, logging out current instance |
| Explanation | A user with the same username as an already authenticated user is logging in. The current instance is logged out. |
| Gateway Action | logout_current_user |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.23. `already_logged_in` (ID: 03700101)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | This user is already logged in |
| Explanation | A user with the same username as an already authenticated user tried to logged in, and was rejected . |
| Gateway Action | disallowed_login |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.24. `user_login` (ID: 03700102)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | User logged in. Idle timeout: <idle_timeout>, Session timeout: <session_timeout> |
| Explanation | A user logged in and has been granted access, according to the group membership or user name information. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

| | |
|---------------------------|---|
| Parameters | idle_timeout session_timeout [groups] |
| Context Parameters | User Authentication |

2.58.25. bad_user_credentials (ID: 03700104)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Unknown user or invalid password |
| Explanation | A user failed to log in. The entered username or password was invalid. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.26. radius_auth_timeout (ID: 03700105)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Timeout during RADIUS user authentication, contact with RADIUS server not established |
| Explanation | The unit did not receive a response from the RADIUS Authentication server, and the authentication process failed. |
| Gateway Action | None |
| Recommended Action | Verify that the RADIUS Authentication server daemon is running on the Authentication Server. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.27. manual_logout (ID: 03700106)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | User manually logged out |
| Explanation | A user manually logged out, and is no longer authenticated. |
| Gateway Action | None |
| Recommended Action | None. |

| | |
|---------------------------|---------------------|
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.28. userauthrules_disallowed (ID: 03700107)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Denied access according to UserAuthRules rule-set |
| Explanation | The user is not allowed to authenticate according to the UserAuthRules rule-set. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.29. challenges_not_supported (ID: 03700108)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Challenges are not supported for this authentication system |
| Explanation | The XAuth authentication system does not support the challenge-and-response method. |
| Gateway Action | None |
| Recommended Action | Disable the challenge-and-response feature, and use password verification instead. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.30. ldap_auth_error (ID: 03700109)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Error during LDAP user authentication, contact with LDAP server not established |
| Explanation | The unit did not receive a response from the LDAP Authentication server, and the authentication process failed. |
| Gateway Action | None |
| Recommended Action | Verify that the LDAP Authentication server daemon is running on the Authentication Server. |

| | |
|---------------------------|---------------------|
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.31. user_logout (ID: 03700110)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | User logged out |
| Explanation | A user logged out, and is no longer authenticated. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.32. ldap_session_new_out_of_memory (ID: 03700401)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Out of memory while trying to allocate new LDAP session |
| Explanation | The unit failed to allocate a LDAP session, as it is out of memory. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.58.33. cant_create_new_request (ID: 03700402)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Can't create new user request. Authentication aborted |
| Explanation | Can't create new user request. |
| Gateway Action | authentication_failed |
| Recommended Action | Check LDAP context to work. |
| Revision | 1 |

2.58.34. ldap_user_authentication_successful (ID: 03700403)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | LDAP Authentication successful for <user> |
| Explanation | Authentication attempt successful. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | user |

2.58.35. ldap_user_authentication_failed (ID: 03700404)

| | |
|---------------------------|---------------------------------------|
| Default Severity | NOTICE |
| Log Message | LDAP Authentication failed for <user> |
| Explanation | Authentication attempt failed. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | user |

2.58.36. ldap_context_new_out_of_memory (ID: 03700405)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Out of memory while trying to allocate new LDAP Context |
| Explanation | The unit failed to allocate a LDAP Context, as it is out of memory. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.58.37. user_req_new_out_of_memory (ID: 03700406)

| | |
|-------------------------|---|
| Default Severity | ALERT |
| Log Message | Out of memory while trying to allocate new User Request |
| Explanation | The unit failed to allocate a User Request, as it is out of memory. |

| | |
|---------------------------|--------|
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | reason |

2.58.38. failed_admin_bind (ID: 03700407)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Cannot bind to LDAP database <database> |
| Explanation | Cannot bind the the LDAP database using the configured username and password. |
| Gateway Action | database connection disabled |
| Recommended Action | Check configuration. |
| Revision | 1 |
| Parameters | database |

2.58.39. invalid_username_or_password (ID: 03700408)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Invalid provided username or password |
| Explanation | Username or password does not contain any information. |
| Gateway Action | authentication_failed |
| Recommended Action | Verify connecting client username and password. |
| Revision | 1 |

