



Dgw v2.0 Application Release Notes

Dgw v2.0.31.571

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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
10221	35915	A new release procedure was created when no digits are received during an incoming R2 call.
---	37036	TR069 support for VLAN settings and enable/disable of SIP accounts. It is now possible to add and configure VLANs and Network interfaces.
---	37075	A new preset configuration file for China is now available in Management > Configuration Scripts and Management > File

Modified Features and Functionalities

Incident #	CR #	Description
10919	37096	Unable to use the distinctive ring for analog phones located behind the unit. <ul style="list-style-type: none">Fix: Distinctive ringing can now be used without the absolute URI in the Alert-Info header.

Interface Modifications

Warning Message : A message is now displayed in the web interface indicating that all versions of Internet Explorer prior to 11 are no longer supported.

Under the **R2 > Digit Timers** tab, the **MF Congestion Tone Duration** field was added to the **R2 Digit Timers Variants** table.

R2 Digit Timers Variants Parameters	Value
MFC Pulse Inter Digit Timeout:	<input type="text" value="100"/>
MFC Pulse Min On Timeout:	<input type="text" value="150"/>
MFC Max Sequence Timeout:	<input type="text" value="10000"/>
MFC Max On Timeout:	<input type="text" value="5000"/>
MFC Max Off Timeout:	<input type="text" value="5000"/>
MF Congestion Tone Duration:	<input type="text" value="0"/>

Under the **R2 > Timers** tab, the **No Digit Timeout** field was added to the **R2 Timers Variants** table.

R2 Timers Variants Parameters	Value
Seizure Ack Timeout:	<input type="text" value="2000"/>
Fault Seizure Ack Timeout:	<input type="text" value="60000"/>
Double Seizure Timeout:	<input type="text" value="100"/>
Double Answer Timeout:	<input type="text" value="1500"/>
Answer Timeout:	<input type="text" value="0"/>
ReAnswer Timeout:	<input type="text" value="1000"/>
Release Guard Timeout:	<input type="text" value="100"/>
InterCall Guard Timeout:	<input type="text" value="100"/>
Congestion Tone Guard Timeout:	<input type="text" value="1000"/>
Unblocking Timeout:	<input type="text" value="100"/>
Address Complete Timeout:	<input type="text" value="8000"/>
Wait Answer Timeout:	<input type="text" value="60000"/>
Digit Complete Timeout:	<input type="text" value="4000"/>
Wait GroupB Response Complete Timeout:	<input type="text" value="3000"/>
Wait Immediate Response Complete Timeout:	<input type="text" value="1000"/>
Play Tone Guard Timeout:	<input type="text" value="70"/>
Accept Call Timeout:	<input type="text" value="2000"/>
Clear Forward Guard Timeout:	<input type="text" value="1500"/>
Clear Backward Guard Timeout:	<input type="text" value="1500"/>
Fault On Answered Guard Timeout:	<input type="text" value="250"/>
Fault On Clear Backward Guard Timeout:	<input type="text" value="250"/>
Fault On Seize Ack Guard Timeout:	<input type="text" value="250"/>
Fault On Seize Guard Timeout:	<input type="text" value="250"/>
Decline Guard Timeout:	<input type="text" value="1500"/>
No Digit Timeout:	<input type="text" value="0"/>

Under the **Network > VLAN** tab, a new column was added to indicate whether the configuration of a row is valid or not.

VLAN

VLAN Configuration				
Link	VlanId	Default User Priority		
eth2-5	33	0	-	
eth2-5	0	0	-	Invalid VlanId
			+	

Under the **Network > Interfaces** tab, in the **Network Interface Configuration** table, a new column was added to indicate whether the configuration of a row is valid or not.

Interfaces

Network Interface Configuration						
Name	Link	Type	Static IP Address	Static Default Router	Activation	
Lan1	eth2-5	IpStatic (IPv4 Static)	192.168.0.10/24		Enable	-
Uplink	eth1	IpDhcp (IPv4 DHCP)	192.168.10.1/24		Enable	-
UplinkV6	eth1	Ip6AutoConf (IPv6 Auto-Conf)			Disable	-
lan2	eth2-5	IpStatic (IPv4 Static)	192.168.0.11/24		Enable	-
		IpStatic (IPv4 Static)	192.168.0.10/24		Disable	- Empty InterfaceName
						+

Under the **Network > Interfaces** tab, in the **Ethernet Link Configuration** table, a new column was added to indicate whether the configuration of a row is valid or not.

