

NetDefendOS Version: 10.21.02 Published Date: 2014-12-23

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# **Revision History and System Requirement:**

Firmware	Date	Model	Hardware Version
Version	Dute	Houei	
10.20.02	Dec 23,	DFL-1660/2560/2560G	DFL-260E A2
	2014 Jul 07,	DFL-260E/860E DFL-1660/2560/2560G	A1 (for all models) DFL-260E A2
2.60.02	2014	DFL- 1660/2360/2360G	A1 (for all models)
	Jul 17,	DFL-1660/2560/2560G	DFL-260E A2
2.40.04	2013	DFL-260E/860E	A1 (for all models)
2.40.03	Apr 05,	DFL-1660/2560/2560G	DFL-260E A2
2.40.05	2013	DFL-260E/860E	A1 (for all models)
2.40.02	Dec 15, 2012	DFL-1660/2560/2560G	DFL-260E A2
	Apr 15,	DFL-260E/860E DFL-1660/2560/2560G	A1 (for all models)
2.40.01	2012	DFL-260E/860E	A1 (for all models)
2.40.00	Oct 21,	DFL-1660/2560/2560G	A1 (for all models)
2.40.00	2011	DFL-260E/860E	
2.30.01	June 1	DFL-1660/2560/2560G	A1 (for all models)
	2011	DFL-260E/860E	A1 (for all models), A2 (for
	Nov 24	DFL-210/800/1600/2500	DFL-210/800/1600/2500), A3 (for
2.27.03	2010	DFL-260/860/1660/2560/2560G	DFL-210/800/1600), A4/A5 (for
		DFL-260E/860E	DFL-210), B1 (for DFL-260/860)
	Sep 13 2010		A1 (for all models), A2 (for
2.27.02		DFL-210/800/1600/2500	DFL-210/800/1600/2500), A3 (for
		DFL-260/860/1660/2560/2560G	DFL-210/800/1600), A4/A5 (for DFL-210), B1 (for DFL-260/860)
			A1 (for all models), A2 (for
2 27 01	July 5	DFL-210/800/1600/2500	DFL-210/800/1600/2500), A3 (for
2.27.01	2010	DFL-260/860/1660/2560/2560G	DFL-210/800/1600), A4/A5 (for
			DFL-210), B1 (for DFL-260/860)
	Max 14	DEL 210/200/1000/200	A1 (for all models), A2 (for
2.27.00	May 14 2010	DFL-210/800/1600/2500 DFL-260/860/1660/2560/2560G	DFL-210/800/1600/2500), A3 (for DFL-210/800/1600), A4/A5 (for
	2010		DFL-210), B1 (for DFL-260/860)
	May 4	DFL-160	A1/A2 (for all models), A3/A4/A5
2.26.02	Mar 4 2010	DFL-210/800/1600/2500	(for DFL-210/800/1600/2500),B1
	2010	DFL-260/860/1660/2560/2560G	(for DFL-260/860)
2.26.01	Jan 29	DFL-160	A1/A2 (for all models), A3/A4/A5
2.26.01	2010	DFL-210/800/1600/2500 DFL-260/860/1660/2560/2560G	(for DFL-210/800/1600/2500),B1 (for DFL-260/860)
	Sep 15,	DFL-210/800/1600/2500	A1 (for all models), A2/A3/A4/A5
2.26.00	2009	DFL-260/860/1660/2560/2560G	(for DFL-210/800/1600/2500)
2.25.01.28	July 15,	DFL-210/260/800/860/1600/2500	A1 (for all models), A2/A3/A4 (for
•	2009		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,	DFL-210/260/800/860/1600/2500	A1 (for all models), A2/A3/A4 (for
2.20.05	2008		DFL-210/800/1600/2500)
2.20.02	Jul 10,	DFL-210/260/800/860/1600/2500	A1 (for all models), A2/A3/A4 (for
	2008		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 v10.21.02 user Manual.* 

## Upgrading by using Web-UI

For detailed installation and upgrade instructions, please refer to the Firmware Upgrades chapter in the *NetDefend Firewall v10.21.02 User Manual.* 

Firmware Version	New Features
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:
	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

# **New Features:**

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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: 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 5

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		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
		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
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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.