2.58.40. failed_retrieve_password (ID: 03700409)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Cannot retrieve user password from LDAP database <database> |
| Explanation | Cannot retrieve the user password from LDAP database making user authentication impossible. |
| Gateway Action | user authentication failed |
| Recommended Action | Check configuration for password attribute. |
| Revision | 1 |

| | |
|-------------------|----------|
| Parameters | database |
|-------------------|----------|

2.58.41. ldap_timed_out_server_request (ID: 03700423)

| | |
|---------------------------|-------------------------------------|
| Default Severity | NOTICE |
| Log Message | LDAP timed out server request |
| Explanation | LDAP timed out server request. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | SessionID user ldap_server_ip |

2.58.42. ldap_no_working_server_found (ID: 03700424)

| | |
|---------------------------|-------------------------------|
| Default Severity | NOTICE |
| Log Message | LDAP no working server found |
| Explanation | LDAP no working server found. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | SessionID user |

2.58.43. no_shared_ciphers (ID: 03700500)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SSL Handshake: No shared ciphers exists. Closing down SSL connection |
| Explanation | No shared ciphers were found between the client and the unit, and the SSL connection can not be established. |
| Gateway Action | ssl_close |
| Recommended Action | Make sure that the client and unit share atleast one cipher. |
| Revision | 1 |
| Parameters | client_ip |

2.58.44. disallow_clientkeyexchange (ID: 03700501)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SSL Handshake: Disallow ClientKeyExchange. Closing down SSL connection |
| Explanation | The SSL connection will be closed because there are not enough resources to process any ClientKeyExchange messages at the moment. This could be a result of SSL handshake message flooding. This action is triggered by a system that monitors the amount of resources that is spent on key exchanges. This system is controlled by the advanced setting SSL_ProcessingPriority. |
| Gateway Action | ssl_close |
| Recommended Action | Investigate the source of this, and try to find out if it is a part of a possible attack, or normal traffic. |
| Revision | 2 |
| Parameters | client_ip |

2.58.45. bad_packet_order (ID: 03700502)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Bad SSL Handshake packet order. Closing down SSL connection |
| Explanation | Two or more SSL Handshake message were received in the wrong order, and the SSL connection is closed. |
| Gateway Action | ssl_close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip |

2.58.46. bad_clienthello_msg (ID: 03700503)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SSL Handshake: Bad ClientHello message. Closing down SSL connection |
| Explanation | The ClientHello message (which is the first part of a SSL handshake) is invalid, and the SSL connection is closed. |
| Gateway Action | ssl_close |
| Recommended Action | None. |

| | |
|-------------------|-----------|
| Revision | 1 |
| Parameters | client_ip |

2.58.47. bad_changecipher_msg (ID: 03700504)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | SSL Handshake: Bad ChangeCipher message. Closing down SSL connection |
| Explanation | The ChangeCipher message (which is a part of a SSL handshake) is invalid, and the SSL connection is closed. |
| Gateway Action | ssl_close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip |

2.58.48. bad_clientkeyexchange_msg (ID: 03700505)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | SSL Handshake: Bad ClientKeyExchange message. Closing down SSL connection |
| Explanation | The ClientKeyExchange message (which is a part of a SSL handshake) is invalid, and the SSL connection is closed. |
| Gateway Action | ssl_close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip |

2.58.49. bad_clientfinished_msg (ID: 03700506)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | SSL Handshake: Bad ClientFinished message. Closing down SSL connection |
| Explanation | The ClientFinished message (which is a part of a SSL handshake) is invalid, and the SSL connection is closed. |
| Gateway Action | ssl_close |
| Recommended Action | None. |

| | |
|-------------------|-----------|
| Revision | 1 |
| Parameters | client_ip |

2.58.50. bad_alert_msg (ID: 03700507)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Bad Alert message. Closing down SSL connection |
| Explanation | The Alert message (which can be a part of a SSL handshake) is invalid, and the SSL connection is closed. |
| Gateway Action | ssl_close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip |

2.58.51. unknown_ssl_error (ID: 03700508)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Unknown SSL error. Closing down SSL connection |
| Explanation | An unknown error occurred in the SSL connection, and the SSL connection is closed. |
| Gateway Action | ssl_close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip |

2.58.52. negotiated_cipher_does_not_permit_the_chosen_certificate_size (ID: 03700509)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | The negotiated cipher does not permit the chosen certificate size. Closing down SSL connection |
| Explanation | The negotiated cipher was an export cipher, which does not allow the chosen certification size. The certificate can not be sent, and the SSL connection is closed. |
| Gateway Action | ssl_close |
| Recommended Action | Change ciphers and/or certificate. |

| | |
|-------------------|-----------|
| Revision | 1 |
| Parameters | client_ip |

