

Endpoint Administrative State

For all Mediatrix units

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Administrative State of Unit

The administrator can disable the use of specific endpoints or all endpoints of a unit through the administrative state configuration. It is also possible to select the initial endpoint state to be applied on unit start-up.

Disabling endpoints of a unit can be useful for example:

- in a multi-tenant environment, if a tenant stops its service subscription, the administrator can lock the unit so the FXS port can give either a fast busy tone or no tone to signal the line is decommissioned. Then later the administrator can send a technician on site to re-wire and make the port available to another tenant.
- if a user does not pay his service, the administrator can simply lock the endpoint.
- to prevent calls during unit maintenance

Note: Locking an endpoint also removes SIP registration from the endpoint prohibiting calls from and to the endpoint.

Basic Tasks

Locking All Unit Endpoints - Gracefully

Steps

- 1) Go to **System/Endpoints**.
- 2) In the **Unit States** table, from the **Action** selection list, choose **Lock**.

Result

New calls can no longer be sent or received.

- If the state of the unit is **Idle** or **Idle Unusable**, the unit is locked right away.
- If the unit is either **Busy** or **Active**, the unit will be locked only when it will become **Idle**.

Unit States				
Administrative	Operational	Usage	Action	
Locked	Disable	Idle Unusable	v	
			Force Lock	
			Lock	
			Unlock	

Locking All Unit Endpoints - Immediately

Steps

- 1) Go to **System/Endpoints**.
- 2) In the **Unit States** table, from the **Action** selection list, choose **Force Lock**.

Result

All telephone lines of the unit are locked immediately even if there are calls in progress, in which case the call will be immediately terminated (BYE sent to the SIP peer and end-of-call tone played to the endpoint). Locking all unit endpoints prevents any call activities.

Unit States					
Administrative	Operational	Usage	Action		
Locked	Disable	Idle Unusable			
Force Lock Lock Unlock					

Unlocking All Unit Endpoints

Steps

- 1) Go to **System/Endpoints**.
- 2) In the **Unit States** table, from the **Action** selection list, choose **Unlock**.

Result

The unit becomes available for use.

Unit States					
Administrative	Operational	Usage	Action		
Locked	Disable	Idle Unusable			
Force Lock Lock Unlock					

Locking an Endpoint - Gracefully

Steps

- 1) Go to **System/Endpoints**.
- 2) In the **Endpoint States** table, from the **Action** selection list of an endpoint, choose **Lock**.

Result

The endpoint will no longer be able to send or receive a call.

- If the state of the endpoint is **Idle** or **Idle Unusable**, the endpoint is locked right away.

- If the endpoint is either **Busy** or **Active**, the endpoint will be locked only when the unit will become in **Idle**.

Endpoint States						
Endpoint	Administrative	Operational	Usage	Initial Administrative	Action	
Slot1/E1T1	Unlocked	Disable	Idle Unusable	Unlocked ▾	▾	
Slot3/FXS1	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot3/FXS2	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot3/FXS3	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot3/FXS4	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot4/FX01	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot4/FX02	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot4/FX03	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot4/FX04	Unlocked	Disable	Idle Unusable	Unlocked ▾		

Locking an Endpoint- Immediately

Steps

- 1) Go to **System/Endpoints**.
- 2) In the **Endpoint States** table, from the **Action** selection list of an endpoint, choose **Force Lock**.

Result

All activities of the endpoint are stopped immediately, even if there are calls in progress, in which case the call will be immediately terminated (BYE sent to the SIP peer and end-of-call tone played to the endpoint).

Endpoint States						
Endpoint	Administrative	Operational	Usage	Initial Administrative	Action	
Slot1/E1T1	Unlocked	Disable	Idle Unusable	Unlocked ▾	▾	
Slot3/FXS1	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot3/FXS2	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot3/FXS3	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot3/FXS4	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot4/FX01	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot4/FX02	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot4/FX03	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot4/FX04	Unlocked	Disable	Idle Unusable	Unlocked ▾		

Unlocking an Endpoint

Steps

- 1) Go to **System/Endpoints**.

- 2) In the **Endpoint States** table, from the **Action** selection list of an endpoint, choose **Unlock**.

Result

The endpoint becomes available for use.

Endpoint States						
Endpoint	Administrative	Operational	Usage	Initial Administrative	Action	
Slot1/E1T1	Unlocked	Disable	Idle Unusable	Unlocked ▾	▾	
Slot3/FXS1	Unlocked	Disable	Idle Unusable	Unlocked ▾		
Slot3/FXS2	Unlocked	Disable	Idle Unusable	Unlocked ▾	Force Lock	
Slot3/FXS3	Unlocked	Disable	Idle Unusable	Unlocked ▾	Lock	
Slot3/FXS4	Unlocked	Disable	Idle Unusable	Unlocked ▾	Unlock	
Slot4/FXO1	Unlocked	Disable	Idle Unusable	Unlocked ▾	▾	
Slot4/FXO2	Unlocked	Disable	Idle Unusable	Unlocked ▾	▾	
Slot4/FXO3	Unlocked	Disable	Idle Unusable	Unlocked ▾	▾	
Slot4/FXO4	Unlocked	Disable	Idle Unusable	Unlocked ▾	▾	

Setting the Endpoint Behavior after a Unit Restart

Steps

- 1) Go to **System/Endpoints**.
- 2) In the **Endpoint States** table, from the **Initial Administrative** selection list of an endpoint, choose **Lock** or **Unlock**.

Result

- If the **Initial Administrative** selection list is set to **Lock**, when the unit restarts, the endpoint will remain locked, therefore unusable.
- If the **Initial Administrative** selection list is set to **Unlocked**, when the unit restarts, the endpoint will become usable.

