

NetDefendOS Version: 11.04.01 Published Date: 2016-10-13

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Revision History and System Requirement:

Firmware Version	Date	Model	Hardware Version
11.04.01	Oct 13, 2016	DFL-1660/2560/2560G DFL-260E/860E DFL-870	DFL-260E A2 A1 (for all models)
10.22.01	Aug 03, 2015	DFL-1660/2560/2560G DFL-260E/860E	DFL-260E A2 A1 (for all models)
10.21.02	Dec 23, 2014	DFL-1660/2560/2560G DFL-260E/860E	DFL-260E A2 A1 (for all models)
2.60.02	Jul 07, 2014	DFL-1660/2560/2560G DFL-260E/860E	DFL-260E A2 A1 (for all models)
2.40.04	Jul 17, 2013	DFL-1660/2560/2560G DFL-260E/860E	DFL-260E A2 A1 (for all models)
2.40.03	Apr 05, 2013	DFL-1660/2560/2560G DFL-260E/860E	DFL-260E A2 A1 (for all models)
2.40.02	Dec 15, 2012	DFL-1660/2560/2560G DFL-260E/860E	DFL-260E A2 A1 (for all models)
2.40.01	Apr 15, 2012	DFL-1660/2560/2560G DFL-260E/860E	A1 (for all models)
2.40.00	Oct 21, 2011	DFL-1660/2560/2560G DFL-260E/860E	A1 (for all models)
2.30.01	June 1 2011	DFL-1660/2560/2560G DFL-260E/860E	A1 (for all models)
2.27.03	Nov 24 2010	DFL-210/800/1600/2500 DFL-260/860/1660/2560/2560G DFL-260E/860E	A1 (for all models), A2 (for DFL-210/800/1600/2500), A3 (for DFL-210/800/1600), A4/A5 (for DFL-210), B1 (for DFL-260/860)
2.27.02	Sep 13 2010	DFL-210/800/1600/2500 DFL-260/860/1660/2560/2560G	A1 (for all models), A2 (for DFL-210/800/1600/2500), A3 (for DFL-210/800/1600), A4/A5 (for DFL-210), B1 (for DFL-260/860)
2.27.01	July 5 2010	DFL-210/800/1600/2500 DFL-260/860/1660/2560/2560G	A1 (for all models), A2 (for DFL-210/800/1600/2500), A3 (for DFL-210/800/1600), A4/A5 (for DFL-210), B1 (for DFL-260/860)
2.27.00	May 14 2010	DFL-210/800/1600/2500 DFL-260/860/1660/2560/2560G	A1 (for all models), A2 (for DFL-210/800/1600/2500), A3 (for DFL-210/800/1600), A4/A5 (for DFL-210), B1 (for DFL-260/860)
2.26.02	Mar 4 2010	DFL-160 DFL-210/800/1600/2500 DFL-260/860/1660/2560/2560G	A1/A2 (for all models), A3/A4/A5 (for DFL-210/800/1600/2500),B1 (for DFL-260/860)
2.26.01	Jan 29 2010	DFL-160 DFL-210/800/1600/2500 DFL-260/860/1660/2560/2560G	A1/A2 (for all models), A3/A4/A5 (for DFL-210/800/1600/2500),B1 (for DFL-260/860)
2.26.00	Sep 15, 2009	DFL-210/800/1600/2500 DFL-260/860/1660/2560/2560G	A1 (for all models), A2/A3/A4/A5 (for DFL-210/800/1600/2500)
2.25.01.28	July 15, 2009	DFL-210/260/800/860/1600/2500	A1 (for all models), A2/A3/A4 (for DFL-210/800/1600/2500)
2.25.01.22	Jun 11, 2009	DFL-210/260/800/860/1600/2500	A1 (for all models), A2/A3/A4 (for DFL-210/800/1600/2500)



2.20.03	Oct 21, 2008	DFL-210/260/800/860/1600/2500	A1 (for all models), A2/A3/A4 (for DFL-210/800/1600/2500)
2.20.02	Jul 10, 2008	DFL-210/260/800/860/1600/2500	A1 (for all models), A2/A3/A4 (for DFL-210/800/1600/2500)

Upgrading Instructions:

Upgrading by using CLI via SCP protocol

SCP (*Secure Copy*) is a widely used communication protocol for file transfer. No specific SCP client is provided with NetDefendOS distributions but there exists a wide selection of SCP clients available for nearly all workstation platforms. SCP is a complement to CLI usage and provides a secure means of file transfer between the administrator's workstation and the NetDefend Firewall. Various files used by NetDefendOS can be both uploaded and downloaded with SCP. This feature is fully described in *Section 2.1.6*, "*Secure Copy"* of NetDefend Firewall v11.04.01 user Manual.

Upgrading by using Web-UI

For detailed installation and upgrade instructions, please refer to the Firmware Upgrades chapter in the *NetDefend Firewall v11.04.01 User Manual.*

Firmware Version	New Features
11.04.01	1. Tunnel Monitoring of IPsec Interfaces
	This feature enables ICMP ping monitoring of a host and when the host stops
	answering, the tunnel's IKE and IPsec SAs are removed and a new negotiation
	will be triggered. ICMP ping messages will be sent every second and if a
	configurable amount of packets has been lost, the tunnel monitoring will trigger
	renegotiation.
	2. SNMPv3 Support
	The system has been extended with SNMPv3 support allowing authentication
	and encryption to the SNMP management interface. The default local user
	database is used as the authentication source for SNMPv3 credentials and the
	supported encryption method is AES.
	3. Protection Against Password Brute Force Attacks
	Password brute force attack protection is now always active for local user
	databases. Log events and a list of temporarily blocked users have been added
	to help the administrator monitoring the activity of the feature.
	4. Transparent Mode Configuration in the Startup Wizard
	Configuring transparent mode can be a fairly complex task. To speed up the
	process, a configuration step to enable transparent mode has been added to the

New Features:

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Startup Wizard. The wizard step allows the administrator to select which interfaces to use in the transparent mode setup and whether DHCP and Layer 2 pass-through should be enabled or not.

5. Automatic Daylight Saving Time

The configuration of Daylight Saving Time (or "Summer-time" as it is called in some countries) has been enhanced by adding an automatic mode where the administrator specifies a location name. The system then applies the local DST rules.

6. IPv6 Router and Prefix Discovery

The system can now as a host locate IPv6 routers and network prefixes on Ethernet, VLAN and Link Aggregation interfaces. This can be used with the system DHCPv6 client or by itself using address auto-configuration.

7. Web Profile

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URL Filter Profile and Web Content Filtering Profile have been combined into one Web Profile for a simpler way of configuring IP Policies. Existing URL Filter Profiles and Web Content Filtering Profiles will be converted into the new type upon upgrade.

8. User Authentication REST API

A REST API for managing authenticated users has been added. The API supports logging in and out users as well as retrieving information about logged in users. Additional information can be found in the NetDefendOS REST API manual.

9. Broadcast Forwarding

The administrator can now configure the system to apply IP Policies to and forward broadcast packets in both Transparent Mode (Layer 2) and static Routing Mode (Layer 3) scenarios.

10. IPv6 Web Content Filtering and Anti-Virus on HTTP data

The HTTP ALG and Light Weight HTTP ALG can now be used with IPv6 IP Policies and Rules. This opens up the possibility to enhance security of HTTP data transfers with features such as Active Content handling, File Integrity checks, Web Content Filtering, Anti-Virus Scanning and URL Filtering.

11. IPv6 support in Loopback interfaces

Loopback interfaces have been enhanced to enable IPv6 communication,

allowing the administrator to apply more advanced IPv6 routing scenarios.

12. WebUI Time Synchronization Improvements

The WebUI Date & Time configuration page has been extended with a button for forcing an immediate time synchronization. The button will appear when time synchronization is enabled by using NTP. In addition, status fields have been added to inform the administrator of recent time synchronization activities and will also state the time of the next synchronization attempt.

13. Custom Banner Support for LW-HTTP ALG

The Light-Weight HTTP ALG now supports the possibility to customize the

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different banner pages that are displayed in place of blocked websites. **14. Improved logs for the HTTP Poster** The HTTP Poster has been extended with more logs giving an indication whether the post succeeded or not. **15. LW-HTTP ALG IPv6 Support** The Light Weight HTTP ALG can now be used on IPv6 traffic. **16. FQDN Support in IP Policies** Create easy-to-use and efficient IP Policies by using the new FQDN address objects as an alternative to policies based on IP addresses. FQDN based IP Policies can drastically reduce continuous administration as changes of IP-addresses are automatically detected and updated using DNS, without any need for manual maintenance tasks. **17. GEO IP Support in IP Policies** GEO IP support in IP Policies adds the possibility to create policies based on the geographical location of an IP address. This can be a powerful feature when trying to combat advanced threats or when mitigating the consequences of a Denial of Service attack that has its origin from countries that are not part of the normal traffic pattern. 18. Mail Alerting The new Mail Alerting feature helps administrators detect abnormal behaviors and take rapid action when needed. Customizable thresholds, filters and interval timing enable the administrators to fine-tune the feature to fit specific needs and requirements in an optimal way. 19. TLS 1.2 Support for the Web User Interface TLS 1.2 is a significantly more secure and robust version of TLS than its predecessors and allows administrators to use the Web interface with added security. 20. Voice over IP Profile New and improved way of configuring Voice over IP using the intuitive Policies section instead of the IP Rules section. 21. SHA-256 Support for SSL/TLS The SSL/TLS ALG has been improved with support for the SHA-256 hashing algorithm to enhance security. 22. Extended IP Policy Support New IP Policies have been added to the system to allow configuration of Server Load Balancing, Multicast and Stateless connections using the newer and intuitive Policies section instead of the older IP Rules section. 23. Color Coded Memory Log Messages Improved and more intuitive presentation of memory log records. Log records are color coded according to the severity group which makes it easy to directly

spot critical and important events without having to read through hundreds of

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log records.

24. Configuration Scripts

Upload script files directly in the web user interface in a convenient and user-friendly way.

25. Support for SHA2 Hardware Acceleration

Hardware acceleration of the SHA-256 and SHA-512 hashing algorithms is now possible on the DFL-2560 and DFL-2560G models.

26. IPsec IKEv2

The IPsec engine has been extended with support for IKEv2. Compared to IKEv1, IKEv2 provides faster tunnel setup negotiation with fewer messages exchanged and increased stability. IPsec tunnels can now be configured in IKEv1, IKEv2 or Auto mode where auto allows a fallback to IKEv1 for non IKEv2 capable peers. In IKEv2 mode, the Extended Authentication Protocol (EAP) authentication method is supported. IKEv2 has been tested for roaming clients using Windows 8.1, Windows 10 and Mac OS X 10.11.

27. Anti-Virus for IMAP

The system now supports Anti-Virus scanning of e-mail attachments transferred over the IMAP protocol. Anti-Virus scanning of IMAP transactions can be enabled on an IP Policy that uses a service with the protocol field set to IMAP.

28. Anti-SPAM for POP3 and IMAP

The system now supports Anti-SPAM for POP3 and IMAP, with fully configurable threshold levels and usage of mechanisms such as Reply Address Domain Verification, DNS Blacklisting and Distributed Checksum Clearinghouses (DCC). Malicious Link Protection detects malicious links in e-mails and protects users from clicking on them by breaking the malicious link. E-mails identified as SPAM can be tagged by the system in both subject and headers to notify the end-users mail clients that the e-mail is identified as SPAM. Configurable whitelists and blacklists allow the administrator to statically decide how to treat e-mails to and from specific IP address and e-mail addresses, such as bypassing SPAM protection for certain IPs or e-mails. Please note that DCC is a subscription based feature.

29. Anti-Virus Support for Scanning of ZIP-in-ZIP Files

The system now supports antivirus scanning of nested ZIP files, i.e. ZIP within ZIP files, transported over HTTP or FTP, configurable to support up to 10 levels of ZIP-in-ZIP.

30. IMAP File Control with MIME Type Verification

The system can now block unwanted E-mail attachments transferred over the IMAP protocol. File Control comes with MIME type verification, which allows blocking of files that claim to be of a specific type according to its file extension

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leads to higher HTTP content inspection throughput capabilities. **40. Updated Pre-Defined Services** To simplify the configuration of advanced features for IP policies e.g. Anti-Virus and email control, the list of pre-defined services has been updated with protocol settings for services that can be used with IP policies. Deprecated services that could only be used by Application Layer Gateways (ALGs) have been removed. These changes apply only to new configurations/installations and do not affect existing systems or configurations. **41. TLS improvement** The TLS library has been enhanced to provide better security. 42. Automatic Exception Reporting Automatic exception reporting has been added. Crash reports are automatically sent to D-Link anonymously and encrypted once the system has booted up after an incident. Crash reports help D-Link to identify critical issues and to provide a correction guicker. The functionality may be disabled via the Diagnostics Settings. **43. RADIUS Relay Improvements** RADIUS Relay now supports manual configuration of the interface where the user traffic is expected for authenticated users via the "Override User Data Interface" setting. This is needed if the interface used for the user data traffic is different from the interface where the RADIUS messages are sent to the system. 44. Improved Support for Virtual Routing The system now supports configuration of the source IP to use when communicating with RADIUS and LDAP for authentication, as well as configuration of the source IP to use when performing route monitoring. This is useful in virtual routing scenarios where the interface IP is not necessarily the correct IP to use as source IP for this communication. 45. SHA-2 Signed Certificates for IKE Authentication The system now supports using SHA-2 signed certificates for IKE authentication, including SHA-256, SHA-384 and SHA-512 hashing algorithms. 46. Configurable Behavior for CRL Failures The system now supports configuration of how the system should behave when a CRL for a certificate cannot be accessed on the CA server. A "conditional" option has been added to allow use of the certificate even if the CRL cannot be accessed. 47. Configurable CRL Distribution Points for Certificates The system now supports configuration of the CRL distribution points (CDPs) to use with a certificate.

48. Configurable Differentiated Services field for IKE packets The system now supports configuration of the value of the Differentiated

		Services (DSCP) field in the IP header of IKE packets sent by the system. 49. MIB File Download via Web UI or SCP
		The system MIB files can now be downloaded directly from the device either via
		the web user interface or via SCP.
		50. Improved SNMP Support
		The system can now keep interface SNMP indexes and interface OIDs persistent
		during reconfigures and restarts.
		51. Traceroute Support in CLI
		A new "traceroute" CLI command has been added that can be used to perform
		traceroute towards domain names, IPv4 and IPv6 addresses.
		52. Improved Ping CLI Command
		The "ping" CLI command has been improved to support ping towards IPv6
		addresses and domain names. 53. L2TP CLI Command
		A CLI command has been added to list active L2TP client sessions.
		54. Improved ifstat CLI Command
		The ifstat CLI command now prints the link status of any configured interfaces
		when executed without any arguments.
		55. Improved 'ike -show' CLI Command
		The 'ike -show' CLI command now prints the local and remote IDs in addition to
		the existing interface, remote and local endpoints. 56. PPTP CLI Command
		A CLI command has been added to list active PPTP client sessions.
		57. Improved Statistics for IKE/IPsec
		The statistical counters available via SNMP for IKE/IPsec have been improved to
		include a wide range of statistical values useful for troubleshooting or
		monitoring.
	10.22.01	1. RADIUS Management Authentication:
		Remote management with the WebUI and CLI now supports using RADIUS as
	10.21.02	the authentication source.
	10.21.02	1. True Application Control:
		The addition of Application Content Control allows for granular policies using
		application attributes to control the contents of data streams for applications.
		This will not only allow for granular policies on an application level, but also on
		an application content level, such as restricting access to certain usage of
		application functions such as web browser version control, blocking of DNS
		queries for certain domains and blocking of mail transfers containing certain
		keywords in the subject field. This will also allow for granular logging of the
		contents of data streams generated by the applications and protocols, providing
		an unprecedented audit view of data that applications in the network transmit.
		2. SSL Inspection for Application Control:
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This new feature provides D-Link NetDefendOS the capability to identify applications that use the HTTPS protocol. Based on the result, the applications can be bandwidth managed, blocked and/or logged.

3. IKE/IPsec HA synchronization:

Full HA synchronization of established IKE negotiated IPsec tunnels are now supported, providing full redundancy for service critical installations where IPsec tunnels are used. Fully established IKE and IPsec SAs are now synchronized to the inactive HA cluster node, making it possible to keep tunnels up and running throughout a node failure, restart or upgrade, eliminating the need to renegotiate the tunnel after HA system fail-over. Fail-over times should be less than a second and the impact on routed packets over the tunnel is minimal. Note, only available on DFL-1660, DFL-2560 and DFL-2560G.

4. IKE/IPsec Virtual Routing support:

Virtual Routing for IKE/IPsec tunnels is now supported, which allows for flexible usage of IKE/IPsec tunnels in more complex networks with overlapping IP ranges, or where multiple routing tables are used. In practice this means that you can now terminate or initiate IKE and IPsec traffic in any routing table and not only in the main routing table. It also allows for a more flexible configuration of an IKE/IPsec tunnel, where it is possible to configure any ARP or core routed IP to listen on for incoming IKE/IPsec traffic, and not only the interface IP address.

5. Link Aggregation support:

IEEE 802.1AX-2008 and 802.3ad Link Aggregation for 1 Gbps Ethernet links with static link aggregation and LACP negotiated link aggregation is now supported.

6. Improved anti-virus scanning:

The anti-virus engine has been improved to support the latest streaming based technologies from Kaspersky, improving protection for malicious scripts, URLs and files transported through the system.

7. 6-in-4 Tunneling:

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The new 6-in-4 Tunneling feature is a transition mechanism that enables customers that lack native IPv6 connectivity to setup a tunnel towards a Tunnel Broker using IPv4 and thereby be able to access IPv6 hosts and offer services on IPv6. This feature greatly simplifies configuring mixed networks and enables customers to continue to use IPv4 only services in a more transparent way.

8. Support for IEEE 802.1ad (QinQ) Service VLAN:

NetDefendOS already provide fine granularity for configuring 802.1q tagging, enabling customers to configure the same 802.1q tag on different Ethernet

Interfaces. With the addition of 802.1ad it is now possible to configure QinQ, using 802.1q VLANs on top of Service VLANs (802.1ad VLANs). This new feature is very useful in service provider scenarios or for larger enterprises.

9. PCAP support in the Web User Interface:

A PCAP tool has been added to *Status->Tools* to allow control over packet capturing from the web user interface. Some of the more common filters and options are available to specify and it is possible to start, stop and download packet captures.

10. Added Diagnostic Console Page in the Web User Interface:

The Diagnostic Console collects system critical logs and is used to help troubleshooting of internal problems within the system. To ease access to the Diagnostic Console, it is now available under *Status->Maintenance->Diagnostic Console* in the web user interface.