2.58.53. received_sslalert (ID: 03700510)

| | |
|---------------------------|---|
| Default Severity | ERROR |
| Log Message | Received SSL Alert. Closing down SSL connection |
| Explanation | A SSL Alert message was received during an established SSL connection, and the SSL connection will be closed. |
| Gateway Action | close |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | client_ip level description |

2.58.54. sent_sslalert (ID: 03700511)

| | |
|---------------------------|--|
| Default Severity | ERROR |
| Log Message | Sent SSL Alert. Closing down SSL connection |
| Explanation | The unit has sent a SSL Alert message to the client, due to some abnormal event. The connection will be closed down. |
| Gateway Action | close |
| Recommended Action | Consult the "description" parameter, which contains the reason for this. |
| Revision | 1 |
| Parameters | client_ip level description |

2.58.55. user_login (ID: 03707000)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | User logged in. Idle timeout: <idle_timeout>, Session timeout: <session_timeout> |
| Explanation | A user logged in and has been granted access. Auth Rule grants immediate access. |
| Gateway Action | None |

| | |
|---------------------------|---------------------------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | idle_timeout session_timeout |
| Context Parameters | User Authentication |

2.58.56. userauthrules_disallowed (ID: 03707001)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Denied access according to UserAuthRules rule-set |
| Explanation | The user is not allowed to authenticate according to the UserAuthRules rule-set. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.57. user_login (ID: 03707002)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | User logged in. Idle timeout: <idle_timeout>, Session timeout: <session_timeout> |
| Explanation | A user logged in and has been granted access. The MAC address has been found. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | idle_timeout session_timeout |
| Context Parameters | User Authentication |

2.58.58. bad_user_credentials (ID: 03707003)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | Unknown user |
| Explanation | A user failed to log in. The MAC address does not exist. |

| | |
|---------------------------|---------------------|
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.59. ldap_auth_error (ID: 03707004)

| | |
|---------------------------|---|
| Default Severity | ALERT |
| Log Message | Error during LDAP user authentication, contact with LDAP server not established |
| Explanation | The unit did not receive a response from the LDAP Authentication server, and the authentication process failed. |
| Gateway Action | None |
| Recommended Action | Verify that the LDAP Authentication server daemon is running on the Authentication Server. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.58.60. bad_user_credentials (ID: 03707005)

| | |
|---------------------------|--------------------------|
| Default Severity | NOTICE |
| Log Message | Unknown user |
| Explanation | A user failed to log in. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Context Parameters | User Authentication |

2.59. VFS

These log messages refer to the **VFS (VFS file handling events)** category.

2.59.1. odm_execute_failed (ID: 05200001)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Usage of file "<filename>" failed. File validated as "<description>". |
| Explanation | An uploaded file ([filename]) was validated as "[description]". An error occurred while using this file. |
| Gateway Action | None |
| Recommended Action | Check the origin of the file and make sure that the file is of the correct format. |
| Revision | 1 |
| Parameters | filename description |

2.59.2. odm_execute_action_reboot (ID: 05200002)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Uploaded file (<filename>) was validated as "<description>". Rebooting system. |
| Explanation | An uploaded file was validated, and executed. The system will now reboot. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | filename description |

2.59.3. odm_execute_action_reconfigure (ID: 05200003)

| | |
|-------------------------|---|
| Default Severity | NOTICE |
| Log Message | Uploaded file (<filename>) was validated as "<description>". Doing system RECONFIGURE . |
| Explanation | An uploaded file was validated, and executed. The system will now RECONFIGURE. |
| Gateway Action | None |

| | |
|---------------------------|-------------------------|
| Recommended Action | None. |
| Revision | 1 |
| Parameters | filename description |

2.59.4. odm_execute_action_none (ID: 05200004)

| | |
|---------------------------|---|
| Default Severity | NOTICE |
| Log Message | Uploaded file (<filename>) could not be recognized as a known type. |
| Explanation | An uploaded file could not be recognized as a known type. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | filename description |

2.59.5. pkg_execute_fail (ID: 05200005)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Uploaded package file (<filename>) could not be executed correctly. |
| Explanation | An uploaded file was validated but could not be executed correctly. This could be because the unit is out of disk space or that the disk is corrupt. |
| Gateway Action | None |
| Recommended Action | Check that the disk is intact and that it has enough space. |
| Revision | 1 |
| Parameters | filename |

