

# **Tracing Commands**

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### **Information About Tracing**

#### Information About Trace Management

The tracing functionality logs internal events. Trace files are automatically created and saved on the persistent storage device of specific platforms.

The contents of trace files are useful to troubleshoot if a device has an issue. The trace file outputs provide information that can be used for locating and solving the issue, and helps to get a detailed view of system actions and operations.

To view the most recent trace information for a specific process, use the **show logging [process | Profile | process-helper]** command. The process uses the name of the process, the profile lists predefined set of process names, and the profile-helper displays the available names.

To change the verbosity in a trace message output, you can adjust the trace level of processes using the **set platform software trace level** command. You can choose the **all** keyword to adjust the trace level for all the processes listed or you can select a specific process. When you select a specific process, there is also the option of adjust the trace level for a specific module or the **all-modules** keyword can be used to adjust all the process's modules.

#### **Tracing Levels**

Trace level determines the types of traces outputted. Each trace message is assigned a trace level. If the trace level of a process or its module it set at a greater than or equal to level as the trace message, the trace message is displayed otherwise, it is skipped. For example, the default trace level is **Notice** level, so all traces with the **Notice** level and below the notice level are included while the traces above the **Notice** level are excluded.

The following table shows all of the tracing levels that are available, and provides descriptions of the message that are displayed with each tracing level. The tracing levels listed in the table are from the lowest to the highest order. The default trace level is **Notice**.

Tracing Level	Description
Fatal	The message stating the process is aborted.
Emergency	The message is regarding an issue that makes the system unusable.
Alert	The message indicating that an action must be taken immediately.
Critical	The message is regarding a critical event causing loss of important functions.
Error	The message is regarding a system error.
Warning	The message is regarding a system warning.
Notice	The message is regarding a significant event.

Table 1: Tracing Levels and Descriptions

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Tracing Level	Description
Informational	The message is useful for informational purposes only.
Debug	The message provides debug-level output.
Verbose	All possible trace messages are sent.
Noise	All possible trace messages for the module are logged. The noise level is always equal to the highest possible tracing level. Even if a future enhancement to tracing introduces a higher tracing level, the noise level will become equal to the level of that new enhancement.

### set platform software trace

To set the trace level for a specific module within a process, use the **set platform software trace** command in privileged EXEC or user EXEC mode.

set platform software trace process slot module trace-level

Syntax Description	process	Process whose tracing level is being set. Options include:
		<ul> <li>chassis-manager—The Chassis Manager process.</li> </ul>
		• cli-agent—The CLI Agent process.
		• <b>dbm</b> —The Database Manager process.
		• emd—The Environmental Monitoring process.
		• <b>fed</b> —The Forwarding Engine Driver process.
		<ul> <li>forwarding-manager—The Forwarding Manager process.</li> </ul>
		<ul> <li>host-manager—The Host Manager process.</li> </ul>
		• <b>iomd</b> —The Input/Output Module daemon (IOMd) process.
		• ios—The IOS process.
		• license-manager—The License Manager process.
		logger—The Logging Manager process.
		• platform-mgr—The Platform Manager process.
		<ul> <li>pluggable-services—The Pluggable Services process.</li> </ul>
		• replication-mgr—The Replication Manager process.
		• shell-manager—The Shell Manager process.
		• <b>smd</b> —The Session Manager process.
		• table-manager—The Table Manager Server.
		• wireless—The wireless controller module process.
		• wireshark—The Embedded Packet Capture (EPC) Wireshark process.

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	<ul> <li><b>RP active</b>—The active route processor.</li> </ul>
	<ul> <li>FP active—The active Embedded-Service-Processor.</li> <li>R0—The route processor in slot 0.</li> </ul>
	• <b>F0</b> —The Embedded-Service-Processor in slot 0.
	• <i>SIP-slot / SPA-bay</i> —Number of the SIP switch slot and the number of the shared port adapter (SPA) bay of that SIP. For instance, if you want to specify the SPA in bay 2 of the SIP in switch slot 3, enter 3/2.
	• <i>number</i> —Number of the SIP slot of the hardware module where the trace level is set. For instance, if you want to specify the SIP in SIP slot 2 of the switch, enter 2.
slot	Hardware slot where the process for which the trace level is set, is running. Options include:

	trace-level	Tra	ce level. Options include:
			• <b>debug</b> —Debug level tracing. A debug-level trace message is a non-urgent message providing a large amount of detail about the module.
			• <b>emergency</b> —Emergency level tracing. An emergency-level trace message is a message indicating that the system is unusable.
			<ul> <li>error—Error level tracing. An error-level tracing message is a message indicating a system error.</li> </ul>
		• <b>info</b> —Information level tracing. An information-level tracing message is a non-urgent message providing information about the system.	
			• <b>noise</b> —Noise level tracing. The noise level is always equal to the highest tracing level possible and always generates every possible tracing message.
			The noise level is always equal to the highest-level tracing message possible for a module, even if future enhancements to this command introduce options that allow users to set higher tracing levels.
			• <b>notice</b> —The message is regarding a significant issue, but the switch is still working normally.
			• verbose—Verbose level tracing. All possible tracing messages are sent when the trace level is set to verbose.
			• warning—Warning messages.
Command Default	The default tracing level	for all modules is <b>notice</b> .	
Command Modes	User EXEC (>)		
	Privileged EXEC (#)		
Command History	Release	Modification	
	Cisco IOS XE Everest 10	6.5.1a This command was	introduced.
Usage Guidelines	The <i>module</i> options vary to see which <i>module</i> opti	by process and by <i>hardwa</i> ions are available with each	<i>are-module</i> . Use the ? option when entering this command sh keyword sequence.

Trace files are stored in the tracelogs directory in the harddisk: file system. These files can be deleted without doing any harm to your switch operation.

Trace file output is used for debugging. The trace level is a setting that determines how much information should be stored in trace files about a module.

**Examples** This example shows how to set the trace level for all the modules in dbm process:

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# set platform software trace dbm R0 all-modules debug

### show platform software trace level

To view the trace levels for all the modules under a specific process, use the **show platform software trace level** command in privileged EXEC or user EXEC mode.

#### show platform software trace level process slot

Syntax Description	process	Process whose tracing level is being set. Options include:
		chassis-manager—The Chassis Manager process.
		• cli-agent—The CLI Agent process.
		• cmm—The CMM process.
		• dbm—The Database Manager process.
		• emd—The Environmental Monitoring process.
		• <b>fed</b> —The Forwarding Engine Driver process.
		<ul> <li>forwarding-manager—The Forwarding Manager process.</li> </ul>
		• geo—The Geo Manager process.
		host-manager—The Host Manager process.
		• interface-manager—The Interface Manager process.
		• iomd—The Input/Output Module daemon (IOMd) process.
		• ios—The IOS process.
		license-manager—The License Manager process.
		logger—The Logging Manager process.
		• platform-mgr—The Platform Manager process.
		• pluggable-services—The Pluggable Services process.
		• replication-mgr—The Replication Manager process.
		shell-manager—The Shell Manager process.
		• sif—The Stack Interface (SIF) Manager process.
		• <b>smd</b> —The Session Manager process.
		stack-mgr—The Stack Manager process.
		• table-manager—The Table Manager Server.
		• thread-test—The Multithread Manager process.
		• virt-manager—The Virtualization Manager process.
		• wireless—The wireless controller module process.

slot	Hardware slot where the process for which the trace level is set, is running. Options include:
	• <i>number</i> —Number of the SIP slot of the hardware module where the trace level is set. For instance, if you want to specify the SIP in SIP slot 2 of the switch, enter 2.
	• <i>SIP-slot / SPA-bay</i> —Number of the SIP switch slot and the number of the shared port adapter (SPA) bay of that SIP. For instance, if you want to specify the SPA in bay 2 of the SIP in switch slot 3, enter 3/2.
	• <b>F0</b> —The Embedded Service Processor in slot 0.
	• F1—The Embedded Service Processor in slot 1.
	• FP active—The active Embedded Service Processor.
	• <b>R0</b> —The route processor in slot 0.
	• <b>RP active</b> —The active route processor.
	• <b>switch</b> < <i>number</i> > —The switch, with its number specified.
	• switch active—The active switch.
	• switch standby—The standby switch.
	• <i>number</i> —Number of the SIP slot of the hardware module where the trace level is set. For instance, if you want to specify the SIP in SIP slot 2 of the switch, enter 2.
	• <i>SIP-slot / SPA-bay</i> —Number of the SIP switch slot and the number of the shared port adapter (SPA) bay of that SIP. For instance, if you want to specify the SPA in bay 2 of the SIP in switch slot 3, enter 3/2.
	• <b>F0</b> —The Embedded Service Processor in slot 0.
	• FP active—The active Embedded Service Processor.
	• <b>R0</b> —The route processor in slot 0.
	• <b>RP active</b> —The active route processor.

Command Modes	User EXEC (>)		
	Privileged EXEC (#	)	
Command History	Release	Modification	
	Cisco IOS XE Evere	est 16.5.1a This command was introduced.	
Examples	This example shows	how to view the trace level:	
	# show platform s	oftware trace level dbm switch activ	

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Module Name	Trace Level
binos	Notice
binos/brand	Notice
bipc	Notice
btrace	Notice
bump_ptr_alloc	Notice
cdllib	Notice
chasfs	Notice
dbal	Informational
dbm	Debug
evlib	Notice
evutil	Notice
file_alloc	Notice
green-be	Notice
ios-avl	Notice
klib	Debug
services	Notice
sw_wdog	Notice
syshw	Notice
tdl_cdlcore_message	Notice
tdl_dbal_root_message	Notice
tdl_dbal_root_type	Notice

### request platform software trace archive

To archive all the trace logs relevant to all the processes running on a system since the last reload on the switch and to save this in the specified location, use the **request platform software trace archive** command in privileged EXEC or user EXEC mode.

**request platform software trace archive** [last *number-of-days* [days [target *location*]] | target *location*]

Syntax Description	last number-of-days		Specifies the number of days for which the trace files have to be archived.	
	target location	Spo	cifies the location and name of the archive file.	
Command Modes	User EXEC (>)			
	Privileged EXEC (#)			
Command History	Release	Modification		
	Cisco IOS XE Evere	st 16.5.1a This command was	introduced.	
Usage Guidelines	This archive file can	be copied from the system, us	ing the tftp or scp commands.	
Examples	This example shows the last 5 days:	how to archive all the trace lo	gs of the processes running on the switch since	
	<pre># request platform</pre>	n software trace archive	last 5 days target flash:test archive	

# show platform software btrace-manager

To display the most recent UTF/UTM information for a specific module, use the **show platform software btrace-manager** command in privileged EXEC or user EXEC mode.

show platform software trace filter-binary *filter* [status UTF UTM]

Syntax Description	filter Shows the UT		nows the UTF binary stream filter.
	status	Sł	nows the status of the binary trace manager filter.
	UTF	St	ows the UTF unified trace file.
	UTM	Sł	nows the UTM trace encoder.
Command Modes	User EXEC (>)		
	Privileged EXEC (#)		
Command History	Release	Modification	
	Cisco IOS XE Everest 16.5.1a	This command wa introduced.	S
£xampies	Device# show platform a Estimated disk usage for Disk UTF quota set from Stored preserved UTF t: [2023/03/17 08:40:00.4 Stored non-preserved UT Disk usage for UTF stor Maximum number of files Number of retained UTF for Maximum inflated UTF for Maximum number of files Number of preserved UTP Stale messages from stor Compressed file write to	software btrace-man. or UTF storage (mby n: default ime window (current 419987197] - [2023/ IF time window (cur rage (mbytes): s to retain: files: ile size (mbytes):. s to preserve: F files: files: failes: files: files:	ager R0 utf         tes):61         boot):         03/17 20:16:59.895805251]         rent boot): none
	Device# show platform s Current Time Unified Consolidated Mo Process [Main-ID / Demu Number of Processes . Number of Active trace Message Rate/Sec [Curre Total Messages	software btrace-man. ode ux-ID / FRU ] files ent/Average/Peak].	<b>ager R0 UTM brief</b> Fri Mar 17 20:55:25 2023 FALSE [6382 / 17304 / RP-FRU] 79 61 20 / 11 / 10356 311406

### set logging

To display the time zone for logging operations, use the **set logging** command in privileged EXEC or user EXEC mode.

set logging { backtrace *process* | marker *string* | ra { collect } | timezone { UTC | local } | tracelog-number *process* | tracelog-files-to-preserve *number* | tracelog-storage-quota *size* }

Syntax Description	backtrace		Displays the backtrace details of a specific process.	
	marker		Selects the logs corresponding to the specified marker:	
			<ul> <li>start last marker— The latest matching marker in the marker list.</li> </ul>	
			• end marker— The first matching marker after the star marker.	
	timezone		Sets the time zone to be displayed in trace logs.	
	ra		The time zone set by using the <b>set logging</b> command is displayed for the trace logs of <b>show logging</b> and <b>monitor</b> <b>logging</b> commands. If the time zone is not set for a device, then the trace logss appear in Cordinated Universal Time (UTC). Sets the RA attributes.	
	tracelog-files-to-preserve		Set amount of files to preserve from rotation	
		tracelog-storage-quot	1	Set Tracelog files to preserve
Command Modes	User EXEC (>)			
	Privileged EXEC (#)			
Command History	Release	Modification		
	Cisco IOS XE Fuji 16.9.x	This command was introduced.	3	
Usage Guidelines	In scenarios where the command <b>set logging t</b> you can only configure file is not modified.	time zone has already b <b>imezone UTC</b> and the how you want to see th	been set and the trace logs need to be dispalyed in UTC, use the trace logs will appear in UTC. Note that using this command the timestamp for trace logs. The timestamps within the trace	
	This example shows th	e trace logs when the ti	ime zone is set to <b>UTC</b> .	

device\_2\_9222#show clock \*06:14:29.031 IST Fri Oct 4 2019
device\_2\_9222#show logging process ios
Displaying logs from the last 0 days, 0 hours, 5 minutes, 13 seconds
executing cmd on chassis 1 ...
Collecting files on current[1] chassis.
# of files collected = 15
2019/10/04 06:12:38.051848 {IOSRP\_R0-0}{1}: [iosrp] [6107]: (info): \*Oct 4 00:42:37.992:
%VUDI-6-EVENT:
[serial number: 9SQTGKYU119], [vUDI: ], vUDI is successfully retrieved from license file
device\_2\_9222#set logging timezone UTC
device\_2\_9222#show logging process ios
Displaying logs from the last 0 days, 0 hours, 5 minutes, 40 seconds
executing cmd on chassis 1 ...

Collecting files on current[1] chassis. # of files collected = 15 2019/10/04 00:42:38.051848 {IOSRP\_R0-0}{1}: [iosrp] [6107]: (info): \*Oct 4 00:42:37.992: %VUDI-6-EVENT: [serial number: 9SQTGKYU119], [vUDI: ], vUDI is successfully retrieved from license file

#### This example shows the trace logs when the time zone is set to **local**.

device\_2\_9222#set logging timezone local

device\_2\_9222#show logging process ios Displaying logs from the last 0 days, 0 hours, 7 minutes, 32 seconds executing cmd on chassis 1 ... Collecting files on current[1] chassis. # of files collected = 12 2019/10/04 06:12:38.051848 {IOSRP\_R0-0}{1}: [iosrp] [6107]: (info): \*Oct 4 00:42:37.992: %VUDI-6-EVENT: [serial number: 9SQTGKYU119], [vUDI: ], vUDI is successfully retrieved from license file

# set logging marker

To add a marker trace to all the processes, use the **set logging marker** command. Use the **show logging markers** command to see the markers that were set using the **set logging marker** along with the timestamp.

set logging marker marker-name

Syntax Description	marker-name		Sets the marker trace in the trace logs of a process. The marker string entered is not case sensitive.
Command Modes	User EXEC (>)		
	Privileged EXEC (#)		
Command History	Release	Modification	
	Cisco IOS XE Fuji 16.9.x	This command was introduced.	
	This example show how	w to set a logging mark marker global_100	er.
	Device# <b>show loggin</b> Timestamp UTC	<b>g markers</b> Marker	
	2023/03/13 10:31:34	.667836 global_1	00

# show logging

To display the state of system logging (syslog) and the contents of the standard system logging buffer, use the **show logging** command in privileged EXEC or user EXEC mode.

