

How to View the Audit Logs in CUCM

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Our Agenda

Overview of Audit logs
 Enabling Collection of Audit Logs
 Viewing the Audit Logs
 View the logs using RTMT
 Enabling Detailed Audit Logs
 Downloading Audit Logs

- View the logs using Notepad or Excel
- Sending Logs to a Remote Server



Types of Audit Logs

System audit logs

- Records changes to OS users, files or directories
- Disabled by default
- Enabled with the CLI command "utils auditd"

Database audit logs

- Records changes to the Informix Database
- Disabled by default
- Enabled on the Serviceability page in CUCM



Application audit logs

- Records any configuration changes made by a user
- Enabled by default



Configured on the Serviceability page in CUCM







Application Audit Logs

Can be enabled for Communications Manager, Presence and Unity Connection servers

- Records all changes saved in the GUI
- Records all commands entered in CLI
- Records all changes saved in the end user Self Care Portal













Enabling Collection of Audit Logs



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Enabling Collection of Audit Logs





Enabling Collection of Audit Logs (Cont.)

Audit Log Configuration Save Set to Default Status Ready Select Server Server* 10.1.5.5CUCM Voice/Video Go Apply to All Nodes Application Audit Log Settings Filter Settings Enable Audit Log Enable Purging Enable Log Rotation Detailed Audit Logging Remote Syslog Server Name1	<u>A</u> larm • <u>Trace</u> • Tools • <u>S</u> nmp • <u>C</u> allHome • <u>H</u> elp •	
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Server Name ¹	Remote Syslog	
	Server Name ¹	







Viewing the Audit Logs



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Logs are Viewed Using RTMT

The Real Time Monitoring Tool is a stand-alone program that can monitor server performance and device status in real time



Download RTMT

From CUCM Administration select Application > Plugins

System 👻	Call Routing 👻 Media Res	ources 👻 Advanced Features 👻 Device 👻	Application 👻	User Management 👻
Find and L	ist Plugins	מאטוניסט איז	Cisco Unifi Configurati	ed CM Assistant on Wizard
<u>Download</u>	<u>Cisco TAPS</u>	Cisco Tool for Auto-Registered Phone Sup their device. TAPS works in conjunction w (UCCX). Install this component on a UCCX release.	Plugins (server release	that is compatible wit
<u>Download</u>	<u>Cisco Unified CM</u> <u>Assistant Console</u>	Cisco Unified CM Assistant Console helps a to the Cisco Unified Communications Mana assistant consoles can connect to a single computers.	assistants handl ager IP Manage Cisco Unified C	le calls for their mana r Assistant (IPMA) Sei M IPMA Service. Insta
<u>Download</u>	<u>Cisco Unified Real-</u> <u>Time Monitoring</u> <u>Tool - Linux</u>	Cisco Unified Real-Time Monitoring Tool (R CTI applications running on the Unified Co in troubleshooting. Install this client on Ac desired. This RTMT client can also be used server.	TMT) is a client ommunications I dministrative wo d to connect to d	tool that monitors de Manager cluster in rea orkstations running Lir Intercompany Media E
<u>Download</u>	<u>Cisco Unified Real-</u> <u>Time Monitoring</u> <u>Tool - Windows</u>	Cisco Unified Real-Time Monitoring Tool (R CTI applications running on the Unified Co in troubleshooting. Install this client on Ac is desired. This RTMT client can also be us	TMT) is a client ommunications I dministrative wo sed to connect t	tool that monitors de Manager cluster in rea orkstations running Wi to Intercompany Media



Set Up a User To Log In To RTMT

Standard Audit Log Administration Standard CCM Admin Users Standard CCMADMIN Administration

User must be defined in CUCM

User must be part of the "Standard CCM Super Users" and "Standard Audit Users" groups

User Status	Enabled Local User		
User ID*	kkoeper		
Password	•••••	Edit Credential	
Confirm Password	•••••		
Self-Service User ID			
PIN	•••••	Edit Credential	
Confirm PIN	•••••		
Last name*	Koeper		
Middle name			
First name	Kevin		
Display name			
Permissions Informatio	n —		
Groups Standard Audit Us Standard CCM Su	ers	antral Group	
	Add to Access C	ccess Control Group	
	View Details		
Roles Standard AXL API	Access		
Standard Admin R	ep Tool Admin		