2.59.6. upload_certificate_fail (ID: 05200006)

| | |
|-------------------------|--|
| Default Severity | NOTICE |
| Log Message | Certificate data in file <filename>, could not be added to the configuration |
| Explanation | Certificate data could not be added to the configuration. |
| Gateway Action | None |

| | |
|---------------------------|---|
| Recommended Action | Make sure that the certificate data is of the correct format. |
| Revision | 1 |
| Parameters | filename |

2.59.7. upload_certificate_fail (ID: 05200007)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Certificate data in file <filename>, could not be added to the configuration |
| Explanation | Certificate data could not be added to the configuration. |
| Gateway Action | None |
| Recommended Action | Make sure that the certificate data is of the correct format. |
| Revision | 1 |
| Parameters | filename |

2.59.8. odm_license_warn (ID: 05200008)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | Uploaded file (<filename>) was validated as "<description>". Warned user to take action. |
| Explanation | A license file was validated, and executed. Warned user to take action. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | filename description |

2.59.9. secaas_lic_installed (ID: 05208002)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | License file has been installed. Doing system RECONFIGURE. |
| Explanation | License file has been validated, and installed. The system will now RECONFIGURE. |
| Gateway Action | None |
| Recommended Action | None. |

| | |
|-----------------|---|
| Revision | 1 |
|-----------------|---|

2.59.10. secaas_lic_installation_failed (ID: 05208003)

| | |
|---------------------------|--------------------------------------|
| Default Severity | EMERGENCY |
| Log Message | License file could not be installed. |
| Explanation | None. |
| Gateway Action | None |
| Recommended Action | None. |
| Revision | 1 |

2.60. ZONEDEFENSE

These log messages refer to the **ZONEDEFENSE (ZoneDefense events)** category.

2.60.1. unable_to_allocate_send_entries (ID: 03800001)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Unable to allocate send entry. Sending of request to <switch> abandoned. |
| Explanation | Unable to allocate send entry. Unit is low on RAM. |
| Gateway Action | no_msg_sent |
| Recommended Action | Review the configuration in order to free more RAM. |
| Revision | 1 |
| Parameters | switch |

2.60.2. unable_to_allocate_exclude_entry (ID: 03800002)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Unable to allocate exclude entry for <host>. |
| Explanation | Unable to allocate exclude entry. Unit is low on memory. |
| Gateway Action | no_exclude |
| Recommended Action | Review the configuration in order to free more RAM. |
| Revision | 1 |
| Parameters | host |

2.60.3. unable_to_allocate_block_entry (ID: 03800003)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Unable to allocate block entry. Host <host> remains unblocked. |
| Explanation | Unable to allocate block entry. Unit is low on memory. |
| Gateway Action | no_block |
| Recommended Action | Review the configuration in order to free more RAM. |
| Revision | 1 |
| Parameters | host |

2.60.4. switch_out_of_ip_profiles (ID: 03800004)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | Unable to accommodate block request since out of IP profiles on <switch>. |
| Explanation | There are no free IP profiles left on the switch. No more hosts can be blocked/excluded on this switch. |
| Gateway Action | no_block |
| Recommended Action | Check if it is possible to unblock some hosts. |
| Revision | 1 |
| Parameters | switch |

2.60.5. out_of_mac_profiles (ID: 03800005)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Unable to accommodate block request since out of MAC profiles on <switch>. |
| Explanation | There are no free MAC profiles left on the switch. No more hosts can be blocked/excluded on this switch. |
| Gateway Action | no_block |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | switch |

2.60.6. failed_to_create_profile (ID: 03800006)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Failed to create <type> profile <profile> on <switch>. |
| Explanation | The switch returned an error while creating a profile on the switch. |
| Gateway Action | no_profile |
| Recommended Action | Verify that the configured switch model is correct. |
| Revision | 1 |
| Parameters | type profile switch |

2.60.7. no_response_trying_to_create_rule (ID: 03800007)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | No response from switch <switch> while trying to create <type> rule in profile <profile>. |
| Explanation | Several attempts to create a rule in the switch has timed out. No more attempts will be made. |
| Gateway Action | no_rule |
| Recommended Action | Verify that the firewall is able to communicate with the switch. |
| Revision | 1 |
| Parameters | type profile switch |