#### show logging

Syntax Description	This command has no	arguments or keywords.				
Command Modes	User EXEC (>)					
	Privileged EXEC (#)	Privileged EXEC (#)				
Command History	Release	Modification	-			
	Cisco IOS XE Fuji 16.9.x	This command was introduced.	-			
Examples	This example shows th	e output of the <b>show logging</b> com	mand:			
	<pre>device# show logging Syslog logging: enabled (0 messages dropped, 2 messages rate-limited, 0 flushes, 0 overruns, xml disabled, filtering disabled) No Active Message Discriminator.</pre>					
	No Inactive Message Discriminator.					
	Console logging: level debugging, 67 messages logged, xml disabled, filtering disabled Monitor logging: level debugging, 0 messages logged, xml disabled, filtering disabled Buffer logging: level debugging, 160 messages logged, xml disabled, filtering disabled Exception Logging: size (4096 bytes) Count and timestamp logging messages: disabled File logging: disabled Persistent logging: disabled					
	No active filter modules. Trap logging: level informational, 157 message lines logged Logging Source-Interface: VRF Name: TLS Profiles:					
	Log Buffer (102400 bytes):					
	*Mar 9 11:32:47.051: %SMART_LIC-6-AGENT_ENABLED: Smart Agent for Licensing is enabled *Mar 9 11:32:50.053: pagp init: platform supports EC/LACP xFSURA Tracing tool registry return: 0 *Mar 9 11:32:50.103: LACP-GR: infra cb, GR_NONE					
	*Mar 9 11:32:50.10 *Mar 9 11:32:52.61 *Mar 9 11:32:52.617 has been disabled *Mar 9 11:32:52.63 *Mar 9 11:32:52.96	4: BFD: brace register succe 7: %CRYPTO-4-AUDITWARN: Encr : %CRYPTO_ENGINE-4-CSDL_COMPL 0: %SPANTREE-5-EXTENDED_SYSI 4: %LINK-3-UPDOWN: Interface	ss yption audit check could not be performed IANCE_DISABLED: Cisco PSB security compliance D: Extended SysId enabled for type vlan Lsmpi18/3, changed state to up			

```
*Mar 9 11:32:52.976: %LINK-3-UPDOWN: Interface EOBC18/1, changed state to up
*Mar 9 11:32:52.976: %LINEPROTO-5-UPDOWN: Line protocol on Interface LI-Null0, changed
state to up
*Mar 9 11:32:52.977: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed state to down
*Mar 9 11:32:52.977: %LINK-3-UPDOWN: Interface LIIN18/2, changed state to up
*Mar 9 11:32:52.977: %LINK-5-CHANGED: Interface Bluetooth0/4, changed state to
administratively down
*Mar 9 11:32:53.072: %PNP-6-PNP_DISCOVERY_STARTED: PnP Discovery started
*Mar 9 11:32:53.075: %HMANRP-6-HMAN_IOS_CHANNEL_INFO: HMAN-IOS channel event for switch
1: EMP_RELAY: Channel UP!
```

This example shows the output of show logging command for switching devices:

```
device# show logging
Syslog logging: enabled (0 messages dropped, 2 messages rate-limited, 0 flushes, 0 overruns,
xml disabled, filtering disabled)
```

No Active Message Discriminator.

No Inactive Message Discriminator.

Console logging: level debugging, 97 messages logged, xml disabled, filtering disabled Monitor logging: level debugging, 0 messages logged, xml disabled, filtering disabled Buffer logging: level debugging, 190 messages logged, xml disabled, filtering disabled Exception Logging: size (4096 bytes) Count and timestamp logging messages: disabled File logging: disabled Persistent logging: disabled

No active filter modules.

Trap logging: level informational, 187 message lines logged Logging Source-Interface: VRF Name: TLS Profiles:

Log Buffer (102400 bytes):

\*Mar 9 11:32:47.051: %SMART\_LIC-6-AGENT\_ENABLED: Smart Agent for Licensing is enabled \*Mar 9 11:32:50.053: pagp init: platform supports EC/LACP xFSURA Tracing tool registry return: 0 \*Mar 9 11:32:50.103: LACP-GR: infra cb, GR\_NONE

```
*Mar 9 11:32:50.104: BFD: brace register success
*Mar 9 11:32:52.617: %CRYPTO-4-AUDITWARN: Encryption audit check could not be performed
*Mar 9 11:32:52.617: %CRYPTO_ENGINE-4-CSDL_COMPLIANCE_DISABLED: Cisco PSB security compliance
has been disabled
*Mar 9 11:32:52.630: %SPANTREE-5-EXTENDED_SYSID: Extended SysId enabled for type vlan
*Mar 9 11:32:52.964: %LINK-3-UPDOWN: Interface Lsmpi18/3, changed state to up
*Mar 9 11:32:52.976: %LINK-3-UPDOWN: Interface EOBC18/1, changed state to up
*Mar 9 11:32:52.976: %LINK-3-UPDOWN: Line protocol on Interface LI-Null0, changed
state to up
*Mar 9 11:32:52.977: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed state to down
*Mar 9 11:32:52.977: %LINK-3-UPDOWN: Interface LIIN18/2, changed state to up
*Mar 9 11:32:52.977: %LINK-3-UPDOWN: Interface LIIN18/2, changed state to up
*Mar 9 11:32:52.977: %LINK-3-UPDOWN: Interface LIIN18/2, changed state to down
*Mar 9 11:32:52.977: %LINK-5-CHANGED: Interface LIIN18/2, changed state to
administratively down
*Mar 9 11:32:53.072: %PNP-6-PNP DISCOVERY STARTED: PNP Discovery started
```

\*Mar 9 11:32:53.075: %HMANRP-6-HMAN IOS CHANNEL INFO: HMAN-IOS channel event for switch 1: EMP RELAY: Channel UP! \*Mar 9 11:32:35.689: %STACKMGR-6-STACK\_LINK\_CHANGE: Switch 1 R0/0: stack\_mgr: Stack port 1 on Switch 1 is cable-not-connected \*Mar 9 11:32:35.689: %STACKMGR-6-STACK LINK CHANGE: Switch 1 R0/0: stack mgr: Stack port 2 on Switch 1 is down \*Mar 9 11:32:35.689: %STACKMGR-6-STACK LINK CHANGE: Switch 1 R0/0: stack mgr: Stack port 2 on Switch 1 is cable-not-connected \*Mar 9 11:32:36.114: %STACKMGR-4-SWITCH ADDED: Switch 1 R0/0: stack mgr: Switch 1 has been added to the stack. \*Mar 9 11:32:38.537: %STACKMGR-4-SWITCH ADDED: Switch 1 R0/0: stack mgr: Switch 1 has been added to the stack. \*Mar 9 11:32:40.548: %STACKMGR-4-SWITCH ADDED: Switch 1 R0/0: stack mgr: Switch 1 has been added to the stack. \*Mar 9 11:32:40.548: %STACKMGR-6-ACTIVE ELECTED: Switch 1 R0/0: stack mgr: Switch 1 has been elected ACTIVE. \*Mar 9 11:32:53.079: %HMANRP-6-EMP NO ELECTION INFO: Could not elect active EMP switch, setting emp active switch to 0: EMP RELAY: Could not elect switch with mgmt port UP \*Mar 9 11:32:53.541: %SYS-5-CONFIG\_P: Configured programmatically by process MGMT VRF Process from console as vty0 <output truncated>

#### This example shows the output of show logging command for routing devices:

Syslog logging: enabled (0 messages dropped, 5 messages rate-limited, 0 flushes, 0 overruns, xml disabled, filtering disabled)

No Active Message Discriminator.

No Inactive Message Discriminator.

```
Console logging: disabled
Monitor logging: level debugging, 0 messages logged, xml disabled,
filtering disabled
Buffer logging: level debugging, 117 messages logged, xml disabled,
filtering disabled
Exception Logging: size (4096 bytes)
Count and timestamp logging messages: disabled
Persistent logging: disabled
```

No active filter modules.

```
Trap logging: level informational, 114 message lines logged
Logging Source-Interface: VRF Name:
TLS Profiles:
```

Log Buffer (102400 bytes):

\*Mar 10 08:51:14.309: %SPANTREE-5-EXTENDED SYSID: Extended SysId enabled for type vlan \*Mar 10 08:51:14.312: %TLSCLIENT-5-TLSCLIENT IOS: TLS Client is IOS based \*Mar 10 08:51:14.420: %CRYPTO ENGINE-5-CSDL COMPLIANCE ENFORCED: Cisco PSB security compliance is being enforced \*Mar 10 08:51:14.420: %CRYPTO ENGINE-5-CSDL COMPLIANCE EXCEPTION ADDED: Cisco PSB security compliance exception has been added by this platform for use of RSA Key Size \*Mar 10 08:51:14.459: %CUBE-3-LICENSING: SIP trunking (CUBE) licensing is now based on dynamic sessions counting, static license capacity configuration through 'mode border-element license capacity' would be ignored. \*Mar 10 08:51:14.459: %SIP-5-LICENSING: CUBE license reporting period has been set to the minimum value of 8 hours. \*Mar 10 08:51:14.496: %VOICE HA-7-STATUS: CUBE HA-supported platform detected.pm platform init() line :3156 \*Mar 10 08:51:16.689: %IOSXE RP ALARM-2-PEM: ASSERT CRITICAL Power Supply Bay 1 Power Supply/FAN Module Missing \*Mar 10 08:51:16.712: %CRYPTO SL TP LEVELS-6-ROMMON VAL: Current rommon value: T1 \*Mar 10 08:51:16.712: %CRYPTO SL TP LEVELS-6-TIER BASED LIC: Tier Based License Support: 1 \*Mar 10 08:51:16.713: %CRYPTO\_SL\_TP\_LEVELS-6-TP\_THROTTLE\_STATE: Crypto throughput is throttled. New level is 250000 \*Mar 10 08:51:16.762: %LINK-3-UPDOWN: Interface EOBCO, changed state to up \*Mar 10 08:51:16.779: %LINK-3-UPDOWN: Interface Lsmpi0, changed state to up \*Mar 10 08:51:16.779: %LINEPROTO-5-UPDOWN: Line protocol on Interface LI-NullO, changed state to up \*Mar 10 08:51:16.780: %LINEPROTO-5-UPDOWN: Line protocol on Interface VoIP-Null0, changed state to up \*Mar 10 08:51:16.780: %LINEPROTO-5-UPDOWN: Line protocol on Interface SR0, changed state to up \*Mar 10 08:51:16.781: %LINK-3-UPDOWN: Interface LIINO, changed state to up \*Mar 10 08:51:16.929: %PNP-6-PNP DISCOVERY STARTED: PnP Discovery started \*Mar 10 08:50:14.051: %IOSXE-6-PLATFORM: R0/0: disk-module: Number of disks detected:1 \*Mar 10 08:50:24.124: %IOSXE-6-PLATFORM: R0/0: disk-module: forcing config of LVM in non-raid-enable case \*Mar 10 08:50:24.143: %IOSXE-6-PLATFORM: R0/0: disk-module: /obfl is not mounted yet, sleeping ... \*Mar 10 08:50:25.152: %IOSXE-6-PLATFORM: R0/0: disk-module: /obfl is not mounted yet, sleeping... \*Mar 10 08:50:26.161: %IOSXE-6-PLATFORM: R0/0: disk-module: /obfl is not mounted yet, sleeping... \*Mar 10 08:50:27.171: %IOSXE-6-PLATFORM: R0/0: disk-module: /obfl is not mounted yet, sleeping.. \*Mar 10 08:50:28.181: %IOSXE-6-PLATFORM: R0/0: disk-module: /obfl is not mounted yet, sleeping.. \*Mar 10 08:50:29.200: %IOSXE-6-PLATFORM: R0/0: disk-module: /obfl is not mounted yet, sleeping... \*Mar 10 08:50:31.555: %IOSXE-6-PLATFORM: R0/0: disk-module: check lvm mismatch: disk count=1, pv count=1, db pv uuid=PVUUID:vcxG9z-fWQg-Q1yS-eeFk-kEVA-hmTX-Wiklni uuid count=1 \*Mar 10 08:50:31.783: %IOSXE-6-PLATFORM: R0/0: disk-module: no mismatch found \*Mar 10 08:50:32.138: %IOSXE-6-PLATFORM: R0/0: disk-module: Volume group alredy existing <output truncated>

#### This example shows the output of show logging command for wireless devices:

device#show logging Syslog logging: enabled (0 messages dropped, 5 messages rate-limited, 0 flushes, 0 overruns, xml disabled, filtering disabled)

No Active Message Discriminator.

No Inactive Message Discriminator.

Console logging: disabled Monitor logging: level debugging, 0 messages logged, xml disabled, filtering disabled Buffer logging: level debugging, 130 messages logged, xml disabled, filtering disabled Exception Logging: size (4096 bytes) Count and timestamp logging messages: disabled Persistent logging: disabled No active filter modules. Trap logging: level informational, 130 message lines logged Logging Source-Interface: VRF Name: TLS Profiles: Log Buffer (102400 bytes): \*Mar 10 08:50:59.304: %CRYPTO-5-SELF TEST START: Crypto algorithms release (Rel5b), Entropy release (3.4.1) begin self-test \*Mar 10 08:50:59.606: %CRYPTO-5-SELF TEST END: Crypto algorithms self-test completed successfully All tests passed. \*Mar 10 08:51:02.432: %SMART LIC-6-AGENT ENABLED: Smart Agent for Licensing is enabled \*Mar 10 08:51:02.661: %SMART LIC-6-EXPORT CONTROLLED: Usage of export controlled features is not allowed \*Mar 10 08:51:05.434: SDWAN INFO: sdwan if subsys init for autonomous mode \*Mar 10 08:51:05.434: SDWAN INFO: Received ctrl\_mng\_mode Enable event \*Mar 10 08:51:05.710: SDWAN INFO: IOS-SDWAN-RP: Registered for chasfs events, rc 0 \*Mar 10 08:51:06.812: %SPANTREE-5-EXTENDED SYSID: Extended SysId enabled for type vlan \*Mar 10 08:51:06.816: %TLSCLIENT-5-TLSCLIENT IOS: TLS Client is IOS based \*Mar 10 08:51:06.938: %CRYPTO ENGINE-5-CSDL COMPLIANCE ENFORCED: Cisco PSB security compliance is being enforced \*Mar 10 08:51:06.938: %CRYPTO ENGINE-5-CSDL COMPLIANCE EXCEPTION ADDED: Cisco PSB security compliance exception has been added by this platform for use of RSA Key Size \*Mar 10 08:51:06.982: %CUBE-3-LICENSING: SIP trunking (CUBE) licensing is now based on dynamic sessions counting, static license capacity configuration through 'mode border-element license capacity' would be ignored. \*Mar 10 08:51:06.982: %SIP-5-LICENSING: CUBE license reporting period has been set to the minimum value of 8 hours. \*Mar 10 08:51:07.032: %VOICE HA-7-STATUS: CUBE HA-supported platform detected.pm platform init() line :3156 \*Mar 10 08:51:09.341: %IOSXE RP ALARM-2-PEM: ASSERT CRITICAL Power Supply Bay 1 Power Supply/FAN Module Missing \*Mar 10 08:51:09.378: %CRYPTO SL TP LEVELS-6-ROMMON VAL: Current rommon value: 1000000 \*Mar 10 08:51:09.378: %CRYPTO SL TP LEVELS-6-TIER BASED LIC: Tier Based License Support: 1 <output truncated>

# show logging process

To view messages logged by binary trace for a process or processes, use the **show logging process** command in privileged EXEC or user EXEC mode.

show logging process process-name

Syntax Description	process-name		You can choose a certain process for which the logs need to be displayed. Example: <b>dbm</b> , <b>sman</b> , <b>ios</b> , <b>btman</b> and so on. The process name is not case sensitive.			
Command Default	The default tracing leve	el for all modules is <b>not</b>	tice.			
Command Modes	User EXEC (>)					
Command History	Release	Modification				
	Cisco IOS XE Fuji 16.9.x	This command was introduced.				
	This example shows how to display the logs below the <b>notice</b> level.					
	device# <b>show logging</b> Logging display req [C9800-CL-K9], Ver:	process ios level n uested on 2022/10/27 sion: [17.11.01], SN	<pre>Notice 7 09:38:29 (PDT) for Hostname: [vwlc_1_9222], Model N: [9ZY0U03YBM0], MD_SN: [9ZY0U03YBM0]</pre>			
	Displaying logs from executing cmd on cha Unified Decoder Lib: Found 1 UTF Streams	m the last 0 days, 0 assis 1 rary Init DONE	) hours, 10 minutes, 0 seconds			
	2022/10/27 09:31:52 console@console:use: 2022/10/27 09:31:59 console@console:user PST 2022/10/27 09:32:14 console@console:use: 2022/10/27 09:38:16 console@console:use: 08:38:14.411 PST	.835197577 {iosrp_R0 r= cmd: 'show loggin .651965736 {iosrp_R0 = cmd: 'show logging .066181552 {iosrp_R0 r= cmd: 'show loggin .803577389 {iosrp_R0 r= cmd: 'show loggin	<pre>)-0}{1}: [parser_cmd] [26471]: (note): id= ig process ios' SUCCESS 2022/10/27 08:31:48.762 PST )-0}{1}: [parser_cmd] [26471]: (note): id= process ios internal' SUCCESS 2022/10/27 08:31:56.48 )-0}{1}: [parser_cmd] [26471]: (note): id= ing process ios' SUCCESS 2022/10/27 08:32:06.271 PST )-0}{1}: [parser_cmd] [26471]: (note): id= ing process ios level error' SUCCESS 2022/10/27</pre>			
	====== Unified Trac	ce Decoder Informati ====================================	 lon/Statistics ====== 			
	De	ecoder Input Informa	ation			
	Num of Unique Strea Total UTF To Proces Total UTM To Proces UTM Process Filter MRST Filter Rules	ams 1 ss 1 ss 77004 ios 48				

Decoder Output Info	ormation
First UTM TimeStamp Last UTM TimeStamp UTM [Skipped / Rendered / Total] UTM [ENCODED] UTM [PLAIN TEXT] UTM [DYN LIB] UTM [MODULE ID] UTM [TDL TAN] UTM [APP CONTEXT] UTM [APP CONTEXT] UTM [MARKER] UTM [PCAP] UTM [LUID NOT FOUND]	2022/10/27 02:21:47.048461994 2022/10/27 09:38:28.248097600 77000 / 4 / 77004 76864 97 0 0 43 0 0 0 0 0 0 0

This example shows the traces for a process with the process name ios.

