



Dgw v2.0 Application Release Notes

Dgw 2.0.32.599

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Firmware Pack

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

When unzipping the firmware pack, the content is extracted according to a pre-defined tree architecture. This creates a directory that contains the files required for the Mediatrix unit to properly upgrade its firmware.

Your Product Version

You must first verify if this Release Notes applies to your product.

The Release Notes does not necessarily concern all Mediatrix products. Therefore, you must verify in the appropriate Mediatrix product table to validate that this Release Notes applies to your product model. If your product is not listed, then it is not concerned by this Release Notes.

- [Mediatrix Sentinel \(p. 6\)](#)
- [Mediatrix 3000 Series Gateway \(p. 6\)](#)
- [Mediatrix 4100 Series Gateways \(p. 7\)](#)
- [Mediatrix 4400 Series Digital Gateways \(p. 8\)](#)
- [Mediatrix C7 Series Gateways \(p. 8\)](#)
- [Mediatrix LP Series \(p. 8\)](#)

Mediatrix Sentinel

Sentinel bundles the capabilities of a Session Border Controller and a Media Gateway. Robust and field - upgradable, this multi-service business platform is designed for medium and large enterprises. Sentinel is ideally targeted for applications ranging from 30 to 600 simultaneous sessions. Sentinel delivers a flexible architecture designed to address a variety of applications including security, demarcation point, SIP normalisation and survivability.

Module	Interfaces
Base Unit	<ul style="list-style-type: none"> • 1 WAN + 4 LAN Gigabit Ethernet • 8 slots for telephony cards • 3 SBC session licenses
Telephony Cards (optional)	<ul style="list-style-type: none"> • PRI Port card (004-00096-00) • 4 x FXS Ports card (004-00085-00) • 4 x FXO Ports card (004-00087-00) • DSP card (needed when using FXS, FXO or BRI) • 2 x BRI card (available soon)
SBC Licenses	<ul style="list-style-type: none"> • Individual sessions • 10 session package • 100 session package • Transcoding (available soon) • Voice Recording (available soon) • WebRTC gateway (available soon)

Mediatrix 3000 Series Gateway

The Mediatrix 3000 Series Gateways allow enterprises to lower communication costs over any IP link. The platform supports ISDN E1 and T1-PRI telephony interfaces, ISDN BRI interfaces, as well as analog FXS/

FXO interfaces. They provide an ideal solution for enterprise voice applications or for connecting to a service provider's broadband access.

Mediatrrix Number	Interfaces
Mediatrrix 3208	1 card with 6 FXO and 2 FXS ports
Mediatrrix 3216	2 cards with each 6 FXO and 2 FXS ports
Mediatrrix 3308	1 card with 1 FXO and 7 FXS Lines
Mediatrrix 3316	2 cards with each 1 FXO and 4 FXS Lines
Mediatrrix 3404	5 BRI ports
Mediatrrix 3408	10 BRI ports
Mediatrrix 3531	1 T1-PRI port
Mediatrrix 3532	2 T1-PRI ports
Mediatrrix 3621	1 fractional E1-PRI port
Mediatrrix 3631	1 E1-PRI port
Mediatrrix 3632	2 E1-PRI ports
Mediatrrix 3716	1 card with 6 FXO and 2 FXS ports plus 1 card with 7 FXS port and 1 FXO ports
Mediatrrix 3731	1 card with 1 FXO and 7 FXS ports plus 1 card with 1 T1/E1 PRI port
Mediatrrix 3732	1 card with 6 FXO and 2 FXS ports and 1 card with 1 T1/E1 port
Mediatrrix 3734	1 card with 1 T1/E1 PRI port and 1 card with 5 BRI ports
Mediatrrix 3741	1 card with 1 FXO and 7 FXS ports plus one card with 5 BRI ports
Mediatrrix 3800	1 Intel card
Mediatrrix 3801	1 Intel card and 1 card with 1 FXO and 7 FXS ports
Mediatrrix 3802	1 Intel card and 1 card with 6 FXO and 2 FXS ports
Mediatrrix 3803	1 Intel card and 1 card with 5 BRI ports
Mediatrrix 3804	1 Intel card and 1 card with 1 T1/E1 PRI port

Mediatrrix 4100 Series Gateways

The Mediatrrix 4100 Series products are high-quality and cost-efficient VoIP gateways connecting larger branch offices and multi-tenant buildings or small offices to an IP network, while preserving the investment made in analog telephones and faxes. The Mediatrrix 4100 access devices allow service providers to rapidly and economically deploy their solutions in medium-size premises or SOHOs and they are the ideal solution for branch office connectivity to larger private networks.