View Details



Connecting To RTMT

Real-Time Monitoring To	ol Login X
Host IP Address: 10.1	.5.5
OK	Certificates
Authentication Required	×
A username and password are being re	equested by https://cucm-pub.cll-collab.internal:8443
User Name:	kkoeper
Password:	•••••
Ok	Cancel



RTMT System Summary

Real Time Monitoring Tool For Cisco Unified Communications Solutions





Viewing Audit Logs

Under the Tools menu select Audit Log Viewer

Real Time Monitoring T	00) For Cisco l	Jnified Communica	ations Solutions				
System	M	🛗 AuditLo	g Viewer					
System Summary	0000					Select a Node	cucm-pub.cll-collab.internal 💌	
🗆 🉀 System Summary	00000	Lone						
Server	0000	LUUS						-
– 🖳 CPU and Memory	200000	📑 AuditApp) Logs					1
— 🖳 Process	20000	• 📑 Archi	ve					
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🗕 🔀 Critical Services	20000							
Perf <u>orm</u> ance	1000					anonanananananan I		6
– 🚟 Performance	10000		Date	UserID	ClientAddre	ss Severity	EventType	Older changes
	0000	08/11/2022	12:21:21.969	Administrator	10.1.5.200	Info	UserLogging	
Penormance Log viewer	2000	08/11/2022	12:21:41.940	Administrator	10.1.5.200	Info	UserAccess	
Tools	0000	08/11/2022	12:22:08.703	Administrator	10.1.5.200	Info	GeneralConfigurationUpdate	_
– 📢 Alert Central	0000	08/11/2022	12:22:08.742	Administrator	10.1.5.200	Info	UserAccess	_
Trace & Log Central	0000	08/11/2022	12:23:32.215	Administrator	10.1.5.200	Notice	DeviceUpdate	_
	5555	08/11/2022	12:23:32.342	Administrator	10.1.5.200	Notice	GeneralConfigurationUpdate	
– 👌 Job Status	2000	08/11/2022	12:24:01.566	Administrator	10.1.5.200	Notice	DeviceUpdate	_
- Syst on Viewer	2000	08/11/2022	12:24:01.606	Administrator	10.1.5.200	Notice	GeneralConfigurationUpdate	_
	2000	08/11/2022	12:25:19.313	Administrator	10.1.5.200	Notice	DeviceUpdate	_
- 👌 AuditLog Viewer	101010	08/11/2022	12:25:19.442	Administrator	10.1.5.200	Notice	GeneralConfigurationUpdate	↓ ▼
		08/11/2022	12:25:38.927	Administrator	10.1.5.200	Notice	DeviceUpdate	l atest changes
Voice/Video	1000	08/11/2022	12:25:38.967	Administrator	10.1.5.200	Notice	GeneralConfigurationUpdate	
		 B000000000000000000000000000000000000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00000000000000000			



Scroll right to see details

Viewing Audit Logs (Cont.)

