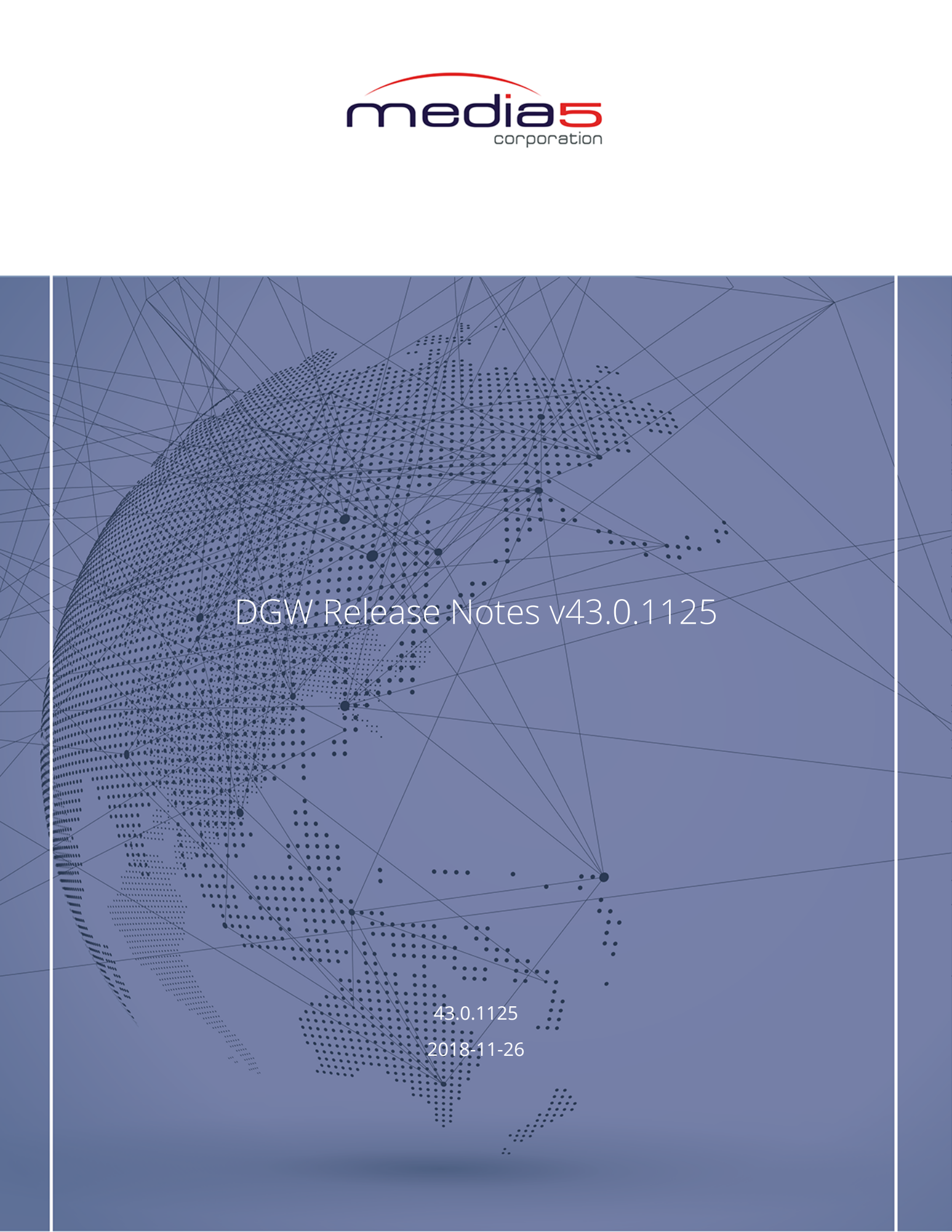


The background of the page is a dark blue field filled with a complex network of thin, light blue lines connecting numerous small black dots. These dots are arranged in a way that suggests a global map, with higher concentrations of dots and connections in the North Atlantic and Europe. The overall effect is a sense of a vast, interconnected network.