Model	Interfaces
Mediatrrix 4102	2 analog FXS ports

Model	Interfaces
Mediatrix 4104	4 analog FXS ports
Mediatrix 4108	8 analog FXS ports
Mediatrix 4116	16 analog FXS ports
Mediatrix 4124	24 analog FXS ports

Mediatrix 4400 Series Digital Gateways

The Mediatrix 4400 Series Digital Gateways allow enterprises to lower communication costs over any IP link. The platform features ISDN BRI interfaces, providing an ideal solution for enterprise voice applications or for connecting to a service provider’s broadband access

Model	Interfaces
Mediatrix 4401	1 BRI port
Mediatrix 4402	2 BRI port
Mediatrix 4404	4 BRI port

Mediatrix C7 Series Gateways

The Mediatrix C7 Series access devices are multi-function devices combining a VoIP Analog Adapter, a Gateway and QoS control in a secure and powerful platform. The Mediatrix C7 Series also allows enterprises, service providers, and system integrators to deploy secure systems and generate additional revenue streams.

Model	Interfaces
Mediatrix C710	4 FXS ports
Mediatrix C711	8 FXS ports
Mediatrix C730	4 FXO ports
Mediatrix C733	8 FXO ports
Mediatrix C731	4 FXO and 4 FXS ports

Mediatrix LP Series

The Mediatrix LP Series access devices are high-quality and cost efficient VoIP gateways connecting larger branch offices and multi-tenant buildings to an IP network, while preserving the investment made in analog telephones and faxes. They offer features such as 60 VRMS ringing voltage, 2 kilometer loop distance and integrated secondary lightning protection, allowing the connection to external phone line cables.

Model	Interfaces
Mediatrix LP 16	16 analog FXS ports
Mediatrix LP 16	16 analog FXS ports

New Functionalities

CR #	Description
36778	The Registration Agent Contact is now configurable with the %cpaubip(call agent name)% "dynamic" macro.
36945	TLS-encrypted SIP is now supported by the SBC. The ForceTransport and SecureTransport parameters were added.
37293	The user can now activate/deactivate the call waiting service using his phone
37455	A new button was added to clear the registration cache
37466	Interworking between TCP and UDP is now supported on the Sentinel.

Modified Features and Functionalities

Incident #	CR #	Description
-----	37470	Simplification of Dgw binaries as they must be splitted into platforms. <ul style="list-style-type: none">• Fix: Binairies are now separated into individual platforms.

Interface Modifications

The new **Force Transport** parameter was added under **SBC > Configuration** when editing a Call Agent.

Configure Call Agent		Value
Call Agent Parameters		
Name		wan_ip_trunk_ca
Enable		<input checked="" type="checkbox"/>
Gateway		<input type="text"/>
Signaling Interface		uplink_s
Media Interface		uplink_m
Peer Host		Service Provider IP Address
Peer Network		<input type="text"/>
Force Transport		None
Monitoring Parameters		
Keep-Alive Interval		0
Blacklisting Duration		0
Blacklisting Delay		0
Blacklisting Error Codes		<input type="text"/>

The new **Secure Port** column was added in the **Signaling Interface Configuration** table, under **SBC > Configuration**

Signaling Interface Configuration					
Name	Network	Port	Secure Port	Public Address	
loop_s	Loop	5060	0	<input type="text"/>	-
lan1_s	Uplink	5060	0	<input type="text"/>	-
uplink_s	Uplink	5060	0	NAT/FW IP Address	-
					+

A new configuration status is available in the **Registration Agent Configuration** table under **SBC > Registrations**.

Registration Agent Configuration				
User Name	Friendly Name	Domain	Contact	
User name	Friendly name	<input type="text"/>	%capubip(trunk_lines_ca)%	- Invalid contact
				+

The new **Origin** column was added in the **Call Agent Rulesets** and **Routing Rulesets** tables under **SBC > Rulesets**. The column indicates if the ruleset was created by the user or factory delivered.