#### device#show logging process ios

```
Logging display requested on 2022/10/27 09:32:06 (PDT) for Hostname: [vwlc_1_9222], Model:
 [C9800-CL-K9], Version: [17.11.01], SN: [9ZY0U03YBM0], MD SN: [9ZY0U03YBM0]
Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds
executing cmd on chassis 1 ...
Unified Decoder Library Init .. DONE
Found 1 UTF Streams
2022/10/27 09:31:52.835197577 {iosrp_R0-0}{1}: [parser_cmd] [26471]: (note): id=
console@console:user= cmd: 'show logging process ios' SUCCESS 2022/10/27 08:31:48.762 PST
2022/10/27 09:31:59.651965736 {iosrp R0-0}{1}: [parser cmd] [26471]: (note): id=
console@console:user= cmd: 'show logging process ios internal' SUCCESS 2022/10/27 08:31:56.485
PST
_____
====== Unified Trace Decoder Information/Statistics ======
_____
----- Decoder Input Information -----
_____
Num of Unique Streams .. 1
Total UTF To Process ... 1
Total UTM To Process ... 75403
UTM Process Filter ..... ios
MRST Filter Rules ..... 4
_____
----- Decoder Output Information -----
_____
First UTM TimeStamp ..... 2022/10/27 02:21:47.048461994
Last UTM TimeStamp ..... 2022/10/27 09:32:04.919540850
UTM [Skipped / Rendered / Total] .. 75401 / 2 / 75403
UTM [ENCODED] ..... 75266
UTM [PLAIN TEXT] ..... 94
UTM [DYN LIB] ..... 0
UTM [MODULE ID] ..... 0
UTM [TDL TAN] ..... 43
UTM [APP CONTEXT] ..... 0
UTM [MARKER] ..... 0
UTM [PCAP] ..... 0
UTM [LUID NOT FOUND] ..... 0
```

This example shows the traces for a process with the process name **dbman**.

\_\_\_\_\_

```
device# show logging process dbman
Logging display requested on 2023/03/10 10:12:53 (UTC) for Hostname: [FABRIEK], Model:
[C8300-1N1S-4T2X], Version: [17.12.01], SN: [FD024190V85], MD_SN: [FD02451M13G]
Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds
executing cmd on chassis local ...
Unified Decoder Library Init .. DONE
Found 1 UTF Streams
_____
====== Unified Trace Decoder Information/Statistics ======
_____
----- Decoder Input Information ------
_____
Num of Unique Streams .. 1
Total UTF To Process ... 1
Total UTM To Process ... 62792
UTM Process Filter ..... dbman
MRST Filter Rules ..... 1
_____
----- Decoder Output Information -----
First UTM TimeStamp ..... 2023/03/10 08:50:15.477092062
Last UTM TimeStamp ..... 2023/03/10 10:12:51.936845381
UTM [Skipped / Rendered / Total] .. 62792 / 0 / 62792
UTM [ENCODED] ..... 0
UTM [PLAIN TEXT] ..... 0
UTM [DYN LIB] ..... 0
UTM [MODULE ID] ..... 0
UTM [TDL TAN] ..... 0
UTM [APP CONTEXT] ..... 0
UTM [MARKER] ..... 0
UTM [PCAP] ..... 0
UTM [LUID NOT FOUND] ..... 0
UTM Level [EMERGENCY / ALERT / CRITICAL / ERROR] .. 0 / 0 / 0 / 0
UTM Level [WARNING / NOTICE / INFO / DEBUG] ..... 0 / 0 / 0 / 0
UTM Level [VERBOSE / NOISE / INVALID] ..... 0 / 0 / 0
_____
```

#### This example shows the traces for Cisco SD-WAN processes.

Device# show logging process fpmd internal start last boot Logging display requested on 2020/11/09 07:13:08 (UTC) for Hostname: [Device], Model: [ISR4451-X/K9], Version: [17.04.01], SN: [FOC23125GHG], MD SN: [FGL231432EQ] Displaying logs from the last 7 days, 0 hours, 14 minutes, 55 seconds executing cmd on chassis local ... 2020/11/02 07:00:59.314166 {fpmd pman R0-0}{1}: [btrace] [7403]: (note): Btrace started for process ID 7403 with 512 modules 2020/11/02 07:00:59.314178 {fpmd\_pman\_R0-0}{1}: [btrace] [7403]: (note): File size max used for rotation of tracelogs: 8192 2020/11/02 07:00:59.314179 {fpmd pman R0-0}{1}: [btrace] [7403]: (note): File size max used for rotation of TAN stats file: 8192 2020/11/02 07:00:59.314179 {fpmd pman R0-0}{1}: [btrace] [7403]: (note): File rotation timeout max used for rotation of TAN stats file: 600 2020/11/02 07:00:59.314361 {fpmd pman R0-0}{1}: [btrace] [7403]: (note): Boot level config file [/harddisk/tracelogs/level config/fpmd pman R0-0] is not available. Skipping 2020/11/02 07:00:59.314415 {fpmd pman R0-0}{1}: [benv] [7403]: (note): Environment variable BINOS BTRACE LEVEL MODULE PMAN is not set 2020/11/02 07:00:59.314422 {fpmd pman R0-0}{1}: [benv] [7403]: (note): Environment variable FPMD BTRACE LEVEL is not set 2020/11/02 07:00:59.314424 {fpmd pman R0-0}{1}: [fpmd pman] [7403]: (note): BTRACE FILE SI

I

# show logging process-helper

To display the logs for a specific process, use the **show logging process-helper** command in privileged EXEC or user EXEC mode.

show logging process-helper process-name

Syntax Description	process-name		You can choose a certain process for which the logs need to be displayed. Example: <b>bt-logger</b> , <b>btrace-manager</b> , <b>ios</b> , <b>dbm</b> , <b>logger</b> , and so on.			
Command Default	The default tracing leve	el for all modules is <b>not</b>	ice.			
Command Modes	User EXEC (>)					
	Privileged EXEC (#)					
Command History	Release	Modification				
	Cisco IOS XE Fuji 16.9.x	This command was introduced.				
	The following example shows how to display logs for a specific process.					
	Device# <b>show logging process-helper ios</b> Logging display requested on 2023/03/13 10:30:29 (UTC) for Hostname: [FABRIEK], Model: [C8300-1N1S-4T2X], Version: [17.12.01], SN: [FD024190V85], MD_SN: [FD02451M13G]					
	Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds executing cmd on chassis local Unified Decoder Library Init DONE Found 1 UTF Streams					
	2023/03/13 10:30:16.884663022 {iosrp_R0-0}{255}: [parser_cmd] [3793]: (note): id= 10.68.219.145@vty0:user= cmd: 'enable' SUCCESS 2023/03/13 10:30:10.721 UTC					
	======= Unified Tra	ce Decoder Informati	.on/Statistics ======			
	D	ecoder Input Informa ====================================	ition			
	Num of Unique Stre. Total UTF To Proce. Total UTM To Proce. UTM Process Filter MRST Filter Rules	ams 1 ss 1 ss 88985 IOSRP 1				
	Decoder Output Information					
	First UTM TimeStamp Last UTM TimeStamp UTM [Skipped / Ren UTM [ENCODED] UTM [PLAIN TEXT] . UTM [DYN LIB]	p 20 dered / Total] 88 	23/03/13 08:13:19.321653302 23/03/13 10:30:27.267645695 984 / 1 / 88985			

UTM [MODULE ID]0							
UTM [TDL TAN]0							
UTM [APP CONTEXT]0							
UTM [MARKER]0							
UTM [PCAP] 0							
UTM [LUID NOT FOUND] 0							
UTM Level [EMERGENCY / ALERT / CRITICAL / ERROR]	0	/	0	/	0	/	0
UTM Level [WARNING / NOTICE / INFO / DEBUG]	0	/	1	/	0	/	0
UTM Level [VERBOSE / NOISE / INVALID]	0	/	0	/	0		
				_			

### show logging profile

To display the logs for a specific profile, use the **show logging profile** command in privileged EXEC or user EXEC mode.

#### show logging profile profile-name

Syntax Description	profile-name		• all: Displays the logs for all processes.
			• file: Displays the logs for a specific profile file.
			• hardware-diagnostics: Displays the logs for the hardware-diagnostics specific processes
			• install: Displays the logs for Install-specific processes.
			<ul> <li>netconf-yang: Displays the logs for netconf-yang specific processes.</li> </ul>
			<ul> <li>restconf: Displays the logs for restconf-specific processes.</li> </ul>
			<ul> <li>sdwan: Displays the logs for SDWAN-specific processes.</li> </ul>
			• wireless: Displays the logs for Wireless-specific processes.
Command Default	None		
Command Modes	User EXEC (>)		
	Privileged EXEC (#)		
Command History	Release	Modification	

Cisco IOS XE Fuji 16.9.x
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#### This examples shows how to display trace logs for all processes:

```
device# show logging profile all
Logging display requested on 2023/03/10 17:57:15 (UTC) for Hostname: [FABRIEK], Model:
[C8300-1N1S-4T2X], Version: [17.12.01], SN: [FD024190V85], MD_SN: [FD02451M13G]
Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds
executing cmd on chassis local ...
Unified Decoder Library Init .. DONE
Found 1 UTF Streams
2023/03/10 17:47:58.925423708 {btman_R0-0}{255}: [utm_main] [6412]: (note): Inserted UTF(2)
HT(old):droputil_R0-0[13] lnode /tmp/rp/trace/droputil_R0-0.7159_623.20230310174758.bin
```

PID:7159

**Examples** 

2023/03/10 17:47:59.925149151 {btman R0-0}{255}: [utm wq] [6412:17298]: (note): Inline sync, enqueue BTF message flags:0x1, PID:17298 BTF:/tmp/rp/trace/droputil R0-0.7159 622.20230310174708.bin 2023/03/10 17:47:59.932633561 {btman R0-0}{255}: [utm wq] [6412]: (note): utm delete /tmp/rp/trace/droputil R0-0.7159 622.20230310174708.bin 2023/03/10 17:48:48.937338685 {btman R0-0}{255}: [utm main] [6412]: (note): Inserted UTF(2) HT(old):droputil R0-0[13] lnode /tmp/rp/trace/droputil R0-0.7159 624.20230310174848.bin PTD:7159 2023/03/10 17:48:49.937053442 {btman R0-0}{255}: [utm wq] [6412:17298]: (note): Inline sync, enqueue BTF message flags:0x1, PID:17298 BTF:/tmp/rp/trace/droputil R0-0.7159 623.20230310174758.bin <output truncated> device#show logging profile all Logging display requested on 2023/03/10 18:39:56 (UTC) for Hostname: [BRU-C9K-153-05], Model: [C9300-24T], Version: [17.03.05], SN: [FOC24140R40], MD SN: [FOC2415U0XX] Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds executing cmd on chassis 1 ... 2023/03/10 18:32:54.755987 {IOSRP R0-0}{1}: [iosrp] [22736]: (info): \*Mar 10 18:32:54.755: %SYS-6-TTY EXPIRE TIMER: (exec timer expired, tty 1 (10.68.217.91)), user cisco 2023/03/10 18:32:54.756076 {IOSRP R0-0}{1}: [iosrp] [22736]: (info): \*Mar 10 18:32:54.756: %SYS-6-LOGOUT: User cisco has exited tty session 1(10.68.217.91) 2023/03/10 18:33:03.948149 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Job 1023 SAUtilityMeasurementJob, Matching 1023 SAUtilityMeasurementJob 2023/03/10 18:33:03.948170 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Find the Job for removal 0x7FC0BD9A99F0 2023/03/10 18:33:03.948179 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Found the element for removal 0x7FC0BD9BF288 ->0x7FC0BD9BD5A8 2023/03/10 18:33:03.948185 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Removinging Job SAUtilityMeasurementJob 0x7FC0BE3EF590, leaf 0x7FC0ADA357A0 2023/03/10 18:33:03.948191 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Attaching Job SAUtilityMeasurementJob to Exec Queue Head 2023/03/10 18:33:03.948197 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Executing from Queue, Job SAUtilityMeasurementJob (20) 2023/03/10 18:33:03.948214 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Setting SAUtilityMeasurementJob IN PROGRESS False to True 2023/03/10 18:33:03.948221 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-utility measurement start 2023/03/10 18:33:03.948227 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[1], n[3] 2023/03/10 18:33:03.948244 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[2], n[2] 2023/03/10 18:33:03.948251 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[5], n[1] 2023/03/10 18:33:03.948271 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[6], n[0] 2023/03/10 18:33:03.948277 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[1], n[3] 2023/03/10 18:33:03.948283 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[2], n[2] 2023/03/10 18:33:03.948303 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[5], n[1] 2023/03/10 18:33:03.948310 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[6], n[0] 2023/03/10 18:33:03.948315 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Prepare grant request struct - started 2023/03/10 18:33:03.948321 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[1], n[3] 2023/03/10 18:33:03.948327 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[2], n[2] 2023/03/10 18:33:03.948333 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[5], n[1] 2023/03/10 18:33:03.948339 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):

SAUtilMeasurement-Get Handle List: next id[6], n[0] 2023/03/10 18:33:03.948345 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Prepare grant request struct - grant[0], numEndPoints: 0 2023/03/10 18:33:03.948350 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Prepare grant request struct - grant[1], numEndPoints: 0 2023/03/10 18:33:03.948385 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Prepare grant request struct - grant list built successfully, numGrant: 2, numEndPoints: 0 2023/03/10 18:33:03.948391 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[1], n[3] 2023/03/10 18:33:03.948397 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[2], n[2] 2023/03/10 18:33:03.948403 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[5], n[1] 2023/03/10 18:33:03.948409 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[6], n[0]

# show logging profile wireless

To display the logs for a specific profile, use the **show logging profile wireless** command in privileged EXEC or user EXEC mode.

show logging profile wireless

#### Syntax Description

This command has no keywords or arguments.