DGW Release Notes v43.0.1125

43.0.1125
2018-11-26

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Firmware Pack

The firmware pack is a binary file that contains the modules and the features to install on your Mediatrix unit when a new release is available.

New Functionalities

Incident #	CR #	Synopsis	Applies To
Description			
IN-13430	DGW-9151	Support the %serial% macro for the serial number.	Cert, Conf, SipEp, and Hoc
The %serial% macro is now supported for the serial number.			
---	DGW-8778	Added support of security mechanism agreement" (RFC 3329) for media (draft-dawes-sipcore-mediasec-parameter-08).	SipEp
The security mechanism agreement for media as defined in draft-dawes-sipcore-mediasec-parameter-08 and RFC 3329 is now supported. The feature can be activated with the SipEp.MediaSecurityAgreementEnable parameter.			
---	DGW-8324	Add the Image Format parameter for the creation of a virtual machine (VM)	Vm
The Image Format parameter allows the user to choose a VM image format when creating a VM image. The new parameter is available in the DGW Web interface under System/VM in the Virtual Machine Creation table. Possible values are: • raw which is the default value • qcow2			
---	DGW-8173	New versioning schematic of DGW 2.0 application.	all
The DGW 2.0 application is renamed DGW. Refer to the DGW Software Numbering Convention technical bulletin published on our documentation portal.			
---	DGW-8138	Added the functionality for FXS endpoints to play local ringback after receiving a 18x provisioning response with SDP if no RTP is received.	FXS
The new functionality allows an FXS endpoint to play a local ringback after receiving a 18x provisioning response if no RTP is received. The functionality is configurable with the Pots.FxsInteropPlayLocalRingbackWhenNoMediaStream parameter. Note: The new FxsInteropPlayLocalRingbackWhenNoMediaStream parameter is available in Cwmp but not in the DGW Web page.			
---	DGW-8090	Add the possibility for the Vm service to convert an existing VM image from a file format to another (QCOW2 or RAW).	Vm

Incident #	CR #	Synopsis	Applies To												
Description															
The "Vm.ConvertVmImage" command allows to convert an existing VM image into QCOW2 or RAW file format. The command can also compress the VM image and remove the existing image following the creation of the new converted VM image file.															
---	DGW-8069	Virtual machines (VM) should be properly shut down before restarting the Mediatrix unit.	Vm												
When the Mediatrix unit is shut down, then a process now allows the unit to properly close the virtual machines. The new Vm.ShutdownTimeout parameter was added to configure the maximum amount of time allowed for a VM to stop. this parameter is not available in the DGW Web page.															
---	DGW-7742	Allow the user to tie the SIP gateways to the physical link state of the E1T1 lines.	all												
SIP gateways can now be tied to the physical link state of the E1T1 lines.Two new parameters were created for this purpose: EpAdm.DisableSipGatewaysWhenTrunkLinesDown, available in the DGW Web interface under System/Endpoints EpAdm.DisableSipGatewaysWhenTrunkLinesDownToggleDelay, not available in the DGW Web interface.															
<table><tr><th colspan="3">Administration</th></tr><tr><td>Disable Unit (All Endpoints) When No Gateways Are In State Ready:</td><td></td><td> Disable </td></tr><tr><td>Shutdown Endpoint When Operational State is Disable And Its Usage State Is 'idle-unusable':</td><td></td><td> Enable </td></tr><tr><td>Disable All Gateways When Trunk Lines Are Down:</td><td></td><td> Enable </td></tr></table>				Administration			Disable Unit (All Endpoints) When No Gateways Are In State Ready:		Disable	Shutdown Endpoint When Operational State is Disable And Its Usage State Is 'idle-unusable':		Enable	Disable All Gateways When Trunk Lines Are Down:		Enable
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Disable All Gateways When Trunk Lines Are Down:		Enable													
If the EpAdm.DisableSipGatewaysWhenTrunkLinesDown parameter is enabled, all SIP gateways will stop on the unit if the physical link state of all E1T1 interfaces are down. If at least one E1T1 is up again, all SIP gateways are restarted.															
---	DGW-6920	Update OpenSSL to version 1.0.2 LTS.	all												
OpenSSL was updated to version 1.0.2 LTS.															
---	DGW-6044	Add a parameter to indicate the number of DSPs present on the unit.	all												

