



Media Services Proxy Command Reference

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Cisco Media Services Proxy

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media-proxy services

To configure a Media Proxy Services (MSP) profile and associate the corresponding service parameters, use the **media-proxy services** command in global configuration mode. To remove the MSP profile for a given flow, use the **no** form of this command.

media-proxy services {*profile-name* | **profile** *profile-name*}

no media -proxy services profile profile-name

Syntax Description	profile-name	The MSP profile to which corresponding service parameters are associated.		
	profile	Creates an MSP profile.		
Command Default	MSP profiles are not created.			
Command Modes	Global configuration (config)			
Command History	Release	Modification		
	15.2(3)T	This command was introduced.		
Usage Guidelines	You can use the media-proxy services flow. Attaching an MSP profile to a flow You can configure a maximum of 1024 service parameters associated with each	command to configure MSP profiles that can then be attached to the v determines the services that have to be applied to a given flow. MSP profiles on any device. Each profile can have corresponding service.		
	Configuring the media-proxy services command places the device in media proxy services configuration mode. Use the following commands in media proxy services configuration mode to apply metadata or Resource Reservation Protocol (RSVP) service parameters to the flow:			
	 metadata—Enters media proxy services metadata configuration mode, where the params <i>metadata-param-name</i> keyword-argument pair allows you to associate the metadata attributes configured in the specified template with the flow. rsvp—Enters media proxy services RSVP configuration mode, where the params rsvp -param-name 			
	MSP profiles can be attached to the mea globally, RSVP and metadata attributes	to associate the KSVP parameters configured in the specified lia flow either globally or per interface. If you attach a profile in the MSP profile are associated to all the flows identified. If you		

attach a profile to an interface, RSVP and metadata attributes that are configured in the profile are associated with each unique flow identified on that interface. Use the **media-proxy services profile** *profile-name* command in global configuration mode to attach the MSP profile globally. Use the media-proxy services profile profile-name command in interface configuration mode to attach the MSP profile on a per-interface basis.

Examples

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The following example shows how to configure an MSP profile and associate the metadata and RSVP parameters with it:

Device(config)# media-proxy services profile pl Device(config-ms)# metadata Device(config-ms-md)# params ml Device(config-ms-md)# exit Device(config-ms)# rsvp Device(config-ms-rsvp)# params rsl Device(config-ms-rsvp)# exit

Related Commands	Command	Description
	media-proxy services metadata	Configures metadata attributes that can be applied to a flow that has been automatically identified by MSP.
	media-proxy services rsvp	Configures RSVP parameters that can be applied to a flow that has been automatically identified by MSP.
	profile flow	Enables MSP.

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media-proxy services metadata

To manually configure metadata attributes that can be applied to a flow that has been automatically identified by Media Services Proxy (MSP), use the **media services metadata** command in global configuration mode. To remove the metadata attributes that are configured manually, use the **no** form of this command.

media-proxy services metadata metadata-param-name

no media-proxy services metadata metadata-param-name

Syntax Description Name of the template into which the metadata metadata-param-name attributes are configured. **Command Default** Metadata attributes are not configured for any given flow. **Command Modes** Global configuration (config) **Command History** Release Modification This command was introduced. 15.2(3)T **Usage Guidelines** By default, metadata attributes are automatically gleaned with the device and flow identification. You can use the media-proxy services metadata command to manually configure metadata attributes. Any metadata attribute configured manually overrides the automatic method of identification. Configuring the **media-proxy services metadata** command places the device in media proxy services metadata configuration mode. You can enter the following commands for configuring metadata attributes, as required: application name application-name [vendor vendor-name version version-number]—Configures the • name of the application, the vendor, and the version number. **bandwidth** *bw-kbps*—Configures the bandwidth of the flow, in kb/s. clock-frequency bp/s—Sets the desired clock rate, in bits per second (bp/s). **cname** *name*—Configures the cannonical name. Consists of the user and domain name in one of the following formats: user@example.domain.com or user@10.10.10.1. default parameter-Sets the specified parameter to its default value. domain-name domain-Configures the domain name of the application. email email-id—Configures the email ID of the user. mime-type type—Configures the Multipurpose Internet Mail Extensions (MIME) type of the flow.