UserID	ClientAddress	Severity	AuditDetails
Administrator	10.1.5.200	Info	Attempt to access data was successful. User is authorized to access /tracecollection/MainServlet.
dbrown	10.10.18.10	Notice	CAL mode or CAL value of Phone with MAC address=6C710DD2BA83 has not been modified
dbrown	10.10.18.10	Notice	record in table device with key field name = SEP6C710DD2BA83 updated
dbrown	10.10.18.10	Notice	CAL mode or CAL value of Phone with MAC address=6C710DD2BA83 has not been modified
dbrown	10.10.18.10	Notice	record in table device with key field name = SEP6C710DD2BA83 updated
dbrown	10.10.18.10	Notice	New Directory/Line added with Number=3031
dbrown	10.10.18.10	Notice	record in table numplan with key field dnorpattern = 3031 added
dbrown	10.10.18.10	Notice	CAL mode or CAL value of Directory/Line with Number=3031 has not been modified
dbrown	10.10.18.10	Notice	record in table numplan with key field dnorpattern = 3031 updated
dbrown	10.10.18.10	Notice	CAL mode or CAL value of Trunk with Name=BR_PSTN_trk has not been modified
dbrown	10.10.18.10	Notice	record in table device with key field name = BR_PSTN_trk updated
dbrown	10.10.18.10	Info	Session Invalidated Successfully
dbrown	10.10.18.10	Info	Successfully Logged out Cisco Unified Administration Web Pages
jwhite	10.10.18.10	Info	Successfully Logged into Cisco Unified CM Admin Webpages
jwhite	10.10.18.10	Notice	CAL mode or CAL value of Phone with MAC address=6C410EDE225D has not been modified
jwhite	10.10.18.10	Notice	record in table device with key field name = SEP6C410EDE225D updated
jwhite	10.10.18.10	Notice	New Directory/Line added with Number=2032
jwhite	10.10.18.10	Notice	record in table numplan with key field dnorpattern = 2032 added
jwhite	10.10.18.10	Notice	CAL mode or CAL value of Directory/Line with Number=2032 has not been modified
jwhite	10.10.18.10	Notice	record in table numplan with key field dnorpattern = 2032 updated







Enabling Detailed Audit Logs



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Enabling Detailed Audit Logs

Detailed audit logs include not just what items were changed, but also what the modified value is

l	<u>A</u> larm ▼ <u>T</u> race ▼ T <u>o</u> ols ▼ <u>S</u> nmp ▼ <u>C</u> allHome ▼ <u>H</u> elp ▼	
	Audit Log Configuration	
	🔜 Save 🧀 Set to Default	
	Status	
	() Ready	
	Select Server	
	Server* 10.1.5.5CUCM Voice/Video V Go	
	Apply to All Nodes	
	Application Audit Log Settings	
	Filter Settings	
	Enable Audit Log	
	Enable Purging	
	Enable Log Rotation	
	Detailed Audit Logging	
	Remote Syslog	
	Server Name ¹	
	Output Settings	
	Maximum No. of Files* 250	
	Maximum File Size (MB)* 2	



Viewing Detailed Audit Logs

Altemptito accessidata was successidi. Osenis autionzed to accessidirectoryivumperEditi

Attempt to access data was successful. User is authorized to access directoryNumberSave

New Directory/Line added with Number=2042 , CAL mode=< None > and CAL value=< None >

Record details Fkpickupgroup = | Fkdevice = 43c3c8ef-328c-4518-af78-55880683f52c | Callername = true | Fkvoicemessagingprofile = | Fkcallingsearchspace_sharedlineappear | Fkcallingsearchspace_cfurint = | Cfurdestination = | Cfurvoicemailenabled = true | Fkcallingsearchspace_cfur = | Devicefailuredn = | Cfdfvoicemailenabled = false | Fkcallingsea umber = | Tkpresentationbit = 0 | IsAnonymous = false | ExternalPresentationName = | Tkringsetting = 4 | Tkringsetting_consecutive = 0 | PropagateMWLPolicy = false | PropagateF AdvertizeGlobally = false | E164NumberLocalPartition = null | E164NumberIsUrgent = false | DeleteE164Number = false | AssociatedDevices = [] | NumPlanEndUserUriMatrixSize = ovelist = null | Fkappserver = | UnityIntegrated = false | Newdn = 2042 | AddNewDN = false | Linetemplatename = 2042 | Tkstatus_audiblemwi = 2 | PropagateAudibleMWIPolicy = fa

record in table numplan with key field dnorpattern = 2042 added

Attempt to access data was successful. User is authorized to access directoryNumberEdit

Attempt to access data was successful. User is authorized to access executeSQLQuery

Attempt to access data was successful. User is authorized to access executeSQLQuery

Attempt to access data was successful. User is authorized to access directoryNumberSave