Incident #	CR #	Synopsis	Applies To																						
Description																									
The new Dcm.TotalNumberOfDsp parameter was added to indicate the number of DSPs present on the Mediatrix unit. The parameter is displayed in the DGW Web page under System/Information.																									
Mediatrix System Network SIP Proxy SBC ISDN POTS SIP Media Telephony Call Router Management Reboot Information Services Hardware Endpoints Event Log Local Log Packet Capture Diagnostic VM Information																									
<table><tr><th colspan="2">Current Status</th></tr><tr><td>Device Identification:</td><td>Mediatrix Sentinel</td></tr><tr><td>Firmware:</td><td>Dgw 43.0.1018</td></tr><tr><td>Profile:</td><td>STNL-MX-D2000-183</td></tr><tr><td>MAC Address:</td><td>0090f80b0848</td></tr><tr><td>Serial Number:</td><td>000400000M337150001</td></tr><tr><td>Number of DSPs:</td><td>4</td></tr><tr><td>Storage Memory (in use/total):</td><td>8 GB / 56 GB</td></tr><tr><td>Volatile Memory (in use/total):</td><td>313.3 MB / 4 GB</td></tr><tr><td>System Uptime (D:HH:MM:SS):</td><td>0:00:50:45</td></tr><tr><td>System Time (DD/MM/YYYY HH:MM:SS):</td><td>10/07/2018 15:40:15</td></tr></table>				Current Status		Device Identification:	Mediatrix Sentinel	Firmware:	Dgw 43.0.1018	Profile:	STNL-MX-D2000-183	MAC Address:	0090f80b0848	Serial Number:	000400000M337150001	Number of DSPs:	4	Storage Memory (in use/total):	8 GB / 56 GB	Volatile Memory (in use/total):	313.3 MB / 4 GB	System Uptime (D:HH:MM:SS):	0:00:50:45	System Time (DD/MM/YYYY HH:MM:SS):	10/07/2018 15:40:15
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Modified Features, Functionalities and Interface Modifications

Incident #	CR #	Synopsis	Applies To				
Description							
---	DGW-9319	Vulnerability on Web pages may cause unexpected behavior.	Web				
IN-13430	DGW-9151	Support the %serial% macro for the serial number.	Cert, Conf, SipEp, and Hoc				
The %serial% macro is now supported for the serial number.							
---	DGW-8778	Added support of security mechanism agreement" (RFC 3329) for media (draft-dawes-sipcore-mediasec-parameter-08).	SipEp				
The new SipEp.MediaSecurityAgreementEnable parameter is available in the DGW Web page under the SIP/Misc/Security Mechanism Agreement table and by the CWMP protocol.							
<table><tr><th colspan="2">Security Mechanism Agreement</th></tr><tr><td>Media Security Agreement:</td><td> Disable </td></tr></table>				Security Mechanism Agreement		Media Security Agreement:	Disable
Security Mechanism Agreement							
Media Security Agreement:	Disable						
---	DGW-8765	Mismatch with selected Cipher suite in NLM service and proposed ciphers in Client Hello sent to server.	Conf, Cert, Cwmp, File, Fpu, Nlm, and Web.				
Removed 7 weak and insecure ciphers from all cipher suites:							
• TLS_DHE_RSA_WITH_DES_CBC_SHA • TLS_DHE_DSS_WITH_DES_CBC_SHA • TLS_RSA_WITH_DES_CBC_SHA • TLS_DHE_RSA_EXPORT_WITH_DES40_CBC_SHA • TLS_DHE_DSS_EXPORT_WITH_DES40_CBC_SHA • TLS_RSA_EXPORT_WITH_DES40_CBC_SHA • TLS_RSA_EXPORT_WITH_RC4_40_MD5							
IN-13345	DGW-8245	The Sbc service Event logs displays wrong time and date.	Sbc				
All Sbc logs will display time only in UTC.							