Command Default	None.					
Command Modes	User EXEC (>)					
	Privileged EXEC (#)					
Command History	Release	Modification				
	Cisco IOS XE Everest 16.5.1a	This command was introduced.				
Usage Guidelines	Ensure that you enable inte the trace output.	ernal keyword using the <b>show logging profile wireless internal</b> co	ommand to get			
	Without the internal keyword, only customer curated logs are displayed.					
	The following example shows how to display logs for the wireless profile.					
	Device# <b>show logging profile wireless</b> Logging display requested on 2023/03/13 09:07:09 (UTC) for Hostname: [FABRIEK], Model: [C8300-1N1S-4T2X], Version: [17.12.01], SN: [FD024190V85], MD_SN: [FD02451M13G]					
	Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds executing cmd on chassis local Unified Decoder Library Init DONE					
	Found 1 UTF Streams					
	2023/03/13 08:57:34.084609935 {iosrp_R0-0}{255}: [parser_cmd] [3793]: (note): id= 10.68.219.145@vty0:user= cmd: 'show logging profile wireless level info' SUCCESS 2023/03/13 08:57:31.376 UTC					
	2023/03/13 09:07:03.562290152 {iosrp_R0-0}{255}: [parser_cmd] [3793]: (note): id= 10.68.219.145@vty0:user= cmd: 'show logging profile wireless internal ' SUCCESS 2023/03/13 08:58:51.922 UTC					
	======= Unified Trace Decoder Information/Statistics ======					
	Decoder Input Information					
	Num of Unique Streams Total UTF To Process Total UTM To Process UTM Process Filter					

```
MRST Filter Rules ..... 24
_____
----- Decoder Output Information -----
_____
First UTM TimeStamp ..... 2023/03/13 08:13:19.321653302
Last UTM TimeStamp ..... 2023/03/13 09:07:08.462269864
UTM [Skipped / Rendered / Total] .. 55408 / 2 / 55410
UTM [ENCODED] ..... 2
UTM [PLAIN TEXT] ..... 0
UTM [DYN LIB] ..... 0
UTM [MODULE ID] ..... 0
UTM [TDL TAN] ..... 0
UTM [APP CONTEXT] ..... 0
UTM [MARKER] ..... 0
UTM [PCAP] ..... 0
UTM [LUID NOT FOUND] ..... 0
UTM Level [EMERGENCY / ALERT / CRITICAL / ERROR] .. 0 / 0 / 0 / 0
UTM Level [WARNING / NOTICE / INFO / DEBUG] ..... 0 / 2 / 0 / 0
UTM Level [VERBOSE / NOISE / INVALID] ..... 0 / 0 / 0
_____
```

#### The following example example shos how to display logs for the wireless profile

Device# show logging profile wireless Logging display requested on 2023/03/13 09:18:51 (UTC) for Hostname: [BRU-C9K-153-05], Model: [C9300-24T], Version: [17.03.05], SN: [FOC24140R40], MD SN: [FOC2415U0XX] Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds executing cmd on chassis 1 ... 2023/03/13 09:18:03.943258 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Job 1023 SAUtilityMeasurementJob, Matching 1023 SAUtilityMeasurementJob 2023/03/13 09:18:03.943280 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Find the Job for removal 0x7FC0BE3E8CE0 2023/03/13 09:18:03.943300 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Found the element for removal 0x7FC0BD9BEAA8 ->0x7FC0BD9BE878 2023/03/13 09:18:03.943307 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Removinging Job SAUtilityMeasurementJob 0x7FC0BD9A7C40, leaf 0x7FC0ADA357A0 2023/03/13 09:18:03.943313 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Attaching Job SAUtilityMeasurementJob to Exec Queue Head 2023/03/13 09:18:03.943319 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Executing from Queue, Job SAUtilityMeasurementJob (20) 2023/03/13 09:18:03.943325 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Setting SAUtilityMeasurementJob IN PROGRESS False to True 2023/03/13 09:18:03.943342 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-utility measurement start 2023/03/13 09:18:03.943349 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[1], n[3] 2023/03/13 09:18:03.943355 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[2], n[2] 2023/03/13 09:18:03.943361 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[5], n[1] 2023/03/13 09:18:03.943367 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[6], n[0] 2023/03/13 09:18:03.943373 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[1], n[3] 2023/03/13 09:18:03.943398 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[2], n[2] 2023/03/13 09:18:03.943405 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[5], n[1] 2023/03/13 09:18:03.943411 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[6], n[0]

2023/03/13 09:18:03.943417 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Prepare grant request struct - started 2023/03/13 09:18:03.943423 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[1], n[3] 2023/03/13 09:18:03.943429 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[2], n[2] 2023/03/13 09:18:03.943434 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[5], n[1] 2023/03/13 09:18:03.943440 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[6], n[0] 2023/03/13 09:18:03.943446 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Prepare grant request struct - grant[0], numEndPoints: 0 2023/03/13 09:18:03.943490 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Prepare grant request struct - grant[1], numEndPoints: 0 2023/03/13 09:18:03.943497 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Prepare grant request struct - grant list built successfully, numGrant: 2, numEndPoints: 0 2023/03/13 09:18:03.943503 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[1], n[3] 2023/03/13 09:18:03.943509 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[2], n[2] 2023/03/13 09:18:03.943515 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[5], n[1] 2023/03/13 09:18:03.943521 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[6], n[0] 2023/03/13 09:18:03.943527 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Checking 0 tag[regid.2017-03.com.cisco.advantagek9,1.0 bd1da96e-ec1d-412b-a50e-53846b347d53] handle[1] utility[0x7FC0B1BDA340] 2023/03/13 09:18:03.943533 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-process append measurement 2023/03/13 09:18:03.943538 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Returning NULL for item 8 2023/03/13 09:18:03.943586 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-There are 1 Raw Udi's and 1 Unique Udi's 2023/03/13 09:18:03.943593 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[1], n[3] 2023/03/13 09:18:03.943599 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[2], n[2] 2023/03/13 09:18:03.943605 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[5], n[1] <output truncated>

# show logging profile wireless end

To specify log filtering end location timestamp for filtering, use the **show logging profile wireless end timestamp** command.

**show logging profile wireless end timestamp** *time-stamp* show logging profile wireless end timestamp time-stamp

Syntax Description	<b>n</b> <i>time-stamp</i> The timestamp to end the filtering. For example, 202 14:41:50.849.		he timestamp to end the filtering. For example, 2023/02/10 4:41:50.849.
Command Default	None.		
Command Modes	User EXEC (>)		
	Privileged EXEC (#)		
Command History	Release	Modification	
	Cisco IOS XE Fuji 16.9.x	This command was introduced.	
Usage Guidelines	Ensure that you enable the trace output.	internal keyword using th	e show logging profile wireless internal command to get
	Without the <b>internal</b> keep	eyword, only customer cu	ated logs are displayed.
Examples	The following example	e shows how to specify log	filtering start/end location timestamp for filtering:
	Device# show loggin end timestamp "2018	g profile wireless int /07/16 23:19:52.671" t	ernal start timestamp "2018/07/16 23:09:52.541" o-file test
	excuting cmd on cha Files being merged Collecting files on Decoding files: btrace decoder: 2018-07-16 2018-07-16 2018-07-16 2018-07-16 2018-07-16	<pre>ssis 1 in the background, res current[1] chassis.     number of files: 23:23:51.451 - btrace 23:23:51.832 - btrace 23:23:52.108 - btrace 23:23:52.138 - btrace 23:23:52.222 - btrace</pre>	ult will be in /bootflash/test log file. [48] number of messages: [5736] decoder processed 17% decoder processed 34% decoder processed 52% decoder processed 69% decoder processed 87% decoder processed 98%

### show logging profile wireless filter

\ show logging profile wireless filter { interface | ipv4 | ipv6 | mac | ra | string | uuid } **Syntax Description** interface Selects logs with specific interface app context. ipv4 Selects logs with specific IPv4 address app context. ipv6 Selects logs with specific IPv6 address app context. Selects logs with specific MAC app context. mac string Selects logs with specific string app context. uuid Selects logs with specific Universally Unique Identifier (UUID) app context. Selects the radioactive logs. ra None **Command Default** User EXEC (>) **Command Modes** Privileged EXEC (#) **Command History** Release Modification Cisco IOS XE Everest This command was 16.5.1a introduced. Ensure that you enable internal keyword using the **show logging profile wireless internal** command to get **Usage Guidelines** the trace output. Without the **internal** keyword, only customer curated logs are displayed. The following example shows how to specify filter for logs: Device# show logging profile wireless filter mac ECE1.A9DA.OCE0 excuting cmd on chassis 1 ... Collecting files on current[1] chassis. Total # of files collected = 28 Decoding files: /harddisk/tracelogs/tmp\_trace/nmspd pmanlog R0-0.3187 0.20171107021702.bin: DECODE(22:0:22:1) /harddisk/tracelogs/tmp trace/rrm pmanlog R0-0.6868 0.20171107021710.bin: DECODE(22:0:22:1) /harddisk/tracelogs/tmp trace/repm pmanlog R0-0.5836 0.20171107021708.bin: DECODE(24:0:24:1) /harddisk/tracelogs/tmp\_trace/rogued\_pmanlog\_R0-0.6232\_0.20171107021708.bin: DECODE(22:0:22:1) /harddisk/tracelogs/tmp\_trace/fman\_fp\_F0-0.1940\_1.20171107030724.bin: DECODE(5736:0:5736:5) /harddisk/tracelogs/tmp trace/mobilityd pmanlog R0-0.388 0.20171107021659.bin: DECODE (22:0:22:1)

To specify filter for logs, use the show logging profile wireless filter command.

/harddisk/tracelogs/tmp\_trace/odm\_proxy\_pmanlog\_R0-0.4237\_0.20171107021704.bin: DECODE(21:0:21:1)

/harddisk/tracelogs/tmp\_trace/mobilityd\_R0-0.1045\_0.20171107021729.bin: DECODE(141:0:141:17)
/harddisk/tracelogs/tmp\_trace/odm\_R0-0.4371\_0.20171107021707.bin: DECODE(36:0:36:5)
/harddisk/tracelogs/tmp\_trace/fman\_fp\_image\_pmanlog\_F0-0.1439\_0.20171107021700.bin:
DECODE(27:0:27:1)

/harddisk/tracelogs/tmp\_trace/odm\_pmanlog\_R0-0.3944\_0.20171107021704.bin: DECODE(21:0:21:1) /harddisk/tracelogs/tmp\_trace/smd\_R0-0.7893\_0.20171107021753.bin: DECODE(397:0:397:16) /harddisk/tracelogs/tmp\_trace/fman\_rp\_R0-0.29955\_0.20171107021745.bin: DECODE(4771:0:4771:20) /harddisk/tracelogs/tmp\_trace/nmspd\_R0-0.3536\_0.20171107021733.bin: DECODE(16:0:16:6) /harddisk/tracelogs/tmp\_trace/rrm\_bg\_R0-0.7189\_0.20171107021739.bin: DECODE(119:0:119:15) /harddisk/tracelogs/tmp\_trace/fman\_rp\_pmanlog\_R0-0.29615\_0.20171107021654.bin: DECODE(22:0:22:1)

/harddisk/tracelogs/tmp\_trace/odm\_proxy\_R0-0.4595\_0.20171107021705.bin: DECODE(13:0:13:6)
/harddisk/tracelogs/tmp\_trace/wncmgrd\_pmanlog\_R0-0.9422\_0.20171107021715.bin:
DECODE(22:0:22:1)

/harddisk/tracelogs/tmp\_trace/IOSRP\_R0-0.23248\_2.20171107035525.bin: DECODE(7:0:7:0)
/harddisk/tracelogs/tmp\_trace/wncd\_pmanlog\_R0-0.9085\_0.20171107021714.bin: DECODE(31:0:31:1)
/harddisk/tracelogs/tmp\_trace/rogued\_R0-0.6521\_0.20171107021735.bin: DECODE(65:0:65:13)
/harddisk/tracelogs/tmp\_trace/repm\_R0-0.6183\_0.20171107021710.bin: DECODE(93:0:93:6)
2017/11/07\_03:55:14.202 {wncd\_x\_R0-0}{1}: [apmgr-capwap-join] [9437]: UUID: 100000000a5a,

ra: 15, (info): ecel.a9da.0ce0 Radio slot entries created during join for: Radio Slot: 1, Radio Type: 2 Radio Sub Type: 0, Band Id: 1

2017/11/07 03:55:14.202 {wncd\_x\_R0-0}{1}: [apmgr-capwap-join] [9437]: UUID: 100000000a5a, ra: 15, (info): ece1.a9da.0ce0 Radio slot entries created during join for: Radio Slot: 0, Radio Type: 1 Radio Sub Type: 0, Band Id: 0

2017/11/07 03:55:14.202 {wncd\_x\_R0-0}{1}: [apmgr-db] [9437]: UUID: 1000000000a5a, ra: 15, (info): ecel.a9da.0ce0 AP association tag record is not found. Associate default tags to the AP

2017/11/07 03:55:14.202 {wncd\_x\_R0-0}{1}: [apmgr-db] [9437]: UUID: 1000000000a5a, ra: 15, (info): ece1.a9da.0ce0 AP Tag information: Policy Tag - default-policy-tag Site Tag - default-site-tag RF Tag - default-rf-tag

2017/11/07 03:55:14.202 {wncd\_x\_R0-0}{1}: [apmgr-db] [9437]: UUID: 100000000a5a, ra: 15, (info): ecel.a9da.0ce0 Operation state of AP changed to: Registered

2017/11/07 03:55:14.204 {wncd\_x\_R0-0}{1}: [capwapac-smgr-srvr] [9437]: UUID: 100000000a5a, ra: 15, (info): Session-IP: 90.90.90.22[51099] Mac: ece1.a9da.0ce0 Join processing complete. AP in joined state

2017/11/07 03:55:14.210 {wncmgrd\_R0-0}{1}: [hl-core] [9739]: UUID: 1000000000a5c, ra: 15, (debug): Radio information changed for AP ecel.a9da.0ce0 but hyperlocation method is detected as unknown and will not be used for L1 scan list query to CMX.

# show logging profile wireless fru

To specify field-replaceable unit (FRU) specific commands, use the **show logging profile wireless fru** command.

show logging profile wireless fru

Syntax Description	0		SM-Inter-Processor slot 0			
	1		SM-Inter-Processor slot 1			
	F0		Embedded-Service-Processor slot 0			
	FP		Embedded-Service-Processor			
	R0		Route-Processor slot 0			
	RP		Route-Processor			
Command Default	None.					
Command Modes	User EXEC (>)					
	Privileged EXEC (#)					
Command History	Release	Modification				
	Cisco IOS XE Fuji 16.9.x	This command was introduced.				
Usage Guidelines	Ensure that you enable internal keyword using the <b>show logging profile wireless internal</b> command to get the trace output.					
	Without the internal keyword, only customer curated logs are displayed.					
Examples	The following example	shows how to specify F	RU specific commands:			
	Device# <b>show logging profile wireless fru switch standby R0</b> Logging display requested on 2023/03/13 07:39:11 (UTC) for Hostname: [BRU-C9K-153-05], Model: [C9300-24T], Version: [17.03.05], SN: [FOC24140R40], MD_SN: [FOC2415U0XX]					
	Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds Unicasting cmd: chassis 1 route-processor 0					
	2023/03/13 07:29:23 10.68.219.145@vty0: UTC Mon Mar 13 2023 2023/03/13 07:29:32 10.68.219.145@vty0: 07:29:32 UTC Mon Man 2023/03/13 07:33:03 1023 SAUtilityMeasu 2023/03/13 07:33:03 the Job for removal	.629642 {IOSRP_R0-0} iser=cisco cmd: 'show .483351 {IOSRP_R0-0} iser=cisco cmd: 'show c 13 2023 .935762 {IOSRP_R0-0} irementJob, Matching 935782 {IOSRP_R0-0}{ L 0x7FC0BD9A7E20	<pre>1}: [parser_cmd] [14504]: (note): id= logging profile wireless fru 0' FAILURE 07:29:23 1}: [parser_cmd] [14504]: (note): id= logging profile wireless fru switch' FAILURE 1}: [smart-agent] [22736]: (note): SAMsgThread-Job 123 SAUtilityMeasurementJob 1}: [smart-agent] [22736]: (note): SAMsgThread-Find</pre>			

2023/03/13 07:33:03.935805 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Found the element for removal 0x7FC0BD9BD5A8 ->0x7FC0BD9BF640 2023/03/13 07:33:03.935812 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Removinging Job SAUtilityMeasurementJob 0x7FC0BE3EFB30, leaf 0x7FC0ADA357A0 2023/03/13 07:33:03.935833 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Attaching Job SAUtilityMeasurementJob to Exec Queue Head 2023/03/13 07:33:03.935839 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Executing from Queue, Job SAUtilityMeasurementJob (20) 2023/03/13 07:33:03.935845 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Setting SAUtilityMeasurementJob IN PROGRESS False to True 2023/03/13 07:33:03.935859 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-utility measurement start 2023/03/13 07:33:03.935865 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[1], n[3] 2023/03/13 07:33:03.935872 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[2], n[2] 2023/03/13 07:33:03.935877 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[5], n[1] 2023/03/13 07:33:03.935883 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[6], n[0] 2023/03/13 07:33:03.935889 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[1], n[3] 2023/03/13 07:33:03.935895 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[2], n[2] 2023/03/13 07:33:03.935901 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[5], n[1] 2023/03/13 07:33:03.935906 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[6], n[0] 2023/03/13 07:33:03.935923 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Prepare grant request struct - started 2023/03/13 07:33:03.935929 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[1], n[3] 2023/03/13 07:33:03.935935 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[2], n[2] 2023/03/13 07:33:03.935945 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[5], n[1] 2023/03/13 07:33:03.935953 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[6], n[0] 2023/03/13 07:33:03.935959 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Prepare grant request struct - grant[0], numEndPoints: 0 2023/03/13 07:33:03.935965 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Prepare grant request struct - grant[1], numEndPoints: 0 2023/03/13 07:33:03.935970 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Prepare grant request struct - grant list built successfully, numGrant: 2, numEndPoints: 0 2023/03/13 07:33:03.935976 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[1], n[3] 2023/03/13 07:33:03.936003 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next\_id[2], n[2] 2023/03/13 07:33:03.936010 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[5], n[1] 2023/03/13 07:33:03.936016 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilMeasurement-Get Handle List: next id[6], n[0]

# show logging profile wireless internal

To select all the logs, use the **show logging profile wireless internal** command.