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	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
-	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
	object.
2.30.01	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.
	9. Support for dynamic server addresses in SSL VPN. The SSL VPN server has
	been updated to support the sending of an optional domain name (FQDN) to
	the client that will be used to connect to the server.
	1. The D-Link DES-3528 switch can now be used by ZoneDefense.
2.27.02	2. A new log message has been added indicating that an ARP resolve query
	failed.
	3. The following browsers are now supported: Firefox 3+, Opera 10.5+, Safari
	3+, Internet Explorer 7+ and Chrome 4+.
2.27.01	1. A confirmation question will be prompted if the user attempts to execute a
2.27.01	CLI command that may cause system delays.



	1. Comming configuration chiegts into legical anyone makes it equips to
	1. Grouping configuration objects into logical groups makes it easier to
	manage large number of configuration objects. It is also possible to add a
	descriptive description and custom color to distinguish what these objects
	do. This grouping functionality is only for presentation and does not affect
	the existing functionality.
	2. Logging enabled by default on rules for the following objects: Access, DHCP
	Server, DHCP Relay, Routing Rule, Dynamic Routing Policy Rule, IDP Rule
	Action, IP Rule, OSPF Router Process, Threshold Action and User
	Authentication Rule.
	3. Static configuration objects default to their default values if the objects
	contain configuration errors. This will prevent the firewall to misbehave due
2.27.00	to configuration errors on static objects.
	4. The script command has been updated to handle adding objects with
	dependencies between each other.
	5. User authentication has been updated with a new authentication source that
	will grant access to the user without checking any credentials. This
	functionality can be used to authenticate users from within login scripts etc,
	to make auditing easier.
	6. All rule page layouts have been updated for how to enter the interface and
	network combination to be more intuitive.
	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]
	1. Added the possibility to disable and enable Ethernet interfaces using
	WebUser Interface.
2.26.02	2. Separate icon for User Authentication enabled objects.
	3. Improved file names for backup packages, including the configuration
	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

2.26.00 2.25.01.28	1. The name of the authenticated user is logged together with the requeste 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.
	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 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
	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
	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
2.25.01.22	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
	23. Multiple media connections for SIP Application Layer Gateway
	24. PPTP server support for multiple PPTP clients behind the same NAT gate
	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

	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. MTU can be configured for PPTP/L2TP Client Interfaces.

# Changes of Functionality:

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
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

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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.
17. The output from the "time -sync" command was shown in all active CLI
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.
2.60.02	1. No validation was done on hexadecimal pre-shared keys before pressing 'OK'
	on the configuration page. They are now validated to only accept
	hexadecimal strings.
	2. It was possible to create user authentication rules without giving them a
	name, but when saving the configuration an error was shown. The name is
	now required when adding the rule.
	3. The CLI command "dns" showed servers with an index value of 0 to 2. The
	servers are now listed with an index value of 1 to 3.
	4. The statistics value for connections in TCP_FIN state incorrectly also included
	TCP_OPEN.
	5. Long pipe names would disrupt the format of the CLI command "pipes
	-show".
	6. The VLAN interface statistics was reset on each reconfiguration.
	7. DHCP relay packets received on interfaces without configured DHCP relay
	could in some configuration scenarios be dropped.
	8. The "Add" button on the application control tab on an IP Policy was enabled
	even when application control was turned off. It is now enabled/disabled
	based on the application control slider.
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	9. Enabling IPv6 on a VLAN interface with IPv6 disabled in the global settings
	did not produce a configuration warning.
	10. Route monitoring using link status did not recover a disabled route after a
	reconfigure had been issued.
	11. Keep-alive set to "Auto" did not work on IPsec tunnels where the Remote
	Endpoint was a DNS name.
	12. SSH CLI sessions could not handle large amount of data being pasted or
	piped into the session.
	13. Connections scanned by IDP were sometimes broken at HA cluster
	configuration deployment.
	14. In the WebUI's L2TP/PPTP client page there was no way of configuring the
	Originator IP Type or Originator IP.
	15. It was not possible to change the index of an interface route that was created
	automatically by the system using the CLI.
	16. In case of timeout, a SIP session was terminated without notifying the UAC
	and the UAS. This is now fixed by sending a timeout message to the UAC
	and a cancel message to the UAS in order to notify them before terminating
	the session.
	17. The Application Control feature did not recognize the Sohu Video application
	correctly.
	18. Anycast IPv6 source addresses were treated as invalid by the firewall. In
	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 <i>Status-&gt;Run-time</i>
	information->Connections page were not applied when selected.
And	25. The CLI command "sipalg -connection" did not show information under the
	appropriate columns.
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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. 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