Incident #	CR #	Synopsis	Applies To
Description			
---	DGW-8060	Requests for the TR-069 Get parameter not working for part of the tree.	Cwmp
When the Sip.RegistrationStatus table is empty the request will be completed with success and the status will be set to error.			
IN-13135	DGW-7957	The provided DHCP option 66 script fails to execute encrypted scripts.	Conf
Now the DHCP options 66, 67, and 43 can use an encrypted script.			
IN-13311	DGW-7912	The Refer-To header does not include transport information.	SipEp
New SipEp.ReferToHeaderUriSource parameter.			
IN-13228	DGW-7597	The device can accept and return a codec with an unsupported clock rate received in a SDP offer.	all
Offers with unsupported clock rates are no longer accepted.			
IN-13217	DGW-7572	SIP calls take too long to establish because Mediatrix unit makes AAAA queries and no DNS server responds.	SipEp
The new SipEp.DnsIpVersion parameter was added.			
---	DGW-6044	Add a parameter to indicate the number of DSPs present on the unit.	all
The new Dcm.TotalNumberOfDsp parameter was added to indicate the number of DSPs present on the Mediatrix unit. The parameter is displayed in the DGW Web page under System/Information.			

[Show Help](#) | [Log Out](#)

System
■ Network ■ SIP Proxy ■ SBC ■ ISDN ■ POTS ■ SIP ■ Media ■ Telephony ■ Call Router ■ Management ■ Reboot

Information
Services
Hardware
Endpoints
Event Log
Local Log
Packet Capture
Diagnostic
VM

✦ Information

Current Status	
Device Identification:	Mediatrix Sentinel
Firmware:	Dgw 43.0.1018
Profile:	STNL-MX-D2000-183
MAC Address:	0090f80b0848
Serial Number:	00040000M337150001
Number of DSPs:	4
Storage Memory (in use/total):	8 GB / 56 GB
Volatile Memory (in use/total):	313.3 MB / 4 GB
System Uptime (D:HH:MM:SS):	0:00:50:45
System Time (DD/MM/YYYY HH:MM:SS):	10/07/2018 15:40:15

Incident #	CR #	Synopsis	Applies To
Description			
IN-13236	DGW-8444	Unable to select the transport protocol in a Call Agent via the DGW Web page when a gateway is selected.	Sbc
The configuration of the Force Transport parameter via the Web page for a Call Agent will be enabled at all times.			
---	DGW-8324	Add the Image Format parameter for the creation of a virtual machine (VM)	Vm
New notification message when more than one VM image shares the same VM name.			
IN-13236	DGW-8161	The SBC must provide additional control for the value of the Contact used in SIP dialogs.	Sbc
Two new actions are available for SBC Call Agent rulesets:			
• Keep Contact user • Set Contact-URI user			
IN-13390	DGW-8108	The warning message returned by the set command executed by the SnmpEx.Access.Command is interpreted as an error.	Snmp
The SnmpEx.Access.Command (1.3.6.1.4.1.4935.1000.100.200.100.900.1.100.1.100.200.0) now interprets the warning message returned by an executed set command as a success.			
---	DGW-8090	Add the possibility for the Vm service to convert an existing VM image from a file format to another (QCOW2 or RAW).	Vm
• New notification and configuration messages about VM conversion. • New Vm.ConvertVmImageResult status parameter about VM conversion.			