CAL mode or CAL value of Directory/Line with Number=2042 has not been modified

Record details Fkpickupgroup = | Fkdevice = 43c3c8ef-328c-4518-af78-55880683f52c | Callername = true | Fkvoicemessagingprofile = | Fkcallingsearchspace_sharedlineappear | Fkcallingsearchspace_cfurint = | Cfurdestination = | Cfurvoicemailenabled = true | Fkcallingsearchspace_cfur = | Devicefailuredn = | Cfdfvoicemailenabled = false | Fkcallingsear umber = | Tkpresentationbit = 0 | IsAnonymous = false | ExternalPresentationName = | Tkringsetting = 4 | Tkringsetting_consecutive = 0 | PropagateMWLPolicy = false | PropagateF | EnterpriseNumberRouteLocally = false | EnterpriseNumberAdvertizeGlobally = false | EnterpriseNumberLocalPartition = null | EnterpriseNumberIsUrgent = false | DeleteEnterpris e | PropagateE164mask = false | PropagateLabel = false | PropagateLabeIASCII = false | Shared = false | PropagateButton = null | Useprovisionedvals = false | IsBulkLineTemplate record in table numplan with key field dnorpattern = 2042 updated

Attempt to access data was successful. User is authorized to access directoryNumberEdit







Downloading Audit Logs



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Downloading Audit Logs

🛅 AuditLog Viewer				
Se	lect a Node cucm	-pub.cll-collab.inte	rnal 🔻	🗌 Auto Re
Logs				
AuditApp Logs				
• 🗖 Archive				
- 🗋 Audit0000003.log				
Date	UserID	ClientAddress	Severity	EventType
09/11/2022 11:44:29.984	Administrator	10.10.18.11	Info	UserLogging
09/11/2022 11:45:54.576	Administrator	10.10.18.11	Info	UserLogging
09/11/2022 11:45:54.615	Administrator	10.10.18.11	Info	UserLogging
09/12/2022 05:34:00.082	Administrator	10.10.18.11	Info	UserLogging
09/12/2022 06:18:48.905	Administrator	10.10.18.11	Info	UserLogging
09/12/2022 06:18:48.951	Administrator	10.10.18.11	Info	UserLogging
09/12/2022 06:18:49.028	Administrator	10.10.18.11	Info	UserLogging
09/12/2022 06:54:01.577	Administrator	10.10.18.11	Info	UserLogging
09/12/2022 06:56:05.543	Administrator	10.10.18.11	Info	UserAccess
09/12/2022 07:01:00.355	Administrator	10.10.18.11	Info	GeneralConfigurationUpdate
09/12/2022 07:01:00.356	Administrator	10.10.18.11	Info	GeneralConfigurationUpdat
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Refre	sh Clear	Filter Cle	ar Filter	Find Save

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	📑 PerfLogs	
	📑 Program F	iles
	📑 Program F	iles (x86)
	📑 Temp	
	🔲 Users	
	Windows	
, 		
	File <u>N</u> ame:	CUCM Log 1
	Files of <u>T</u> ype:	Auditlog Files (*.auditlog)
		Save Cancel