	show logging profile w	vireless internal				
Syntax Description	This command has no a	arguments or keywords.				
Command Default	None.					
Command Modes	User EXEC (>)					
	Privileged EXEC (#)					
Command History	Release	Modification				
	Cisco IOS XE Fuji 16.9.x	This command was introduced.				
Usage Guidelines	Ensure that you enable the trace output.	internal keyword using the sho	now logging profile wireless internal command to get			
	Without the <b>internal</b> kee	eyword, only customer curated	d logs are displayed.			
Examples	The following example	The following example shows how to display all the logs:				
	Device <b>#show logging profile wireless internal</b> Logging display requested on 2023/03/13 07:47:30 (UTC) for Hostname: [BRU-C9K-153-05], Model: [C9300-24T], Version: [17.03.05], SN: [FOC24140R40], MD_SN: [FOC2415U0XX]					
	Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds executing cmd on chassis 1					
	2023/03/13 07:37:33 10.68.219.145@vty0:u ' FAILURE 07:37:33 2023/03/13 07:38:04 10.68.219.145@vty0:u	.213009 {IOSRP_R0-0}{1}:   user=cisco cmd: 'show logg: UTC Mon Mar 13 2023 .219243 {IOSRP_R0-0}{1}:   user=cisco cmd: 'show logg:	<pre>[parser_cmd] [14504]: (note): id= ging profile wireless fru switch active instance [parser_cmd] [14504]: (note): id= ging profile wireless fru switch active' FAILURE</pre>			
	07:38:04 UTC Mon Ma 2023/03/13 07:38:09 10.68.219.145@vty0:u 07:38:09 UTC Mon Ma	ar 13 2023 .775467 {IOSRP_R0-0}{1}:   user=cisco cmd: 'show loggi ar 13 2023	<pre>[parser_cmd] [14504]: (note): id= ing profile wireless fru switch active ' FAILURE</pre>			
	2023/03/13 07:38:21 gold server 2023/03/13 07:38:21	.523864 {fman_fp_F0-0}{1}:	: [fman] [21369]: (note): Got test request from : [fman] [21369]: (note): Sending gold response			
	msg 29453, test 14 2023/03/13 07:38:21 2023/03/13 07:38:21 2023/03/13 07:38:21 test req, with req 2 2023/03/13 07:38:21	<pre>, result 1 .523891 {fman_fp_F0-0}{1}: .523892 {fman_fp_F0-0}{1}: .523894 {fman_fp_F0-0}{1}: id 14, msg id = 29453 .524058 (fman_fp_F0-0){1}: </pre>	<pre>: [fman] [21369]: (note): marshalled tx ok : [fman] [21369]: (note): marshalled done msg : [fman] [21369]: (note): fmanfp gold got new : [fman] [21369]: (note): success orr obj NOT</pre>			
	found. 2023/03/13 07:38:21 msg 29453, test 14 2023/03/13 07:38:21 2023/03/13 07:38:21	.524059 {fman_fp_F0-0}{1}: , result 1 .524067 {fman_fp_F0-0}{1}: .524068 {fman_fp_F0-0}{1}:	<pre>: [fman] [21369]: (note): Sending gold response : [fman] [21369]: (note): marshalled tx ok : [fman] [21369]: (note): marshalled done msg</pre>			

2023/03/13 07:38:21.524270 {fman fp F0-0}{1}: [fman] [21369]: (note): Got test request from gold server 2023/03/13 07:38:21.524272 {fman fp F0-0}{1}: [fman] [21369]: (note): Sending gold response msg 29454, test 15, result 1 2023/03/13 07:38:21.524283 {fman fp F0-0}{1}: [fman] [21369]: (note): marshalled tx ok 2023/03/13 07:38:21.524283 {fman\_fp\_F0-0}{1}: [fman] [21369]: (note): marshalled done msg 2023/03/13 07:38:21.524284 {fman fp F0-0}{1}: [fman] [21369]: (note): fmanfp gold got new test req, with req id 15, msg id = 294542023/03/13 07:38:21.524420 {fman fp F0-0}{1}: [fman] [21369]: (note): success, err obj NOT found. 2023/03/13 07:38:21.524421 {fman\_fp\_F0-0}{1}: [fman] [21369]: (note): Sending gold response msg 29454, test 15, result 1 2023/03/13 07:38:21.524427 {fman fp F0-0}{1}: [fman] [21369]: (note): marshalled tx ok 2023/03/13 07:38:21.524428 {fman fp F0-0}{1}: [fman] [21369]: (note): marshalled done msg 2023/03/13 07:38:21.524605 {fman fp F0-0}{1}: [fman] [21369]: (note): Got test request from gold server 2023/03/13 07:38:21.524607 {fman fp F0-0}{1}: [fman] [21369]: (note): Sending gold response msg 29455, test 16, result 1 2023/03/13 07:38:21.524617 {fman\_fp\_F0-0}{1}: [fman] [21369]: (note): marshalled tx ok 2023/03/13 07:38:21.524618 {fman fp F0-0}{1}: [fman] [21369]: (note): marshalled done msg 2023/03/13 07:38:21.524619 {fman fp F0-0}{1}: [fman] [21369]: (note): fmanfp gold got new test req, with req id 16, msg id = 29455 2023/03/13 07:38:21.524754 {fman fp F0-0}{1}: [fman] [21369]: (note): success, err obj NOT found. 2023/03/13 07:38:21.524755 {fman fp F0-0}{1}: [fman] [21369]: (note): Sending gold response msg 29455, test 16, result 1 2023/03/13 07:38:21.524761 {fman fp F0-0}{1}: [fman] [21369]: (note): marshalled tx ok 2023/03/13 07:38:21.524762 {fman fp F0-0}{1}: [fman] [21369]: (note): marshalled done msg 2023/03/13 07:38:25.492553 {IOSRP R0-0}{1}: [parser cmd] [14504]: (note): id= 10.68.219.145@vty0:user=cisco cmd: 'show logging profile wireless fru switch active 0' SUCCESS 07:38:25 UTC Mon Mar 13 2023

The following example shows how to display all the logs:

```
Device# show logging profile wireless internal
Logging display requested on 2023/03/13 08:58:51 (UTC) for Hostname: [FABRIEK], Model:
[C8300-1N1S-4T2X], Version: [17.12.01], SN: [FD024190V85], MD SN: [FD02451M13G]
Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds
executing cmd on chassis local ...
Unified Decoder Library Init .. DONE
Found 1 UTF Streams
2023/03/13 08:48:56.203638311 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id=
10.68.219.145@vty0:user= cmd: 'show logging profile wireless to-file' FAILURE 2023/03/13
08:48:56.202 UTC
2023/03/13 08:49:52.077502587 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id=
10.68.219.145@vty0:user= cmd: 'show logging profile wireless to-file mylog.txt' SUCCESS
2023/03/13 08:49:52.075 UTC
2023/03/13 08:50:55.161355814 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id=
10.68.219.145@vty0:user= cmd: 'show logging profile wireless to-file mylog 12' FAILURE
2023/03/13 08:50:55.159 UTC
2023/03/13 08:51:33.810030189 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id=
10.68.219.145@vty0:user= cmd: 'show logging profile wireless reverse ' SUCCESS 2023/03/13
08:51:27.690 UTC
2023/03/13 08:53:08.782896142 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id=
10.68.219.145@vty0:user= cmd: 'show logging profile wireless module dbal ' SUCCESS 2023/03/13
 08:53:08.257 UTC
2023/03/13 08:57:34.084609935 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id=
10.68.219.145@vty0:user= cmd: 'show logging profile wireless level info' SUCCESS 2023/03/13
08:57:31.376 UTC
_____
```

====== Unified Trace Decoder Information/Statistics ====== \_\_\_\_\_ ----- Decoder Input Information -----\_\_\_\_\_ Num of Unique Streams .. 1 Total UTF To Process ... 1 Total UTM To Process ... 52029 UTM Process Filter .....

ap a fin fp fin p, fin p, fin p, fin p, fedrallityd, mpd an pay, raged an, ragn, wad, warged, wad x, ISPP, sol, advested, lin x-iast-inegeweloan, lastian

MRST Filter Rules ..... 24 \_\_\_\_\_ ----- Decoder Output Information -----First UTM TimeStamp ..... 2023/03/13 08:13:19.321653302 Last UTM TimeStamp ..... 2023/03/13 08:58:50.044495790 UTM [Skipped / Rendered / Total] .. 52023 / 6 / 52029 UTM [ENCODED] ..... 6 UTM [PLAIN TEXT] ..... 0

# show logging profile wireless level

To select logs above a specific level, use the show logging profile wireless level command.

#### show logging profile wireless level { debug | error | info | notice | verbose | warning }

Syntax Description	debug		Selects the	e debug-level trace messages.		
	error		Selects the error-level trace messages.			
	info		Selects the	e informational-level trace messages.		
	notice		Selects the	e notice-level trace messages.		
	verbose		Selects the	e verbose-level trace messages.		
	warning		Selects the	e warning-level trace messages.		
Command Default	The default tracing leve	el for all modules is <b>no</b>	tice.			
Command Modes	User EXEC (>)					
	Privileged EXEC (#)					
Command History	Release	Modification				
	Cisco IOS XE Fuji 16.9.x	This command was introduced.	·			
Usage Guidelines	• Ensure that you enable internal keyword using the <b>show logging profile wireless internal</b> command to get the trace output. Without the <b>internal</b> keyword, only customer curated logs are displayed.					
	• Trace level determines the types of traces outputted. Each trace message is assigned a trace level. If the trace level of a process or its module it set at a greater than or equal to level as the trace message, the trace messag is displayed otherwise, it is skipped. For example, the default trace level is <b>Notice</b> level, so all traces with the <b>Notice</b> level and below the <b>Notice</b> level are included while the traces above the <b>Notice</b> level are excluded.					
Examples	The following example	shows how to select lo	ogs above a	specific level:		
	Device# <b>show logging profile wireless level notice</b> Logging display requested on 2023/03/13 08:00:47 (UTC) for Hostname: [BRU-C9K-153-05], Model: [C9300-24T], Version: [17.03.05], SN: [FOC24140R40], MD_SN: [FOC2415U0XX]					
	Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds executing cmd on chassis 1					
	2023/03/13 07:58:04.437001 {IOSRP_R0-0}{1}: [parser_cmd] [14504]: (note): id= 10.68.219.145@vty0:user=cisco cmd: 'show logging profile wireless internal' SUCCESS 07:58:04 UTC Mon Mar 13 2023 2023/03/13 07:59:55.365574 {IOSRP R0-0}{1}: [iosrp] [22736]: (note): *Mar 13 07:59:55.365:					
	<pre>%SEC_LOGIN-5-LOGIN_SUCCESS: Login Success [user: cisco] [Source: 10.68.219.145] [localport:</pre>					

22] at 07:59:55 UTC Mon Mar 13 2023 2023/03/13 08:00:33.338004 {IOSRP\_R0-0}{1}: [parser\_cmd] [14504]: (note): id= 10.68.219.145@vty0:user=cisco cmd: 'show logging profile wireless level debug' SUCCESS 08:00:33 UTC Mon Mar 13 2023

#### The following example shows how to select logs above a specific level:

Device# show logging profile wireless level info Logging display requested on 2023/03/13 08:57:31 (UTC) for Hostname: [FABRIEK], Model: [C8300-1N1S-4T2X], Version: [17.12.01], SN: [FD024190V85], MD SN: [FD02451M13G] Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds executing cmd on chassis local ... Unified Decoder Library Init .. DONE Found 1 UTF Streams 2023/03/13 08:48:56.203638311 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id= 10.68.219.145@vty0:user= cmd: 'show logging profile wireless to-file' FAILURE 2023/03/13 08:48:56.202 UTC 2023/03/13 08:49:52.077502587 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id= 10.68.219.145@vty0:user= cmd: 'show logging profile wireless to-file mylog.txt' SUCCESS 2023/03/13 08:49:52.075 UTC 2023/03/13 08:50:55.161355814 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id= 10.68.219.145@vty0:user= cmd: 'show logging profile wireless to-file mylog 12' FAILURE 2023/03/13 08:50:55.159 UTC 2023/03/13 08:51:33.810030189 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id= 10.68.219.145@vty0:user= cmd: 'show logging profile wireless reverse ' SUCCESS 2023/03/13 08:51:27.690 UTC 2023/03/13 08:53:08.782896142 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id= 10.68.219.145@vty0:user= cmd: 'show logging profile wireless module dbal ' SUCCESS 2023/03/13 08:53:08.257 UTC \_\_\_\_\_ ====== Unified Trace Decoder Information/Statistics ====== \_\_\_\_\_ ----- Decoder Input Information ------\_\_\_\_\_ Num of Unique Streams .. 1 Total UTF To Process ... 1 Total UTM To Process ... 47422 UTM Process Filter ..... ap ap finan fip finan up finan-up finan-up finan-up finan-up final high managed and passy raged numeral ward war and ward ward and ward and have a set of the set of MRST Filter Rules ..... 336 \_\_\_\_\_ ----- Decoder Output Information ------\_\_\_\_\_ First UTM TimeStamp ..... 2023/03/13 08:13:19.321653302 Last UTM TimeStamp ...... 2023/03/13 08:57:28.983753618 UTM [Skipped / Rendered / Total] .. 47417 / 5 / 47422 UTM [ENCODED] ..... 5 UTM [PLAIN TEXT] ..... 0 UTM [DYN LIB] ..... 0 UTM [MODULE ID] ..... 0 UTM [TDL TAN] ..... 0 UTM [APP CONTEXT] ..... 0 UTM [MARKER] ..... 0 UTM [PCAP] ..... 0 UTM [LUID NOT FOUND] ..... 0 UTM Level [EMERGENCY / ALERT / CRITICAL / ERROR] .. 0 / 0 / 0 / 0 UTM Level [WARNING / NOTICE / INFO / DEBUG] ..... 0 / 5 / 0 / 0 UTM Level [VERBOSE / NOISE / INVALID] ..... 0 / 0 / 0 \_\_\_\_\_

# show logging profile wireless module

To select logs for specific modules, use the show logging profile wireless module command.

show logging profile wireless module module-name

Syntax Description	module-name		List the module names separated by commas or space. For example, dbal, tdllib or "dbal tdllib".			
Command Default	None.					
Command Modes	User EXEC (>)					
	Privileged EXEC (#)					
Command History	Release	Modification				
	Cisco IOS XE Fuji 16.9.x	This command was introduced.				
Usage Guidelines	Ensure that you enable internal keyword using the <b>show logging profile wireless internal</b> command to get the trace output.					
	Without the internal keyword, only customer curated logs are displayed.					
	The following example shows how to select logs for specific modules:					
	Device# <b>show logging profile wireless module dbal</b> Logging display requested on 2023/03/13 08:53:08 (UTC) for Hostname: [FABRIEK], Model: [C8300-1N1S-4T2X], Version: [17.12.01], SN: [FD024190V85], MD_SN: [FD02451M13G]					
	Displaying logs from executing cmd on cha Unified Decoder Libu Found 1 UTF Streams	n the last 0 days, 0 assis local rary Init DONE	hours, 10 minutes	, 0 seconds		
	======= Unified Trac	 ce Decoder Informatio	on/Statistics ====	==		
	Decoder Input Information					
	Num of Unique Strea Total UTF To Proces Total UTM To Proces UTM Process Filter എഎനിനുറ്റിനുറ്റിനുറിനുറിനു	ams 1 ss 1 ss 45244 	ngechauhiedukacijkaandechkacaj	== NDRP, such adaptive tests of linex-iosof-intege, we cloud a, location of		
	MRST Filter Rules .	24				
	======================================	ecoder Output Inform	ation	==		
	First UTM TimeStamp Last UTM TimeStamp UTM [Skipped / Reno UTM [ENCODED] UTM [PLAIN TEXT]	p 20. 20. dered / Total] 45. 0 0	23/03/13 08:13:19. 23/03/13 08:53:05. 244 / 0 / 45244	 321653302 793309753		

UTM [DYN LIB] ..... 0 UTM [MODULE ID] ..... 0 UTM [TDL TAN] .... 0 UTM [APP CONTEXT] .... 0 UTM [MARKER] .... 0 UTM [PCAP] .... 0 UTM [LUID NOT FOUND] .... 0 UTM Level [EMERGENCY / ALERT / CRITICAL / ERROR] .. 0 / 0 / 0 / 0 UTM Level [WARNING / NOTICE / INFO / DEBUG] .... 0 / 0 / 0 / 0 UTM Level [VERBOSE / NOISE / INVALID] ..... 0 / 0 / 0

# show logging profile wireless reverse

To view logs in reverse chronological order, use the show logging profile wireless reverse command.