11. DHCP Client Enhancements:

The DHCP Client is now supported on VLAN interfaces.

12. PPPoE Client Enhancements:

It is now possible to use the PPPoE client over VLAN as well as Ethernet Interfaces.

13. RADIUS Enhancements:

This release has added support for the Framed-IP-Netmask attribute. This attribute together with the Framed-IP attribute can be combined to generate a route. This enables customers to set up VPN tunnels using RADIUS authentication with L2TPv2/IPsec.

14. Command-Line Interface (CLI) Enhancements:

The Command-Line Interface (CLI) now supports viewing and filtering the Memory Log using CLI commands.

15. User Identity Awareness Enhancement:

The User Identity Awareness Agent has been updated with a protocol that supports a larger number of group memberships for a user.

Note: NetDefendOS 10.21.02 and up is required for use with this new 1.01.00 Agent version.

16. ZoneDefense with Universal MIB:

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ZoneDefense now supports switches that use the Universal MIB.

17. Diagnostics & Quality Improvements:

To improve the quality of the product, anonymous usage information is sent to the manufacturer. The data sent is encrypted and contains information such as firmware version, UTM database versions, uptime and memory usage. The type of diagnostic data sent can be tuned in the configuration and can also be completely disabled.

18. Source IP selection for RADIUS requests:

The RADIUS server configuration has been enhanced with the possibility to manually specify the source IP for RADIUS requests.

19. DHCPv6 Server support:

The system now includes support for DHCPv6 Server, which can be used to configure IPv6 hosts with IP addresses, IP prefixes and/or other configuration required to operate on an IPv6 network.

20. RADIUS Relayer:

The system now supports acting as a RADIUS Relayer, which can provide user information and DHCP IP provisioning for RADIUS-based authenticated users, for example, when a user roams over from a cellular network to an Enterprise WiFi network for data access. This is useful as it allows for granular user and group based policing of traffic, controlling access to network resources.

21. ARP Authentication:

A new authentication agent has been added that makes it possible to authenticate users based on the MAC address in the firewall's ARP cache as username. Supported authentication sources are external RADIUS and LDAP databases.

22. RADIUS server retry:

Configuration options have been added to make the firewall able to retry contacting the primary RADIUS server if failing to contact the backup servers configured.

23. Web Content Filtering update:

Web Content Filtering category 31 has been changed from "Spam" to "Remote control/desktop".

24. Improved certificate information in the CLI:

The CLI has been improved to show more detailed information about the IPsec certificate cache.

25. Alias for routes

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It is now possible to use "route" as an alias to the CLI command "routes".

26. High Availability Status in the Web User Interface

The current High Availability status is now visible in the "System Information" list on the main status page in the web user interface.

2.60.02 1. New Web User Interface: The Web User Interface has been reworked with a more user friendly touch. Administrative tasks can now be performed faster with less work and is more intuitive, even for the less experienced user.

2. Application Control: Support has been added to control what applications

users behind the firewall are using. It is now possible to select what applications should be allowed and the administrator can monitor data transfer and other statistics for the applications accessing the Internet.

3. **IPv6:** Numerous changes have been implemented in order to improve interoperability and protocol compliance.

4. **User Identity Awareness:** The administrator of a firewall now has the possibility to control the access of users authenticated to a Windows Active Directory Domain.

5. **Routing support in SSL VPN Client:** It is now possible to configure routing information for SSL VPN clients. In addition to the default use of all-nets, explicit routing information can be supplied to the client.

6. **Web Content Filtering for HTTPS:** Web Content Filtering support has been added for HTTPS traffic.

7. **L2TPv3 server support:** Support had been added to create L2TPv3 server interfaces. With these, Ethernet and VLAN interfaces can be interconnected through the networks using the L2TPv3 protocol.

8. **URL filter for HTTPS:** URL filter support has been added to the HTTP ALG when using the HTTPS protocol.

9. **Route Fail Over Enhancement:** A Route Fail Over setting has been added - 'Gratuitous Proxy ARP On Fail' that enables the transmission of gratuitous ARP packets on fail over to alert hosts about changed interface Ethernet address of Proxy ARPed hosts.

10. **Search filter enhancement:** The search filter on the memory log pages was using a lot of space at the top of the page. The filter is now by default hidden, only showing the free text search form. The entire filter can be shown by clicking its header.

11. **WebUI speed improvement:** The speed of browsing through the WebUI, in particular pages where there is a large number of objects, has been improved.

12. **Logout message for DHCP server:** A new feature has been added to the DHCP server when used with MAC address authentication to enable automatic logout of users. When an IP address is being reused from the DHCP server and the old user was logged in via MAC authentication, the DHCP server sends a logout message to log out the old user from the system.

13. **High Availability role switch improvement:** The role change between High Availability nodes has been enhanced with a seamless transition to ensure uninterrupted traffic in the network.

14. Added "IPA" as recognized MIME type An .ipa file is an iPhone

		application archive file which stores an iPhone app.
		15. Support for hardware acceleration of IKE negotiations: Hardware
		acceleration of IKE negotiations is now possible on the DFL-2560 and
		DFL-2560G models to offload the CPU and make IPsec tunnel setup faster.
		16. Chain of certificates The use of certificates has been enhanced to support
		configuring a chain of X509 root certificates to use with the HTTPS Web
		Administrator page, SSL VPN Portal, TLS ALG and Use Authentication Rules.
		17. Enhanced ICMPv6 configuration: A setting was added to control the
		maximum number of ICMPv6 Neighbor Discovery Options allowed and hence
		improve network security.
		18. New PPP configuration settings: A new 'Advanced Settings/PPP settings'
		row is created in WebUI. A new 'Initial Resend Time' value is added and the
		existing 'Max PPP Resends' value has been moved to this new dialog page
		19. Ping CLI parameter renaming
		The ping CLI command has been updated with a more logical parameter
		naming. The '-recvif parameter is now renamed to '-srcif'.
		20. HTTP ALG: Added "Force SafeSearch" option: A new option "Force
		SafeSearch" has been added to the HTTP ALG. This option can be enabled so
		search queries to Google, Bing and Yahoo through this HTTP ALG will be
		modified to enforce the SafeSearch functionality these search engines provide.
		21. L2TPv3 server enhancement: The L2TPv3 server has been improved to
		better handle scenarios with a high amount of L2TPv3 clients connected to the
		same L2TPv3 server interface.
		22. L2TPv3 client Support for L2TPv3 client has been added. The client can be
		configured to run over an Ethernet or a VLAN interface. Protocols supported are
		UDP and IP. In addition to this, extended security can be added by routing the
		L2TPv3 client through an IPsec interface.
		23 New 'ipver' argument to the 'connections' CLI command: The
		'connections' CLI command has been enhanced with an additional argument
		'-ipver=' that makes it possible to list only IPv4 or IPv6 connections.
	-	23. SHA256 and SHA512 IPsec algorithms: The IPsec engine now supports
		the SHA256 and SHA512 algorithms to be configured on IPsec tunnels.
2	.40.03	1. Added the DHCP server when used with MAC address authentication to
		enable automatic logout of users. When an IP address is being reused from the
		DHCP server and the old user was logged in via MAC authentication, the DHCP
		server sends a logout message to log out the old user from the system.
		2. Added "IPA" as recognized MIME type.
		3. Support for hardware acceleration of IKE negotiations for DFL-2560/2560G
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	to offload the CPU and make IPsec setup faster.
2.40.02	No new features are introduced in the 2.40.02 release.
2.40.01	1. Support the Cisco IPSec client on iPhone.
	2. Double Web Content Filtering local cache size on all models to accommodate
	more categorized sites.
	3. Support CHAP, MS-CHAP, MS-CHAPv2 and No authentication mechanisms for
	SSL VPN.
	4. Web Content Filtering Configuration Improvement. When filtering override is
	enabled, it is now possible to enter a custom timeout of the override period.
	1. Support for IPv6 in routing, IPRules and Policy Based Routing in Ethernet as
	well as VLAN interfaces.
	2. Remove restrictions on the number of HTTP posters. All other network clients
	listed in "Misc Clients" also benefit from this restriction removal.
	3. Support authenticating users using the Ethernet MAC address over HTTP(S).
2.40.00	4. Update password field: when focus is moved to a text input field which
	contains a password, the field will now be cleared so the user can type in a new
	password directly.
	5. The WebUI page "Reset" now also contains a method for normal shutdown
	(same action as the CLI command "shutdown"). This method will gracefully
	close down tunnels, hand over to other HA unit (in HA scenarios) and so on.
	1. Support SSL VPN feature.
	2. Support TLS renegotiation (RFC 5746) in the TLS ALG.
	3. Increase the number of IDP signatures to up to 30,000. Configuration of up
	to 30,000 IDP signatures is now possible.
	(Affected models:DFL-1660/2560/2560G)
	4. Add clone functionality to Web GUI. It's now possible to create a copy of an
	object in the Web GUI by selecting Clone in the context menu in the data
	grids, the edit page will pop-up with information copied from the original
2.30.01	object.
	5. Enhancement of services drop down menu. The drop down menu for services
	has been enhanced to show port numbers.
	6. Enhanced IDP signature configuration. It's now possible to select IDP
	signature groups from a visual tree interface.
	7. Add lifetime for connection in the log messages.
	8. Warning for incompletely cloned objects. When cloning objects that contain
	properties which cannot be cloned, an alert will be displayed.

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 7. The data grid in the Web User Interface now displays information for simple objects as tooltip (an example is a reference to an IP4Address which would show the address value as a tooltip). [DFL-210/260/800/860/1600/1660/2500/2560/2560G] Added the possibility to disable and enable Ethernet interfaces using WebUser Interface. Separate icon for User Authentication enabled objects. 		6. All rule page layouts have been updated for how to enter the interface and
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show the address value as a tooltip).[DFL-210/260/800/860/1600/1660/2500/2560/2560G]1. Added the possibility to disable and enable Ethernet interfaces using2.26.02WebUser Interface.2. Separate icon for User Authentication enabled objects.		7. The data grid in the Web User Interface now displays information for simple
[DFL-210/260/800/860/1600/1660/2500/2560/2560G]1. Added the possibility to disable and enable Ethernet interfaces using2.26.02WebUser Interface.2. Separate icon for User Authentication enabled objects.		
2.26.021. Added the possibility to disable and enable Ethernet interfaces using WebUser Interface. 2. Separate icon for User Authentication enabled objects.		show the address value as a tooltip).
2.26.02 WebUser Interface. 2. Separate icon for User Authentication enabled objects.		
2. Separate icon for User Authentication enabled objects.		
	2.26.02	
3. Improved file names for backup packages, including the configuration		
		3. Improved file names for backup packages, including the configuration

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	version number.
	4. Connection Rate Statistic Values can be viewed using SNMP.
	[DFL-210/260/800/860/1600/1660/2500/2560/2560G]
	1. The name of the authenticated user is logged together with the requested
	URL in HTTP ALG log messages
2.26.01	
	[DFL-160]
	1. DHCP relaying through the firewall in transparent mode is supported
	2. DH Group and PFS can be configured on IPsec interfaces
	1. The name of the authenticated user is logged together with the requested
2.26.00	URL in HTTP ALG log messages
	2. DFL-210 and DFL-800 support anti-virus and dynamic web content filtering
	No new features in this version.
2.25.01.28	This firmware version is positioned to replace v2.25.01.22 because the
	v2.25.01 will cause device into cycle reboot when IPSec encapsulation was set as "Both".
	1. Added version check for external language files
	2. Improved logging for Anti-SPAM
	3. New log message at failover triggered by linkmon
	4. A new advanced setting has been added to control the number of
	RADIUScommunication contexts that can be used simultaneously
	5. DNS name resolving uses the shared IP in High Availability setups
	6. Added support for Host Monitor for Routing
	7. Added command to handle language files on disk
	8. Improved LDAP functionality
	9. Redesign of the tuple value controller in the webUI
	10. Display of network objects
2.25.01.22	11. Extended route monitoring capabilities
	12. The IPsec status page has been improved
	13. PCAP Recording
	14. New advisory link in virus found log messages
	15. The webUI has been extended to handle child objects in a tab
	16. Support of custom monitor interval in Linkmonitor
	17. ZoneDefense now supports DGS-3200 series switches
	18. Anti-Virus triggered ZoneDefense
	19. LDAP Authentication
	20. Route Load Balancing
	21. Extended SIP Application Layer Gateway supporting new scenarios
	22. TCP transport added to the SIP Application Layer Gateway
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	23. Multiple media connections for SIP Application Layer Gateway
	24. PPTP server support for multiple PPTP clients behind the same NAT gatewa
	25. PPTP server and client have been extended to support stateful MPPE
	26. Improved verification of IP4 values
	27. IDP Triggered Traffic Shaping
	28. AVSE_MaxMemory setting has been removed
	29. Relayer IP address filter at DHCP Server
	30. Support for VLAN priority derived from IP DSCP precedence
	31. Gigabit Traffic Shaping Support
	32. The PPPoE client has been changed to support unnumbered PPPoE
	33. Improved server monitoring for Server Load Balancing
	34. The ping CLI command has been improved
	35. The schedule page has been improved
	36. SSL/TLS Termination
2.20.03	1. No new features were introduced in the 2.20.03 release.
2.20.02	1. MTU can be configured for PPPoE Interfaces
2.20.02	2. MTU can be configured for PPTP/L2TP Client Interfaces.

Changes of Functionality:

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Firmware Version	Modified Features
10.21.02	1. Disable SSLv3 support due to the vulnerability CVE-2014-3566
2.30.01	1. The firmware 2.30.01 and latter would ONLY be applied on the current platform: DFL-260E/860E/1660/2560/2560G
2.26.00	1. DFL-210 and DFL-800, remove IDP Maintenance Service

Changes of MIB & D-View Module:

Support memory usage and TCP buffer usage monitoring.

Problems Fixed:

Firmware Version	Problems Fixed
11.04.01	1. There was no clear error message displayed when the user tried to configure

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PPPoE on an HA cluster. Since this is not supported the user now gets this information when trying to save this invalid configuration. 2. The index column for DataGrids in the Web UI could display max 999 items and has now been changed to allow five digit numbers. 3. The firewall did not verify Identification field uniqueness when stripping the Don't Fragment flag from IPv4 headers. This could cause reassembly problems for other nodes. Any zero-value Identification field is now replaced with a suitable value, when the Don't Fragment flag is stripped. 4. IPsec performance sometimes degraded over time. Affected models: DFL-260E and DFL-860E. Some configurations involving the PPTP ALG could cause the firewall to make an unexpected restart. The application control engine could not completely block Google Drive, when an application rule set was configured to do so. 7. On rare occasions there was an unexpected restart with certain IPsec traffic. 8. Connection timeouts created from service objects with custom timeout values were not properly synchronized between High Availability cluster peers. 9. The packet buffers managing IPsec traffic were not optimized. 10. The HTTP ALG used underscores to replace unsupported keywords in the "Accept-Encoding" header which could make strict web servers fail the request. Now the whole keyword is replaced with spaces to ensure the header is correct. 11. Download of certain files failed when using the HTTP ALG configured to do Anti-Virus scanning. 12. Email Control blacklist and whitelist filters did in some cases not match correctly. 13. The OSPF subsystem in a High Availability setup sometimes caused the system to restart unexpectedly. 14. The firewall sent UDP encapsulation mode in the IPsec proposal even when NAT-Traversal on the IPsec tunnel was set to OFF. 15. When receiving traffic through the IMAP ALG, the system sometimes rebooted unexpectedly. 16. It was possible to use snoop commands when logged in with a user with auditor access. Now they are only available when logged with a user that has as administrator access permissions. 17. "Malformed Request" error page generated by the HTTP ALG would also contain the error page for "Reclassification Request Failed".

18. Some email content was incorrectly blocked when using the POP3 ALG. 19. Inspecting non-standard e-mail sometimes caused the firewall to make an unexpected restart. 20. Protocols using UDP may be vulnerable to being used in a DDoS attack to amplify the effect of the attack. Implementations of IKE, both IKEv1 and IKEv2, have been shown to be vulnerable (see http://www.kb.cert.org/vuls/id/419128 for more info). An implementation following the IKEv2 specification (RFC 7296) isn't subject for the vulnerability and NetDefendOS is following the RFC making it impossible to be used in an amplification attack when using IKEv2 tunnels. NetDefendOS also follows the specification for IKEv1 (RFC 2408) which makes it vulnerable to the attack. Changes have been made to NetDefendOS that will break RFC compliance to mitigate the risk of being used in an amplification attack. NetDefendOS will no longer resend responses to the first IKE message of a Main mode exchange. This is similar to how the IKEv2 implementation works and will not cause issues with retransmissions. Aggressive mode tunnels will still be vulnerable though, since changes to this exchange can't be made to both protect against the attack and still have a functional retransmission process. The recommendation is therefore to not use aggressive mode tunnels in a roaming scenario. I.e. where LocalEndpoint attribute on the tunnel hasn't been set. Using aggressive mode in this configuration would still make the firewall subject for the attack. 21. Some email messages with nested multiparts were corrupted when using POP3 or SMTP content inspection. 22. Tab completion for the Ping CLI command did not work correctly. 23. The system could restart unexpectedly when removing all IPsec connections with the "killsa" CLI command. 24. Under certain rare circumstances it was not possible to download a backup of the working configuration from the firewall. 25. The HA log messages with ID 616, 617 and 618 used the wrong syntax for describing the event. 26. The SMTP ALG sometimes incorrectly marked mail sent with the Outlook Mail client as spam. 27. The system did not terminate the previous PPPoE session when PPPoE settings were changed.