- **payload-type** *type*—Configures the payload type for a given flow.
- session-id *id*—Configures an identifier for the established session.
- **ssrc** *value*—Configures the synchronization source (SSRC) value for a given flow. Valid range is from 0 to 4294967295.
- username *name*—Configures the user name.

Examples

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The following example shows how to manually configure metadata attributes that can be applied to a flow:

```
Device> enable
Device# configure terminal
Device(config)# media-proxy services metadata mt1
Device(config-ms-md)# application name app1
Device(config-ms-md)# bandwidth 10000
Device(config-ms-md)# payload-type 7
Device(config-ms-md)# session-id 23
```

Related Commands	Command	Description
	media-proxy services	Enters media services rsvp configuration mode and configures RSVP parameters that must be applied for a given flow

media-proxy services rsvp

To manually configure Resource Reservation Protocol (RSVP) parameters that can be applied to a flow that has been automatically identified by Media Services Proxy (MSP), use the**media-proxy services rsvp** command in global configuration mode. To remove the manually configured RSVP parameters, use the **no** form of this command.

media-proxy services rsvp rsvp-param-name

no media-proxy services rsvp rsvp-param-name

Syntax Description Name of the template into which the RSVP rsvp-param-name parameters are configured. **Command Default** RSVP parameters are not configured for any given flow. **Command Modes** Global configuration (config) **Command History** Release Modification 15.2(3)T This command was introduced. **Usage Guidelines** By default, RSVP parameters are automatically gleaned with the device and flow identification. You can use the **media-proxy services rsvp** command to manually configure RSVP parameters. The RSVP parameters that are signaled from the endpoints are overridden by the manually configured RSVP parameters. Configuring the media-proxy services rsvp command places the device in media proxy services RSVP configuration mode. You can enter the following commands for configuring RSVP parameters, as required: • **bandwidth** *bw*—Configures the bandwidth, in kilobits per second (kb/s). max-burst burst-rate—Configures the largest amount of data allowed in a flow, in kilobytes (KB). Valid range is from 1 to 65535. peak-rate *rate*—Configures the peak rate, in kbps, for a given flow. **priority** {defending defend-value | premption prempt-value}—Configures the defending and the preemption priority for the flow. Defending priority is the priority that overtakes the preemption priority. After a flow has been admitted, the preemption priority becomes irrelevant. Instead, the defending priority of the flow is compared with with the preemption priority of new flows. The valid range is from 1 to 7.

Preemption priority is the priority of the new flow that is compared with the defending priority of previously admitted flows. Higher values represent higher priority. The valid range is from 1 to 7.

Examples

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The following example shows how to configure a template containing RSVP parameters that can be applied for a given flow:

Device(config)# media-proxy services rsvp rs1 Device(config-ms-rsvp)# bandwidth 1012 Device(config-ms-rsvp)# max-burst 3000 Device(config-ms-rsvp)# priority defending 2

Related Commands	Command	Description
	media-proxy services	Configures an MSP profile for a given flow and associates corresponding service parameters with each service.
	profile flow	Enables MSP.

profile flow

To enable Media Services Proxy (MSP), use the **profile flow** command in global configuration mode. To disable MSP, use the **no** form of this command.

profile flow [protocol [protocol-name] | source limit max-entries]

no profile flow

Syntax Description	protocol	(Optional) Specifies the flow identification protocol.		
	protocol-name	(Optional) Name of the protocol. Enter one of the following keywords to enable the respective protocol:		
		 h323–H.323 protocol rtsp–Reliable Signaling Transport Protocol (RSTP) 		
	source limit	sip-Session Initiation Protocol (SIP) (Optional) Specifies a limit for the number of flows originating from the source.		
	max-entries	(Optional) Maximum number of flows allowed. Valid range is from 1 to 10000.		
Command Default	MSP is disabled.			
Command Modes	Global configuration (global)			
Command History	Release	Modification		
	15.2(3)T	This command was introduced.		
Usage Guidelines	Enabling MSP facilitates the automatic ider command without any keywords, all protoc the profile flow command with the required	ntification of media endpoints. If you configure the profile flow cols are enabled by default. To enable an individual protocol, use d protocol in the <i>protocol-name</i> argument.		

Examples

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The following example shows how to enable the required protocol for MSP:

Device> enable Device(config)# profile flow protocol sip

Related Commands	Command	Description
	show profile flow	Displays information pertaining to media flow that has been automatically identified by MSP.