Ethernet Link Configuration					
Link	MTU	802.1x Authentication	EAP Username	EAP Certificate Validation	
eth1	1500	Disable		Trusted And Valid	
eth2-5	ko	Enable		Trusted And Valid	MTU:Type Mismatch.

Issues Fixed

Incident #	CR #	Description
---	36569	The IP addresses for both Wan and Lan ports are the same even if their MAC addresses are different. <ul style="list-style-type: none"> Fix: The MAC address from the used link is now fetched. The problem is fixed.
10660	36610	The calling party sometimes loses audio. <ul style="list-style-type: none"> Fix: A new hardware parameter (<i>Hardware.InteropForceDspResync</i>) was created to solve the problem.
---	36821	When the registrar requires authentication from the SBC for a REGISTER from the registration agent, the second REGISTRAR (with the credentials) had the contact header twice. <ul style="list-style-type: none"> Fix: The header is now displayed only once.
---	36867	If using Drop as the default policy for the local firewall (Network/Local Firewall), the 169.254.0.0/16 rule must be added for the FXS port to work correctly. <ul style="list-style-type: none"> Fix :The internal connections of the sentinel are no longer affected by Lfw.
---	36859	When registered endpoints are removed, the Endpoints Registration Status table is not updated. <ul style="list-style-type: none"> Fix: The status table is now properly updated.
	36932	There is no message indicating which versions of Internet Explorer are supported. <ul style="list-style-type: none"> Fix: A message is now displayed in the web interface indicating that all versions of Internet Explorer prior to 11 are no longer supported.
10841	36949	Forcing TCP transport in the Routing Rulesets did not work correctly in the Sbc service. <ul style="list-style-type: none"> Fix: The "force transport" action in the Routing Rulesets was fixed.
---	36951	Sentinel was not compatible with a SIP device that sent a SIP Ping and a SIP Info with no From tag. <ul style="list-style-type: none"> Fix: The Sbc service was modified to support this case.
10871	36970	DNS queries did not use time value indicated by the server. <ul style="list-style-type: none"> Fix: A pdnsd parameter was added to accept a TTL value of '0' as the lowest value allowed. Furthermore the hardcoded restriction of 120s as lowest TTL value on received DNS responses was removed.
---	37046	The SBC relays a CANCEL without a Max-Forwards header. <ul style="list-style-type: none"> Fix: The Max-Forwards must be present.

Incident #	CR #	Description
---	37049	When subscriptions were performed through the Sbc service, the result was not forwarded correctly. <ul style="list-style-type: none">• Fix: The issue was fixed.
	37145	Missing validation of names in the Sbc service. <ul style="list-style-type: none">• Fix: Validation was added for the following names<ul style="list-style-type: none">– CallAgent name– Ruleset name– Media Interface name– Signaling Interface name– Gateway Name– Registration User Name– Registration Friendly name

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.
9309	35320	The Gateway does not terminate the call if it received CANCEL before 101 Trying.
---	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.
---	36778	The <i>Sbc.RegistrationAgent.Contact</i> parameter is configurable through a static string. However, this contact is usually the address of a Call Agent. If the address of the Call Agent changes, the value of the <i>Sbc.RegistrationAgent.Contact</i> parameter must be changed manually.
---	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.

Incident #	CR #	Description
---	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.
---	36969	Unable to use IPv6 link type to send syslog.
10871	36970	DNS queries did not use time value indicated by the server.
10805	37072	TLSv1 handshake fails : unable to receive or make calls
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.
---	36953	When enabling TAC traces of the SBC service, the sems syslogs do not work until the SBC service is restarted.
---	37348	No notification is sent when no route is found for a call.
---	37400	An error message is sent when evaluating certain regular expressions.

ISDN Interfaces Specific Issues/Limitations

Incident #	CR #	Description
8954	34684	Mediatrix CPG with firmware version Dgw 2.0.24.402 is not synchronized at all.
8999	34789	No notify ISDN link down during the boot up when the unit is rebooted. The administrator never receives a LINK DOWN message if the unit is restarted. Therefore, if for any reason the ISDN or the unit does not start-up properly, the administrator will never know that they are not working.

BRI Interfaces Specific Issues/Limitations

Incident #	CR #	Description
8954	34684	IP Synchronisation problem - Slave CPG Mediatix with firmware 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	Mediatix 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 .
10915	37095	SIP registration fails using TLS transport with FXS.

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



4229, rue de la Garlock
Sherbrooke (Quebec)
J1L 2C8 Canada

Learn more at
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