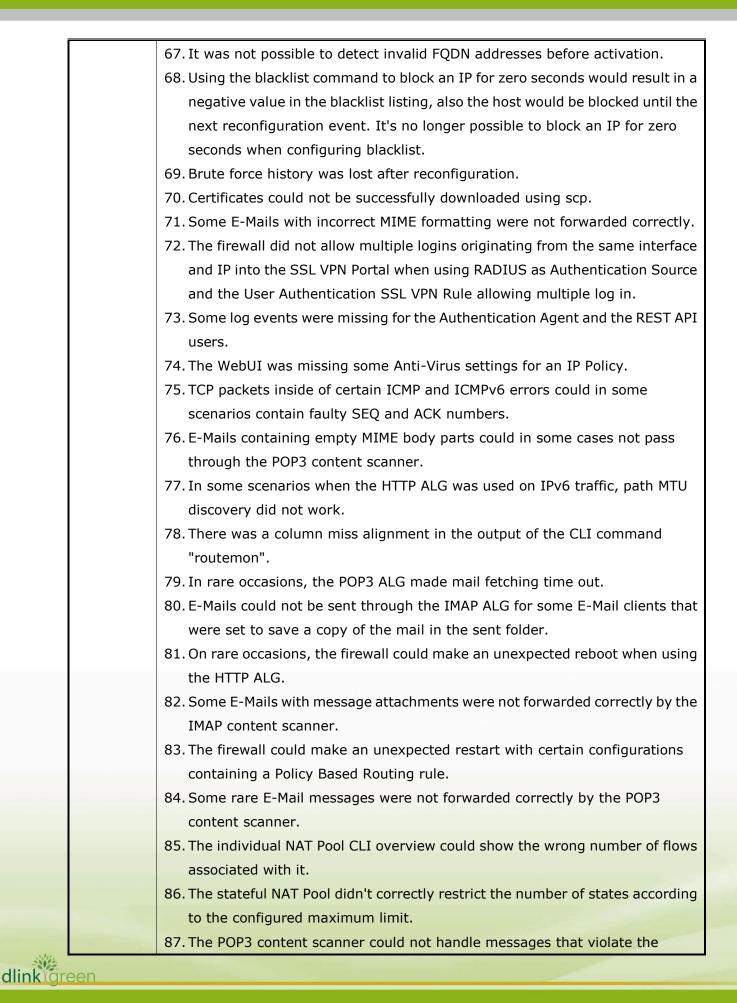
- 28. Disabling the usage of legacy IPRules would also disable Threshold, Pipe, IDP and Routing rules.
- 29. Disabling usage of legacy IPRules would not disable IPRules in IPRuleSets.

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	30. IPsec tunnel setup rate was slow and caused high CPU load in certain large
	setups that contained a large number of IPsec tunnels.
	31. Some packets generated by the firewall could get an erroneous hardware
	address when routed through a switch route.
	32. An Anti-Virus signature update interrupted by a reconfiguration needed a
	manual update to resume the download after the unit finished configuring.
	33. Upgrading from versions prior to 11.00 to 11.00 and later versions, could in
	rare occasions fail with a configuration error.
	34. On rare occasions the firewall could restart unexpectedly when errors
	occurred in the connection with the SSL VPN client.
	35. When using Anti-Virus scanning on IMAP traffic, emails with deeply nested
	and/or encrypted zip attachments were not forwarded correctly.
	36. Some VoIP scenarios did not work as intended when using IP Policies and VoIP Profiles.
	37. Connection failures when updating the Anti-Virus databases implied a restart
	of the whole updating process.
	38. Cloning a read-only object in the WebUI did not copy any values from the original object.
	39. The clone function did not support cloning certain objects and has been
	updated to support a wider range of objects to clone in the WebUI.
	40. The system did not respond to Dead Peer Detection messages in some cases
	when the IKE Security Association was about to expire.
	41. It was not possible to upload a configuration backup using Safari as web browser.
	42. Running the ping CLI command with certain parameters could make the
	firewall perform an unexpected restart.
	43. The "%URL%" variable was not correctly substituted in some built in HTTP banner files.
	44. The checksum for TCP packets in IPsec transport mode were incorrect when
	using SAT rules and caused traffic to be dropped in certain scenarios.
	Affected models: DFL-2560 and DFL-2560G.
	45. POP3 connections could become unresponsive in rare cases.
	46. The NATPool subsystem did not use the full configured IP-range.
	47. DHCP Server didn't use the configured Relayer Filter to filter the received
	DHCPREQUEST messages when a client tried to obtain a previously allocated
	IP address.
	48. In certain scenarios IP addresses could remain in the DNS Cache after the
Ader	Life Time had been passed.
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49. When authenticating users, the group membership list was limited to 255
characters which could lead to missing user privileges.
50. The HTTP ALG did not accept a missing version number in the SSL server
certificate. A missing version number is now interpreted as version 1.
51. Dead Peer Detection for IPsec tunnels using XAuth was in rare occasions not initiated.
52. Using FQDN objects in rule sets other than the Main rule set could lead to
duplicate log events with corrupted information when IP addresses were removed and added to the FQDN object.
53. Under special circumstances the firewall reported the wrong number of
Anti-Virus signatures loaded in memory.
54. The command "ike -show -tunnel= <tunnel_name>" didn't filter the output</tunnel_name>
correctly if an IKE SA had made an IKE rekey during its lifetime.
55. Some non-standard IMAP extensions were not supported.
56. The default allowed server port range for IP policies using FTP was incorrectly
set to 0-65535. The default value is now set to 1024-65535.
57. POP3 message transactions did not complete successfully in some cases.
58. Plain text email attachments were not scanned for viruses when using IMAP.
59. When hovering over an address group in the WebUI, like the system
whitelist, the addresses of the individual address objects were not presented
in a tool-tip.
60. A transport mode IPsec tunnel, configured with a remote endpoint of type IP
range or network, failed to negotiate against peers behind a NAT.
61. The system did not disable route failover ARP monitoring when manual ARP
lookup interval was specified even though ARP monitoring was disabled in the configuration.
62. Configuring host monitoring could under rare conditions cause configuration
errors. Also, in certain rare conditions where HTTP was used for host
monitoring and the HTTP response was fragmented, the system might fail in
matching a correct response.
63. If traffic stopped going through an IPsec tunnel, for whatever reason, the
tunnel monitoring feature and the "ike -delete" CLI command failed to delete
some IPsec SAs that didn't belong to an IKE SA. (IKEv1 only).
64. ESP traffic was sometimes incorrectly routed into the IPsec tunnel.
65. Some methods of downloading E-Mail data using IMAP did not work as
intended.
66. Anti-Virus scanning for the SMTP and HTTP ALGs sometimes caused the
system to lose memory over time.

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requirement that lines beginning with a terminating octet be "byte-stuffed", as specified in RFC 1939. 88. The schedule feature was never applied in NetDefendOS 11.04.00 even though it was configured. 89. When using the Basic authentication option for authenticating users via the web portal, the correct post-login page was not displayed after logging in. 90. The remote management SSH session could get interrupted during reconfigure when the primary authentication source was RADIUS. 91. Certain types of faulty ESP packets could cause undefined behavior on platforms using a hardware accelerator for IPsec encryption/decryption. 92. IMAP scanning could lead to unintended behavior if not all data was available. 93. Some E-Mail headers could not be downloaded using the IMAP ALG. 94. After a reconfiguration, some of the states in a stateful NAT Pool will be stuck and cannot be removed when the connections time out. 95. E-Mails containing empty MIME body parts could in some cases not pass through the POP3 content scanner. 96. It was not possible to configure a SAT policy to single IP policy because of a missing UI element. 97. Update center did not remove a corrupted IDP signature database. 98. Log messages for ESP packets that failed to decrypt could generate logs with the wrong reason for the failure. 99. In rare occasions there could be an unexpected restart for traffic going through the SIP ALG. 100. Certain rare E-Mails were not interpreted correctly by the POP3 content scanner, which could cause detection errors. 101. The POP3 content scanner failed to detect threats in the last body part of a message if an explicit Content-Type header field was missing. 102. The firewall generated invalid DNS queries in some rare cases. 103. The system could in case of high buffer usage, reboot unexpectedly when using features dependent on the pseudo-reassembler e.g. IDP, Anti-Virus, Web Content Filtering. 104. The HTTP Poster did not auto update the IP address properly. 105. The HTTP ALG configured with Anti-Virus scanning failed to properly scan for viruses if the connected web server used content compression. The Anti-Virus engine could either incorrectly indicate that files were infected or that they were clean even though they in fact were infected. 106. The update center subsystem could fail to retrieve a fresh list of CSPN servers if a reconfigure was made within 24h from system boot.

107. In some scenarios involving 6in4 tunnels PacketTooBig was not sent when
the system received packets with a size over the configured MTU.
108. There was no clear error message displayed when the user tried to
configure PPPoE on an HA cluster. Since this is not supported the user now
gets this information when trying to save this invalid configuration.
109. There was no clear error message displayed when the user tried to
configure PPPoE on an HA cluster. Since this is not supported the user now
gets this information when trying to save this invalid configuration.
110. The firewall did not verify Identification field uniqueness when stripping the
Don't Fragment flag from IPv4 headers. This could cause reassembly
problems for other nodes. Any zero-value Identification field is now replaced
with a suitable value, when the Don't Fragment flag is stripped.
111. IPsec performance sometimes degraded over time. Affected models:
DFL-260E and DFL-860E.
112. Some configurations involving the PPTP ALG could cause the firewall to
make an unexpected restart.
113. The application control engine could not completely block Google Drive,
when an application rule set was configured to do so.
114. On rare occasions there was an unexpected restart with certain IPsec traffic.
115. Connection timeouts created from service objects with custom timeout
values were not properly synchronized between High Availability cluster
peers.
116. The packet buffers managing IPsec traffic were not optimized.
117. The "dhcprelay" CLI command listed an infinite number of entries. The
command has been updated to list 20 entries by default with the option -num
to show more if needed.
118. The HTTP ALG used underscores to replace unsupported keywords in the
"Accept-Encoding" header which could make strict web servers fail the
request. Now the whole keyword is replaced with spaces to ensure the header
is correct.
119. Download of certain files failed when using the HTTP ALG configured to do
Anti-Virus scanning.
120. Email Control blacklist and whitelist filters did in some cases not match
correctly.
121. Under certain conditions the IMAP ALG could cause an unexpected restart
of the firewall.
122. The OSPF subsystem in a High Availability setup sometimes caused the

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	system to restart unexpectedly.
	123. The firewall sent UDP encapsulation mode in the IPsec proposal even when
	NAT-Traversal on the IPsec tunnel was set to OFF.
	124. When receiving traffic through the IMAP ALG, the system sometimes
	rebooted unexpectedly.
	125. It was possible to use snoop commands when logged in with a user with
	auditor access. Now they are only available when logged with a user that has
	as administrator access permissions.
	126. Import/export and validation of certificates has been improved to work in a
	more consistent way. Certificates and private keys are now exported as a
	PEM encoded file with the crt/key-file extension. Certificates can be imported
	if they are PEM or DER encoded.
	127. "Malformed Request" error page generated by the HTTP ALG would also
	contain the error page for "Reclassification Request Failed".
	128. Some email content was incorrectly blocked when using the POP3 ALG.
	129. The setup wizard had an invalid redirection URL under time settings to set
	date time page. It is removed and now it is possible to set date and time
	within the same setup wizard page.
	130. Inspecting non-standard e-mail sometimes caused the firewall to make an
	unexpected restart.
	131. Protocols using UDP may be vulnerable to being used in a DDoS attack to
	amplify the effect of the attack. Implementations of IKE, both IKEv1 and
	IKEv2, have been shown to be vulnerable (see
	http://www.kb.cert.org/vuls/id/419128 for more info). An implementation
	following the IKEv2 specification (RFC 7296) isn't subject for the vulnerability
	and NetDefendOS is following the RFC making it impossible to be used in an
	amplification attack when using IKEv2 tunnels. NetDefendOS also follows the
	specification for IKEv1 (RFC 2408) which makes it vulnerable to the attack.
	Changes have been made to NetDefendOS that will break RFC compliance to
	mitigate the risk of being used in an amplification attack. NetDefendOS will
	no longer resend responses to the first IKE message of a Main mode
	exchange. This is similar to how the IKEv2 implementation works and will not
	cause issues with retransmissions. Aggressive mode tunnels will still be
	vulnerable though, since changes to this exchange can't be made to both
	protect against the attack and still have a functional retransmission process.
	The recommendation is therefore to not use aggressive mode tunnels in a
	roaming scenario. I.e. where LocalEndpoint attribute on the tunnel hasn't
	been set. Using aggressive mode in this configuration would still make the
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	firewall subject for the attack.
	132. Some email messages with nested multiparts were corrupted when using
	POP3 or SMTP content inspection.
	133. Tab completion for the Ping CLI command did not work correctly.
	134. In some scenarios with an external route configured through a PPPoE
	tunnel Anti-Virus databases would never get automatically updated after the
	tunnel acquired its IP.
	135. The system could restart unexpectedly when removing all IPsec
	connections with the "killsa" CLI command.
	136. Under certain rare circumstances it was not possible to download a backup
	of the working configuration from the firewall.
	137. The HA log messages with ID 616, 617 and 618 used the wrong syntax for
	describing the event.
	138. The SMTP ALG sometimes incorrectly marked mail sent with the Outlook
	Mail client as spam.
	139. The system did not terminate the previous PPPoE session when PPPoE
	settings were changed.
	140. Disabling the usage of legacy IPRules would also disable Threshold, Pipe,
	IDP and Routing rules.
	141. Disabling usage of legacy IPRules would not disable IPRules in IPRuleSets.
	142. IPsec tunnel setup rate was slow and caused high CPU load in certain large
	setups that contained a large number of IPsec tunnels.
	143. Some packets generated by the firewall could get an erroneous hardware
	address when routed through a switch route.
	144. An Anti-Virus signature update interrupted by a reconfiguration needed a
	manual update to resume the download after the unit finished configuring.
	145. Upgrading from versions prior to 11.00 to 11.00 and later versions, could in
	rare occasions fail with a configuration error.
	146. On rare occasions the firewall could restart unexpectedly when errors
	occurred in the connection with the SSL VPN client.
	147. When using Anti-Virus scanning on IMAP traffic, emails with deeply nested
	and/or encrypted zip attachments were not forwarded correctly.
	148. Some VoIP scenarios did not work as intended when using IP Policies and
	VoIP Profiles.
	149. Connection failures when updating the Anti-Virus databases implied a
	restart of the whole updating process.
	150. Cloning a read-only object in the WebUI did not copy any values from the
Seles-	original object.
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 151. The clone function did not support cloning certain objects and has been
updated to support a wider range of objects to clone in the WebUI.
152. The system did not respond to Dead Peer Detection messages in some
cases when the IKE Security Association was about to expire.
153. It was not possible to upload a configuration backup using Safari as web browser.
154. Running the ping CLI command with certain parameters could make the firewall perform an unexpected restart.
155. The "%URL%" variable was not correctly substituted in some built in HTTP banner files.
156. The checksum for TCP packets in IPsec transport mode were incorrect when
using SAT rules and caused traffic to be dropped in certain scenarios.
Affected models: DFL-2560 and DFL-2560G.
157. POP3 connections could become unresponsive in rare cases.
158. The NATPool subsystem did not use the full configured IP-range.
159. DHCP Server didn't use the configured Relayer Filter to filter the received
DHCPREQUEST messages when a client tried to obtain a previously allocated
IP address.
160. In certain scenarios IP addresses could remain in the DNS Cache after the
Life Time had been passed.
161. When authenticating users, the group membership list was limited to 255
characters which could lead to missing user privileges.
162. The HTTP ALG did not accept a missing version number in the SSL server
certificate. A missing version number is now interpreted as version 1.
163. Dead Peer Detection for IPsec tunnels using XAuth was in rare occasions
not initiated.
164. Using FQDN objects in rule sets other than the Main rule set could lead to
duplicate log events with corrupted information when IP addresses were
removed and added to the FQDN object.
165. The HTTP ALG didn't handle certain non-success HTTP codes correctly
which would prevent traffic to pass through.
166. Under special circumstances the firewall reported the wrong number of
Anti-Virus signatures loaded in memory.
167. The SYN Relay feature did not correctly restore TCP headers inside of
ICMPv6 Error Packet Too Big messages when the packet was forwarded.
168. The command "ike -show -tunnel= <tunnel_name>" didn't filter the output</tunnel_name>
correctly if an IKE SA had made an IKE rekey during its lifetime.
169. Some non-standard IMAP extensions were not supported.

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ſ		170. The default allowed server port range for IP policies using FTP was
		incorrectly set to 0-65535. The default value is now set to 1024-65535.
		171. POP3 message transactions did not complete successfully in some cases.
ĺ	10.22.01	1. The options "ValidateLogBad", "ValidateReopen", "ValidReopenLog",
		"ReopenValidate" and "ReopenValidLog" for the setting TCPSequenceNumbers
		did not work and the system behaved as if configured with "ValidateLogBad".
		2. The system would sometimes log that a packet had invalid TCP sequence
		number and would be dropped, despite the fact that packets were allowed to
		reopen the connection and should be forwarded.
		3. In rare occasions when using the PPTP ALG an incorrect ALG associated
		connection could be closed, resulting in unexpected behavior.
		4. OSPF "point-to-multipoint" interfaces didn't allow for more than one neighbor
		to be configured.
ļ		5. OSPF "point-to-multipoint" interfaces discovered neighbors using multicast
I		instead of unicast.
ļ		6. OSPF "point-to-multipoint" interfaces created an invalid "dummy" route for
		the interface IP.
ļ		7. An Ethernet interface with a manually assigned MAC address would revert to
		its original MAC address after issuing the console command "ifstat -restart".
		8. The firewall might show unexpected behavior when restarting after changes in
		configuration if an SSL VPN interface using a specific Routing Table was already
		configured.
		9. The NetDefendOS web authentication feature could fail in some rare situations
		when the system was under heavy stress.
		10. The firewall's SNMP statistics could report active IPsec tunnels as "down"
ļ		under certain circumstances.
		11. It was not possible to use Interface Groups as the OuterInterface when
		configuring an SSL VPN interface.
		12. The H.323 ALG sometimes caused unexpected reboots.
		13. It was not possible to use the CLI command "ippool -renew" to renew leases.
		14. An error message is now displayed when trying to save a certificate with the
		same name as an existing object.
		15. The E-flag in OSPF could in certain scenarios be set incorrectly which resulted
		in connectivity problems.
		16. A large number of applications that were previously unsupported have been
		added to Application Control feature.
		17. Dead Peer Detection for IPsec interfaces didn't work against some remote
		clients.
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18. The firewall could in rare occasions reboot unexpectedly if Anti-Virus scanning was configured. 19. The message shown when trying to log in with a user with insufficient privileges was not descriptive enough. 20. The Advanced TCP Setting for CC (Connection Count) option was incorrectly named "TCP Option Connection Timeout" in the WebUI. 21. The firewall could generate TCP packets with incorrect checksum on connections using address translation and some content inspection feature, such as, Application Control or Anti-Virus. In rare cases this could lead to stalled TCP connections. 22. The configuration warning message "Shared IP address cannot be equal to iface IP address" was missing the name of the offending interface. 23. Non pertinent information was displayed in the console command "appcontrol -show_lists". 24. Using some layer 7 features, such as, Application Control or Anti Virus, would prevent ICMP errors from being forwarded even when the service was configured to allow ICMP errors. 25. When using the "IPsecBeforeRules" or "L2TPBeforeRules" settings, i.e. bypassing rules, this registered as a default-rule in syslogs for IPsec and L2TP. Now it the correct specific rule is logged, for both categories respectively. 26. Comments were not visible on folders in the WebUI address book. 27. DHCP Relay did not forward DHCPACK messages if they were received on port 68. 28. Some scenarios with static route insertion/removal through OSPF did not work in a High Availability setup. 29. Values for advanced IPsec settings "DPDExpireTime" and "DPDKeepTime" were missing from the WebUI and could only be changed using the CLI. 30. Some HTTP operations could under certain situations result in second long lockups. 31. NAT-T Vendor ID was sent even when NAT-T setting on IPsec tunnel was set to OFF. 32. The firewall could in rare occasions reboot unexpectedly when checking IPsec connections during a reconfiguration. 33. DHCP Server configured with "Relayer Filter" erroneously dropped the unicast DHCP request/renewal messages from DHCP clients. 34. The firewall failed to match an HTTP Monitoring response when it was used in SLB and the "expected response" value given by the user contained special