Call Agent Rulesets			
Attach	Origin	Name	Description
<input type="checkbox"/>	Custom	AM_codec_whitelist	
<input type="checkbox"/>	Custom	AM_strip_prefix_in	
<input type="checkbox"/>	Custom	AM_strip_prefix_out	
<input type="checkbox"/>	Custom	automatic_media_relay	Media go through SBC except for users in the same network
<input type="checkbox"/>	Custom	drop_common_scanners_in	Drop requests from known SIP scanners
<input type="checkbox"/>	Custom	drop_common_scanners_in-1	Drop requests from known SIP scanners
<input type="checkbox"/>	Custom	drop_common_scanners_in-2	Drop requests from known SIP scanners
<input type="checkbox"/>	Custom	drop_register_in	Drop all inbound registration requests

--- Call Agent --- Attach

Routing Rulesets			
Attach	Origin	Name	Description
<input type="checkbox"/>	Custom	AM_local_calls	
<input type="checkbox"/>	Custom	AM_local_users_to_wan_ip_trunk	
<input type="checkbox"/>	Custom	AM_wan_ip_trunk_to_local_users	
<input type="checkbox"/>	Custom	EB_lan_pbx_to_local_users	
<input type="checkbox"/>	Custom	lan_pbx_to_remote_users	Route from lan_ip_pbx_ca to remote_users_ca
<input type="checkbox"/>	Custom	lan_pbx_to_wan_ip_trunk_failover_to_second	Route from lan_ip_pbx_ca to wan_ip_trunk_ca with failover to secondary_ip_trunk_ca
<input type="checkbox"/>	Custom	lan_pbx_to_wan_ip_trunk_failover_to_second_dm	Route from lan_ip_pbx_ca to wan_ip_trunk_ca with failover to secondary_ip_trunk_ca in demarcation setup

A new button was added to clear the registration cache under **SBC > Registration**.

✦ Registration Cache

Filter
AoR: <input type="text"/>

Clear Search

Issues Fixed

Incident #	CR #	Description
10161	35776	The Mediatrix 4102S unit is non-compliant in Australia. <ul style="list-style-type: none"> The Mediatrix 4102S unit is now compliant in Australia.
---	36928	The NAT service configuration is lost when the system is restarted i.e. the Destination NAT no longer exists. Therefore, calls can not be made through NAT. <ul style="list-style-type: none"> The firewall rule is now applied when the system is restarted.
10871	36970	DNS queries did not use time value indicated by the server. <ul style="list-style-type: none"> Fix: DNS queries were not sent on time when TTL value was lower than 120 seconds. The DNS client now accepts TTL values lower than 120 seconds.
---	36953	When enabling TAC traces of the SBC service, the sems syslogs do not work until the SBC service is restarted. <ul style="list-style-type: none"> Fix: For the SBC service, changing the diagnostic trace level is now immediately applied without needing to restart the service.
10972	37147	The Security Advisory - CVE-2015-0204 - Freak needed to be addressed. <ul style="list-style-type: none"> Fix: OpenSSL was upgraded to 1.0.1m.
---	37400	An error message is sent when evaluating certain regular expressions. <ul style="list-style-type: none"> Fix: The regular expression interpreter was fixed. The problem no longer occurs.
-----	37541	IMS was not supported by the SBC service. <ul style="list-style-type: none"> Fix: IMS is now supported by SBC
	37606	When exporting a configuration script the Rescue interface was removed. <ul style="list-style-type: none"> Fix: The configuration script can be exported without removing the Rescue interface.

Known Issues

General Issues/Limitations

Incident #	CR #	Description
8908	25703	There is no current drop measured with 3rd party test equipments when doing a lock on FXS ports. The power drop on idle-unusable FXS endpoint feature is not yet supported.
---	27262	The <i>SIPGatewayState</i> parameter is set to Network down even if the Uplink Network Interface is set to Active in PPPoE.
---	27480	The conversion from the configured username to E164 in the auto-routing can use a partial username if the username is not an E164.
---	27871	The 'ls' and TAB-complete of the CLI shows unavailable variables/commands.
---	27873	RTP stats - The limitation range of the <i>statsCollectionPeriodDuration</i> parameter is not applied correctly on the web page.
---	28350	DHCP server does not give the fourth DNS, NTP and NBNS when configured statically in the default subnet. This applies to units with two Ethernet ports or more.
---	28356	Static lease is not present in the DHCP lease table. This applies to units with two Ethernet ports or more.
---	29123	When the unit is restarted, the <i>RebootIfNeeded</i> parameter runs its script again instead of allowing the unit to proceed with its activities.
---	29209	The CCBS service cannot be deactivated if the <i>CCNR Activation Via Handset</i> parameter is not enabled.
---	29486	TR-069 packets are sent via a non configured Management Interface.
---	29653	Too many SNMP Traps are sent at start-up.
---	30260	Factory Reset does not work when Partial Reset is disabled.
---	30528	MWI validation is more restrictive than SIP v5.0.
---	30800	CWMP - PPPoE connection is terminated at start-up if the CWMP service is started and the SNMP informs are enabled.
---	30890	The call waiting tone loops to state one even if Next State is set to nothing.
---	31025	HOC - Modifying the Host Name is not dynamic. The BNI service must be restarted.
---	31208	DHCP Script at start-up is not functional via DHCPv6.
---	31914	The unit does not un-register in SIP TLS when the SIPEP service or the unit is restarted. Therefore the unit does not unregister from the server.