Incident #	CR #	Synopsis	Applies To																																																																																																																																					
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New Vm traces filter, under the System/Event Log/Diagnostics Traces/Services																																																																																																																																								
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The new Vm.ShutdownTimeout parameter was added to configure the maximum amount of time allowed for a virtual machine to stop when the unit is restarted.																																																																																																																																								
IN-13324	DGW-7960	The AutoConfigure command must be able to be executed on a specific telephony card.	Isdn, R2 and Eam																																																																																																																																					
New Interface argument was added to the AutoConfigure command for the ISDN, R2 and Eam services. Also, there is a new drop-down list in the Web Page under ISDN/Status/Auto																																																																																																																																								

Incident #	CR #	Synopsis	Applies To
Description Configuration table that allows the user to chose the interface that will be auto-configured.			
IN-13236	DGW-7942	The Sbc service is removing parameters of the SIP Contact header, causing interoperability issues.	Sbc
Three new actions are available for Sbc Call Agent Rulesets: • Forward Contact-HF parameters • Set Contact-HF parameter whitelist • Set Contact-HF parameter blacklist			

Issues Fixed

Incident #	CR #	Synopsis	Applies To
Description			
---	DGW-9319	Vulnerability on Web pages may cause unexpected behavior.	Web
Add protection to fix this vulnerability on all Web pages.			
IN-13430	DGW-9085	TLS Persistent Port remains at base port 16000 when the maximal interval is reached.	SipEP
When the TLS Persistent Port uses the base port 16000 after maximum interval is reached, it will now continue to increment itself for a new cycle.			
---	DGW-8920	Incorrect usage of SipEp.Authentication entries with empty authentication username.	SipEp
When receiving authentication challenges, the unit was attempting to use the entries of SipEp.Authentication with an empty authentication username, which resulted into re-issuing the SIP request without an authentication header, which is incorrect. When receiving authentication challenges, entries of SipEp.Authentication with an empty authentication username are now ignored.			
---	DGW-8888	Missing displayed information in the Command Line Interface (CLI).	CLI
When a new CLI connection is established and when the sysinfo command is issued in the CLI, new information is now displayed:			
- the number of DSPs - the profile name.			
---	DGW-8883	The Mediatrix G7, S7, S7LP, and Sentinel 100 may become unstable over time. See the Quality Assurance Warning publication QAW-18-02 for more details.	all
The Mediatrix G7, S7, S7LP, and Sentinel 100, affected by the hardware problem, will now use a maximum speed of 100 Mbps for the ETH 1 Ethernet port. It is possible to disable this speed reduction with the consequence that the hardware may become unstable.			
---	DGW-8765	Mismatch with selected Cipher suite in NLM service and proposed ciphers in Client Hello sent to server.	Conf, Cert, Cwmp, File, Fpu, Nlm, and Web.

Incident #	CR #	Synopsis	Applies To
Description			
After updating OpenSSL, the weak and insecure ciphers were removed from all cipher suites in all services that used them. Sip Signaling is not affected because it does not use the 7 removed ciphers which are: • TLS_DHE_RSA_WITH_DES_CBC_SHA • TLS_DHE_DSS_WITH_DES_CBC_SHA • TLS_RSA_WITH_DES_CBC_SHA • TLS_DHE_RSA_EXPORT_WITH_DES40_CBC_SHA • TLS_DHE_DSS_EXPORT_WITH_DES40_CBC_SHA • TLS_RSA_EXPORT_WITH_DES40_CBC_SHA • TLS_RSA_EXPORT_WITH_RC4_40_MD5 The following parameters were updated: • Cert.TransferHttpsCipherSuite • Conf.scriptsTransferCipherSuite • Conf.imageTransferCipherSuite • Cwmp.transportHttpsCipherSuite • File.transferHttpsCipherSuite • Fpu.mfpTransferCipherSuite • Nlm.pCaptureTransferCipherSuite • Web.httpsCipherSuite			
---	DGW-8641	OCSP URL override is not applied when uploading PCapture files with TLS.	Nlm
The OCSP override (Cert.CertificateAuthoritiesOverrideIssuedCertificateOcsUrl) is now properly applied when using TLS to upload PCapture files.			
IN-13570	DGW-8620	DGW Web UI no longer responds when a VM image download is cancelled.	Web
After canceling a large file download, the DGW Web Interface froze as if the file was still downloading. The Web service is now able to recognise that a download has been cancelled, and the DGW Web interface remains responsive when continuing browsing.			
IN-13536	DGW-8491	Error log sent indicating that the Floppy disk cannot be accessed.	VM
As floppy disks are not supported, after the VM is started, the guest OS will no longer display error logs.			