characters like spaces, tabs, line feeds, carriage returns. 35. TCP segments with RST flag did not have 0x00000000 as acknowledge number. 36. Interoperability issues regarding NAT-T sometimes caused IPsec traffic to be incorrectly dropped. 37. After receiving large LSA, the OSPF module reported memory error despite having enough available memory to use. 38. Some log messages did not correctly display the access_level for some users. 39. Unsupported ISAKMP and IPsec Security Association Attributes received during IPsec tunnel setup resulted in a failed setup even if configured attributes also were sent. 40. Some rare URLs were incorrectly forbidden by the Web Content Filtering (WCF) functionality. 41. The H323 ALG could in rare occasions cause a system reboot. 42. ICMPv6 error message "Packet too big" was not passed through NetDefendOS causing traffic to be blocked in certain scenarios. 43. In rare occasions, the firewall's 'sysmsgs' console command could report "FAT chain inconsistence" for its internal media, for instance when using Anti-Virus. 44. Modern browsers were not correctly identified in the Web User Interface causing a message to be displayed that an unsupported browser version was being used. 45. The wrong IPsec Authentication Algorithm (SHA) was sometimes added to an IPsec tunnel configuration if it was set in the same tunnel's IKE Algorithms, i.e if for instance SHA1 was configured in the IKE Algorithm it would also be automatically added to the IPsec Algorithm. 46. In certain scenarios, the number of "Active flows" reported by the 'ipsecglobalstats' CLI command always reached the maximum value even for connections with short lifetime. 47. There were no warnings about changed IPRules or IPPolicies due to configuration changes. 48. ZoneDefense did not log the unblocking events. 49. The firewall sent IPsec "initial contact" notification when rekeying an IPsec SA without an existing IKE SA. This could case the responder to first delete the IPsec SA before the rekey request was processed and lead to interruptions in traffic going through the tunnel since whole new IKE and IPsec SA could be established as a result instead of a rekey.

50. The span for the Update Center's Hourly setting was not correct and has been

changed from 11 to 12 hours. 51. When using the "Hourly" interval for Update Center the updates ran every hour despite the setting's value. 52. The blacklist -show command displayed all blacklisted and whitelisted hosts. It has been updated to display a default of 20 blacklisted and whitelisted hosts, or the specified number of hosts using the -num argument. 53. The NAT-pool IP range setting used to accept very wide ranges (> 65535) of IPv4 addresses if such an address started at 0.0.0.0. 54. Spaces in passwords were incorrectly interpreted as '+'-signs when using Web Authentication. 55. An incorrect date was displayed in the Update Center section of the management WebUI when an Anti-Virus or IDP database was deleted manually. 56. The pcapdump -show command displayed all the captured packets. Now the pcapdump -show command displays a default of 20 packets, or the specified number of packets using the -num argument. 57. Using certain addresses as IPv6AddressPool in the DHCPv6 Server caused the system to not give out any IP addresses. 58. IPsec tunnel setup could fail with certain configurations despite matching IPsec proposals. 59. The system sometimes experienced high memory consumption and sometimes rebooted due to low available memory when using IDP. 60. The Anti-Virus log message ID 115 and Application Control log message ID 4 had swapped the event and the action. The log revisions have been updated for both messages. 61. There was no log or notification shown when IDP scanning was disabled because of the license expiration. 62. Received ICMPv6/Neighbor Advertisements containing multiple options were incorrectly interpreted by the firewall. 63. L2TP/IPsec traffic to multiple clients behind the same NAT device could in rare scenarios be mixed up. 64. Full system backup files did not include files related to SSL VPN and Application Control. 65. Connecting a second L2TP Client located behind a NAT gateway could in rare occasions disconnect the first client. 66. In rare occasions, the SMTP and POP3 ALG configured with Anti-Virus did not detect malicious email attachments. 67. In rare High Availability scenarios a restart of the nodes would be necessary in order to finish configuration synchronization.

		68. Configured IDP pipes were not always displayed in the CLI.
		69. Blacklist logs sometimes showed incorrect protocol or port.
		70. Memory usage for SIP was displayed incorrectly.
		71. A DHCP server lease was not removed from the inactive HA node when the
		CLI command "dhcpserver -releaseip" was issued on the active node.
		72. The system could unexpectedly restart if a service's ALG type changed from
		e.g. FTP to HTTP while having active connections.
	10.21.02	1. Source Address Translation 'Auto' would not result in correct behavior when
		configuring IPPolicies.
		2. Fragmented traffic sent through an IPsec tunnel was sometimes dropped.
		3. No error was generated when configuring HTTPS management without
		selecting an HTTPS certificate.
		4. The Router Advertisement related settings had inconsistent naming. The
		names have been updated and a configuration converter has been added so that
		existing behavior is kept after upgrade.
		5. IPsec interfaces could not be used by OSPF to communicate with a neighbor.
		6. Connections using the secondary route in a route monitor setup where the
		primary route had failed were incorrectly closed during reconfiguration.
		7. A firewall with User Identity Awareness configured could in rare scenarios
		reboot unexpectedly.
		8. Memory consumption could in rare circumstances increase when an
		authenticated user timed out from a RADIUS server.
		9. Configuring OSPF to run on top of VLAN interfaces did not set the VLAN's
		Ethernet base interface's receive mode parameter to accept OSPF multicast
		packets, causing OSPF communication fail in some scenarios.
		10. The Web User Interface selection box was not wide enough, which made long
		object names not being displayed in full.
		11. Error messages output by the "time -sync" command were in some failure
		cases not informative enough to describe the problem.
		12. On rare occasions, the firewall could perform an unexpected restart after
		reconfiguring a PPTP server that used LDAP authentication.
		13. Configuring an IPv6 core route would always cause a configuration warning.
		14. Traffic passing through an IPsec tunnel was sometimes incorrectly dropped if
		there was fragmentation of the packets.
		15. Valid UTF-8 characters were in some logs not shown properly.
		16. UDP packets sent from the firewall when using the ping CLI command always
		had the same Fragmentation ID or Identification field set.
S. 194		17. The output from the "time -sync" command was shown in all active CLI
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	sessions. It will now only appear in the session where the command was
	executed.
	18. The description of the Facility parameter in the Syslog Receiver configuration
	object was incorrect.
	19. The device could restart unexpectedly when Application Control was disabled
	on an IPRule matching active IPv6 traffic
	20. Certain rare certificates could not be added to the configuration.
	21. Web Content Filtering did not work for HTTPS when the traffic was directed to
	a proxy.
	22. Descriptions were missing for some advanced settings alternatives.
	23. The DHCP Server Custom Option parameter value was possible to leave
	empty, but gave an error message during Save & Activate. An error message is
	now shown if the value is left empty when clicking Ok on the Custom Option
	page.
	24. Application Control frequently failed to recognize Skype. Changes have been
	made to improve the classification of Skype.
	25. Application Control sometimes identified the application as just TCP or just
	UDP.
	26. Using an IP4Address object with a DNS name as Remote Endpoint for an
	IPsec tunnel could lead to IPsec traffic problems.
	27. In rare occasions, some applications, such as Skype or RDP, could not be
	allowed by Application Control.
	28. The background colors of the row on the connection page in the Web UI were
	not alternating after a filter had been applied.
	29. Traffic using routing rules with routing tables where the "Ordering" setting
	was set to "Default" was sometimes routed incorrectly.
	30. Accessing certain HTTPS sites sometimes failed if the HTTP ALG was
	configured to do Web Content Filtering.
	31. The classified value in the Application Control statistics table suffered from
	duplicate and premature updates. This has been fixed, so, it is normal to expect
	a lower rate of updates after a firmware upgrade.
	32. Safe Search configured together with Web Content Filtering sometimes
	caused system reboot.
	33. Removing a large number of IPsec tunnels from the configuration could
	cause the system to restart.
	34. Application Control Rules would, with certain selected applications, take
	longer time than necessary to parse during reconfiguration.
50.02	1. No validation was done on hexadecimal pre-shared keys before pressing 'OK'
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Stille		18. Anycast IPv6 source addresses were treated as invalid by the firewall. In
		correctly.
		17. The Application Control feature did not recognize the Sohu Video application
		the session.
		and a cancel message to the UAS in order to notify them before terminating
		and the UAS. This is now fixed by sending a timeout message to the UAC
		16. In case of timeout, a SIP session was terminated without notifying the UAC
		automatically by the system using the CLI.
		15. It was not possible to change the index of an interface route that was created
		Originator IP Type or Originator IP.
		14. In the WebUI's L2TP/PPTP client page there was no way of configuring the
		configuration deployment.
		13. Connections scanned by IDP were sometimes broken at HA cluster
		piped into the session.
		12. SSH CLI sessions could not handle large amount of data being pasted or
		Endpoint was a DNS name.
		11. Keep-alive set to "Auto" did not work on IPsec tunnels where the Remote
		reconfigure had been issued.
		10. Route monitoring using link status did not recover a disabled route after a
		did not produce a configuration warning.
		9. Enabling IPv6 on a VLAN interface with IPv6 disabled in the global settings
		based on the application control slider.
		even when application control was turned off. It is now enabled/disabled
		 The "Add" button on the application control tab on an IP Policy was enabled
		could in some configuration scenarios be dropped.
		 The VLAN interface statistics was reset on each reconfiguration. DHCP relay packets received on interfaces without configured DHCP relay
		 The VLAN interface statistics was reset on each reconfiguration.
		 Long pipe names would disrupt the format of the CLI command "pipes -show".
		TCP_OPEN.
		4. The statistics value for connections in TCP_FIN state incorrectly also included
		servers are now listed with an index value of 1 to 3.
		3. The CLI command "dns" showed servers with an index value of 0 to 2. The
		now required when adding the rule.
		name, but when saving the configuration an error was shown. The name is
		2. It was possible to create user authentication rules without giving them a
		hexadecimal strings.
		on the configuration page. They are now validated to only accept

accordance to RFC 4291 a new advanced setting has been added called "IPv6 Anycast Source" where this behavior can be changed when needed. 19. The CLI commands "arpsnoop" and "ndsnoop" did not output status feedback when invoked. Now there is CLI output indicating what interfaces arpsnoop and ndsnoop are active on. 20. The "dhcpserver" CLI command did not obey the -num or -fromentry options in combination with the -mappings flag. 21. The firewall would in some cases fail to update its ND cache after receiving a valid Neighbor Solicitation. 22. IPv6 network address validation in the WebUI did not allow the usage of network size of 100 and larger. 23. It was not possible to use a DNS object from the address book on the L2TP/PPTP client's remote endpoint. 24. Some of the filter options in the Status->Run-time information->Connections page were not applied when selected. 25. The CLI command "sipalg -connection" did not show information under the appropriate columns. 26. No IPv6 interface routes were added in the routing table specified by the interface's routing table membership parameter if the selected routing table was different from the 'main' routing table. 27. Users authenticated by an Identity Awareness Agent were not synchronized to the inactive node in an HA cluster. 28. In certain SIP configuration scenarios the SIP ALG could cause an unexpected reboot of the firewall. 29. Users could be logged out if a large number of PPTP clients were trying to connect simultaneously. 30. The SIP vendor Aastra was not supported by the SIP ALG. 31. The SIP ALG's CLI command "sip -registration flush" did not work. 32. Unreachable RADIUS Accounting servers could in rare cases cause undefined behavior. 33. No log was generated when an L2TP session was closed. 34. The SIP ALG's CLI command "sip -statistics flush" did not work. 35. Valid Neighbor Discovery packets would always cause the interface drop statistics to increase. 36. After an HA failover the inactive node was getting stuck with old route states. This had the side effect that routes could be reported as down in the inactive node even if they were actually up. The issue is fixed by resetting the routes' states whenever a node becomes inactive, and for instance Route

monitoring in High Availability will now work as it should. 37. The index value for SNMP stat values for HTTP ALG was reset at reconfiguration so when polling those, only one HTTP ALG was listed. 38. A help text in the HTTP ALG incorrectly mentioned that URL Filter was not supported for the HTTPS protocol. 39. Polling the SNMP property if Alias would, for certain interface types, not return the comment configured for the interface. 40. Configuration backup restore failed if the backup file contained an additional line break at the end of the configuration file. 41. When using DHCP client on an interface the broadcast address was not set. With the broadcast information missing, incoming traffic could not make ARP resolutions correctly. 42. In rare circumstances during HA hand-over, the inactive HA node could erroneously send neighbor solicitations for its own shared IP. 43. There was no error or warning generated when trying to configure switchroutes in an HA cluster. 44. If an authenticated user had a lot of privileges the CLI command "userauth" was printing unaligned output. Furthermore, the CLI command "userauth -user <user>" has been extended to show all the privileges the <user> has. 45. There were no logs about destination port, destination IP or name of SSL VPN interface for incoming SSL VPN connections. 46. It is now possible to use "route" as an alias to the CLI command "routes". 47. The Request URL property of an HTTP host to monitor required the "http://" prefix before the actual URL. This is now fixed by appending it automatically if not given. 48. The firewall failed to match an HTTP Monitoring response with the "expected response" value given by the user in case special characters existed (spaces, tabs, line feeds, carriage returns). 49. If DNS resolution of an HTTP monitored host failed, the respective route was always declared "up" and no other connection attempts were made. The fix allows proper action on the route and re-attempts for DNS resolution. 50. On systems with multiple active IPsec tunnels, configured to add dynamic routes, the memory usage increased for every reconfiguration. 51. Memory management in configurations with IPsec where Xauth and RADIUS was used was not always correctly done. 52. Using RADIUS for authentication and/or accounting under certain rare conditions, could sometimes lead to use of previously released memory and system instability.

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	53. On systems with OSPF configured, an unexpected restart could in rare
	occasions happen after a large number of reconfigurations.
	54. The system could in rare occasions restart unexpectedly when doing
	configuration changes related to IPsec tunnel(s) that uses XAuth for authentication.
	55. Extensive memory usage occurred after a very large number of users having
	been logged in to system.
	56. The system showed configuration warnings about overlapping services when
	a service group is configured as the member of another service group, even
	if the actual services don't overlap with each other.
	57. It was possible to add an Authentication Agent object without specifying a name for it.
	58. The "DirectedBroadcasts" drop log message was missing information about
	the source IP of the host sending the broadcast and the destination IP/network/broadcast it was attempting to use.
	59. There was no check whether IPv6 was globally enabled when trying to send
	IPv6 ping messages, so the user could send pings without knowing this would not work.
	60. The PPTP subsystem could in rare circumstances cause unexpected system reboots.
	61. The CLI command "ifstat" omitted a line break at the end of the output for certain types of interfaces.
	62. The firewall could run out of packet buffers when trying to send too many packets on an R8169 interface with no link. The R8169 driver will now drop packets if no link is detected. Affects DFL-260E/860E.
	63. There was no warning issued if the user added an IPv6 route and IPv6 had
	not been enabled in the configuration.
	64. ncorrect or outdated RADIUS Accounting responses could cause an increase in memory consumption.
	65. The "pcapdump" functionality couldn't capture the outgoing packets flowing through a VLAN when the capturing target was its base interface.
	66. On rare occasions, the firewall restarted unexpectedly when performing a
	reconfiguration following a previous IDP database update.
	67. The last part of an ICMP packet sent through an IPsec tunnel was sometimes dropped.
	68. IPv6 groups would in certain rare cases create wrong IPv6 address ranges.
	69. The help section for SwitchManagement in the CLI was missing proper
	descriptions for some properties.
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	70. The configuration warning shown when a service group contains overlapping
	services was confusing and has been refined to more clearly show the
	problem and how it can be resolved.
	71. Users being logged out after a timeout could in some rare cases appear to log out multiple times.
	72. The pie chart describing category classification for the Web Content Filtering
	service calculated the percentage incorrectly when the number of hits was very large.
	73. The Application Control subsystem allocated memory resources which
	remained allocated for a long time and could cause the system to run out of
	memory. A cleanup mechanism has been added that will optimize the
	Application Control memory usage when the system runs low on RAM.
	74. It was not possible to configure two or more SSL VPN interfaces with the same server IP and port.
	75. The firewall might experience unexpected behavior when reporting IDP
	events using SMTP LogReceiver under certain specific circumstances.
	76. L2TP client behind NAT using L2TP/IPsec transport mode tunnel did not
	always succeed in reestablishing the L2TP tunnel.
	77. Using RADIUS accounting could under certain rare conditions lead to system instability.
	78. In rare occasions when an IPsec configuration was updated, the firewall
	could restart or stop responding unexpectedly.
	79. The MTU for VLAN interfaces was calculated incorrectly, causing unnecessary ICMPv6 PacketTooBig error messages.
	80. The invalid_ip_checksum log message did not correctly list the actual and expected checksums as intended.
	81. CRL lookup over LDAP did not work if the URL for the CRL distribution point
	did not contain the port.
	82. The ping command could in some rare cases report an incorrect round-trip time.
	83. When using a routing table with the "Ordering" setting configured to
	"Default", the named table was sometimes incorrectly consulted first,
	instead of the default routing table, during route lookup.
	84. Using SCP to download a file from the firewall whose filename included a
	hyphen (e.g my-cap.cap) would fail with a "Permission denied" error
	message.
	85. The CLI prompt was not shown after the "pipes -show" CLI command.
	86. In some situations the system would send an extra TCP ACK packet when it
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did not need to.