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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. 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 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
And the second	now always kept static and related temporarily assigned leases during
sules.	blacklist are cleared from the lease pool.
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<ul> <li>108. In certain rare scenarios, the H323 ALG could make the firewall reboot unexpectedly.</li> <li>109. The system would advertise the wrong IPv6 address when going active in a high availability scenario.</li> <li>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.</li> </ul>
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108. In certain rare scenarios, the H323 ALG could make the firewall reboot
the HTTP ALG together with Anti-Virus scanning.
107. On rare occasions the system could make an unexpected restart when using
and it was used as user name against an AD.
106. LDAP authentication was failing if the display Name of a user had a space
the correct 224.0.0.0-239.255.255.255 span.
range that included too many addresses. The range has been decreased to
105. The advanced IP setting to block multicast source addresses was covering a
"Logged in as" instead of the name or groups of the user(s).
104. The firewall's WebUI page showing authenticated users had the label
was confusing and has been improved.
103. The CLI tab completion when adding a Custom Option for a DHCP Server
when no ALG was in use.
102. The update center ping requests to update servers were incorrectly sent
interface.
101. It was not possible to send IPv6 packets through an L2TPv3 Server
was affected in a negative way.
100. When using a NAT Pool with a large amount of addresses, the performance
and there was an IDP database to be synchronized.
loop if the antivirus subscription had expired for at least one of the nodes,
99. One of the nodes in a High Availability cluster was entering a reconfiguration
reconfiguration when used together with Server Load Balancing.
98. The HostMonitor subsystem could cause an unexpected restart during
was incorrectly represented in the CLI and could not be reset.
97. Hardware statistics for Realtek interfaces of type "8169SC" and "8110SC"
"main".
96. The Log and Event receivers did not support using another routing table than
inactive node.
was an infinite loop of sending databases from the active node to the
95. When the UTM service expired on one of the members in an HA cluster there
are currently logging." even though such rules were configured.
94. The WebUI status page for IDP Log always printed "No IDP or Threshold rules

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	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.
the state of the state of the state	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
	There is a contract of the second y and not work as expected, STN ACIS
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<ul> <li>Request messages, despite being fully capable of receiving unicast replies.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>	
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145. NATed traffic sometimes used an old source IP address for connections	
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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 00-00-00-00-00-00. 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 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

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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.
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.	
	85. 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	
	renegotiations.	
	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'.
Burn Martin	8. The Local Gateway configured in an IPsec tunnel was not shown in the CLI
	command "ipsectunnels -iface" printout.