Endpoint States						
Endpoint	Administrative	Operational	Usage	Initial Administrative	Action	
Slot1/E1T1	Unlocked	Disable		Unlocked		
Slot3/FXS1	Unlocked	Disable		Locked		
Slot3/FXS2	Unlocked	Disable		Unlocked		
Slot3/FXS3	Unlocked	Disable		Unlocked		
Slot3/FXS4	Unlocked	Disable		Unlocked		
Slot4/FXO1	Unlocked	Disable		Unlocked		
Slot4/FXO2	Unlocked	Disable		Unlocked		
Slot4/FXO3	Unlocked	Disable		Unlocked		
Slot4/FXO4	Unlocked	Disable		Unlocked		

Disabling the Unit Endpoints when No Gateways are Ready

Steps

- 1) Go to **System/Endpoints**.
- 2) In the **Administration** table, select **Enable** next to **Disable Unit (All Endpoints) when No Gateways Are In State Ready**.

Result

The unit will be disabled, i.e. unusable, if none of the SIP gateways are ready to be used. As soon as a SIP gateway becomes ready, the unit will be enabled.

Administration		
Disable Unit (All Endpoints) When No Gateways Are In State Ready:	Enable	
Shutdown Endpoint When Operational State is Disable And Its Usage State Is 'idle-unusable':	Enable	
Disable All Gateways When Trunk Lines Are Down:	Enable	

Shutting Down Endpoint if in Idle-Unusable State

Steps

- 1) Go to **System/Endpoints**.
- 2) In the **Administration** table, select **Enable** next to **Shutdown Endpoint When Operational State is Disable And Its Usage State is idle-unusable**.

Note: The **Shutdown Endpoint When Operational State is Disable And Its Usage State is idle-unusable** parameter is always interpreted as disabled unless it has been specifically set to enable.

Result

When an endpoint usage state becomes **Idle-unusable** whatever the value of its operational state, the endpoint remains physically up but the calls are denied.

Administration	
Disable Unit (All Endpoints) When No Gateways Are In State Ready:	Enable ▾
Shutdown Endpoint When Operational State is Disable And Its Usage State Is 'idle-unusable':	Enable ▾
Disable All Gateways When Trunk Lines Are Down:	Enable ▾

Disabling All Gateways when Trunk Lines are Down

Steps

- 1) Go to **System/Endpoints**.
- 2) In the **Administration** table, select **Disable** next to **Disable Unit (All Endpoints) when No Gateways Are In State Ready**.

Note: This applies only to E1 or T1 telephony lines.

Result

When all E1 or T1 telephony lines are down, all SIP gateways will be stopped. All SIP gateways will be started when at least one E1T1 line is up.

Administration	
Disable Unit (All Endpoints) When No Gateways Are In State Ready:	Enable ▾
Shutdown Endpoint When Operational State is Disable And Its Usage State Is 'idle-unusable':	Enable ▾
Disable All Gateways When Trunk Lines Are Down:	Enable ▾

Advanced Parameters

Advanced System/Endpoints Parameters

Although the services can be configured in great part in the Web browser, some aspects of the configuration can only be completed with the Configuration parameters by :

- using a MIB browser
- using the CLI
- creating a configuration script containing the configuration parameters

For more details on the following advanced parameters, refer to the [DGW Configuration Guide - Reference Guide](#) published on the [Media5 Documentation Portal](#).

Setting the toggle delay to disable the SIP gateways when trunk lines are down

[EpAdm.DisableSipGatewaysWhenTrunkLinesDownToggleDelay](#)

Setting the Behavior of the unit While in Shutting Down State

[EpAdm.BehaviorWhileInUnitShuttingDownState](#)

Online Help

If you are not familiar with the meaning of the fields and buttons, click **Show Help**, located at the upper right corner of the Web page. When activated, the fields and buttons that offer online help will change to green and if you hover over them, the description will be displayed.

DGW Documentation

Mediatrix devices are supplied with an exhaustive set of documentation.

Mediatrix user documentation is available on the [Media5 Documentation Portal](#).

Several types of documents were created to clearly present the information you are looking for. Our documentation includes:

- **Release notes:** Generated at each GA release, this document includes the known and solved issues of the software. It also outlines the changes and the new features the release includes.
- **Configuration notes:** These documents are created to facilitate the configuration of a specific use case. They address a configuration aspect we consider that most users will need to perform. However, in some cases, a configuration note is created after receiving a question from a customer. They provide standard step-by-step procedures detailing the values of the parameters to use. They provide a means of validation and present some conceptual information. The configuration notes are specifically created to guide the user through an aspect of the configuration.
- **Technical bulletins:** These documents are created to facilitate the configuration of a specific technical action, such as performing a firmware upgrade.
- **Hardware installation guide:** They provide the detailed procedure on how to safely and adequately install the unit. It provides information on card installation, cable connections, and how to access for the first time the Management interface.
- **User guide:** The user guide explains how to customise to your needs the configuration of the unit. Although this document is task oriented, it provides conceptual information to help the user understand the purpose and impact of each task. The User Guide will provide information such as where and how TR-069 can be configured in the Management Interface, how to set firewalls, or how to use the CLI to configure parameters that are not available in the Management Interface.
- **Reference guide:** This exhaustive document has been created for advanced users. It includes a description of all the parameters used by all the services of the Mediatrix units. You will find, for example, scripts to configure a specific parameter, notification messages sent by a service, or an action description used to create Rulesets. This document includes reference information such as a dictionary, and it does not include any step-by-step procedures.

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