- 87. The pcapdump command did not print a warning message in the CLI when the buffer was full.
- 88. The descriptions of custom timeout settings in the WebUI were not consistent and have been changed from "timeout" to "idle lifetime".
- 89. When using a service group which contained overlapping services, there was no warning message that this may cause undefined behavior.
- 90. When "arp -notify" was used in an HA setup, the firewall incorrectly used its private MAC address instead of the shared MAC address.
- 91. The setting for SLB HTTP monitoring erroneously required a value and can now be left blank in the configuration without an error being generated.
- 92. Changes made to the HTTP normalization parameters on an IDP rule were ignored unless other settings were changed on the same IDP rule.
- 93. A static DHCP lease was not treated as static anymore if the IP had been blacklisted and then being released from the blacklist. The static leases are now always kept static and related temporarily assigned leases during blacklist are cleared from the lease pool.
- 94. The WebUI status page for IDP Log always printed "No IDP or Threshold rules are currently logging." even though such rules were configured.
- 95. When the UTM service expired on one of the members in an HA cluster there was an infinite loop of sending databases from the active node to the inactive node.
- 96. The Log and Event receivers did not support using another routing table than "main".
- 97. Hardware statistics for Realtek interfaces of type "8169SC" and "8110SC" was incorrectly represented in the CLI and could not be reset.
- 98. The HostMonitor subsystem could cause an unexpected restart during reconfiguration when used together with Server Load Balancing.
- 99. One of the nodes in a High Availability cluster was entering a reconfiguration loop if the antivirus subscription had expired for at least one of the nodes, and there was an IDP database to be synchronized.
- 100. When using a NAT Pool with a large amount of addresses, the performance was affected in a negative way.
- 101. It was not possible to send IPv6 packets through an L2TPv3 Server interface.
- 102. The update center ping requests to update servers were incorrectly sent when no ALG was in use.
- 103. The CLI tab completion when adding a Custom Option for a DHCP Server

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was confusing and has been improved.
104. The firewall's WebUI page showing authenticated users had the label
"Logged in as" instead of the name or groups of the user(s).
105. The advanced IP setting to block multicast source addresses was covering a
range that included too many addresses. The range has been decreased to
the correct 224.0.0.0-239.255.255.255 span.
106. LDAP authentication was failing if the display Name of a user had a space
and it was used as user name against an AD.
107. On rare occasions the system could make an unexpected restart when using
the HTTP ALG together with Anti-Virus scanning.
108. In certain rare scenarios, the H323 ALG could make the firewall reboot unexpectedly.
109. The system would advertise the wrong IPv6 address when going active in a
high availability scenario.
110. In rare cases when a heavy load of IPsec traffic was sent through the firewall
there could be logs about hardware acceleration failure with performance
degradation as a result. Affected models were DFL-260E and DFL-860E.
111. When listing VLANs in the CLI and the same VLAN ID was available on more
than one physical interface, the listing was incorrect.
112. Fragmented packets coming from a VLAN going into an L2TPv3 tunnel would
be erroneously dropped in some situations.
113. The internal SSH Server could in rare circumstances use an increasing
amount of memory.
114. Enabling Router Advertisement on an interface with an unnamed
IPv6Network would produce a configuration error.
115. The properties for local_peer and remote_peer in the IPsec logs were
sometimes truncated.
116. The system sometimes restarted unexpectedly during a reconfiguration.
117. The firewall would always perform automatic updates of IDP and AV
databases on startup and HA activation. Automatic updates will now only
occur at the configured time.
118. The log events "too_many_flows_aged" and "failed_to_select_policy_rule"
both used the same log ID 01803001. Now the former uses ID 01803005
and the latter ID 01803001.
119. Syslog messages sent from the firewall did not follow the standard specified
in RFC5424. A setting that enables sending Syslog messages according to
RFC5424 has been added to the 'LogReceiverSyslog ' configuration object.
120. LDAP queries against OpenLDAP servers did not work as expected. It is now

	possible, via the new setting; 'Combined Username' and 'Optional
	Attribute', on the LDAP Server, to specify how LDAP queries towards an
	OpenLDAP server should be sent.
	121. Certain web pages were not possible to reach or load when using the HTTPS
	ALG.
	122. POP3 ALG log messages would sometimes contain incorrect e-mail
	addresses.
	123. On rare occasions, the SMTP and POP3 ALGs could not read fields from the
	DataHeader correctly.
	124. The firewall could perform an unexpected restart in case an up and running
	PPPoE tunnel was disabled by the user.
	125. The DHCP Client did not renew its IP address lease after a link failure had
	been restored.
	126. The firewall would incorrectly terminate some HTTPS sessions when using
	an HTTP ALG with HTTPS, resulting in a blank page in some browsers.
	127. TCP traffic inside an IPsec tunnel using Transport Mode where both peers
	were located behind a NAT gateway did not work as expected, SYN-ACKs
	never reached client, when the firewall was configured with SynRelay.
	128. The community string in SNMP Remote Management was truncated if it was
	longer than 32 characters.
	129. Unsolicited ARP reply was not handled correctly according to the Unsolicited
	ARPReplies setting.
	130. The setting for Multiple Username Logins on the User Authentication Rule
	did not work as intended when selecting to use timeouts from the
	authentication server.
	131. When two SSL VPN Interfaces were configured on the same Interface with
	the same listening IP only one of them was triggering for all client
	connections, even though different ports were used.
	132. The L2TPv3 Server leaked a small amount of memory when a new session
	was initiated within an established tunnel.
	133. Certain SIP PBX configurations caused the firewall to drop INVITE requests.
	134. In rare occasions when SIP was reconfigured, the firewall could make an
	unexpected restart.
	135. Some characters were not supported in passwords for users being
	authenticated using LDAP as source.
	136. It was possible to configure multiple static DHCP hosts with the same IP or
	MAC address without getting a configuration warning.
	137. The cryptographic accelerator on DFL-260E/860E could in some high
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performance situations become unresponsive. 138. With Application Control enabled in some high bandwidth scenarios there was a possibility that connections might stall and make the traffic flow slow. 139. The CLI command "dhcpserver" was not able to show the client identifier string. Now it supports both MAC and identifier. 140. Unexpected exceptions sometimes occurred when the remote endpoint of an IPsec tunnel was set to a DNS object. 141. The system would set the BROADCAST flag in DHCP Discover and DHCP Request messages, despite being fully capable of receiving unicast replies. 142. The update center CLI command would return an error if no argument was specified. It will now show the status of all databases as default action. 143. The L2TP/PPTP client used the wrong source IP when the interface used for L2TP/PPTP traffic was changed due to a DHCP update. 144. The navigation menu disappeared when visiting the "List all active IKE SAs" from the IPsec status page. The navigation menu should now correctly still be there and highlight IPsec status. 145. NATed traffic sometimes used an old source IP address for connections opened prior to a dynamic update of the IP address of the outgoing interface. 146. The configurable minimum lease time of the DHCP server was incorrectly set to 0 seconds. This has now been changed to 30 seconds. 147. ndsnoop messages would sometimes show the firewall's MAC address as 00-00-00-00-00. 148. The system could in some situations misbehave when parsing malformed SNMP packets on the remote management interface. 149. Advisory links were missing on the IDP log event list in the web interface, and when listing a large amount of IDP log events the system could become unresponsive. 150. A space was placed before %REDIRHOST% in HTTP banner files leading to bad URLs. 151. The switch driver used on DFL-260E (rev a2) appliances had a faulty default configuration, which lead to performance issues. 152. Service custom timeouts did not trigger when used by an IP Policy. 153. Forcibly logging out authenticated users via the CLI command "userauth -remove" did not generate a log event. 154. The TFTP ALG would stop forwarding packets after 65535 blocks. 155. The CLI commands "ippool" and "idppipes" had no default usage and they were always in need of an argument. Now they can be used without any

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	argument which implicitly means running them with the "-show" argument. Furthermore the "-max" option for "ippool" has been renamed to "-num" to
	be consistent with other CLI commands.
	156. When using trace route through the firewall the responses were not
	forwarded correctly to the initiating client.
	157. The icons for the collapsible search filters on log pages were not following
	user interface standards. The down arrow is now shown when the filter is
	expanded, instead of the opposite.
	158. The ALG didn't handle SSLv2 compatibility mode with new TLS protocols.
	The ALG has been updated to handle compatibility mode correctly.
	159. Some statistics for rejected DHCP Relay packets was increased even though
	nothing was rejected.
	160. The "ipsecstats -ike" CLI command would output a lot of unnecessary "more entries not displayed" lines.
	161. When using the HTTP ALG together with Anti-Virus scanning, the system
	would sometimes make an unexpected restart.
	162. On rare occasions certain IP addresses in blacklist could lead to faulty
	behavior.
	163. Port Based VLAN did not work on DFL-260E (rev a2) model.
	164. An incorrect PPPoE interface name could be logged in closed / open events
	with certain configurations.
	165. PPPoE interfaces could in rare circumstances make the firewall restart unexpectedly.
	166. It was not possible to disable Port Based VLAN without rebooting the device.
	167. Port Based VLAN didn't properly forward packets according to switch routes.
	168. VLAN traffic sent over, and received from, L2TPv3 interfaces was incorrectly
	required to be received on, or forwarded on, a VLAN interface with identical
	ID. Now, L2TPv3 interfaces trust the routing configuration and do not
	enforce any additional restrictions regarding how VLAN packets are handled
	by the rest of the system
	169. Group names, returned from external databases e.g LDAP, that contained
	spaces were not supported.
	170. The output list from the CLI command 'vlan' was not sorted in VLAN ID
	order. This has been corrected and the command was enhanced with the
	parameters to segment long output lists using 'num' and 'page'.
	171. The 'blacklist' CLI command did not set the correct port number and
	destination URL in its output.
	172. The default metric for a manually added route was 0 instead of 100.
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	173. Static destination address translation would fail for transport mode IPsec
	traffic.
	174. Changing an IDP Rule Action setting from Action "Protect" and "Dynamic
	Black Listing" enabled to Action "Audit" left the "Dynamic Black Listing"
	enabled.
	175. IPsec Transport mode clients using the same remote ID behind NAT devices
	failed to connect simultaneously.
	176. A warning text has been added to inform the administrator when the
	maximum number of IPsec rules for an IPsec interface has been reached.
	177. The SSL VPN Portal would sometimes not use the same authentication
	method as the SSL VPN Client when RADIUS authentication was enabled.
	178. In rare circumstances when using High Availability and OSPF, there could be
	a flood of OSPF packets on the sync interface.
	179. A RADIUS Accounting session was closed if the reply from the RADIUS
	server contained RADIUS Attributes.
	180. The ifstat CLI command did not show the chip information for some E1000
	based interfaces.
	181. Phase one rekey negotiations in the cases where peer Xauth authentication
	is required were removed.
	182. Under rare circumstances, an IPsec configuration could cause the firewall to
	run out of buffers.
	183. The traffic shaping subsystem consumed a large amount of CPU resources
	when processing packets that could not fit within a configured pipe.
	184. The system could in rare cases perform an unexpected restart when IPsec
	clients were connected behind a NAT gateway.
	185. The handling of large amounts of hosts in blacklist has been optimized.
	186. The clone option was not always available on the WebUI objects.
	187. The IP protocols 33 and 48 were logged with incorrect names and IP
	protocols 131 to 142 were missing names. The IP protocol list has been
	updated according to the current IANA definition.
	188. Receiving ESP packets for a new IPsec security association, before the last
	IKE message in the negotiation was received, could cause the firewall to
	drop the ESP packets for that security association during its entire lifetime.
	189. ISAKMP cookies in IKEsnoop messages were sometimes displayed
	incorrectly and could lead to a mismatch in the print out of the 'Delete SPIs'
	and the cookies in an 'IKE delete' message.
	190. In an IPsec scenario where XAuth was used on the tunnel, the memory
	consumption could in rare circumstances increase unexpectedly after
Saler.	

	191. Certain configurations related to one sub system could cause a security			
	vulnerability.			
2.40.04	1. The IP protocols 33 and 48 were logged with incorrect names and IP protocols			
	131 to 142 were missing names. The IP protocol list has been updated			
	according to the current IANA definition.			
	2. Syslog messages sent from the firewall did not follow the standard specified			
	in RFC5424. A setting that enables sending Syslog messages according to			
	RFC5424 has been added to the ' LogReceiverSyslog ' configuration object			
	3. Certain configurations related to one sub system could cause a security			
	vulnerability.			
2.40.03	1. Routemon did not detect link state changes on some Realtek interfaces.			
	Affected models: DFL-260E/DFL-860Es.			
	2. The link status info for the Realtek interfaces disappeared after a			
	reconfigure. Affected models: DFL-260E/DFL-860E			
	3. In some scenarios with IDP configured, traffic of certain patterns could in			
	rare circumstances be delayed			
	4. It was not possible to connect multiple L2TP/IPsec clients behind the same			
	NAT gateway.			
	5. SNMP Interface Alias field was empty when selecting "Comment" in			
	"Interface Alias".			
	6. If L2TP clients with the same local IP address established IPsec tunnels			
	behind a NAT device there were sometimes problems with the connections.			
	7. The OSPF routes database was not updated during reconfigure in some High			
	Availability scenarios.			
	8. In some unusual circumstances the use of XAuth based authentication			
	would lead to an unexpected reboot			
	9. The web user interface was not 100% compatible with Explorer 10. The			
	basic structure has now been updated to render the page correctly in all			
	major browsers.			
	10. The firewall Dynamic Routing Rules did not properly export / import OSPF			
	routes when they were filtered by "OSPF Tag range" or "Router Type".			
	11. A few log message categories, such as SSL VPN and IPv6 Neighbor			
	Discovery were missing from the log message exception list			
	12. In some scenarios when using IPsec with XAuth, ESP delete notifications			
	would not be sent.			
2.40.02	1. In some rare occasions, the memory consumption of the firewall could			