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		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.
			When using a large number of neighbors in nodes running OSPF, there was a
			rare possibility of memory corruption.
			A prompt was not added after various SSH printouts in the CLI.
ŀ	2.40.01	1.	Corrected leap year problem where leap year day was added to January
		1.	instead of February.
		2.	The log event no_arp (ID:04100007) firewall action text was previously
		۷.	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
		5.	command 'help ALG_SIP'.
		4.	An expired AV or IDP license in an HA environment could trigger unexpected
		ч.	behavior in the inactive cluster node.
		5.	Some web authentication scenarios could lead to unexpected behavior by
		5.	the firewall.
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		6.	The output text for the CLI command 'dns -list' was not formatted correctly
		7	when using SSH remote management.
		7.	The firewall did not handle lower and upper case correctly in some
		0	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
		0	active peer before the ReconfFailoverTime was reached.
		9.	Cancelling the HA wizard would result in unexpected behavior of the
		10	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.
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		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'
		CLI command.
		19. Log messages containing routing information used invalid values.
		20. Using the H323 ALG could in rare circumstances lead to unexpected
		behavior.
		21. An error in the configuration module could in rare occasions lead to
		unexpected behavior during the deployment of a new configuration.
		22. The output of the CLI command "ifstat" has been extended to list the shared
		MAC addresses on the interfaces of High Availability cluster nodes.
		23. Passwords for newly added users were not encrypted in the configuration
		file.
		24. OSPF MD5 authentication misbehaved when using ID other than 2.
		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 <b>CVE-2011-3389</b> in some popular web browsers
		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
Sidely		statistics to the Radius Accounting server.
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	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.
	6. Some scenarios made the firewall send malformed packets in an SSL
	negotiation.
	7. In a High Availability scenario it was not possible to log in to the firewall in
	order to download the SSL VPN client.
	8. The value "Password Attribute" for LDAP Servers could not be empty. It is now
	possible to create an LDAP Server with an empty "Password Attribute" field.
	9. The possibility to configure interface groups inside interface groups has been
	added.
	10. Routes monitored only by ARP were not marked as down when the link on the
	Ethernet interface was down. Affected models: DFL-260E and DFL-860E.
	11. Setting up a High Availability cluster using the "backup and restore" method
	would result in problems synchronizing the configuration because of an invalid
	interface configuration. The units now correctly handle that interface
	configuration by using information from the old configuration.
	12. Large VLAN tagged packets would be dropped by the RealTek R8169 driver.
	The driver has been updated to handle VLAN packets.
	Affected models: DFL-260E and DFL-860E.
	13. The RealTek R8169 interface reported wrong link speed for SNMP. The
	interface has been updated to report the correct speed.
	Affected models: DFL-260E and DFL-860E.
	14. The RealTek R8169 driver contained a watchdog that erroneously triggered
	too often and made the interface restart. The watchdog has been updated with a
	longer timer to prevent this from happening.
	Affected models: DFL-260E and DFL-860E.
2.30.01	Affected models: DFL-260E and DFL-860E.1. The firewall did not forward SIP registrations REQUEST with null values in the
2.30.01	
2.30.01	1. The firewall did not forward SIP registrations REQUEST with null values in the
2.30.01	1. The firewall did not forward SIP registrations REQUEST with null values in the "Authorization" field.
2.30.01	<ol> <li>The firewall did not forward SIP registrations REQUEST with null values in the "Authorization" field.</li> <li>The source port 20 is occupied when combining the SAT Action in an IP rule</li> </ol>
2.30.01	<ol> <li>The firewall did not forward SIP registrations REQUEST with null values in the "Authorization" field.</li> <li>The source port 20 is occupied when combining the SAT Action in an IP rule with the FTP ALG.</li> </ol>

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	4. SIP ALG would close SIP calls two minutes after the call session was
	established in some network scenario.
	5. The "Route Type" in "OSPF Actions" was incorrectly interpreted by the firewa
	when the configuration was activated.
	6. An unexpected restart could occur during a configuration deployment when new IPSec tunnels were added to the configuration.
	7. It was not possible to use all address object combinations in places like route or in the Address Book.
	8. The severity for the log message sslvpn_max_sessions_reached was
	incorrectly set to DEBUG, but has been changed to NOTICE.
	9. IP4Groups containing Userauth configured objects were not available for
	selection in IPRules. The IPRules have been updated to allow IP4Groups
	containing objects with Userauth.
	10. The TLS ALG rejected SSL HELLOs with zero or more than one compression
	method.
	11. Some cipher suite combinations prevented the AES256 algorithm to be used
	when establishing SSH administration sessions to the firewall.
	12. Some specially crafted SDP payloads could cause unexpected reboots of th
	firewall.
	13. The edit alternative for Comment Groups was not shown.
	14. The Web GUI page for interface status showed the Send Rate and Receive
	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.
-	1. The usage column in the DHCP Server status page has been updated to show active clients.
	2. References to UserAuth privileges for authenticated users could change when
	modifying the number of configured privileges.
2 27 22	3. The web server could under certain conditions deadlock and print a "500 -
2.27.03	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.
		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
		source, could in very rare scenarios cause the firewall to malfunction during
		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
	2.27.02	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
14:		change speeds up the process of receiving a new IP address lease in these
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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. 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. 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. 2.27.01 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. dlinklareen