	show logging profile wireless reverse This command has no arguments or keywords.						
Syntax Description							
Command Default	None.						
Command Modes	User EXEC (>)						
	Privileged EXEC (#)						
Command History	Release	Modification	_				
	Cisco IOS XE Fuji 16.9.x	This command was introduced.	_				
Usage Guidelines	Ensure that you enable internal keyword using the <b>show logging profile wireless internal</b> command to get the trace output.						
	Without the internal keyword, only customer curated logs are displayed.						
	The following example shows how to view logs in reverse chronological order:						
	Device# show logging profile wireless reverse Logging display requested on 2023/03/13 08:18:40 (UTC) for Hostname: [BRU-C9K-153-05], Model: [C9300-24T], Version: [17.03.05], SN: [FOC24140R40], MD_SN: [FOC2415U0XX]						
	executing cmd on chassis 1						
	2023/03/13 08:18:14.945968 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note): SAOpModelJob-platform policy not available. 2023/03/13 08:18:14.945682 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note): SAOpModelJob-platform policy not available.						
	2023/03/13 08:18:14.945339 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note): SAOpModelJob-platform policy not available.						
	2023/03/13 08:18:14.944594 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Setting SAOperationalModelJob IN PROGRESS False to True 2023/03/13 08:18:14.944588 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note):						
	SAMsgThread-Executing from Queue, Job SAOperationalModelJob (37) 2023/03/13 08:18:14.944582 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Attaching Job SAOperationalModelJob to Exec Queue Head						
	<pre>2023/03/13 08:18:14.9445/5 {10SRP_R0-0}{1}: [smart-agent] [22/36]: (note): SAMsgThread-Removinging Job SAOperationalModelJob 0x7FC0BD9B3860, leaf 0x7FC0ADA35838 2023/03/13 08:18:14.944555 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Find the Job for removal 0x7FC0BD9A68E0</pre>						
	2023/03/13 08:18:14.944536 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Job 1023 SAOperationalModelJob, Matching 1023 SAOperationalModelJob 2023/03/13 08:18:13.964201 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note): SAStorage-Get						
	Sys Data from PI Suc 2023/03/13 08:18:13.	ccess 962069 {IOSRP_R0-0}{1}: [sma	art-agent] [22736]: (note): SAStorage-Attemp	pt			
	2023/03/13 08:18:13. to obtain Write Loo	946593 {IOSRP_R0-0}{1}: [sma ck.	art-agent] [22736]: (note): SAStorage-Attemp	pt			

2023/03/13 08:18:13.946586 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAStorage-Writing to the Path <TS>/currentRUMReports.rum 2023/03/13 08:18:13.946562 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAStorage-Writing TS: ChkPt SmartAgentHaMethodTsPath, tsErasedOccurred False, numTsPaths 1 2023/03/13 08:18:13.946553 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAStorage-DeQueueing a TS Group currentRUMReports.rum 2023/03/13 08:18:13.944890 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAStorage-Initial TS Queue size 1 rc NoError(0) 2023/03/13 08:18:13.944884 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-Setting SAUtilityReportsSaveJob IN PROGRESS True to False 2023/03/13 08:18:13.944874 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-nextQ 0x7FC0BE3EBFD0, for job SAUtilityReportsSaveJob jobData 0x7FC0BD9BD420, tcId 1023 2023/03/13 08:18:13.944867 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-Successfully start job SAOperationalModelJob timer leaf 1 Seconds 2023/03/13 08:18:13.944814 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-Attach job SAOperationalModelJob to XDM Leaf 0x7FC0ADA35838 2023/03/13 08:18:13.944808 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-JobFlag 0x111 not having the right prerequeset 0x02 for 0x20 2023/03/13 08:18:13.944802 {IOSRP R0-0}{1}: [smart-agent] [22736]: (ERR): SAUtilRepSave-Tenant 1023 Job SAOperationalModelJob, attached flag set, but not in list 2023/03/13 08:18:13.944787 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-About to Attach SAOperationalModelJob 2023/03/13 08:18:13.944781 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-Scheduling Sending the oper model notification for job name SAUtilitvReportsSaveJob 2023/03/13 08:18:13.944775 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-Successfully start job SAUtilityReportsSaveJob timer leaf 3600 Seconds 2023/03/13 08:18:13.944760 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-Attach job SAUtilityReportsSaveJob to XDM Leaf 0x7FC0ADA312C0 2023/03/13 08:18:13.944754 {IOSRP\_R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-JobFlag 0x115 not having the right prerequeset 0x02 for 0x20 2023/03/13 08:18:13.944748 {IOSRP R0-0}{1}: [smart-agent] [22736]: (ERR): SAUtilRepSave-Tenant 1023 Job SAUtilityReportsSaveJob, attached flag set, but not in list 2023/03/13 08:18:13.944724 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-About to Attach SAUtilityReportsSaveJob 2023/03/13 08:18:13.944718 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-commit reports to storage from reportsaveCB: Success 2023/03/13 08:18:13.944682 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-RUM report commit: Success 2023/03/13 08:18:13.944164 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-Queueing Up TS Group currentRUMReports.rum 0x7FC0BD9A68E0 2023/03/13 08:18:13.944158 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAUtilRepSave-erase 1, force 1, anyChgd 1 Device# show logging profile wireless reverse ?

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FABRIEK#show logging profile wireless reverse Logging display requested on 2023/03/13 08:51:27 (UTC) for Hostname: [FABRIEK], Model: [C8300-1N1S-4T2X], Version: [17.12.01], SN: [FD024190V85], MD SN: [FD02451M13G]

\_\_\_\_\_

Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds executing cmd on chassis local  $\dots$ 

 UTM Level [VERBOSE / NOISE / INVALID]
 0 / 0 / 0

 UTM Level [WARNING / NOTICE / INFO / DEBUG]
 0 / 5 / 0 / 0

 UTM Level [EMERGENCY / ALERT / CRITICAL / ERROR]
 0 / 0 / 0 / 0 / 0

 UTM [LUID NOT FOUND]
 0

 UTM [PCAP]
 0

 UTM [MARKER]
 0

 UTM [APP CONTEXT]
 0

UTM [TDL TAN] ..... 0 UTM [MODULE ID] ..... 0 UTM [DYN LIB] ..... 0 UTM [PLAIN TEXT] ..... 0 UTM [ENCODED] ..... 5 UTM [Skipped / Rendered / Total] .. 44439 / 5 / 44444 Last UTM TimeStamp ..... 2023/03/13 08:51:26.723961142 First UTM TimeStamp ..... 2023/03/13 08:13:19.321653302 \_\_\_\_\_ ----- Decoder Output Information ------\_\_\_\_\_ MRST Filter Rules ..... 24 UTM Process Filter ..... ap as firm fis firm as firm-as firm-fis fed nobilityd, meed an pasy, raged, any reprived warged, wad x, ISEP, sol, advested, linx-iast-ineg-weloady, lastiand Total UTM To Process ... 44444 Total UTF To Process ... 1 Num of Unique Streams .. 1 \_\_\_\_\_ \_\_\_\_\_ ----- Decoder Input Information -----====== Unified Trace Decoder Information/Statistics ====== \_\_\_\_\_ 2023/03/13 08:50:55.161355814 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id= 10.68.219.145@vty0:user= cmd: 'show logging profile wireless to-file mylog 12' FAILURE 2023/03/13 08:50:55.159 UTC 2023/03/13 08:49:52.077502587 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id= 10.68.219.145@vty0:user= cmd: 'show logging profile wireless to-file mylog.txt' SUCCESS 2023/03/13 08:49:52.075 UTC 2023/03/13 08:48:56.203638311 {iosrp\_R0-0}{255}: [parser\_cmd] [3793]: (note): id= 10.68.219.1450vty0:user= cmd: 'show logging profile wireless to-file' FAILURE 2023/03/13 08:48:56.202 UTC 2023/03/13 08:44:04.543044606 {iosrp\_R0-0}{255}: [parser\_cmd] [3793]: (note): id= 10.68.219.145@vty0:user= cmd: 'show logging profile wireless start last 455' SUCCESS 2023/03/13 08:43:52.478 UTC 2023/03/13 08:43:36.172434464 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id= 10.68.219.1450vty0:user= cmd: 'show logging profile wireless start' FAILURE 2023/03/13 08:43:36.170 UTC

Found 1 UTF Streams Unified Decoder Library Init .. DONE

# show logging profile wireless start

To specify log filtering start location, use the show logging profile wireless start command.

show logging profile wireless start { last | marker | timestamp }

Syntax Description	last marker		Display the logs since last event. The marker to start filtering from. It must match with previously set marker			
	timestamp		The timestamp for filtering. for example, "2023/02/10 14:41:50.849".			
Command Default	None.					
Command Modes	User EXEC (>)					
	Privileged EXEC (#)					
Command History	Release	Modification				
	Cisco IOS XE Fuji 16.9.x	This command was introduced.				
Usage Guidelines	Ensure that you enable the trace output.	internal keyword using	the show logging profile wireless internal command to get			
	Without the <b>internal</b> ke	eyword, only customer	curated logs are displayed.			
Examples	The following example	e shows how to specify	log filtering from a specific marker:			
	Device# <b>show logging profile wireless start marker global</b> Logging display requested on 2023/03/13 08:57:50 (UTC) for Hostname: [BRU-C9K-153-05], Model: [C9300-24T], Version: [17.03.05], SN: [FOC24140R40], MD_SN: [FOC2415U0XX]					
	Start marker [globa executing cmd on ch	l] at timestamp ["20 assis 1	23/03/10 14:12:41.685027" UTC] found			
	2023/03/10 14:12:41.686658 {smd_R0-0}{1}: [btrace] [0]: (mark): global 2023/03/10 14:12:41.690920 {IOSRP_R0-0}{1}: [parser_cmd] [14504]: (note): id= 10.68.217.91@vty0:user=cisco cmd: 'set logging marker global' SUCCESS 14:12:41 UTC Fri Mar 10 2023					
	2023/03/10 14:12:57.134650 {IOSRP_R0-0}{1}: [parser_cmd] [14504]: (note): id= 10.68.217.91@vty0:user=cisco cmd: 'show logging marker global' FAILURE 14:12:57 UTC Fri Mar 10 2023					
	<pre>2023/03/10 14:18:03.930420 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Job 1023 SAUtilityMeasurementJob, Matching 1023 SAUtilityMeasurementJob 2023/03/10 14:18:03.930440 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Find</pre>					
	the Job for remova 2023/03/10 14:18:03. the element for re	1 0x7FC0BE3EC110 .930464 {IOSRP_R0-0} moval 0x7FC0BD9BED8(	<pre>[1]: [smart-agent] [22736]: (note): SAMsgThread-Found ) -&gt;0x7FC0BD9BD260</pre>			
	2023/03/10 14:18:03 SAMsgThread-Removin 2023/03/10 14:18:03	.9304/1 {IOSRP_R0-0 ging Job SAUtilityMe .930489 {IOSRP_R0-0	<pre>{1}: [smart-agent] [22/36]: (note): asurementJob 0x7FC0BD9A6430, leaf 0x7FC0ADA357A0 {1}: [smart-agent] [22736]: (note):</pre>			

```
SAMsgThread-Attaching Job SAUtilityMeasurementJob to Exec Queue Head
2023/03/10 14:18:03.930495 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAMsgThread-Executing from Queue, Job SAUtilityMeasurementJob (20)
2023/03/10 14:18:03.930501 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note): SAMsgThread-Setting
SAUtilityMeasurementJob IN PROGRESS False to True
2023/03/10 14:18:03.930519 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-utility measurement start
2023/03/10 14:18:03.930526 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next id[1], n[3]
2023/03/10 14:18:03.930532 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next_id[2], n[2]
2023/03/10 14:18:03.930538 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next id[5], n[1]
2023/03/10 14:18:03.930544 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next id[6], n[0]
2023/03/10 14:18:03.930549 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next_id[1], n[3]
2023/03/10 14:18:03.930555 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next_id[2], n[2]
2023/03/10 14:18:03.930561 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next_id[5], n[1]
2023/03/10 14:18:03.930567 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next id[6], n[0]
2023/03/10 14:18:03.930583 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Prepare grant request struct - started
2023/03/10 14:18:03.930589 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next id[1], n[3]
2023/03/10 14:18:03.930595 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next_id[2], n[2]
2023/03/10 14:18:03.930601 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next id[5], n[1]
2023/03/10 14:18:03.930607 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next_id[6], n[0]
2023/03/10 14:18:03.930613 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Prepare grant request struct - grant[0], numEndPoints: 0
2023/03/10 14:18:03.930619 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Prepare grant request struct - grant[1], numEndPoints: 0
2023/03/10 14:18:03.930624 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Prepare grant request struct - grant list built successfully, numGrant:
2, numEndPoints: 0
2023/03/10 14:18:03.930630 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next id[1], n[3]
2023/03/10 14:18:03.930654 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next_id[2], n[2]
2023/03/10 14:18:03.930660 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next id[5], n[1]
2023/03/10 14:18:03.930666 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Get Handle List: next id[6], n[0]
2023/03/10 14:18:03.930672 {IOSRP_R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-Checking 0
tag[regid.2017-03.com.cisco.advantagek9,1.0 bd1da96e-ec1d-412b-a50e-53846b347d53] handle[1]
utility[0x7FC0B1BDA340]
2023/03/10 14:18:03.930678 {IOSRP R0-0}{1}: [smart-agent] [22736]: (note):
SAUtilMeasurement-process append measurement
 --More--
```

The following example shows how to specify log filtering from the last event:

```
Device# show logging profile wireless start last 455
Logging display requested on 2023/03/13 08:43:52 (UTC) for Hostname: [FABRIEK], Model:
[C8300-1N1S-4T2X], Version: [17.12.01], SN: [FD024190V85], MD SN: [FD02451M13G]
```

```
Displaying logs from the last 0 days, 0 hours, 7 minutes, 35 seconds
executing cmd on chassis local ...
Unified Decoder Library Init .. DONE
Found 1 UTF Streams
2023/03/13 08:40:29.117013228 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id=
10.68.219.145@vty0:user= cmd: 'enable' SUCCESS 2023/03/13 08:40:24.272 UTC
2023/03/13 08:41:00.611072184 {iosrp_R0-0}{255}: [parser_cmd] [3793]: (note): id=
10.68.219.145@vty0:user= cmd: 'show logging profile wireless switch ' FAILURE 2023/03/13
08:41:00.609 UTC
2023/03/13 08:41:17.724209224 {iosrp_R0-0}{255}: [parser_cmd] [3793]: (note): id=
10.68.219.145@vty0:user= cmd: 'show logging profile wireless ' SUCCESS 2023/03/13 08:41:14.335
UTC
2023/03/13 08:43:36.172434464 {iosrp R0-0}{255}: [parser cmd] [3793]: (note): id=
10.68.219.145@vty0:user= cmd: 'show logging profile wireless start' FAILURE 2023/03/13
08:43:36.170 UTC
_____
====== Unified Trace Decoder Information/Statistics ======
_____
----- Decoder Input Information -----
_____
Num of Unique Streams .. 1
Total UTF To Process ... 1
Total UTM To Process ... 41218
UTM Process Filter .....
ap a fina fe fina p fina-p fina-p feducilityd med on posy, roged am rem wadwarder wad x ISRP, sol only stated line-each location
MRST Filter Rules ..... 24
_____
----- Decoder Output Information ------
_____
First UTM TimeStamp ...... 2023/03/13 08:13:19.321653302
Last UTM TimeStamp ..... 2023/03/13 08:43:51.407251687
UTM [Skipped / Rendered / Total] .. 41214 / 4 / 41218
UTM [ENCODED] ..... 4
UTM [PLAIN TEXT] ..... 0
UTM [DYN LIB] ..... 0
UTM [MODULE ID] ..... 0
UTM [TDL TAN] ..... 0
UTM [APP CONTEXT] ..... 0
UTM [MARKER] ..... 0
UTM [PCAP] ..... 0
UTM [LUID NOT FOUND] ..... 0
UTM Level [EMERGENCY / ALERT / CRITICAL / ERROR] .. 0 / 0 / 0 / 0
```

UTM Level [WARNING / NOTICE / INFO / DEBUG] ..... 0 / 4 / 0 / 0 UTM Level [VERBOSE / NOISE / INVALID] ..... 0 / 0 / 0

# show logging profile wireless switch

To specify the switch to look for logs, use the show logging profile wireless switch command.