		increase unexpectedly when deploying cluster configurations.
		2. The output list from the CLI command 'vlan' was not sorted in VLAN ID order.
		This has been corrected and the command was enhanced with the
		parameters to segment long output lists 'num' and 'page'.
		3. The 'blacklist' CLI command did not set the correct port number and
		destination URL in its output.
		4. A configuration with the now obsolete selection of Log And Event Receiver
		category '36 (USAGE)' would send out empty log data. The configuration is
		now silently updated to exclude this category.
		5. The shared IP was not used in LDAP server queries for High Availability
		cluster nodes.
		6. The realm string for HTTP basic authentication was incorrectly not optional in
		the configuration.
		7. The unit for the OSPF memory max usage in the WebUI was 'kilobytes', but
		has now been corrected to 'bytes'.
		8. The Local Gateway configured in an IPsec tunnel was not shown in the CLI
		command "ipsectunnels -iface" printout.
		9. The link status of the DMZ, WAN1 and WAN2 interfaces on the DFL-860E
		model and DMZ and WAN on the DFL-260E would disappear shortly during
		the reconfigure process.
		10. The filename for an attachment was incorrectly required for the SMTP ALG
		and POP3ALG. The ALGs have now been updated to handle attachments
		without filenames, according to the RFCs.
		11. The SIP ALG did not use the "420 Bad Extension" response in certain
		circumstances.
		12. The built in L2TP client did not work correctly when put behind a NAT device.
		13. The configuration was not always updated correctly when upgrading to a
		newer version.
		14. HTTPS webauth using Internet Explorer versions 8 and older did not show the
		logged in page after the user had logged in.
		15. When using a large number of neighbors in nodes running OSPF, there was a
		rare possibility of memory corruption.
		16. A prompt was not added after various SSH printouts in the CLI.
	2.40.01	1. Corrected leap year problem where leap year day was added to January
		instead of February.
		2. The log event no_arp (ID:04100007) firewall action text was previously
		route_enabled, the text is now corrected to route_disabled.
		3. Time unit 'seconds' added to help texts in WebUI ALG SIP dialog and CLI
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			command 'help ALG_SIP'.
		4.	An expired AV or IDP license in an HA environment could trigger unexpected
			behavior in the inactive cluster node.
		5.	Some web authentication scenarios could lead to unexpected behavior by
			the firewall.
		6.	The output text for the CLI command 'dns -list' was not formatted correctly
			when using SSH remote management.
		7.	The firewall did not handle lower and upper case correctly in some
			configuration scenarios where objects were named almost identically.
		8.	In some High Availability scenarios, the HA setting ReconfFailoverTime was
			not obeyed, resulting in a failover when deploying a configuration on the
			active peer before the ReconfFailoverTime was reached.
		9.	Cancelling the HA wizard would result in unexpected behavior of the
			firewall. Affected models: DFL-260E/860E.
		10.	In rare occasions, closing down a SIP session could lead to an unexpected
			restart of the firewall.
		11.	The general stability of SSL VPN tunnels has been improved.
		12.	The deployment of new configuration could have a negative impact on the
			performance of Realtek 8169 interfaces.
			Affected models: DFL-260E/DFL-860E.
		13.	Running SSL VPN on a shared IP in an HA cluster disconnected the client at
			reconfiguration due to the inactive node going active during reconfiguration.
		14.	A recent change in scp (secure copy) uses an end of option parameter that
			was handled erroneously by the firewall causing scp connections to be
			closed unexpectedly.
		15.	The "add" CLI command would in some cases add a new configuration
			object with errors, and the "set" CLI command allowed the user to modify
			configuration objects by entering invalid values. Now the behavior has been
			changed to not modify the configuration if the resulting change causes
			errors, unless the "-force" flag is specified.
		16.	The CLI "netobject" command incorrectly printed IPv6 addresses in IPv4
			format.
		17.	It was not possible to disable sending out High Availablility cluster
			heartbeats on nodes. The setting was not obeyed.
		18.	The Web Content Filtering (WCF) server connection could stall after a
			reconfigure and fail to resolve new URLs. The issue has been corrected
			along with additional server connection statistics for the 'httpalg -wcfcache'
Select			CLI command.
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		19. Log messages containing routing information used invalid values.	ļ
		20. Using the H323 ALG could in rare circumstances lead to unexpected	l
		behavior.	ļ
		21. An error in the configuration module could in rare occasions lead to	ļ
		unexpected behavior during the deployment of a new configuration.	ļ
		22. The output of the CLI command "ifstat" has been extended to list the shared	ļ
		MAC addresses on the interfaces of High Availability cluster nodes.	l
		23. Passwords for newly added users were not encrypted in the configuration	
		file.	ļ
		24. OSPF MD5 authentication misbehaved when using ID other than 2.	ļ
		25. The RADIUS accounting session ID string could under some circumstances be reused for a later session.	
		26. A prompt was not printed in the CLI after activating a new configuration.	
		27. A recent security patch for CVE-2011-3389 in some popular web browsers	ļ
		made the firewall's SSL VPN client download page unreachable.	
	2.40.00	1. Some VPN configurations using Radius Accounting did not report in/out octet	1
		statistics to the Radius Accounting server.	
		2. The H.323 ALG did not allow FACILITY messages to be sent during the	
		ALERTING state.	
		3. In certain scenarios, traffic originating from LDAP could lead to unexpected	
		behavior by the firewall.	
		4. If SSL VPN was configured to listen on a proxy ARPed IP, it was not possible to log in to the SSL VPN portal.	
		5. Browsing to certain pages in the WebUI would lead to unexpected behavior for	
		the firewall. Affected models: DFL-260E and DFL-860E.	ļ
		6. Some scenarios made the firewall send malformed packets in an SSL	ļ
		negotiation.	
		7. In a High Availability scenario it was not possible to log in to the firewall in	1
		order to download the SSL VPN client.	l
		8. The value "Password Attribute" for LDAP Servers could not be empty. It is now	ļ
		possible to create an LDAP Server with an empty "Password Attribute" field.	
		9. The possibility to configure interface groups inside interface groups has been	1
		added.	1
		10. Routes monitored only by ARP were not marked as down when the link on the	1
		Ethernet interface was down. Affected models: DFL-260E and DFL-860E.	
		11. Setting up a High Availability cluster using the "backup and restore" method	1
		would result in problems synchronizing the configuration because of an invalid	
Siles		interface configuration. The units now correctly handle that interface]
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		Rate as average for the last 24h. The values have been updated to use the
		average for the last 2 minutes.
		15. The ping -verbose CLI command did not print the correct translated port if
		the packet was affected by a SAT rule in some cases.
		16. Some statistics on IXP interfaces were not correctly printed on the firewall
		console. Affected models: DFL-160/260E/860E.
		 The usage column in the DHCP Server status page has been updated to show active clients. Defense to the status of th
		References to UserAuth privileges for authenticated users could change when modifying the number of configured privileges.
		3. The web server could under certain conditions deadlock and print a "500 -
		Internal Server Error" message when trying to access the web user interface.
		The web server has been extended with better error handling to prevent this kind of deadlock.
		4. The interface traffic counters were only of size 32-bit and often wrapped
		around when the throughput was high. Corresponding 64-bit counters have
		been added to ensure that wrapping will not occur as often as the
		corresponding 32-bit values.
		5. The block list file verification failed for files with a size smaller than one packet.
		The blocklist now validates the extension for the first packet when the content
		type could not be determined in the first packet.
	2.27.03	6. In certain scenarios, the voice transmitted through the SIP ALG terminated suddenly two minutes after the call was established.
		7. Office "xlsm" files were blocked by the SMTP ALG. Encrypted "xlsm" files are
		embedded in an "Office 97/2000 Compatible" container which results in an incorrect file typ according to file integrity control. The file integrity control has
		been updated to handle encrypted "xlsm" files.
		8. A faulty model check made the Switch Management not display all the switch ports in the WebUI for the DFL-860E model.
		9. The Realtek 8169 interface reported link down incorrectly. This caused route
		monitor to not work properly. Affects: DFL-260E and DFL-860E.
		10. The HTTP ALG failed to load web pages from certain web servers correctly.
		The HTTP ALG will now respond with a TCP RESET should the server continue
		to send packets after the client has closed the connection.
		11. Anti-virus scanning of zip files containing files with a large compressed size
		could sometimes lead to unexpected behavior.
		12. Using HTTP web authentication with a RADIUS server as authentication
S.det.		source, could in very rare scenarios cause the firewall to malfunction during
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	save & activate (reconfigure).
	13. Two HTTP ALGs with the same name, but with different case (e.g.
	"MYHTTPALG" and "myhttpalg"), could sometimes cause the firewall to
	freeze during save & activate (reconfigure).
	1. It was not possible to use User Authentication on IP4Group objects.
	2. Certain SIP server scenarios in REGISTER transactions made the firewall
	reject incoming SIP calls.
	3. In some situations when using SMTP ALG with Anti-Virus e-mails with
	attachments would not be completely transferred, resulting in a timeout. The
	ALG Anti-Virus feature now specifically logs failure to decompress encrypted zip
	files. A setting to allow or deny encrypted zip files have also been added.
	4. The usage bars on the DHCP Server status page were not displayed correctly
	when leases reached 100% usage.
	5. ACK messages for non 2xx PBXs responses were not forwarded by the SIP
	ALG.
	6. The DHCP Server did not send DHCP NAK messages in all scenarios. This
	change speeds up the process of receiving a new IP address lease in these
	scenarios.
	7. The SMTP ALG always allowed emails where the SMTP "from" address and
	email header "from" address did not match. A new setting has been added which
	allows the administrator to deny or tag these mails as spam.
2.27.02	8. CLI command "ipsecdefines" has been removed from "techsupport"
	command.
	9. During configuration certain values were not reset after parsing an IGMP
	Report rule, which made the next IGMP Query misbehave. The configuration
	values are now properly reset after parsing IGMP Report rules.
	10. Incoming SIP traffic routed through an IPsec tunnel was discarded by the SIP
	ALG.
	11. Some empty configuration values were not written to the configuration.
	After a restart of the firewall the default values were used instead.
	12. Some buttons in the web user interface had truncated text.
	13. The reception of 255.255.255.254 as Framed-IP-Address in a RADIUS
	negotiation wasn't handled correctly in all installations. Now this will always lead
	to an IP being assigned, to the PPTP-/L2TP-client, from the configured IP pool.
	14. It was not possible to click on the IDP signature group links in the web user
	interface page "IDP Factory Signatures". Clicking on the link now lists the
	signatures in the group.
	15. The DNS client always dropped DNS replies that had the truncated bit set.
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	The truncated bit indicates that the reply does not contain the complete response and that a new DNS request should be sent using TCP (if the client supports TCP DNS). The DNS client now uses the addresses in the partial response instead of
	ending up with no address at all.
	1. Certain SIP PBX configurations blocked media transmission on calls
	established between devices located on the same interface of the firewall.
	2. The POP3 ALG did not reset its state after a failed authentication. This could
	cause the next login attempt to fail.
	3. Specific Intrusion Detection Protection (IDP) scenarios using hardware
	acceleration could cause scans to fail.
	4. Restarting a GRE interface did sometimes trigger an unexpected restart of the
	firewall.
	5. The POP3 ALG did not allow Digest-MD5 authentication.
	6. The SIP ALG could forward malformed SIP messages if a range 0-65535 was
	used as destination port in the SIP service configuration.
	7. Specific scenarios using the PPTP ALG could sometimes cause an unexpected
	restart of the firewall.
	8. The log message sent when reclassifying a URL using Web Content Filtering
2.27.01	showed the wrong category. The log message has been updated to display the
	correct category.
	9. Web User Interface: Activating a configuration that had deleted an item that
	was represented in the navigation tree would not automatically update the
	navigation tree. This resulted in a navigation tree that did not correspond to the running configuration.
	10. Checked checkbox properties that were disabled were unchecked when
	submitting data in the Web User Interface (since information sent by a web
	browser is identical for an unchecked checkbox and a disabled checkbox). The
	configuration engine now correctly remembers the state of disabled checkboxes
	when submitting data.
	11. The HTTP ALG MIME type check did not have support for OpenDocument Text
	Documents (odt).
	12. Script execute did not allow the 'cc' command to run without parameters.
	The command has been updated.
	1. The IP4 Group object didn't handle excluded addresses correctly. It's now
2.27.00	possible to use excluded and included objects in the correct way.
	2. Certain SIP option messages with high values for the "expires" header field
	failed to be properly parsed. When that occurred incoming calls to phones

	placed behind the firewall failed.
	3. Some HTTP headers could cause HTTP connections through the HTTP ALG to
	be closed down prematurely.
	4. On DFL-260/ DFL-860, some specific high stressed Intrusion Detection and
	Protection scenarios using a hardware accelerator could drain the memory of
	the firewall.
	 The SMTP ALG did not accept response codes that only contained numeric data.
	6. Browsing the Web User Interface over HTTPS would sometimes result in
	"Error 500 - Internal server error".
	7. On DFL-1600/DFL-1660/DFL-2500/DFL-2560(G), after a reconfiguration
	using a HA configuration the interface synchronization list for the Inactive
	node contained invalid interface references which could cause problems
	when connections were synchronized before the list was rebuilt. The
	references are now properly cleared during a reconfiguration.
	8. In the Web User Interface, when defining an IDP Rule, the check box to
	enable or disable the option "Protect against insertion/evasion attacks" was
	not visible.
	9. The CLI techsupport command always sent a "sesmgr_file_error" log
	message, even when it worked correctly. The techsupport command now
	only sends log message when it fails.
	10. A limitation on the number of simultaneous WebAuth transaction could
	prevent the authentication of authorized users.
	11. The IP Rule view in the Web User Interface was slow when viewing large
	collection of rules. The rendering speed has been improved.
	12. Dropdown menus in the Web User Interface used a fixed width, which caused
	objects with long names to push information outsize the window. The
	dropdowns are now scaled to be able to show all the information. The
	dropdown also automatically scrolls to the selected item when opened.
	13. The Mappings and Leases links on the DHCP Server status page in the Web
	User Interface didn't work.
	14. Disabling objects with references in the Web User Interface would delete the
	objects and references instead. The objects are now only disabled when
	selecting to disable them.
	[DFL-210/260/800/860/1600/1660/2500/2560/2560G]
2 26 02	1. The "range" parameter in the "rules" CLI command did not work.
2.26.02	2. The CLI command "dns -query" only returned one IP address even though the
	DNS Record contained multiple entries.

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		3. An error in the configuration engine caused problems when configuring the
		first OSPF Area for an OSPF Router Process.
		4. When using services with the SYN flood protection (SYN Relay) functionality
		enabled, reconfigurations could result in unexpected behavior.
		5. Certain conditions sometimes led to an unexpected behavior when a firewall
		had IPsec tunnels configured.
		6. It was not possible to use User Authentication enabled objects in Routing
		Rules, Threshold Rules, IDP Rules or Pipe Rules.
		7. The log pages for the Web User Interface were rendered incorrectly resulting
		in artifacts on some web browsers.
		8. The SMTP ALG did not load all whitelist and blacklist entries if the number of
		entries were more than about 30. The entries that failed to load were silently
		ignored. All configured whitelisted and blacklisted addresses are now loaded and
		filtered correctly.
		9. Users were not properly logged in when IPsec LAN to LAN tunnels were
		configured to require IKE XAuth. This could cause an unexpected reboot. Now
		the LAN to LAN case is properly handled by IKE XAuth.
		10. The L2TP/PPTP Server overview grid did not have a column for "Server IP".
		11. The dropdown to select the interface for OSPF Neighbor in the Web User
		Interface printed the name wrongly. The dropdown code has been enhanced to
		handle this value correctly and print the proper name.
		12. The validation of the latency setting in the Host Monitor configuration was not
		correct. The configured value was lowered to an incorrect value.
		13. The setup wizard only created the second of the two possible Syslog servers.
		The first Syslog server is now correctly created by the wizard.
		14. The "min" and "preferred" input fields had swapped position on the
		configuration page for IPsec Algorithms and IKE Algorithms in the Web User
		Interface. The position of the input fields has been corrected.
		15. In the Web User Interface it was not possible to change order of objects that
		were both disabled and deleted. It's now possible to move objects that are both
		disabled and deleted.
		[DFL-160]
		1. Enabling POP3 on the Inbound Traffic page did not have any effect.
		[DFL-210/260/800/860/1600/1660/2500/2560/2560G]
		1. A configuration that contains a routing table loop could lead to the watchdog
	2.26.01	being triggered. Now the configuration will fail to be activated with the following
		message: "Dynamic routing configuration error, possible configuration loop".
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2. Setting both "IKE Lifetime" and "IPsec Lifetime" to 0 seconds in an IPsec tunnel triggered a warning message on the console referring incorrectly to another property. 3. Proposal lists were not properly listed in command line "ipsectunnel -iface" output. 4. When using a user authentication rule for HTTPS with LDAP, an SSL socket was sometimes not closed, possibly resulting in instability. 5. It was not possible to use certificates that had no alternative name set. 6. Due to memory corruption occurring in some setups, the internal timers caused the firewall to restart unexpectedly. Depending on the traffic load, the reboots occurred periodically from a few hours up to several days. This issue has been corrected together with fixes in the loader. 7. The establishment of SYN flood protected TCP connection could be unnecessarily delayed due to the firewall dropping all the packets sent by the client side while waiting for the completion of the three-way handshaking between the firewall and the server. 8. Updates of the Anti-Virus database could only be done when the Anti-Virus functionality was enabled. The database can now be updated even though no Anti-Virus functionality is enabled 9. The license page showed an incorrect value for maximum number of PPP tunnels. 10. Running certain sequences of CLI commands (or performing corresponding actions in the Web User Interface) involving multiple "reject" commands, could cause a critical malfunction in some cases. 11. After running the CLI command "reject" with a configuration object as parameter, activation of configuration changes could fail with an error message, but "show -errors" would say that there were no errors. The "show -errors" command has been updated to correctly display these errors. 12. Keep-alive SIP pings were not handled correctly and would generate drop logs. The SIP pings are now handled correctly and a response pong is sent. 13. The console command always printed that it showed the events for the last 30 days even though nothing had happened. The command has been updated so it will print the date of the oldest entry. If entries exist that are older than 30 days it will print 30 days and truncate, if less than 30 days, date of last entry will be printed. 14. The system information slides on the front panel display could stop after showing the first sensor under certain conditions when Hardware Monitor was enabled. The system information slides can now loop through all pages without

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		getting stuck. Only affected hardware models with front panel display.
		15. There was a critical defect in the Web Content Filter functionality that could
		cause the firewall to reboot unexpectedly.
		[DFL-160]
		1. It did not work to have DHCP assigned IP on the WAN interface and at the
		same time relay DHCP requests to hosts on the LAN or DMZ in transparent mode.
		2. If the Internet connection had dynamic IP address (DHCP enabled) and
		transparent mode was used on LAN or DMZ, the IP address on the LAN / DMZ
		interface was set to 0.0.0.0.
		1. PPP negotiations were sometimes slower than necessary.
		2. Deploying a configuration during heavy traffic load could cause a watchdog
		reboot.
		3. It was possible to enable the anti-spam feature DNSBL on an SMTP-ALG
		without specifying any DNSBL servers. Configuring DNSBL without specifying
		any servers will now give an error.
		4. Some errors in IPsec tunnel configuration were not correctly treated during
		the firewall start up process, resulting in IPsec tunnels not properly being set up.
		Now most of those errors make the tunnel be disabled and a warning message be
		displayed. For the most severe ones the configuration will be rejected by the
		system.
		5. Running FTP-ALG in hybrid mode could result in the first packet being dropped
		when the connection to the server isn't established, and this leads to a three
	2.26.00	seconds delay. The connection from the ALG to the client will now not be initiated
		until the server connection is established towards the ALG.
		6. It was not possible to move a rule up or down in the list if the rule was
		disabled.
		7. The command "ipsecstats" could in some circumstances not show all tunnels
		when a tunnel name was given as an argument. The command now displays all
		the tunnels when tunnel name is given as an argument.
		8. The command "ipsecstats" only listed the first matching IPsec SA when a
		tunnel name was given as an argument. The command now displays all IPsec
		SAs that are connected to the specified tunnel name.
		9. The FTP-ALG virus scanner triggered an unexpected restart if the virus
		signature database was updated while files were being processed by an FTP-ALG
		configured with fail-mode set to allow.
		10. The "ippool - show" CLI command output showed all configured pools, which
		could be a very long list. Now only the first ten are listed by default. The "-max
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	<num>" option can be used to display more items.</num>
	11. The SIP-ALG didn't handle "183 Session Message" when initiating a new SIP
	call.
	12. The return traffic for ICMP messages received on an IPsec transport mode
	interface was wrongly routed to the core itself and then dropped. The return
	traffic is now passed back using the same connection as it arrived on.
	13. Tab completion in the command line interface (CLI) did not work on IPsec
	tunnels when using the "ipsecstats" command. Tab completion is now possible to
	use in the "ipsecstats" command.
	14. The firewall did not accept certificates signed with RSA-SHA256.
	15. Timezone setting could make the minimum date limit in scheduling to wrap
	and become a date into the future. The minimum and maximum dates in
	scheduling have been modified to be between the years 2000 and 2030 which
	will not trigger the incorrect behavior.
	16. The SMTP-ALG incorrectly blocked emails sent using the CHUNKING (BDAT)
	extension. The ALG has been modified to remove the CHUNKING capability from
	the server's EHLO response. This allows the emails to pass through the ALG.
	17. It was not possible to connect to the firewall using SSH if lots of public keys
	were registered in the SSH client.
	18. The firewall could unexpectedly restart when disabling automatic updates of
	anti-virus and IDP updates.
	19. IPsec tunnels with a DNS name as remote endpoint would cease to function
	after a remote endpoint IP address change.
	20. Blacklist could potentially write to media up to five times each minute. The
	delay between possible writes has been increased to two hours.
	21. It was not possible to configure "maximum authentication retries" for the
	SSH server in the web user interface. Configuration support has now been
	added.
	22. There was a problem when multiple IPsec SAs referenced the same XAuth
	context.
	23. If a DHCP lease of a reserved IP address was manually released in the DHCP
	server and the host requested a new lease, the host was not given the reserved
	IP again.
	24. The UDP checksum was not correctly updated when the multiplex rule was
	used together with address translation (SAT SETDEST / NAT).
	25. On some models, a data alignment error in the Route Load Balancing system
	could cause the firewall to malfunction.
	26. Old configurations had an incorrect definition of the all_tcpudp service.
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	Upgrading from an older version to a newer version could cause problems. This
	problem has now been fixed and the old service will be converted during the
	upgrade.
	27. In some scenarios, login attempts using the web user interface failed with the
	error message "Error 500 - Internal Server Error". No new login attempts were
	allowed until the system had been restarted. A synchronization lock for an
	internal buffer failed to reset during reconfigure and caused this issue.
	28. Scripts created by "script -create" could previously have problems to run
	even when executed with "script -execute -force", because the generated script
	would sometimes incorrectly reference an object before it had been added. This
	has been solved in such way that "script-create" always generates a script that
	will not reference an object before it has been created. Circular dependencies are
	resolved by first adding the objects without the problematic references, then
	later modifying the object to its final state.
	29. Since the web user interface uses UTF-8 encoding, a PSK containing ASCII
	characters with value of 128-255 would be stored as UTF-8 characters. UTF-8
	characters are now converted back to ASCII characters when it is possible.
	1. If the IPSec encapsulation was configured as "Both" then upgrade firmware to
	v2.25.01.22, it will cause device into cycle reboot.
	2. The WCF tab is shown on Non-UTM Firewall models. Basically, Non-UTM
2.25.01.28	firewalls don't support dynamic WCF feature. It is no longer visible on non-UTM
	firewall models after upgrade to firmware v2.25.01.28.
	3. Startup Wizard is not displayed after reset configuration to default via
	WebGUI.
	1. The advanced setting Block0000Src{Drop, DropLog, Ignore, Log} has been
	renamed toLog0000Src{Drop, DropLog}.The actions Log and Ignore have now
	been converted into DropLog and Drop.
	2. UpdateCenter caused problems in HA setups, sometimes locking up an HA
	node. HA alsocaused some problems for pseudo-reassembly
	3. The behavior of the TCP reassembly has been changed slightly to avoid
2.25.01.22	2 causing orcontributing to ACK loops
	4. The firewall could generate multicast_ethernet_ip_address_mismatch log
	messages if itwas deployed in setups where another HA cluster was present. The
	heartbeats from the other HA setup were not recognized and triggered a log
	message. Heartbeats from other HA setups are now identified and silently
	dropped.
	5. Configuration errors in SSH management setup were not reported to the user.