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	<ul> <li>8. The log message sent when reclassifying a URL using Web Content Filtering showed the wrong category. The log message has been updated to display the correct category.</li> <li>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.</li> <li>10. Checked checkbox properties that were disabled were unchecked when submitting data in the Web User Interface (since information sent by a web</li> </ul>
	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.
	<ol> <li>The IP4 Group object didn't handle excluded addresses correctly. It's now possible to use excluded and included objects in the correct way.</li> <li>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.</li> <li>Some HTTP headers could cause HTTP connections through the HTTP ALG to be closed down prematurely.</li> <li>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.</li> </ol>
2.27.00	<ol> <li>The SMTP ALG did not accept response codes that only contained numeric data.</li> <li>Browsing the Web User Interface over HTTPS would sometimes result in "Error 500 - Internal server error".</li> </ol>
	<ol> <li>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.</li> <li>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</li> </ol>
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<ul> <li>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.</li> <li>10. A limitation on the number of simultaneous WebAuth transaction could prevent the authentication of authorized users.</li> <li>11. The IP Rule view in the Web User Interface was slow when viewing large collection of rules. The rendering speed has been improved.</li> </ul>
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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]
1. The "range" parameter in the "rules" CLI command did not work.
2. The CLI command "dns -query" only returned one IP address even though the
DNS Record contained multiple entries.
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".
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Γ		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.
Ē		[DFL-210/260/800/860/1600/1660/2500/2560/2560G]
		1. A configuration that contains a routing table loop could lead to the watchdog
		being triggered. Now the configuration will fail to be activated with the following
		message: "Dynamic routing configuration error, possible configuration loop".
		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
	2.26.01	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
33/1/2		functionality was enabled. The database can now be updated even though no
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	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
	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
2.26.00	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
	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
	<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
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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.
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.

# **D-Link** NetDefend Firewall Firmware Release Notes

		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 andIgnore 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
		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
	2.25.01.22	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
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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 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.

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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 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.

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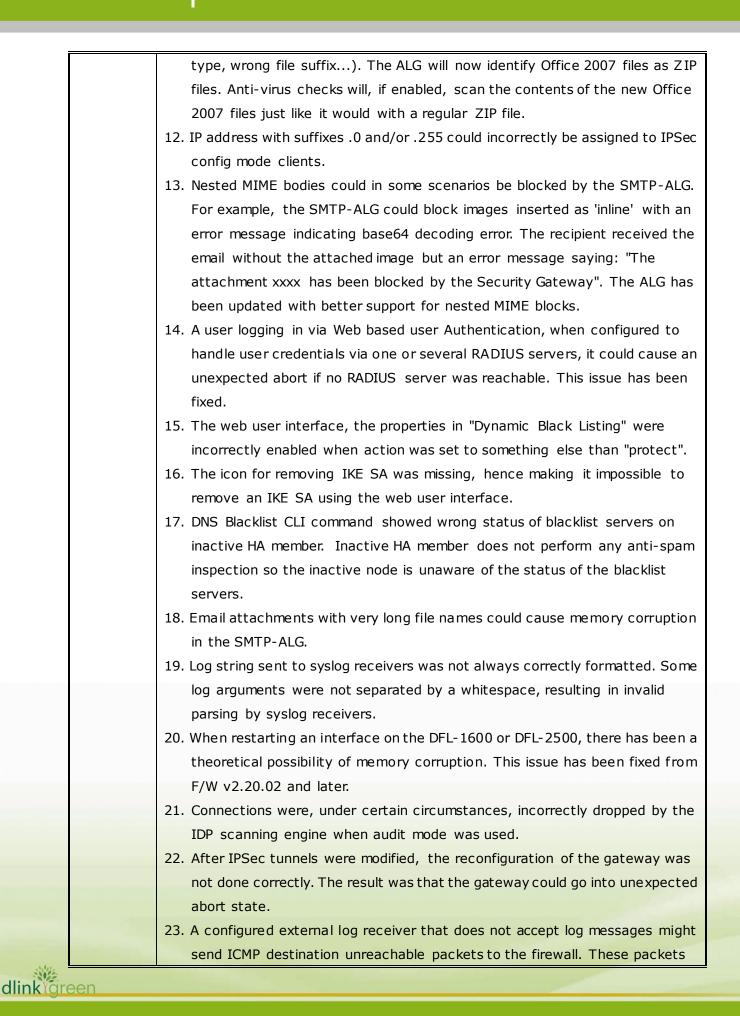
39. There was a dependency between link monitors which resulted in that the effective ping interval was reduced for each new link monitor configured. 40. The CLI was missing a quick and easy way to list the available runtime services. A 'services' CLI command has been added. This command lists the runtime 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. 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