show logging profile wireless switch { <*switch-nmber>* | active | standby }

Syntax Description	Chasis-number		The chasis number.				
	active S		Selects the active instance.				
	standby	S	elects the standby instance				
Command Default	None.						
Command Modes	User EXEC (>)						
	Privileged EXEC (#)						
Command History Usage Guidelines	Release	Modification					
	Cisco IOS XE Fuji 16.9.x	This command was introduced.					
	Ensure that you enable internal keyword using the <b>show logging profile wireless internal</b> command to get the trace output.						
	Without the <b>internal</b> keep	eyword, only customer cu	rated logs are displayed.				
Examples	The following example	e shows how to specify the	e chassis number to look fo	or logs:			
	Device# <b>show loggin</b> Logging display req Model: [C9300-24T],	g profile wireless swi uested on 2023/03/13 ( Version: [17.03.05],	.tch 1 08:31:03 (UTC) for Host SN: [FOC24140R40], MD_	name: [BRU SN: [FOC24	-C9K-153 15U0XX]	-05],	
	Displaying logs from executing cmd on ch	m the last 0 days, 0 h assis 1	nours, 10 minutes, 0 se	econds			
	2023/03/13 08:23:38 10.68.219.145@vty0: UTC Mon Mar 13 202	.572830 {IOSRP_R0-0}{1 user=cisco cmd: 'show 3	.}: [parser_cmd] [14504 logging profile wireles	]: (note): ss reverse'	id= SUCCESS	08:23:38	
	2023/03/13 08:23:47 10.68.219.145@vty0: UTC Mon Mar 13 202	.635492 {IOSRP_R0-0}{1 user=cisco cmd: 'show 3	<pre>}: [parser_cmd] [14504 logging profile wirele</pre>	l]: (note): ess switch'	id= FAILURE	08:23:47	
	2023/03/13 08:28:58 10.68.219.145@vty0:u UTC Mon Mar 13 202	.495768 {IOSRP_R0-0}{1 user=cisco cmd: 'show 1 3	.): [parser_cmd] [14504 ogging profile wireless	l]: (note): s switch 11'	id= ' SUCCESS	08:28:58	
	2023/03/13 08:29:05 10.68.219.145@vty0: UTC Mon Mar 13 202	.679730 {IOSRP_R0-0}{1 user=cisco cmd: 'show 3 3	.}: [parser_cmd] [14504 Logging profile wireles	]: (note): s switch 3'	id= SUCCESS	08:29:05	
	2023/03/13 08:29:12 10.68.219.145@vty0: UTC Mon Mar 13 202	.043540 {IOSRP_R0-0}{1 user=cisco cmd: 'show 3 3	.}: [parser_cmd] [14504 Logging profile wireles	!]: (note): s switch 4'	id= SUCCESS	08:29:12	
	2023/03/13 08:29:23 10.68.219.145@vty0: 08:29:23 UTC Mon M	.347112 {IOSRP_R0-0}{1 user=cisco cmd: 'show ar 13 2023	<pre>}: [parser_cmd] [14504 logging profile wirele</pre>	l]: (note): ss switch 4	id= active	' FAILURE	

2023/03/13 08:29:44.820050 {IOSRP\_R0-0}{1}: [parser\_cmd] [14504]: (note): id= 10.68.219.145@vty0:user=cisco cmd: 'show logging profile wireless switch active' SUCCESS 08:29:44 UTC Mon Mar 13 2023 2023/03/13 08:30:22.698250 {IOSRP\_R0-0}{1}: [parser\_cmd] [14504]: (note): id= 10.68.219.145@vty0:user=cisco cmd: 'show logging profile wireless switch standby metadata ' SUCCESS 08:30:22 UTC Mon Mar 13 2023 2023/03/13 08:30:36.009511 {IOSRP\_R0-0}{1}: [parser\_cmd] [14504]: (note): id= 10.68.219.145@vty0:user=cisco cmd: 'show logging profile wireless switch standby metadata

10.68.219.145@vty0:user=cisco cmd: 'show logging profile wireless switch standby to-file' FAILURE 08:30:36 UTC Mon Mar 13 2023 2023/03/13 08:30:49.762440 {IOSRP\_R0-0}{1}: [parser\_cmd] [14504]: (note): id=

10.68.219.145@vty0:user=cisco cmd: 'show logging profile wireless switch standby reverse' SUCCESS 08:30:49 UTC Mon Mar 13 2023

# show logging profile wireless to-file

To decode files stored in disk and write the output to a file, use the **show logging profile wireless to-file** command.

show logging profile wireless to-file output-file-name

Syntax Description	output-file-name		Output file name. File with this name will be created in the flash/bootflash/crashinfo/harddisk memory.
Command Default	None.		
Command Modes	User EXEC (>)		
	Privileged EXEC (#)		
Command History	Release	Modification	
	Cisco IOS XE Fuji 16.9.x	This command was introduced.	
Usage Guidelines	Ensure that you enable the trace output.	internal keyword using	the show logging profile wireless internal command to get
	Without the <b>internal</b> kee	eyword, only customer	curated logs are displayed.
Examples	The following example	shows how to decode	files stored in disk and write the output to a file:
	Device# <b>show loggin</b> excuting cmd on chas Files being merged :	<b>g profile wireless f</b> ssis 1 in the background, 1	co-file mylog.txt result will be in /bootflash/mylog.txt log file.
	Device# Device#dir bootflas Directory of bootfla	n:mylog.txt ash:/mylog.txt	
	39 -rw-	1698598 Oct 31 20	117 05:29:11 +00:00 mylog.txt
	7897796608 bytes to	tal (3338383360 byte	es free)

### show logging profile sdwan

To view messages logged by binary trace for Cisco-SD-WAN-specific processes and process modules, use the **show logging profile sdwan** command in the privileged EXEC mode. The messages are displayed in chronological order.

#### show logging profile sdwan

[{ extract-pcap to-file path | [ end timestamp ts ] [ module name ] [ internal ] [ start { last { n { days | hours | minutes | seconds } clear boot } | timestamp ts } [ end { last { n { days | hours | minutes | seconds } clear boot } | timestamp ts } ]] [ level level ] [ fru slot ] [{ reverse | [{ trace-on-failure | metadata }] [ to-file path ] }] }]

Syntax Description	extract-pcap to-file path	Extracts pcap data to a file.	
	end timestamp ts	Shows logs up to the specified timestamp.	
	module name	Selects logs for specific modules.	
	internal	Selects all logs.	
	<pre>start{ last { n {days   hours   n seconds}   clear   boot}   times last { n {days   hours   minute clear   boot}   timestamp ts}]</pre>	inutes         Shows logs collected between the specified sta         amp ts}[end {       times.           seconds}	rt and end
	level level	Shows logs for the specified and higher levels.	
	fru slot	Shows logs from a specific FRU.	
	reverse	Shows logs in reverse chronological order.	
	to-file path	Decodes files stored in disk and writes output t	o file.
	trace-on-failure	Shows the trace on failure summary.	
	metadata	Shows metadata for every log message.	
Command Default	None		
Command Modes	Privileged EXEC		
Command History	Release	lodification	
	Cisco IOS XE Release (17.4.1a)	ommand support introduced for select Cisco SD-WAN processe	 ×S.

#### **Usage Guidelines**

Table 2: Supported Cisco SD-WAN Daemons

Cisco SD-WAN Daemons	Supported from Release
• fpmd	Cisco IOS XE Release 17.4.1a
• ftm	
• ompd	
• vdaemon	
• cfgmgr	

#### Example

The following example shows a truncated output of the **show logging profile sdwan start last boot internal** command. From the timestamps, we can see that the messages are shown in a chronological order.

```
Device# show logging profile sdwan start last boot internal
Logging display requested on 2020/11/18 18:59:16 (UTC) for Hostname: [Device], Model:
[ISR4451-X/K9], Version: [17.04.01], SN: [FOC23125GHG], MD SN: [FGL231432EQ]
Displaying logs from the last 1 days, 10 hours, 0 minutes, 20 seconds
executing cmd on chassis local ...
2020/11/20 10:25:52.195149 {vdaemon_R0-0}{1}: [misc] [10969]: (ERR): Set chassis-number -
ISR4451-X/K9-FOC23125GHG in confd
2020/11/20 10:25:52.198958 {vdaemon_R0-0}{1}: [misc] [10969]: (ERR): Root-CA file exists -
Set it in CDB
2020/11/20 10:25:52.200462 {vdaemon R0-0}{1}: [vipcommon] [10969]: (debug): chasfs
property create success sw-vip-vdaemon-done
2020/11/20 10:25:52.201467 {vip confd startup sh R0-0}{1}: [btrace sh] [6179]: (note):
INOTIFY /tmp/chassis/local/rp/chasfs/rp/0/0/confd/ CREATE sw-vip-vdaemon-done
2020/11/20 10:25:52.202184 {vip confd startup sh R0-0}{1}: [btrace sh] [6179]: (note):
INOTIFY /tmp/chassis/local/rp/chasfs/rp/0/0/confd/ CLOSE WRITE-CLOSE sw-vip-vdaemon-done
2020/11/20 10:25:52.238625 {vdaemon R0-0}{1}: [vipcommon] [10969]: (debug):
[/usr/sbin/iptables -w -A LOGGING -m limit --limit 5/m -j LOG --log-prefix "iptables-dropped:"
 --log-level 6] exited with ret: 2, output: iptables v1.8.3 (legacy): Couldn't load match
`limit':No such file or directory
2020/11/20 10:25:52.242402 {vdaemon R0-0}{1}: [vipcommon] [10969]: (debug):
[/usr/sbin/ip6tables -w -A LOGGING -m limit --limit 5/m -j LOG --log-prefix
"ip6tables-dropped:" --log-level 6] exited with ret: 2, output: ip6tables v1.8.3 (legacy):
Couldn't load match `limit':No such file or directory
2020/11/20 10:25:52.254181 {vdaemon R0-0}{1}: [misc] [10969]: (ERR): Error removing
/usr/share/viptela/proxy.crt
2020/11/20 10:25:52.692474 {vdaemon R0-0}{1}: [confd] [10969]: (ERR): Flags=1, device-type=1,
vbond-dns=0, domain-id=0, site-id=0, system-ip=0, wan-intf=0, org-name=0, cert-inst=0,
root-cert-inst=0, port-offset=0, uuid=0
2020/11/20 10:25:52.692486 {vdaemon R0-0}{1}: [confd] [10969]: (ERR): Returning 0
2020/11/20 10:26:24.669716 {fpmd_pmanlog_R0-0}{1}: [btrace] [14140]: (note): Btrace started
for process ID 14140 with 512 modules
2020/11/20 10:26:24.669721 {fpmd pmanlog R0-0}{1}: [btrace] [14140]: (note): File size max
used for rotation of tracelogs: 8192
```

2020/11/20 10:26:25.001528 {fpmd R0-0}{1}: [fpmd] [14271]: (note): FPMD BTRACE INIT DONE 2020/11/20 10:26:25.001551 {fpmd R0-0}{1}: [vipcommon] [14271]: (note): Vipcommon btrace init done 2020/11/20 10:26:25.001563 {fpmd R0-0}{1}: [chmgr api] [14271]: (note): Chmgr api btrace init done 2020/11/20 10:26:25.022479 {ftmd pmanlog R0-0}{1}: [btrace] [14364]: (note): Btrace started for process ID 14364 with 512 modules 2020/11/20 10:26:25.022484 {ftmd pmanlog R0-0}{1}: [btrace] [14364]: (note): File size max used for rotation of tracelogs: 8192 2020/11/20 10:26:25.022484 {ftmd pmanlog R0-0}{1}: [btrace] [14364]: (note): File size max used for rotation of TAN stats file: 8192 2020/11/20 10:26:25.022485 {ftmd pmanlog R0-0}{1}: [btrace] [14364]: (note): File rotation timeout max used for rotation of TAN stats file: 600 2020/11/20 10:26:25.022590 {ftmd pmanlog R0-0}{1}: [btrace] [14364]: (note): Boot level config file [/harddisk/tracelogs/level config/ftmd pmanlog R0-0] is not available. Skipping 2020/11/20 10:26:25.022602 {ftmd\_pmanlog\_R0-0}{1}: [btrace] [14364]: (note): Setting level to 5 from [BINOS BTRACE LEVEL MODULE BTRACE SH]=[NOTICE] 2020/11/20 10:26:25.037903 {fpmd R0-0}{1}: [cyan] [14271]: (warn): program path package name rp\_security does not match .pkginfo name mono 2020/11/20 10:26:25.038036 {fpmd R0-0}{1}: [cyan] [14271]: (note): Successfully initialized cyan library for /tmp/sw/rp/0/0/rp security/mount/usr/binos/bin/fpmd with /tmp/cvan/0/mono.cdb 2020/11/20 10:26:26.206844 {ftmd R0-0}{1}: [tdllib] [14517]: (note): Flag tdlh stale epoch for all tdl handles 2020/11/20 10:26:26.206853 {ftmd R0-0}{1}: [tdllib] [14517]: (note): Detect newly epoch file generated: /tmp/tdlresolve/epoch\_dir/active, new epoch: /tmp/tdlresolve/epoch\_dir//2020\_11\_20\_10\_23\_8925.epoch 2020/11/20 10:26:26.206866 {ftmd R0-0}{1}: [tdllib] [14517]: (note): epoch file read /tmp/tdlresolve/epoch dir//2020 11 20 10 23 8925.epoch 2020/11/20 10:26:26.334529 {plogd R0-0}{1}: [plogd] [5353]: (debug): Sending: facility 16. %Cisco-SDWAN-RP 0-CFGMGR-4-WARN-300001: R0/0: CFGMGR: Connection to ftm is up 2020/11/20 10:26:26.334580 {plogd R0-0}{1}: [plogd] [5353]: (debug): Sending: facility 16. %Cisco-SDWAN-Atlantis-B4-FTMD-4-WARN-1000007: R0/0: FTMD: Connection to TTM came up. p msgq 0x564c7606bc30 p ftm 0x564c7514d8b0 2020/11/20 10:26:26.335175 {IOSRP R0-0}{1}: [iosrp] [15606]: (warn): \*Nov 20 10:26:26.335: %Cisco-SDWAN-RP 0-CFGMGR-4-WARN-300001: R0/0: CFGMGR: Connection to ftm is up

-

### show logging profile sdwan internal

To view messages logged by binary trace for Cisco-SD-WAN-specific processes and process modules, use the **show logging profile sdwan internal** command in the privileged EXEC mode. The messages are displayed in chronological order.

show logging profile sdwan internal

Syntax Description	end timestamp ts		Shows logs up to the specified timestamp.		
	<pre>start{ last { n {days   hours   minutes   seconds}   clear   boot}   timestamp ts}[end{ last { n {days   hours   minutes   seconds}   clear   boot}   timestamp ts}] level level</pre>		Shows logs collected between the specified start and end times.		
			Shows logs for the specified and higher levels.		
	fru slot		Shows logs from a specific FRU.		
	reverse to-file path trace-on-failure metadata		Shows logs in reverse chronological order.		
			Decodes files stored in disk and writes output to file.		
			Shows the trace on failure summary. Shows metadata for every log message.		
					Command Default
Command Modes	Privileged EXEC				
Command History	Release Modification				
	Cisco IOS XE Release Command supported to Command s		ort introduced for select Cisco SD-WAN processes.		
Usage Guidelines	Table 3: Supported Cisco SD-WAN	Daemons			
	Cisco SD-WAN Daemons		Supported from Release		
	• fpmd		Cisco IOS XE Release 17.4.1a		
	• ftm				
	• ompd				
	• vdaemon				
	• cfgmgr				