	6. Ability to configure a source port for a NAT rule has been removed. This could
	be configured but would be ignored and the source port would still be randomly selected.
	7. Log messages regarding denied update of anti-virus or IDP signatures were
	incorrectly generated when no valid subscription existed for that service. The log
	messages have been removed.
	8. Redirecting HTTP users to the web authentication login page did not work
	correctly.
	9. A change of an interface's name could lead to the drainage of free buffers that
	eventually caused the firewall to stop handling traffic. The root cause of the
	leakage has been identified and fixed.
	10. The functionality of the CLI command 'urlcache' has been moved into the
	'httpalg-wcfcache' command. The new 'httpalg' flag '-wcfcache' lists the hosts which have overridden the content filter.
	11. A predefined list of file types were missing in the configuration for ALG file
	integrity and anti-virus scan exclusion. Specifying the file extensions can now be
	done with support of a list of extensions.
	12. The arguments to the CLI command "arpsnoop" have been changed. To
	enable snooping on all interfaces "all" should now be used instead of "*" and
	"none" instead of "disable".
	13. Some malformed HTTP URLs were always blocked when scanning with IDP. It
	is now possible to configure the way malformed HTTP URIs should be treated
	(log, drop, droplog, ignore).
	14. Previously, ARP monitoring would be disabled if there was no gateway to
	monitor.
	15. Previously a route could not be configured to include its own gateway among
	hosts to monitor, if the gateway address was obtained via DHCP.
	16. A missing anti-virus signature database or a license file not allowing
	anti-virus scanning resulted in all traffic sent through an anti-virus enabled
	Application Layer Gateway to be blocked. Even though this behavior guaranteed
	that un-scanned traffic never passed through the gateway, it could lead to
	unexpected interrupts in traffic flows.
	17. At shut down of the unit, connected SSH clients were not disconnected
	18. The interface status page could show corrupted driver / hardware output
	when viewing VLAN interfaces. VLAN interfaces have no driver or hardware
	information so this field is now left empty.
	19. Executing commands which used object arguments from within a script file
	did not work. It is now possible to execute such commands from within script
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files.

20. IP4HAAddress peer address was not shown in the WebUI and CLI address book views. The HA peer address is now displayed in address book listings. 21. Idling system backup download for more than 5 seconds aborted the download. It is now possible to idle up to two minutes without having the download being aborted.

22. When the SMTP-ALG anti-virus engine detected multiple infected files within a single ZIP file, the name of the zip file was incorrectly added to the BlockedAttachments.txt file each time a virus was found. The zip file name is now only added once, no matter of the number of infected files within the zip file. 23. An HA node sometimes froze and had to be physically rebooted after updating IDP signatures via updatecenter.

24. The authentication method for IPsec tunnels was set to PSK as default value. When adding such tunnels from the CLI this was unclear. When using the CLI to create IPsec tunnels, the user must now explicitly specify the wanted authentication method.

25. Microsoft Windows LT2P over IPsec sessions could fail in the sequence of re-keys.

26. When using the CLI it was possible to add objects to already disabled folders. It is no longer possible to add objects to disabled folders.

26. The User Authentication logs sometimes contained faulty authentication information. Log events were also missing in some authentication scenarios 27. A file transfer scanned by the HTTP ALG with anti-virus activated could be aborted after a WindowZero event from the client.

28. The 'active' column of 'updatecenter -servers' command showed misleading information. The column shows which server that is the recommended server to use by the UTM services (Anti-virus, IDP and Web Content Filtering). The column has been renamed to 'Precedence' and a server is either marked as 'Primary' or 'Backup'.

29. PCAP captures on non-Ethernet interfaces were missing Ethernet headers causing Wireshark to fail opening the files.

30. The configuration user and session stored for the configuration changes sometimes indicated that the wrong user session stored the configuration. Now, the correct user session parameters are stored.

31. In rare cases, the Web Content Filtering feature could trigger an unexpected restart of the firewall.

32. A lease for a static host in a DHCP server was removed if a new lease with the same MAC-address was created. A lease is now removed if the new lease is

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within the same DHCP server and has the same MAC-address. 33. The webUI memory logger search fields used partial matching. The search fields are now using strict matching with the possibility to use the wildcards '*' and '?'. 34. Outdated information was sometimes used when generating log events from the ALGs which could cause the device to restart. 35. It was not possible to select Local ID for certificates. Added configuration support for Local ID. 36. Configuring the static IPsec config mode IP pool with an address range where the least significant byte of the last address in the range is smaller that the least significant byte of the first address in the range would cause the device to reboot when several tunnels are established. One example of such a range is 172.16.1.240-172.16.2.40. 37. Route Fail Over status information was faultily printed on the console every time the state of the route changed. These printouts are now removed and only the log events remain. 38. Changing the high availability setting "use unique shared MAC" could make both nodes of a high availability cluster go active. 39. There was a dependency between link monitors which resulted in that the effective ping interval was reduced for each new link monitor configured. 40. The CLI was missing a quick and easy way to list the available runtime services. A 'services' CLI command has been added. This command lists the runtime values of configured services. 41. It was not possible to send IKE messages through an IPsec interface. The result was that a pair of hosts could not establish an IPsec tunnel with each other using IKE if the negotiation needed to pass through an IPsec tunnel established by the firewall and a peer. 42. Netobject groups were not updated if the groups contained a dynamically changed (DHCP, PPPoE etc.) address. 43. IPsec-tunnels using DNS resolving of the remote gateway could sometimes not be established. The dynamic routes are now set properly for tunnels using DNS resolving of remote gateway. 44. Certain device parameters, such as the device name, were previously synchronized between the members of a HA cluster. To make it easier to distinguish between the members of a HA cluster; these parameters are no longer synchronized. 45. Route load balancing method spillover didn't take disabled routes into account. dlinklareen

46. When reclassifying a Web Content Filtering blocked site, the new category for the site was not immediately updated in the local cache. It could take up to five hours before the cached entry was updated. The local cache is now immediately updated once a site has been reclassified. 47. When activating HA in the WebUI, the browser was redirected to the shared IP address of the management interface. Now, the web browser is redirected to the private IP of the management interface. 48. The HTTP-ALG could fail to reconnect to Web Content Filter servers after a HA fail-over. The unit will now reconnect to the server when URLs need to be resolved. 49. The TCP stack used by TCP-based ALGs, web-based user authentication and remote management did not respond to SYNs with the window set to zero. 50. The CLI command "arp -flush <interface>" did not work. It has now been corrected. Flushing the ARP cache on all interfaces using "arp -flush" did work though. 51. The firewall did not respond to TCP Keep-Alive packets. 52. Management sessions to the WebUI could on low throughput links timeout before the web pages have been fully loaded. The timeout of the sessions has been increased in order to better handle this scenario. 53. A leak of addresses in the static IPsec config mode IP pool caused the number of addresses available to clients to shrink over time. It could also cause the device to reboot itself. 54. IPsec config mode configured with a static IP pool did not, in general, hand out the last address in a range to clients. 55. Log messages were not throttled correctly when the configured log receiver was offline and in return sent ICMP destination unreachable packets to the gateway. This made the gateway trigger more log messages which could lead to drained CPU resources. 56. IPsec config mode, configured with multiple subnets or a static IP pool with multiple ranges of addresses, falsely treated unchanged configurations as changed during reconfiguration and disconnected all tunnels. 57. Using Web Content Filtering, users were incorrectly displayed the "access has been denied" page if their HTTP request was generated while the WCF server connection was establishing. The URL category lookup request is now silently queued and sent to the WCF server once the connection has been established. 58. The HTTP-ALG blocked web pages with malformed charset statement in HTTP headers.

59. A misconfigured IPsec tunnel could in some scenarios cause the firewall to

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		malfunction.
		60. The firewall sometimes restarted unexpectedly when using IDP Pipes.
		61. The LDAP client now handles authentication using PPP with CHAP,
		MS-CHAPv1 and MS-CHAPv2.
		62. Adobe Illustrator (.ai) files (saved by recent versions of Illustrator) did not
		pass the MIME type check performed by the Application Layer Gateways since
		they were identified as PDF files.
		63. Removing the use of DHCP on multiple interfaces could in some rare cases
		during reconfigure cause the firewall to perform an unexpected abort. Protection
		has been added to the timeout handling routine of DHCP.
		64. HTTP-ALG generated information pages, e.g. Restricted site notice, could get
		incorrectly cached by downstream proxy servers. This could lead to proxy
		servers returning a cached error message even though no error page should be
		seen.
		65. The OSPF Interface was missing the 'network' configuration parameter. This
		caused problems in certain setups where IPsec tunnels configured with 0.0.0.0/0
		as remote or local network. If the network parameter is not set, the network
		parameter is copied from the configured interface.
		66. The PPPoE client option "Force Unnumbered PPPoE" did not force
		Unnumbered PPPoE to be used.
		67. Under certain Traffic Sapping settings, lower precedences stop forwarding
		traffic when higher precedences start forwarding traffic.
		68. Configurations containing names or comments using certain special
		characters could cause the firewall to fail reading the configuration during
_		startup.
		1. ICMP Destination Unreachable packets were not sent when UDP packets hit a
		Reject rule.
		2. Web authentication and web server connections were not closed correctly at
		reconfiguration.
		3. The DHCP Server did just send replies back on the receiving interface without
		regarding routing decisions. The DHCP Server now performs a route lookup if
	2.20.03	the reply is destined for a host address (i.e. not an IP broadcast).
		4. HA setups with IDP scanning enabled, packets could be lost during a failover.
		5. Some services were using the private IP in HA setups for communicating. This
		is now changed and the shared IP is used.
		6. The DNS lookup of the IP address to a remote gateway failed under certain
		circumstances for IPSec interfaces.
33/16-		7. The CLI command for displaying updatecenter AV/IDP update status did not
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	show enough information. It has now been improved.
	8. TCP connections could sometimes fail due to an incorrect sequence number
	check.
	9. A missing Content-Transfer-Encoding header field in e-mails could sometimes
	cause the SMTP-ALG session to malfunction.
	10. With TCP sequence validation turned on, closing existing connections would
	cause all subsequent attempts to reopen the same connection to be dropped
	with a log message about a bad sequence number. The situation would
	resolve itself after a timeout of about 50 seconds, but would still cause
	severe traffic impairment in certain situations (most noticeably HTTP traffic).
	This change will by default loosen the restrictions when an attempt to reopen
	a closed connection is received (ValidateSilent, ValidateLogBad), while still
	enforcing RFC correctness.
	11. The SMTP-ALG could not tell the difference between the new Microsoft Office
	2007 document file types and file type ZIP. This is because there is no
	difference that can be easily discovered (the new Microsoft Office files are in
	fact ZIP files with a different extension). An ALG configured to make file
	integrity checks would therefore signal these files as invalid (wrong mime
	type, wrong file suffix). The ALG will now identify Office 2007 files as ZIP
	files. Anti-virus checks will, if enabled, scan the contents of the new Office
	2007 files just like it would with a regular ZIP file.
	12. IP address with suffixes .0 and/or .255 could incorrectly be assigned to IPSec
	config mode clients.
	13. Nested MIME bodies could in some scenarios be blocked by the SMTP-ALG.
	For example, the SMTP-ALG could block images inserted as 'inline' with an
	error message indicating base64 decoding error. The recipient received the
	email without the attached image but an error message saying: "The
	attachment xxxx has been blocked by the Security Gateway". The ALG has
	been updated with better support for nested MIME blocks.
	14. A user logging in via Web based user Authentication, when configured to
	handle user credentials via one or several RADIUS servers, it could cause an
	unexpected abort if no RADIUS server was reachable. This issue has been
	fixed.
	15. The web user interface, the properties in "Dynamic Black Listing" were
	incorrectly enabled when action was set to something else than "protect".
	16. The icon for removing IKE SA was missing, hence making it impossible to
	remove an IKE SA using the web user interface.
	17. DNS Blacklist CLI command showed wrong status of blacklist servers on
1	The Blackist CEL command showed wrong status of Blackist servers of
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	inactive HA member. Inactive HA member does not perform any anti-spam
	inspection so the inactive node is unaware of the status of the blacklist
	servers.
	18. Email attachments with very long file names could cause memory corruption
	in the SMTP-ALG.
	19. Log string sent to syslog receivers was not always correctly formatted. Some
	log arguments were not separated by a whitespace, resulting in invalid
	parsing by syslog receivers.
	20. When restarting an interface on the DFL-1600 or DFL-2500, there has been a
	theoretical possibility of memory corruption. This issue has been fixed from
	F/W v2.20.02 and later.
	21. Connections were, under certain circumstances, incorrectly dropped by the
	IDP scanning engine when audit mode was used.
	22. After IPSec tunnels were modified, the reconfiguration of the gateway was
	not done correctly. The result was that the gateway could go into unexpected
	abort state.
	23. A configured external log receiver that does not accept log messages might
	send ICMP destination unreachable packets to the firewall. These packets
	would trigger new log messages resulting in high CPU utilization. Logging is
	now connection-based and the sending rate of log messages will be
	decreased by the firewall when it receives ICMP destination unreachable
	packets regarding log receiver connections.
	24. TCP connections with SYN relay were not synchronized correctly. In case of
	HA failover, traffic on these connections would freeze.
	25. Unnecessary DynDNS and HTTP-Poster re-posts were triggered during
	reconfigure. This is now avoided by always considering if the local interface
	IP address has been changed or if the HTTP-Poster/DynDNS configuration
	has been changed.
	26. Some H.323 messages were incorrectly disallowed by the ALG. The H.323
	Status Enquiry message is now allowed to be forwarded through the
	H.323-ALG.
	27. The Fail Mode setting in the HTTP-ALG was not honored by the Dynamic Web
	Content Filtering.
	28. The log message for expired or no valid Web Content Filtering license did only
	show up once. There is now a log message generated once a one minute.
	This should be more noticeable to the administrator.
	29. The SMTP-ALG could in some scenarios cause instability to the system by
	losing track of SMTP state synchronization. The SMTP-ALG has been updated
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with improved state tracking and email syntax validation. 30. It was not possible to configure the primary NBNS server for L2TP/PPTP server interfaces in the web user interface. 31. The TCP monitoring of Server Load Balancing did not increase TCP sequence number in the reset packet sent to server in case of connection timeout. The sequence number is now increased by one. 32. Server Load Balancing did not use All-To-One for port numbers. When using a range on the service, the destination port would be the specified port plus the offset from the low port number in the service. 33. One of the log messages had an incorrect format. When the log message was placed first in the log table, the web user interface memlog would display an empty page. 34. The description text for IP Pools incorrectly specified that IP Pools could be used by L2TP and PPTP. 35. A confusing Anti-Virus status message was visible in status page on non UTM capable devices. The message has been removed. 1. ICMP Destination Unreachable packets were not sent when UDP packets hit a Reject rule. 2. Web authentication and web server connections were not closed correctly at reconfiguration. 3. The DHCP Server did just send replies back on the receiving interface without regarding routing decisions. The DHCP Server now performs a route lookup if the reply is destined for a host address (i.e. not an IP broadcast). 4. HA setups with IDP scanning enabled, packets could be lost during a failover. 5. Some services were using the private IP in HA setups for communicating. This is now changed and the shared IP is used. 6. The DNS lookup of the IP address to a remote gateway failed under certain 2.20.02 circumstances for IPSec interfaces. 7. The CLI command for displaying updatecenter AV/IDP update status did not show enough information. It has now been improved. 8. TCP connections could sometimes fail due to an incorrect sequence number check. A missing Content-Transfer-Encoding header field in e-mails could sometimes cause the SMTP-ALG session to malfunction. 10. With TCP sequence validation turned on, closing existing connections would cause all subsequent attempts to reopen the same connection to be dropped with a log message about a bad sequence number. The situation would resolve itself after a timeout of about 50 seconds, but would still cause

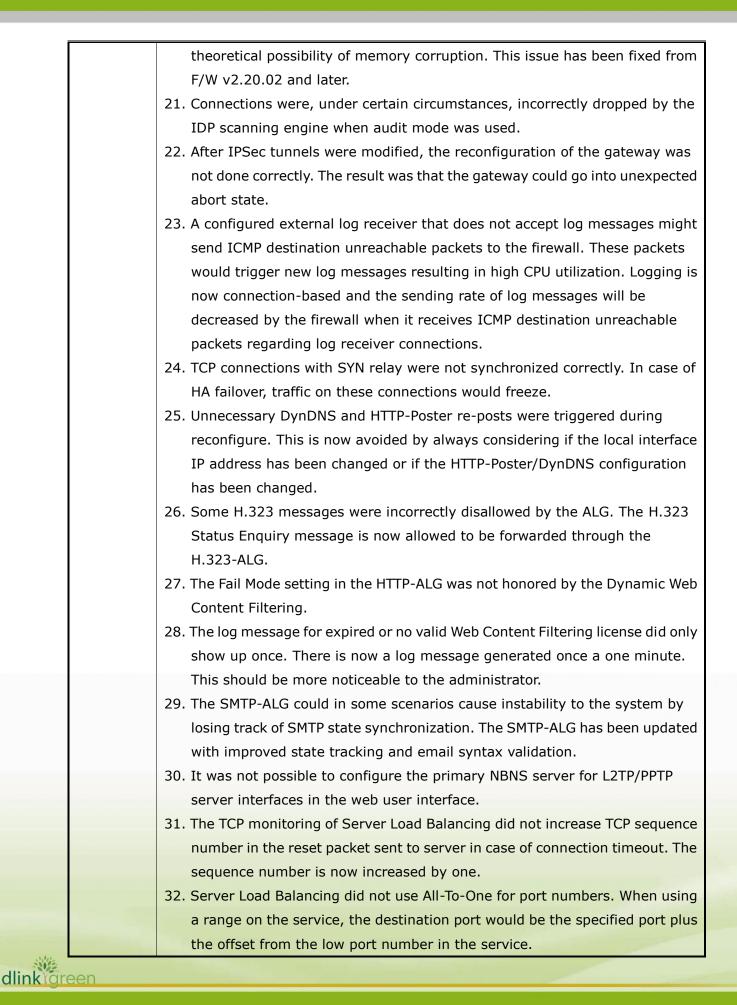
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Known Issues:

Firmware Version	Known Issues
11.04.01	1. HA: Transparent Mode won't work in HA mode:
	There is no state synchronization for Transparent Mode and there is no loop
	avoidance.
	2. HA: No state synchronization for Application Layer Gateways:
	No aspect of Application Layer Gateways are state synchronized. This means that
	all traffic handled by ALGs will freeze when the cluster fails over to the other
	peer. if, however, the cluster fails back over to the original peer within
	approximately half a minute, frozen sessions (and associated transfers) should
	begin working again. Note that such failover (and consequent fallback) occurs
	each time a new configuration is uploaded.
	3. HA: Tunnels unreachable from inactive node:
	The inactive node in an HA cluster cannot communicate over IPsec, PPTP, L2TP
	and GRE tunnels, as such tunnels are established to/from the active node.
	 Inactive HA member cannot send log events over tunnels.
	• Inactive HA member cannot be managed / monitored over tunnels.
	• OSPF: If the cluster members do not share a broadcast interface so that the
	inactive node can learn about OSPF state, OSPF failover over tunnels uses
	normal OSPF failover rather than accelerated (<1s) failover. This means 20-30
	seconds with default settings, and 3-4 seconds with more aggressively tuned
	OSPF timings.
	4. HA: No state synchronization for L2TP and PPTP tunnels:
	There is no state synchronization for L2TP and PPTP tunnels. On failover,
	incoming clients will e-establish their tunnels after the tunnels are deemed
	non-functional. This timeout is typically in the 30 120 seconds range.
	5. HA: No state synchronization for IDP signature scan states:
	No aspects of the IDP signature states are synchronized. This means that there
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	is a small chance that the IDP engine causes false negatives during an HA
	failover.
10.22.01	 L2TPv3 is not support: DFL will not add a switch route for L2TPv3 remote client. Radius server redundancy issue : DFL will not rollback to primary Radius server till Secondary Radius server is down. Unable to support Radius setting via CLI.
10.21.02	1. HA: Transparent Mode won't work in HA mode:
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2.60.02	1. The Oray.net Peanut Hull client does not work after they changed the
2.60.02	protocol

	synchronization for Transparent Mode and there is no loop avoidance.
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	non-functional. This timeout is typically in the 30 120 seconds range.
	HA: No state synchronization for IDP signature scan states: No aspects of the IDP signature states are synchronized. This means that there is a small chance that the IDP engine causes false negatives during an HA failover.
2.40.04	
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	2. The Oray.net Peanut Hull client does not work after they changed the
	protocol
	3. HA: Transparent Mode won't work in HA mode: There is no state
	synchronization for Transparent Mode and there is no loop avoidance.
	4. HA: No state synchronization for ALGs: No aspect of ALGs are state
	synchronized. This means that all traffic handled by ALGs will freeze when
	the cluster fails over to the other peer. if, however, the cluster fails back
	over to the original peer within approximately half a minute, frozen sessions
	(and associated transfers) should begin working again. Note that such
	failover (and consequent fallback) occurs each time a new configuration is
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	5. HA: Tunnels unreachable from inactive node: The inactive node in an HA
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4. ALGs won't synchronize states in HA mode.		2.	Don't support the latest protocol used by oray.net Peanut Hull clients.
		3.	Transparent Mode won't in HA mode.
5. L2TP, PPTP, IPSec won't synchronize states in HA mode.		4.	ALGs won't synchronize states in HA mode.
		5.	L2TP, PPTP, IPSec won't synchronize states in HA mode.
6. The inactive node in an HA cluster cannot be reachable over IPSec, PPTP,		6.	The inactive node in an HA cluster cannot be reachable over IPSec, PPTP,
L2TP and GRE tunnels.			L2TP and GRE tunnels.
7. If the cluster members do not share a broadcast interface so that the		7.	If the cluster members do not share a broadcast interface so that the
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8. No aspects of the IDP signature states are synchronized in HA modes.		8.	No aspects of the IDP signature states are synchronized in HA modes.
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	2. Transparent Mode won't in HA mode.
	3. ALGs won't synchronize states in HA mode.
	4. L2TP, PPTP, IPSec won't synchronize states in HA mode.
	5. The inactive node in an HA cluster cannot be reachable over IPSec, PPTP, L2TP
	and GRE tunnels.
	7. DFL cannot support redirecting L2TP/IPSec tunnels to another DFL working in
	LAN.
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	2. Transparent Mode won't in HA mode.
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	5. The inactive node in an HA cluster cannot be reachable over IPSec, PPTP, L2TP
	and GRE tunnels.
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2 27 02	cluster fails over to the other peer. if, however, the cluster fails back over to the
2.27.03	original peer within approximately half a minute, frozen sessions (and associated
	transfers) should begin working again. Note that such failover (and consequent
	fallback) occurs each time a new configuration is uploaded.
	4. HA: Tunnels unreachable from inactive node. The inactive node in an HA
	cluster cannot communicate over IPsec, PPTP, L2TP and GRE tunnels, as such
	tunnels are established to/from the active node.

 5. Inactive HA member cannot send log events over tunnels. 6. Inactive HA member cannot be managed / monitored over tunnels. 7. OSPF: If the cluster members do not share a broadcast interface so that the inactive node can learn about OSPF state, OSPF failover over tunnels uses normal OSPF failover rather than accelerated (<1s) failover. This means 20-30 seconds with default settings, and 3-4 seconds with more aggressively tuned OSPF timings. 8. HA: No state synchronization for L2TP, PPTP and IPsec tunnels. There is no state synchronization for L2TP, PPTP and IPsec tunnels. On failover, incoming clients will re-establish their tunnels after the tunnels are deemed non-functional. This timeout is typically in the 30 120 seconds range. 9. HA: No state synchronization for IDP signature scan states. No aspects of the IDP signature states are synchronized. This means that there is a small chance
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that the IDP engine causes false negatives during an HA failover.
10. The function "StateKeepAlive" of NAT Pool is not working.
11. SIP ALG: Limited functionality on SIP ALG. It supports three scenarios: (a)
Protecting local clients - Proxy located on the Internet; (b) Protecting proxy and
local clients - Proxy on the same network as clients; (c) Protecting proxy and
local clients - Proxy on a DMZ interface. A more detailed description and network
topologies can be found in the Admin Guide. Any scenario different from these
three might be difficult to deploy.
12. SIP ALG: Limited functionality on IP telephony. It is not support all
functionality in RFC-3261 or other RFC's that is referred to from RC-3261. There
may be third party SIP-aware units that cannot be configured to be compatible
with the SIP-ALG.
1. The Oray.net Peanut Hull client does not work after they changed the protocol
2. HA: Transparent Mode won't work in HA mode. There is no state
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2.27.02 original peer within approximately half a minute, frozen sessions (and associated
transfers) should begin working again. Note that such failover (and consequent
fallback) occurs each time a new configuration is uploaded.
4. HA: Tunnels unreachable from inactive node. The inactive node in an HA
cluster cannot communicate over IPsec, PPTP, L2TP and GRE tunnels, as such
tunnels are established to/from the active node.
5. Inactive HA member cannot send log events over tunnels.
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		6. Inactive HA member cannot be managed / monitored over tunnels.
		7. OSPF: If the cluster members do not share a broadcast interface so that the
		inactive node can learn about OSPF state, OSPF failover over tunnels uses
		normal OSPF failover rather than accelerated (<1s) failover. This means 20-30
		seconds with default settings, and 3-4 seconds with more aggressively tuned
		OSPF timings.
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		clients will re-establish their tunnels after the tunnels are deemed
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		original peer within approximately half a minute, frozen sessions (and associated
		transfers) should begin working again. Note that such failover (and consequent
		fallback) occurs each time a new configuration is uploaded.
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	synchronization for Transparent Mode and there is no loop avoidance.
2.26.02	3. HA: No state synchronization for ALGs. No aspects of ALGs are state
	synchronized. This means that all traffic handled by ALGs will freeze when the
	cluster fails over to the other peer. if, however, the cluster fails back over to the
	original peer within approximately half a minute, frozen sessions (and associated

		transfers) should begin working again. Note that such failover (and consequent
		fallback) occurs each time a new configuration is uploaded.
		4. HA: Tunnels unreachable from inactive node. The inactive node in an HA
		cluster cannot communicate over IPsec, PPTP, L2TP and GRE tunnels, as such
		tunnels are established to/from the active node.
		5. Inactive HA member cannot send log events over tunnels.
		6. Inactive HA member cannot be managed / monitored over tunnels.
		7. OSPF: If the cluster members do not share a broadcast interface so that the
		inactive node can learn about OSPF state, OSPF failover over tunnels uses
		normal OSPF failover rather than accelerated (<1s) failover. This means 20-30
		seconds with default settings, and 3-4 seconds with more aggressively tuned
		OSPF timings.
		8. HA: No state synchronization for L2TP, PPTP and IPsec tunnels. There is no
		state synchronization for L2TP, PPTP and IPsec tunnels. On failover, incoming
		clients will re-establish their tunnels after the tunnels are deemed
		non-functional. This timeout is typically in the 30 120 seconds range.
		9. HA: No state synchronization for IDP signature scan states. No aspects of the
		IDP signature states are synchronized. This means that there is a small chance
		that the IDP engine causes false negatives during an HA failover.
		10. The function "StateKeepAlive" of NAT Pool is not working.
		11. The DUT would be crash and reboot after restart the GRE interface.
		1. The Oray.net Peanut Hull client does not work after they changed the protocol
		2. HA: Transparent Mode won't work in HA mode. There is no state
		synchronization for Transparent Mode and there is no loop avoidance.
		3. HA: No state synchronization for ALGs. No aspects of ALGs are state
		synchronized. This means that all traffic handled by ALGs will freeze when the
		cluster fails over to the other peer. if, however, the cluster fails back over to the
		original peer within approximately half a minute, frozen sessions (and associated
		transfers) should begin working again. Note that such failover (and consequent
	2.26.01	fallback) occurs each time a new configuration is uploaded.
		4. HA: Tunnels unreachable from inactive node. The inactive node in an HA
		cluster cannot communicate over IPsec, PPTP, L2TP and GRE tunnels, as such
		tunnels are established to/from the active node.
		5. Inactive HA member cannot send log events over tunnels.
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		7. OSPF: If the cluster members do not share a broadcast interface so that the
		inactive node can learn about OSPF state, OSPF failover over tunnels uses
		normal OSPF failover rather than accelerated (<1s) failover. This means 20-30
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	seconds with default settings, and 3-4 seconds with more aggressively tuned
	OSPF timings.
	8. HA: No state synchronization for L2TP, PPTP and IPsec tunnels. There is no
	state synchronization for L2TP, PPTP and IPsec tunnels. On failover, incoming
	clients will re-establish their tunnels after the tunnels are deemed
	non-functional. This timeout is typically in the 30 120 seconds range.
	9. HA: No state synchronization for IDP signature scan states. No aspects of the
	IDP signature states are synchronized. This means that there is a small chance
	that the IDP engine causes false negatives during an HA failover.
	1. The Oray.net Peanut Hull client does not work after they changed the protocol
	2. HA: Transparent Mode won't work in HA mode. There is no state
	synchronization for Transparent Mode and there is no loop avoidance.
	3. HA: No state synchronization for ALGs. No aspect of ALGs are state
	synchronized. This means that all traffic handled by ALGs will freeze when the
	cluster fails over to the other peer. if, however, the cluster fails back over to the
	original peer within approximately half a minute, frozen sessions (and associated
	transfers) should begin working again. Note that such failover (and consequent
	fallback) occurs each time a new configuration is uploaded.
	4. HA: Tunnels unreachable from inactive node. The inactive node in an HA
	cluster cannot communicate over IPsec, PPTP, L2TP and GRE tunnels, as such
	tunnels are established to/from the active node.
2,26,00	5. Inactive HA member cannot send log events over tunnels.
2.20.00	6. Inactive HA member cannot be managed / monitored over tunnels.
	7. OSPF: If the cluster members do not share a broadcast interface so that the
	inactive node can learn about OSPF state, OSPF failover over tunnels uses
	normal OSPF failover rather than accelerated (<1s) failover. This means 20-30
	seconds with default settings, and 3-4 seconds with more aggressively tuned
	OSPF timings.
	8. HA: No state synchronization for L2TP, PPTP and IPsec tunnels. There is no
	state synchronization for L2TP, PPTP and IPsec tunnels. On failover, incoming
	clients will re-establish their tunnels after the tunnels are deemed
	non-functional. This timeout is typically in the 30 120 seconds range.
	9. HA: No state synchronization for IDP signature scan states. No aspects of the
	IDP signature states are synchronized. This means that there is a small chance
	that the IDP engine causes false negatives during an HA failover.
2.25.01.28	1. The Oray.net Peanut Hull client does not work after they changed the protocol
2.23.01.20	2. HA: Transparent Mode won't work in HA mode There is no state

		synchronization for Transparent Mode and there is no loop avoidance.
		3. HA: No state synchronization for ALGs No aspect of ALGs are state
		synchronized. This means that all traffic handled by ALGs willfreeze when the
		cluster fails over to the other peer. if, however, the cluster fails back over to
		the original peer within approximately half a minute, frozen sessions (and
		associated transfers) should begin working again. Note that such failover
		(and consequent fallback) occurs each time a new configuration is uploaded.
		4. HA: Tunnels unreachable from inactive node The inactive node in an HA cluster
		cannot communicate over IPsec, PPTP, L2TP and GRE tunnels, as such
		tunnels are established to/from the active node.
		5. Inactive HA member cannot send log events over tunnels.
		6. Inactive HA member cannot be managed / monitored over tunnels.
		7. OSPF: If the cluster members do not share a broadcast interface so that the
		inactive node can learn about OSPF state, OSPF failover over tunnels uses
		normal OSPF failover rather than accelerated ($<1s$) failover. This means
		20-30 seconds with default settings, and 3-4 seconds with more
		aggressively tuned OSPF timings.
		8. HA: No state synchronization for L2TP, PPTP and IPsec tunnels There is no
		state synchronization for L2TP, PPTP and IPsec tunnels. On failover, incoming
		clients will re-establish their tunnels after the tunnels are deemed
		non-functional. This timeout is typically in the 30 120 seconds range.
		9. HA: No state synchronization for IDP signature scan states No aspects of the
		IDP signature states are synchronized. This means that there is a small
		chance that the IDP engine causes false negatives during an HA failover.
		1. If the IPSec encapsulation was configured as both, when upgrade firmware to
		v2.25.01.22, it will cause device into cycle reboot. This problem has been
		fixed in v2.25.01.28.
		2. The Oray.net Peanut Hull client does not work after they changed the protocol
		3. HA: Transparent Mode won't work in HA mode There is no state
		synchronization for Transparent Mode and there is no loop avoidance.
	2.25.01.22	4. HA: No state synchronization for ALGs No aspect of ALGs are state
	LILOIOIILL	synchronized. This means that all traffic handled by ALGs willfreeze when the
		cluster fails over to the other peer. if, however, the cluster fails back over to
		the original peer within approximately half a minute, frozen sessions (and
		associated transfers) should begin working again. Note that such failover
		(and consequent fallback) occurs each time a new configuration is uploaded.
		5. HA: Tunnels unreachable from inactive node The inactive node in an HA cluster
Salate		cannot communicate over IPsec, PPTP, L2TP and GRE tunnels, as such
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		tunnels are established to/from the active node.
		6. Inactive HA member cannot send log events over tunnels.
		7. Inactive HA member cannot be managed / monitored over tunnels.
		8. OSPF: If the cluster members do not share a broadcast interface so that the
		inactive node can learn about OSPF state, OSPF failover over tunnels uses
		normal OSPF failover rather than accelerated (<1s) failover. This means
		20-30 seconds with default settings, and 3-4 seconds with more
		aggressively tuned OSPF timings.
		9. HA: No state synchronization for L2TP, PPTP and IPsec tunnels There is no
		state synchronization for L2TP, PPTP and IPsec tunnels. On failover, incoming
		clients will re-establish their tunnels after the tunnels are deemed
		non-functional. This timeout is typically in the 30 120 seconds range.
		10. HA: No state synchronization for IDP signature scan states No aspects of the
		IDP signature states are synchronized. This means that there is a small
		chance that the IDP engine causes false negatives during an HA failover.
		1. The Oray.net for Peanut Hull DDNS client does not work after supplier changed
		the protocol.
		2. HA: Transparent Mode won't work in HA modeThere is no state
		synchronization for Transparent Mode and there is no loop avoidance.
		3. HA: No state synchronization for ALGsNo aspect of ALGs are state
		synchronized. This means that all traffic handled by ALGs will freeze when
		the cluster fails over to the other peer. if, however, the cluster fails back over
		to the original peer within approximately half a minute, frozen sessions (and
		associated transfers) should begin working again. Note that such failover
		(and consequent fallback) occurs each time a new configuration is uploaded.
		4. HA: Tunnels unreachable from inactive nodeThe inactive node in an HA cluster
	2.20.03	cannot communicate over IPSec, PPTP, L2TP and GRE tunnels, as such
		tunnels are established to/from the active node.
		• Inactive HA member cannot send log events over tunnels.
		• Inactive HA member cannot be managed / monitored over tunnels.
		• OSPF: If the cluster members do not share a broadcast interface so that the
		inactive node can learn about OSPF state, OSPF failover over tunnels uses
		normal OSPF failover rather than accelerated $(<1s)$ failover. This means
		20-30 seconds with default settings, and 3-4 seconds with more
		aggressively tuned OSPF timings.
		5. HA: No state synchronization for L2TP, PPTP and IPSec tunnels. There is no
		state synchronization for L2TP, PPTP and IPSec tunnels. On failover, incoming
s.tu		clients will re-establish their tunnels after the tunnels are deemed
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non-functional. This timeout is typically in the 30 120 seconds range.
6. HA: No state synchronization for IDP signature scan states. No aspects of the
IDP signature states are synchronized. This means that there is a small
chance that the IDP engine causes false negatives during an HA failover.

Related Documentation:

- NetDefend Firewall User Manual v11.04.01
- NetDefend Firewall CLI Reference Guide v11.04.01
- NetDefend Firewall Logging Reference Guide v11.04.01
- NetDefend Firewall Application Control Sigs v11.04.01