2.60.8. failed_writing_zonededense_state_to_media (ID: 03800008)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed to write ZoneDefense state to media. |
| Explanation | Failed to write list of ZoneDefense state to media. The media might be corrupt. |
| Gateway Action | None |
| Recommended Action | Verify that the media is intact. |
| Revision | 1 |

2.60.9. failed_to_create_access_rule (ID: 03800009)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed to create <ruletype> access rule to add <network> on <switch>. |
| Explanation | The switch returned an error while creating a rule. |
| Gateway Action | None |
| Recommended Action | Verify that the configured switch model is correct. |
| Revision | 1 |
| Parameters | ruletype network switch |

2.60.10. no_response_trying_to_erase_profile (ID: 03800010)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | No response from switch <switch> while trying to erase <type> profile <profile>. |
| Explanation | Several attempts to erase a profile in the switch has timed out. No more attempts will be made. |
| Gateway Action | None |
| Recommended Action | Verify that the firewall is able to communicate with the switch. |
| Revision | 1 |
| Parameters | type profile switch |

2.60.11. failed_to_erase_profile (ID: 03800011)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | Failed to erase <type> profile <profile> on <switch>. |
| Explanation | The switch returned an error while erasing a profile. |
| Gateway Action | None |
| Recommended Action | Verify that the configured switch model is correct. |
| Revision | 1 |
| Parameters | type profile switch |

2.60.12. failed_to_save_configuration (ID: 03800012)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Failed to save configuration on <switch>. |
| Explanation | The switch returned an error while saving the configuration. |
| Gateway Action | None |
| Recommended Action | Verify that the configured switch model is correct. |
| Revision | 1 |
| Parameters | switch |

2.60.13. timeout_saving_configuration (ID: 03800013)

| | |
|---------------------------|--|
| Default Severity | CRITICAL |
| Log Message | Timeout to save configuration on <switch>. |
| Explanation | Several attempts to save the configuration in the switch has timed out. No more attempts will be made. |
| Gateway Action | None |
| Recommended Action | Verify that the firewall is able to communicate with the switch. |
| Revision | 1 |
| Parameters | switch |

2.60.14. zd_block (ID: 03800014)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | ZoneDefense blocking host <host>. Alert Type: <type>. |
| Explanation | A configured action of type [type] has triggered ZoneDefense to block the host [host] at the configured ZoneDefense switches. |
| Gateway Action | block |
| Recommended Action | Unblock the specified host using the ZoneDefense status page to allow the host to regain access to the network. |
| Revision | 1 |
| Parameters | type host |

2.60.15. mac_address_blocking_not_supported (ID: 03800015)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Unable to accommodate block request since MAC address blocking is not supported. |
| Explanation | This switch implements universal MIB that does not support MAC address blocking. |
| Gateway Action | no_block |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | switch mac |

2.60.16. zonedefense_table_exhausted (ID: 03800016)

| | |
|---------------------------|--|
| Default Severity | WARNING |
| Log Message | Unable to accommodate block request since free space in Zone Defense table is exhausted. |
| Explanation | Number of free row in Zone Defense table is 0. Can not block more hosts. |
| Gateway Action | no_block |
| Recommended Action | Unblocking of the host can make a room in Zone Defense table. |
| Revision | 1 |
| Parameters | switch |

2.60.17. zonedefense_disabled (ID: 03800017)

| | |
|---------------------------|---|
| Default Severity | WARNING |
| Log Message | ZoneDefense is disabled on <switch>. The system will try to enable it. |
| Explanation | The switch responded that it has the ZoneDefense feature disabled. System will try once to enable it. |
| Gateway Action | enabling_zonedefense |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | switch |

2.60.18. zonedefense_enabled (ID: 03800018)

| | |
|---------------------------|--|
| Default Severity | NOTICE |
| Log Message | ZoneDefense has been successfully enabled on <switch>. |
| Explanation | The system has successfully enabled ZoneDefense on the switch. No manual action is needed. |
| Gateway Action | getting_acl_number |
| Recommended Action | None. |
| Revision | 1 |
| Parameters | switch |

2.60.19. enabling_zonedefense_failed (ID: 03800019)

| | |
|---------------------------|---|
| Default Severity | CRITICAL |
| Log Message | ZoneDefense has failed to be enabled on <switch>. |
| Explanation | An attempt to automatically enable the ZoneDefense feaure has been made but failed. No further attempts will be made. |
| Gateway Action | None |
| Recommended Action | Enable the ZoneDefense feature on the switch manually. |
| Revision | 1 |
| Parameters | switch |