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	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
	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
Notes-	parameter is copied from the configured interface.
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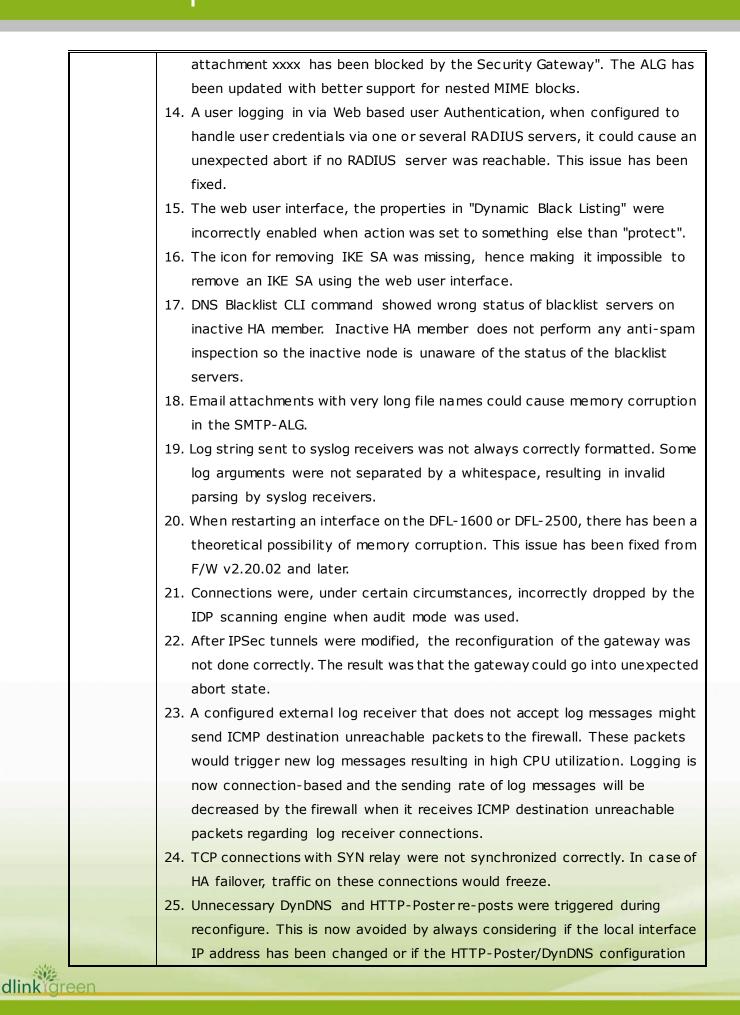
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		66. The PPPoE client option "Force Unnumbered PPPoE" did not force
		Unnumbered PPPoE to be used.
		67. Under certain Traffic Sapping settings, lower precedences stop forwarding
		traffic when higher precedences start forwarding traffic.
		68. Configurations 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
		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.
		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
	2.20.03	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
	Second Second	fact ZIP files with a different extension). An ALG configured to make file
		integrity checks would therefore signal these files as invalid (wrong mime
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		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
		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.
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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



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 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.