Incident #	CR #	Synopsis	Applies To
Description			
IN-13236	DGW-8444	Unable to select the transport protocol in a Call Agent via the DGW Web page when a gateway is selected.	Sbc
When a gateway is selected in a Call Agent, the configuration of the Force Transport parameter via the DGW Web page was disabled, now it is enabled.			
---	DGW-8352	The Mediatrix G7, S7, S7LP, and Sentinel 100 may become unstable over time. See the Quality Assurance Warning publication QAW-18-02 for more details.	all
The Mediatrix G7, S7, S7LP, and Sentinel 100, affected by the hardware problem, will now use a maximum speed of 100 Mbps for the ETH 1 Ethernet port. It is possible to disable this speed reduction with the consequence that the hardware may become unstable.			
IN-13345	DGW-8245	The Sbc service Event logs displays wrong time and date.	Sbc
When the configured time zone was different than EST and UTC, time and date displayed in the Sbc service Event logs were wrong. Time and date of all Sbc logs are now only displayed in UTC.			
IN-13463	DGW-8236	Busy tone not detected on the FXO line.	FXO
Busy tone is now detected on the FXO line.			
IN-13401	DGW-8168	Single file firmware upgrade fails when data block sizes are small.	Fpu
Small data block sizes are now handled properly. Upgrading the firmware with the Single file feature is now always successful no matter the size of the data blocks.			
IN-13236	DGW-8161	The SBC must provide additional control for the value of the Contact used in SIP dialogs.	Sbc
Two new SBC Call Agent Ruleset actions were added to provide a better control of the value of the Contact used in SIP dialogs			
• Keep Contact user • Set Contact-URI user			
IN-13390	DGW-8108	The warning message returned by the set command executed by the SnmpEx.Access.Command is interpreted as an error.	Snmp

Incident #	CR #	Synopsis	Applies To
Description			
The SnmpEx.Access.Command (1.3.6.1.4.1.4935.1000.100.200.100.900.1.100.1.100.200.0) was interpreting the warning message returned by an executed set command as an error. The warning message is now interpreted as a success and not an error, as it should.			
IN-13236	DGW-8081	Unable to start a VM using an ISO image uploaded from the DGW Web interface.	Web
Uploading a file via the DGW Web page introduced an additional byte in the header of the file. A file uploaded via the DGW Web page is now the same as the original file. VMs can now be started using an ISO image uploaded form the DGW Web interface.			
---	DGW-8060	Requests for the TR-069 Get parameter not working for part of the tree.	Cwmp
The GetParameterValue command for the Device.Services.VoiceService parameter was returning a Request Denied when the Sip.RegistrationStatus table was empty. Now the request will be completed with success and the status will be set to error.			
IN-13353	DGW-8027	Firmware upgrades sometimes fail when memory on unit is low.	all
Firmware upgrades are now carried out as expected.			
IN-13093, IN-13658, and IN-13408	DGW-7972	System closes unexpectedly when a second caller's callerID is displayed during a call waiting scenario	all
In G 729 or G 723.1., during a call waiting scenario, the second caller's callerID is now displayed without closing the system.			
IN-13324	DGW-7960	The AutoConfigure command must be able to be executed on a specific telephony card.	Isdn, R2 and Eam
By default, the AutoConfigure command ran on all telephony cards associated with a service (i.e. ISDN, R2, or E and M). Now, if the Interface argument is given, the AutoConfigure command runs only on the specified telephony card. A new drop down list was added to the ISDN/Status/			