#### Example

Device# show logging profile sdwan internal start last boot Logging display requested on 2023/03/17 20:24:21 (UTC) for Hostname: [FABRIEK], Model: [C8300-1N1S-4T2X], Version: [17.12.01], SN: [FD024190V85], MD SN: [FD02451M13G] Displaying logs from the last 0 days, 11 hours, 43 minutes, 34 seconds executing cmd on chassis local ... Unified Decoder Library Init .. DONE Found 1 UTF Streams 2023/03/17 08:40:49.204368658 {binos\_R0-0}{255}: [btrace\_sh] [7615]: (note): Device mode is autonomous 2023/03/17 08:40:49.207063476 {binos R0-0}{255}: [btrace sh] [7615]: (note): Device mode is autonomous 2023/03/17 08:40:49.222900086 {binos R0-0}{255}: [btrace sh] [7615]: (note): Image is unified 2023/03/17 08:40:49.227106778 {binos R0-0}{255}: [btrace sh] [7615]: (note): Image allows controller mode 2023/03/17 08:40:49.227163533 {binos R0-0}{255}: [btrace sh] [7615]: (note): continue in AUTONOMOUS mode 2023/03/17 08:40:49.348891716 {binos R0-0}{255}: [btrace sh] [7615]: (note): setting device mode to autonomous in rommon 2023/03/17 08:40:49.349197442 {binos\_R0-0}{255}: [btrace\_sh] [7615]: (note): setting device mode to autonomous in chasfs 2023/03/17 08:40:51.145357889 {iosrp R0-0}{255}: [btrace] [3693]: (note): Btrace started for process IOSRP ID 3693 with 446 modules 2023/03/17 08:40:51.145360439 {iosrp R0-0}{255}: [btrace] [3693]: (note): File size max used for rotation of tracelogs: 1048576 2023/03/17 08:40:51.145360722 {iosrp R0-0}{255}: [btrace] [3693]: (note): File size max used for rotation of TAN stats file: 1048576 2023/03/17 08:40:51.145360907 {iosrp R0-0}{255}: [btrace] [3693]: (note): File rotation timeout max used for rotation of TAN stats file: 600 2023/03/17 08:40:51.145361152 {iosrp R0-0}{255}: [btrace] [3693]: (note): Bproc Name:IOSRP pman:0 2023/03/17 08:40:51.145469793 {iosrp R0-0}{255}: [btrace] [3693]: (note): Boot level config file [/harddisk/tracelogs/level config/IOSRP R0-0] is not available. Skipping 2023/03/17 08:40:51.145480353 {iosrp\_R0-0}{255}: [btrace] [3693]: (note): module init: 2023/03/17 08:40:51.358147091 {iosrp R0-0}{255}: [btrace] [3693]: (note): module init: (syshw), huffman code len=38, code: 0x03.74.87.8a.20.00.00.00.00.00.00.00.00.00.00.00 2023/03/17 08:40:51.358352395 {iosrp R0-0}{255}: [syshw] [3693]: (ERR): syshw build device: could not add register 5 dev: /sys/bus/platform/devices/cpld/phys\_slot\_number (No such file or directory) due to No such file or directory 2023/03/17 08:40:51.358372681 {iosrp\_R0-0}{255}: [syshw] [3693]: (ERR): syshw build device: could not add register 7 dev: /sys/bus/platform/devices/cpld/reg\_rp\_sku\_register (No such file or directory) due to No such file or directory 2023/03/17 08:40:51.358507185 {iosrp R0-0}{255}: [btrace] [3693]: (note): module init: 2023/03/17 08:40:51.359001716 {iosrp R0-0}{255}: [flash] [3693]: (note): Neptune/Radium/Thallium platform detected - use NEPTUNE/RADIUM/THALLIUM flash offset values 2023/03/17 08:40:51.359019217 {iosrp R0-0}{255}: [flash] [3693]: (note): Flashlib: using native flash read/writes 2023/03/17 08:40:51.364902464 {iosrp\_R0-0}{255}: [btrace] [3693]: (note): module init: (prelib), huffman code len=32, code: 0xfe.96.c7.a8.00.00.00.00.00.00.00.00.00.00.00.00 2023/03/17 08:40:51.369704568 {iosrp\_R0-0}{255}: [btrace] [3693]: (note): module init: (thpool), huffman code len=34, code: 0xcf.1f.de.ee.00.00.00.00.00.00.00.00.00.00.00 2023/03/17 08:40:51.370335191 {iosrp R0-0}{255}: [btrace] [3693:14198]: (note): module init: (services), huffman code len=40, code: 0x05.d1.91.45.08.00.00.00.00.00.00.00.00.00.00.00 2023/03/17 08:40:51.379647650 {iosrp\_R0-0}{255}: [chasfs] [3693]: (ERR): property open: property console does not exist: /tmp/chassis/local/rp/chasfs/rp/console 2023/03/17 08:40:52.210928762 {iosrp R0-0}{255}: [btrace] [3693]: (note): module init: (evlib), huffman code len=29, code: 0x53.36.3d.40.00.00.00.00.00.00.00.00.00.00.00.00 2023/03/17 08:40:52.246163846 {plogd R0-0}{255}: [btrace] [4760]: (note): Btrace started

for process plogd ID 4760 with 512 module

2023/03/17 08:40:52.246167612 {plogd\_R0-0}{255}: [btrace] [4760]: (note): File size max used for rotation of tracelogs: 131072 2023/03/17 08:40:52.246168032 {plogd R0-0}{255}: [btrace] [4760]: (note): File size max used for rotation of TAN stats file: 131072 2023/03/17 08:40:52.246168329 {plogd R0-0}{255}: [btrace] [4760]: (note): File rotation timeout max used for rotation of TAN stats file: 600 2023/03/17 08:40:52.246168702 {plogd\_R0-0}{255}: [btrace] [4760]: (note): Bproc Name:plogd pman:0 2023/03/17 08:40:52.246332428 {plogd R0-0}{255}: [btrace] [4760]: (note): Boot level config file [/harddisk/tracelogs/level config/plogd R0-0] is not available. Skipping 2023/03/17 08:40:52.246334622 {plogd\_R0-0}{255}: [plogd] [4760]: (note): Starting plogd from /tmp/sw/rp/0/0/rp\_security/mount/usr/binos/bin/plogd as pid 4760 2023/03/17 08:40:52.246423255 {plogd R0-0}{255}: [btrace] [4760]: (note): module init: (evlib), huffman code len=29, code: 0x53.36.3d.40.00.00.00.00.00.00.00.00.00.00.00.00 2023/03/17 08:40:52.246615549 {plogd R0-0}{255}: [btrace] [4760]: (note): module init: (services), huffman code len=40, code: 0x05.d1.91.45.08.00.00.00.00.00.00.00.00.00.00.00 2023/03/17 08:40:52.246738253 {plogd\_R0-0}{255}: [btrace] [4760]: (note): module init: (cyan), huffman code len=30, code: 0x43.74.97.20.00.00.00.00.00.00.00.00.00.00.00.00 2023/03/17 08:40:52.246802268 {plogd R0-0}{255}: [cyan] [4760]: (warn): program path package name rp\_security does not match .pkginfo name mono <output truncated>

# show log file

ra: 15,

To display the log files in bootflash:, crashinfo:, flash:, harddisk:, or webui:, use the show log file command.

	show log file					
Syntax Description	This command has no	This command has no arguments or keywords.				
Command Default	None.	None.				
Command Modes	User EXEC (>)					
	Privileged EXEC (#)					
Command History	Release	Modification	-			
	Cisco IOS XE Fuji 16.9.x	This command was introduced.	-			
Examples	This example shows he	ow to display binary encoded logs	on the /harddisk/tracelogs directory:			
	<pre># show log file fla</pre>	sh:tracelogs/wncmgrd_R0-0.31	953_1984.20171030025730.bin			
	excuting cmd on cha Decoding files:	ssis 1				
	2017/10/30 02:57:30 (debug): AP ecel.a 2017/10/30 02:57:30 (debug): AP ecel.a 2017/10/30 02:57:30 ra: 15, (info): MAC 2017/10/30 02:57:30	.189 {wncmgrd_R0-0}{1}: [hl- 9da.0ce0 is detected as unkn .190 {wncmgrd_R0-0}{1}: [hl- 9da.0ce0 is detected as unkn .655 {wncmgrd_R0-0}{1}: [cap : ece1.a9da.0ce0 IP:90.90.9 .655 {wncmgrd R0-0}{1}: [cap	core] [31953]: UUID: 1000000042b94, ra: 15, bwn and is ignored for L1 core] [31953]: UUID: 1000000042b95, ra: 15, bwn and is ignored for L1 wapac-srvr] [31953]: UUID: 1000000042b9d, 0.244[51099], Discovery Request received wapac-srvr] [31953]: UUID: 100000042b9d,			

I

# monitor logging

To monitor log generation in real-time for a process or a profile, use the **monitor logging** command in privileged EXEC or user EXEC mode.

#### monitor logging

Syntax Description	This command has no arguments or keywords.				
Command Default	None.				
Command Modes	User EXEC (>)				
	Privileged EXEC (#)				
Command History	Release	Modification			
	Cisco IOS XE Fuji 16.9.x	This command was introduced.			
Examples	This example shows ho	ow to monitor logs for a device:			
Examples	Device# monitor log Displaying traces s command will wait Unified Decoder Lib Found 1 UTF Streams 2023/03/13 13:55:02 HT (old):droputil_R PID:7048 2023/03/13 13:55:03 enqueue BTF messag BTF:/tmp/rp/trace/d 2023/03/13 13:55:04 10.68.219.145@vty0: 2023/03/13 13:55:14 HT (new):in_telnetd_ PID:17897 2023/03/13 13:55:14 HT (new):brelay_R0- PID:18013 2023/03/13 13:55:24 HT (old):utd_R0-0[8 2023/03/13 13:55:52 HT (old):droputil_R PID:7048 2023/03/13 13:55:53 enqueue BTF messag BTF:/tmp/rp/trace/d 2023/03/13 13:55:53	<pre>ging tarting from 2023/03/13 13:54 until one is. rary Init DONE .400420159 {btman_R0-0}{255}: 0-0[13] lnode /tmp/rp/trace/d .400515639 {btman_R0-0}{255}: e flags:0x1, PID:17299 roputil_R0-0.7048_398.2023031 .405782937 {btman_R0-0}{255}: til_R0-0.7048_398.20230313135 .830270054 {iosrp_R0-0}{255}: user= cmd: 'enable' SUCCESS 2 .147669445 {btman_R0-0}{255}: R0-0[15] lnode /tmp/rp/trace/in .385316198 {btman_R0-0}{255}: 0[11] lnode /tmp/rp/trace/bre .602737720 {btman_R0-0}{255}: ] lnode /tmp/rp/trace/utd_R0- .416339579 {btman_R0-0}{255}: 0-0[13] lnode /tmp/rp/trace/d .416432464 {btman_R0-0}{255}: e flags:0x1, PID:17299 roputil_R0-0.7048_399.2023031 438909953 {btman_R0-0}{255}:</pre>	<pre>:44.000000. If no traces are present, the [utm_main] [6459]: (note): Inserted UTF(2) roputil_R0-0.7048_399.20230313135502.bin [utm_wq] [6459:17299]: (note): Inline sync, 3135402.bin [utm_wq] [6459]: (note): utm delete 402.bin [parser_cmd] [3793]: (note): id= 023/03/13 13:55:01.824 UTC [utm_main] [6459]: (note): Inserted UTF(1) n_telnetd_R0-0.17897_0.20230313135514.bin:56 [utm_main] [6459]: (note): Inserted UTF(1) lay_R0-0.18013_0.20230313135514.bin:52 [utm_main] [6459]: (note): Inserted UTF(1) 0.18072_0.20230313135514.bin PID:18072 [utm_main] [6459]: (note): Inserted UTF(2) roputil_R0-0.7048_400.20230313135552.bin [utm_wq] [6459:17299]: (note): Inline sync, 3135502.bin [utm_wq] [64591: (note): utm_delete</pre>		

# monitor logging filter

To specify filter for monitorin logs, use the **monitor logging** command.

monitor logging filter { interface |ipv4|ipv6|mac|ra|string|uuid}

Syntax Description	interface		Selects logs with specific interface app context.		
	ipv4		Selects logs with specific IPv4 address app context.		
	ipv6		Selects lo	ogs with specific IPv6 address app context.	
	mac		Selects lo	ogs with specific MAC app context.	
	string		Selects lo	ogs with specific string app context.	
	uuid		Selects logs with specific Universally Unique Identifier (UUID) app context.		
	ra		Selects th	ne radioactive logs.	
Command Default	None.				
Command Modes	User EXEC (>)				
	Privileged EXEC (#)				
Command History	Release	Modification		-	
	Cisco IOS XE Fuji 16.9.x	This command was introduced.		-	
Examples	The following example show how to specify filter for monitoring logs.				
	Device# monitor logging filter mac ECE1.A9DA.OCE0				
	Device# monitor logo	ging filter uuid 0x1	£0000000	0014	

# monitor logging level

To monitor logs above a specific level, use the **monitor logging level** command.

monitor logging level { debug | error | info | notice | verbose | warning }

Syntax Description	debug		Selects the debug-level trace messages.									
	error info notice verbose		Selects the error-level trace messages.Selects the informational-level trace messages.Selects the notice-level trace messages.Selects the verbose-level trace messages.									
					warning		Selects the warning-level trace messages.					
					Command Default	The default tracing level for all modules is <b>notice</b> .						
					Command Modes	User EXEC (>)						
		Privileged EXEC (#)										
Command History	Release	Modification										
	Cisco IOS XE Fuji 16.9.x	This command was introduced.										
Examples	The following example	shows how to monitor	logs above a specific level.									

Device# monitor logging level debug

### monitor logging metadata

To display metadata for every log message, use the **monitor logging metadata** command.

	monitor logging metadata			
Syntax Description	This command has no arguments or keywords.			
Command Default	None.			
Command Modes	User EXEC (>)			
	Privileged EXEC (#)			
Command History	Release	Modification		
	Cisco IOS XE Fuji 16.9.x	This command was introduced.		

The following example show how to view the metadata of a log message.

```
#monitor logging metadata
Displaying traces starting from 2023/03/13 16:14:38.000000. If no traces are present, the
command will wait until one is.
Unified Decoder Library Init .. DONE
Found 1 UTF Streams
2023/03/13 16:14:45.726520594 {iosrp R0-0}{255}: [iosrp] [3816]: (note): *Mar 13
16:14:45.726: %SEC LOGIN-5-LOGIN SUCCESS: Login Success [user: admin] [Source: 10.68.219.145]
 [localport: 23] at 16:14:45 UTC Mon Mar 13 2023
2023/03/13 16:14:50.707027420 {btman R0-0}{255}: [utm main] [6384]: Message type: 0, Flags:
0x4 [ TAC ], LUID: 1499fee71564e6679f585021b0d556fe98b60007, UUID: 0, ra: 0 (note): Inserted
UTF(2) HT(old):droputil R0-0[13] lnode
/tmp/rp/trace/droputil R0-0.7083 514.20230313161450.bin PID:7083
2023/03/13 16:14:51.706580987 {btman_R0-0}{255}: [utm_wq] [6384:17368]: Message type: 0,
Flags: 0x4 [ TAC ], LUID: f93d6ec90236d75c9dd60da9a0021ac8645c0004, UUID: 0, ra: 0 (note):
 Inline sync, enqueue BTF message flags:0x1, PID:17368
BTF:/tmp/rp/trace/droputil R0-0.7083 513.20230313161400.bin
2023/03/13 16:14:51.715837324 {btman R0-0}{255}: [utm wq] [6384]: Message type: 0, Flags:
0x4 [ TAC ], LUID: e284a7bb15a631e5236149d09c16335330c10006, UUID: 0, ra: 0 (note): utm
delete /tmp/rp/trace/droputil R0-0.7083 513.20230313161400.bin
2023/03/13 16:15:07.678586985 {btman R0-0}{255}: [utm main] [6384]: Message type: 0, Flags:
0x4 [ TAC ], LUID: 1499fee71564e6679f585021b0d556fe98b60007, UUID: 0, ra: 0 (note): Inserted
UTF(2) HT(old):in telnetd R0-0[15] lnode
/tmp/rp/trace/in telnetd R0-0.9365 0.20230313161507.bin PID:9365
<output truncated>
```

# monitor logging process-helper

To monitor log generation in real-time for a process or a profile, use the **monitor logging** command in privileged EXEC or user EXEC mode.

#### monitor logging process-helper process-name

Syntax Description	process-name		You can choose a certain process for which the logs need to be monitored. Example: <b>bt-logger</b> , <b>btrace-manager</b> , <b>ios</b> , <b>dbm</b> , <b>logger</b> , and so on.		
Command Default	None.				
Command Modes	User EXEC (>)				
	Privileged EXEC (#)				
Command History	Release	Modification			
	Cisco IOS XE Fuji 16.9.x	This command was introduced.			
Examples	The following example	e shows how to monitor	logs for a specific process.		
	Device# monitor logging process-helper ios Displaying traces starting from 2023/03/13 16:38:08.000000. If no traces are present, the command will wait until one is. Unified Decoder Library Init DONE Found 1 UTF Streams				
	2023/03/13 16:38:13.126431871 {iosrp_R0-0}{255}: [parser_cmd] [3793]: (note): id= 10.68.219.145@vty0:user= cmd: 'enable' SUCCESS 2023/03/13 16:38:09.727 UTC				

### monitor logging

To monitor logs for a profile, use the **monitor logging** command.

monitor logging profile profile-name

Syntax Description	profile		• all: Displays the logs for all processes.
			• file: Displays the logs for a specific profile file (bootflash:, crashinfo:, flash:, harddisk:, or webui:).
			• hardware-diagnostics: Displays the logs for the hardware-diagnostics specific processes
		• j • 1 5	• install: Displays the logs for Install-specific processes.
			<ul> <li>netconf-yang: Displays the logs for netconf-yang specific processes.</li> </ul>
			<ul> <li>restconf: Displays the logs for restconf-specific processes.</li> </ul>
			<ul> <li>sdwan: Displays the logs for SDWAN-specific processes.</li> </ul>
			• wireless: Displays the logs for Wireless-specific processes.
Command Default	None.		
Command Modes	User EXEC (>)		
	Privileged EXEC (#)		
Command History	Release	Modification	
	Cisco IOS XE Fuji 16.9.x	This command was introduced.	
Examples	This examples shows h	ow to monitor logs for th	e process <b>wireless</b> .
	Device# monitor log	ging profile wireless	

Displaying traces starting from 2023/03/13 17:14:42.000000. If no traces are present, the command will wait until one is. Unified Decoder Library Init .. DONE Found 1 UTF Streams

2023/03/13 17:14:50.019699421 {iosrp\_R0-0}{255}: [iosrp] [3816]: (note): \*Mar 13 17:14:50.019: %SEC\_LOGIN-5-LOGIN\_SUCCESS: Login Success [user: admin] [Source: 10.68.219.145] [localport: 23] at 17:14:50 UTC Mon Mar 13 2023 I