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profile flow port-map

To configure user-defined port numbers for flow and device identification protocols in Media Services Proxy (MSP), use the **profile flow port-map** command in global configuration mode. command in global configuration mode. To disable user-defined port numbers for flow and device identification protocols in MSP, use the **no** form of this command.

profile flow port-map protocol-name [tcp|udp] port-number

no profile flow port-map protocol-name [tcp|udp] port-number

Syntax Description	protocol-name	Name of the protocol known to the Network-Based Application Recognition (NBAR) classification engine. Use one of the following keywords to specify the respective protocol:
		 h323–H.323 protocol ras-h323–Registration, Admission, and Status H.323 protocol rtsp–Real Time Streaming Protocol (RTSP) sip–Session Initiation Protocol (SIP);
	tcp	(Optional) Configures a TCP port to be searched for the specified protocol.
	udp	(Optional) Configures a User Datagram Protocol (UDP) port to be searched for the specified protocol.
	port-number	Port assigned for the specified protocol. Valid range is from 0 to 65535.

Command Default Standard port numbers for the static protocols are as follows:

- H.323—1718, 1719, 1720
- mDNS—5353
- RTSP—554
- SIP—5060/5061

Command Modes Global configuration (global)

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Command History	Release	Modification			
	15.2(3)T This command was introduced.				
Usage Guidelines	The port-number argument i command. You can specify	s either a UDP or TCP port number depending on the protocol specified in the up to 16 port numbers in one command line.			
Examples The following example shows how to configure user-defined port numbers for device and floidentification protocols in MSP: Device> enable Device* configure terminal Device(config)# profile flow port-map sip udp 1679					
Related Commands	Command	Description			
	profile flow	Enables MSP.			

show profile device

To display details pertaining to endpoints that are automatically identified by Media Services Profile (MSP), use the **show profile device** command in privileged EXEC mode.

show profile device

Syntax Description	This command h	nas no arguments	or keywords.
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Command Modes Privileged EXEC (#)

Command History	Release	Modification
	15.2(3)T	This command was introduced.

Examples

The following is sample output from the **show profile device** command:

|--|

MAC Address Vendor	Interface	Device class	Device Name	Device
	=======		==========	
0040.8ca7.bfb6	Gi2/23	Surveillance-Camera	AXIS-Camera	AXIS
===================				

The table below describes the significant fields shown in the display.

 Table 1
 show profile devices Field Descriptions

Field	Description
MAC Address	The MAC address of the device connected to the endpoint.
Interface	Interface to which the device is connected.
Device class	Type of device.
Device Name	Name of the device.
Device Vendor	Name of the vendor of the device.

Related	Commands
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Command	Description
media-proxy services	Configures an MSP profile for a given flow and associates the corresponding service parameters.
profile flow	Enables MSP.
show profile flow	Displays information pertaining to media flow that have been automatically identified by MSP.

show profile flow

To display information pertaining to media flow that has been automatically identified by Media Services Proxy (MSP), use the **show profile flow** command in privileged EXEC mode.

show profile flow [statistics [protocol]]

Syntax Description	statistics protocol	(Optional) Displays profile statistics for a given protocol to identify packet drops associated with the protocol, if any.	
Command Modes	Privileged EXEC (#)		
Command History	Release	Modification	
	15.2(3)T	This command was introduced.	
Examples	The following is sample output fro Device# show profile flow Source-IP sPort Dest-IP dPor 10.1.1.1 2000 10.2.2.2 2001 10.1.1.4 3000 10.2.2.4 2001	om the show profile flow command: t protocol Media Services profile UDP msp_service_A UDP msp_service_B	
	Device# show profile flow statistics Input Packets:		
	Table below describes significant fields in the display:		
	Table 2 show profile flow Field Descriptions		
	Field	Description	
	Source-IP	IP address of the device from where the flow is identified.	
	sPort	Source port of the device from where the flow is identified.	

Field	Description
Dest-IP	Destination IP address of the device to where the flow is targeted.
dPort	Destination port of the device to where the flow is targeted.
protocol	Transport protocol in use-TCP or UDP.
Media Services Profile	MSP profile associated with the flow.
Input Packets	Number of input packets for each protocol.

Related Commands

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Command	Description
profile flow	Enables MSP.
show profile device	Displays details pertaining to endpoints that are automatically identified by MSP.

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