Incident #	CR #	Synopsis	Applies To
Description Automatic configuration table to allow users to choose the interface that will be auto-configured. Status Automatic Configuration Status: --- All --- Last Result: --- All --- Start Sensing ISDN Preset Configuration Local Preset: --- Suggestion --- Preset Name: Apply Save			
IN-13135	DGW-7957	The provided DHCP option 66 script fails to execute encrypted scripts.	Conf
The DHCP option 66 could not execute a script when it was encrypted. Encrypted scripts are now successfully executed with all 66, 67, and 43 supported options. Note that The Config.ScriptsSecretKey must contain the key for decryption.			
IN-13236	DGW-7942	The Sbc service is removing parameters of the SIP Contact header, causing interoperability issues.	Sbc
The Sbc service was removing the parameters of the SIP Contact header.To allow greater control over SIP Contact parameters, new Sbc Call Agent Ruleset actions were added.The following new Call Agent Ruleset actions were added to control which Contact header parameters are relayed: - Forward Contact-HF parameters - Set Contact-HF parameter whitelist - Set Contact-HF parameter blacklist			
IN-13311	DGW-7912	The Refer-To header does not include transport information.	SipEp
The new SipEp.ReferToHeaderUriSource parameter allows to select on which URI will be based the URI inserted in the Refer-To headers in the call transfers. When set to ContactUri, if a transport parameter is present in the Contact, it will be put along the URI in the Refer-To header. This parameter is not available in the DGW Web interface.			
---	DGW-7845	Writing diagnostic logs could fail on the Sentinel 400 when large Virtual Machines were present.	Sentinel 400

Incident #	CR #	Synopsis	Applies To
Description			
On the Sentinel 400, when large VMs were present, the calculation of available space to write diagnostic files was incorrect and could prevent writing diagnostic files to flash storage. The calculation of available space was fixed to prevent this problem.			
IN-13135	DGW-7830	Missing transport parameter in Record-Route headers issued by the SipProxy causes SIP phones to use incorrect transport.	SipProxy
SipProxy does not put the transport parameter in the record-route headers, even when transport is TLS. Absence of a transport parameter means that transport is UDP. This caused some devices to use UDP instead of TLS when replying to SipProxy. The SipProxy now adds the transport parameter in the Record-Route headers when the transport is TLS.			
IN-13228	DGW-7597	The device can accept and return a codec with an unsupported clock rate received in a SDP offer.	all
The device now validates the clock rate in addition to the codec name when trying to find a compatible codec in the SDP rtpmap.			
IN-13217	DGW-7572	SIP calls take too long to establish because Mediatrix unit makes AAAA queries and no DNS server responds.	SipEp
The Mediatrix unit always starts DNS resolution of SIP FQDNs with AAAA queries. In environments that do not support IPV6, this introduces excessive delays when the DNS server does not respond to AAAA queries. To solve this problem, the units can now be configured to skip AAAA queries when resolving SIP FQDNs.			
IN-13065, IN-13216	DGW-7338	When a MTU value different than 1500 is specified for a network interface, the network connection stops working on the next restart.	all
The initialisation procedure of the network card was corrected to fix configuration order issues. Setting the MTU value under Network/Interface/Ethernet Link configuration now works as expected.			
IN-13114	DGW-7051	T.38 fax negotiation through the SBC fails.	SBC
T.38 negotiation failed because the INVITEs involved in T.38 represented media transport as UDPTL instead of udptl. Lowercase was corrected, and T.38 fax negotiation no longer fails.			
---	DGW-7027	Unable to download large VM images with some browsers.	VM
It is now possible to download large VM images using the File service.			

Incident #	CR #	Synopsis	Applies To
Description			
---	DGW-6681	The SBC allows all TLS connections even when no CA certificate is provided.	SBC
A new CertificateValidation parameter was added to configure this behavior. When the CertificateValidation parameter is set to: - NoValidation, all connections are accepted without validation done on the received certificate. - HostName, host validation will be done if a CA certificate is provided and no TLS connection is allowed if no CA certificate is provided.			
IN-12979	DGW-6446	There is no Universally Unique Identifier (UUID) available in the VM guest.	VM
When the Virtual Machine is started, a UUID is now provided in the Vm guest. Its value is based on the Mediatrix unit MAC address and the VM MAC address.			
---	DGW-6421	No error message is returned when the syntax of the Cdr syslog format is invalid.	all
A message is now returned when the syntax of the Cdr syslog format is invalid.			

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