Incident #	CR #	Description
---	32892	TLS Certificate Host Name Validation is not possible when using IPv6 link local IP addresses in all HTTPS file transfers.
---	32896	Hold/unhold is not functional in IPv6 link local.
---	32914	BNI - The <i>NetworkInterfacesPriority</i> parameter is not functional in IPv6 Auto-conf and duplication of IPv6 is possible.
---	33090	SIP keep-alive is not functional when using ping with an IPv6 link local address.
---	33705	Telif- Call Forward does not work with TLS.
---	34191	When the unit is configured in Bridge mode, it is not possible to create a VLAN on the LAN and Wan Network interfaces because they no longer exist; only the "wan-lan" network interface exists.
8773	34474	POS calls and data transmission fails.
8894	34583	FAX sent to the Unified Messaging system fails.
---	34811	The same event notification sent via SIP is sent as many times as there are Sip gateways but always for the same Sip Gateway.
---	34882	LAN card is lost when the LLDP Network Interface configuration changes from LAN1 to Uplink.
9222/10191	35148	POS calls fail when no there is no VAD attribute in SDP.
---	35409	SIP Registration over a VLAN does not work.
---	36104	Web page access is lost during a long period (170 seconds) in certain setup scenarios.
---	36390	The 1024k file limit capacity is not detected on units that support the Log To File feature. This can lead to unwanted behaviours.
---	36556	Diagnostic Traces are still present even if the <i>Diagnostic Traces</i> parameter is disabled. Traces will no longer be displayed only if the SBC service is restarted.
---	36670	Deleting multiple rules at the same time via UME results in the wrong rules being deleted.
---	36678	Authentication can not be configured on more than 20 endpoints via CWMP.
---	36852	An unexpected result occurred on the Mediatrix C731 using a third party server, TLS and IPv6.
---	36910	Music On Hold stops working when a new music file is uploaded without success.
---	36969	Unable to use IPv6 link type to send syslog.
11000	37305	On Mediatrix 41xx units, LLDP does not work properly after a successful 802.1x authentication.
11041	37392	BRI On Demand ISDN connection does not restore the link.

Mediatrix Sentinel Specific Issues/Limitations

Incident #	CR #	Description
---	36471	It is not possible to perform more than 4 simultaneously conferences on FXS.
---	36627	<i>Log received traffic</i> can only be enabled in inbound rules. This action should not be currently used in the outbound rules.
---	36659	When a file is imported to the Sentinel unit, the character codes \n (new line) are removed from the file.
---	36741	It is possible to use a file name longer than 48 characters in the SBC editor but after, the file cannot be used.
---	36775	The <i>Sbc.NbActiveCalls</i> parameter (current number of active calls handled by the SBC) is not yet supported.
---	36844	The partial reset may become unusable. If this is the case, the unit will need to be restarted.
---	DGW-815	When the Call Agent peer host is defined with an FQDN, the FQDN must not be followed by a port number.

ISDN Interfaces Specific Issues/Limitations

Incident #	CR #	Description
8954	34684	IPsync: Mediatrix CPG with firmware version Dgw 2.0.24.402 is not synchronized at all.

BRI Interfaces Specific Issues/Limitations

Incident #	CR #	Description
8954	34684	IPsync: Mediatrix CPG with firmware version Dgw 2.0.24.402 is not synchronized at all.

PRI (E1/T1) Interfaces

Incident #	CR #	Description
---	25600	E1 interface: The restart flag is not sent even if the R2 service needs to be restarted.
---	35355	Mediatrix 3632 - With 60 simultaneous calls, refreshing the web page may affect the voice quality.

FXS Interface Specific Issues/Limitations

Incident #	CR #	Description
---	29209	The CCBS service cannot be deactivated if the CCNR <i>Activation Via Handset</i> parameter is not enabled.
---	30168	Pots - Bypass is still activated after restarting the unit when the bypass activation mode is set to PowerDown .
---	35693	FXS Bypass - Power Off mode always sets the unit in Bypass but the status line still displays Idle .

7Fxs1Fxo Interfaces Specific Issues/Limitations

Incident #	CR #	Description
---	---	---

FXO Interfaces Specific Issues/Limitations

Incident #	CR #	Description
---	29754	UK1 Caller-ID is not detected.
---	29755	Brazil1 Caller-ID is not detected



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