### Known Issues:

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Firmware Version	Known Issues
10.21.02	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
and the second s	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
		is a small chance that the IDP engine causes false negatives during an HA
		failover.
		SSL VPN client 1.1.1
		1. The client would sometimes terminate unexpectedly when displaying a balloon
		tooltip.
		2. It is now only possible to choose connect in the menu if not already connected
		and vice versa.
		3. The persistent gateway route configured on the tunnel interface was not
		properly torn down on disconnect.
	2.60.02	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
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	(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.
	A. Inactive HA member cannot send log events over tunnels.
	B. Inactive HA member cannot be managed / monitored over tunnels.
	C. 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 clients will re-establish their tunnels after the tunnels are deemed
	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	1. SSL VPN: Outer interface 'any' limitation: If the SSL VPN interface is
	configured with the outer interface 'any' option, SSL VPN will be disabled.
	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
	uploaded.
	5. 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.
	D. Inactive HA member cannot send log events over tunnels.
Surris	E. Inactive HA member cannot be managed / monitored over tunnels.
	F. OSPF: If the cluster members do not share a broadcast interface so that
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		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.
	6.	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.
	7.	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.
2.40.02	1.	If the SSL VPN interface is configured with the outer interface 'any' option,
		SSL VPN will be disabled.
	2.	Don't support the latest protocol used by oray.net Peanut Hull clients.
	3.	Transparent Mode won't 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,
		L2TP and GRE tunnels.
	7.	If the cluster members do not share a broadcast interface so that the
		inactive node can learn about OSPF state, OSPF failover over VPN 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.	No aspects of the IDP signature states are synchronized in HA modes.
2.40.01	1.	If the SSL VPN interface is configured with the outer interface 'any' option,
		SSL VPN will be disabled.
	2.	Don't support the latest protocol used by oray.net Peanut Hull clients.
	3.	Transparent Mode won't 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,
		L2TP and GRE tunnels.
	7.	If the cluster members do not share a broadcast interface so that the
		inactive node can learn about OSPF state, OSPF failover over VPN tunnels
		uses normal OSPF failover rather than accelerated (<1s) failover. This
		means 20-30 seconds with default settings, and 3-4 seconds with more

## **D-Link** NetDefend Firewall Firmware Release Notes

	aggrossively tupod OSPE timings
	aggressively tuned OSPF timings.
2 40 00	8. No aspects of the IDP signature states are synchronized in HA modes.
2.40.00	1. Don't support the latest protocol used by oray.net Peanut Hull clients.
	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.
	8. No aspects of the IDP signature states are synchronized in HA modes.
2.30.01	1. Don't support the latest protocol used by oray.net Peanut Hull clients.
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	LAN.
	8. No aspects of the IDP signature states are synchronized in HA modes.
	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
2.27.03	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

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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.
		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
		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
		fallback) occurs each time a new configuration is uploaded.
	2.27.02	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
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	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
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	IDP signature states are synchronized. This means that there is a small chance
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	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.
2.27.01	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
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	that the IDP engine causes false negatives during an HA failover.
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2.27.00	1. The Oray.net Peanut Hull client does not work after they changed the protocol

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		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
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		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
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		OSPF timings.
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		that the IDP engine causes false negatives during an HA failover.
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		synchronization for Transparent Mode and there is no loop avoidance.
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		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
	2.26.02	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.
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		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
		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
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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. 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.
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		cluster fails over to the other peer. if, however, the cluster fails back over to the
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		cluster cannot communicate over IPsec, PPTP, L2TP and GRE tunnels, as such
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	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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	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
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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.
	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.
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	IDP signature states are synchronized. This means that there is a small chance
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	2. HA: Transparent Mode won't work in HA mode There is no state
	synchronization for Transparent Mode and there is no loop avoidance.
2.25.01.28	3. HA: No state synchronization for ALGs No aspect of ALGs are state
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	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.
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		clients will re-establish their tunnels after the tunnels are deemed
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		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.
		4. HA: No state synchronization for ALGs No aspect of ALGs are state
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		cluster fails over to the other peer. if, however, the cluster fails back over to
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		associated transfers) should begin working again. Note that such failover
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		cannot communicate over IPsec, PPTP, L2TP and GRE tunnels, as such
		tunnels are established to/from the active node.
		6. Inactive HA member cannot send log events over tunnels.
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		inactive node can learn about OSPF state, OSPF failover over tunnels uses
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	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
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	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.
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	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
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	cannot communicate over IPSec, PPTP, L2TP and GRE tunnels, as such
	tunnels are established to/from the active node.
2.20.03	• Inactive HA member cannot send log events over tunnels.
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	• 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
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### **Related Documentation:**

- NetDefend Firewall User Manual v10.21.02
- NetDefend Firewall CLI Reference Guide v10.21.02
- NetDefend Firewall Logging Reference Guide v10.21.02
- NetDefend Firewall Application Control Sig v10.21.02