Opening Audit Logs



🤳 Log File 1 - Notepad

File Edit Format View Help

11:37:47.743, Administrator, 10.1.5.7, Info, UserAccess, Cisco AXL, Success, No. AdministrativeEvent, Cisco CCM Appl 09/22/2023 09/22/2023 11:37:47.890, Administrator, 10.1.5.7, Info, UserAccess, Cisco AXL, Success, No, AdministrativeEvent, Cisco CCM Appl. 09/22/2023 11:37:58.038, jwhite, 10.10.18.10, Info, UserAccess, CUCMAdmin, Success, No, AdministrativeEvent, Cisco CUCM Administ 09/22/2023 11:37:58.300, jwhite, 10.10.18.10, Notice, DeviceUpdate, CUCMAdmin, Success, No, AdministrativeEvent, Cisco CUCM Admi 11:37:58.304, jwhite, 10.10.18.10, Notice, GeneralConfigurationUpdate, CUCMAdmin, Success, No, AdministrativeEvent, 09/22/2023 ration = 7 | Pffintdestination = | Pffintvoicemailenabled = false | Fkcallingsearchspace pffint = | Pffdestination = | Pffvoid 09/22/2023 11:37:58.305, jwhite, 10.10.18.10, Notice, GeneralConfigurationUpdate, CUCMAdmin, Success, No, AdministrativeEvent, Parkmonreversiontimer = 60 | Cfaptdestination = | Fkcallingsearchspace cfapt = | Cfaptduration = null | Nfkccaprofile id = null 11:37:58.305, jwhite, 10.10.18.10, Notice, GeneralConfigurationUpdate, CUCMAdmin, Success, No, AdministrativeEvent, 09/22/2023 n.forms.DirectoryNumberURIForm@a7aae2af, com.cisco.ccm.admin.forms.DirectoryNumberURIForm@a7aae2af] | Primarynumplanurirow = 0 | 09/22/2023 11:37:58.305, jwhite, 10.10.18.10, Notice, GeneralConfigurationUpdate, CUCMAdmin, Success, No, AdministrativeEvent, ay = | E164mask = 201201XXXX | Tkmwlpolicy = 0 | Callernumber = false | Dialednumber = true | Redirectnumber = false | RoutePart: 11:37:58.305, jwhite, 10.10.18.10, Notice, GeneralConfigurationUpdate, CUCMAdmin, Success, No, AdministrativeEvent, 09/22/2023 e = true | SelectedDeviceAssociation = null | SelectedLGAssociation = null |, Cisco Tomcat, , cucm-pub.cll-collab.internal, 1364 11:37:58.305, jwhite, 10.10.18.10, Notice, GeneralConfigurationUpdate, CUCMAdmin, Success, No, AdministrativeEvent, 09/22/2023 11:37:58.389, jwhite, 10.10.18.10, Info, UserAccess, CUCMAdmin, Success, No, AdministrativeEvent, Cisco CUCM Administ 09/22/2023 11:38:11.231, jwhite, 10.10.18.10, Info, UserAccess, CUCMAdmin, Success, No, AdministrativeEvent, Cisco CUCM Adminis 09/22/2023 11:38:11.474, jwhite, 10.10.18.10, Notice, DeviceUpdate, CUCMAdmin, Success, No, AdministrativeEvent, Cisco CUCM Adm 09/22/2023 11:38:11.478, jwhite, 10.10.18.10, Notice, GeneralConfigurationUpdate, CUCMAdmin, Success, No, AdministrativeEvent, 09/22/2023 kcallingsearchspace cfna = | Cfnaduration = 7 | Pffintdestination = | Pffintvoicemailenabled = false | Fkcallingsearchspace pff 11:38:11.478, jwhite, 10.10.18.10, Notice, GeneralConfigurationUpdate, CUCMAdmin, Success, No, AdministrativeEvent, 09/22/2023 11 llingsearchspace pkmonfwdnoret = | Parkmonreversiontimer = 60 | Cfaptdestination = | Fkcallingsearchspace cfapt = | Cfaptdurat 09/22/2023 11:38:11.478, jwhite, 10.10.18.10, Notice, GeneralConfigurationUpdate, CUCMAdmin, Success, No, AdministrativeEvent, URIForm@a7aae2af, com.cisco.ccm.admin.forms.DirectoryNumberURIForm@a7aae2af, com.cisco.ccm.admin.forms.DirectoryNumberURIForm@a7a 09/22/2023 11:38:11.478, jwhite, 10.10.18.10, Notice, GeneralConfigurationUpdate, CUCMAdmin, Success, No, AdministrativeEvent, | Callinfodisplaymask = null | Display = | E164mask = 201201XXXX | Tkmwlpolicy = 0 | Callernumber = false | Dialednumber = true 11:38:11.479, jwhite, 10.10.18.10, Notice, GeneralConfigurationUpdate, CUCMAdmin, Success, No, AdministrativeEvent, 09/22/2023 ssociatedLineGroups = [] | IsCallable = true | SelectedDeviceAssociation = null | SelectedLGAssociation = null |, Cisco Tomcat, , 09/22/2023 11:38:11.479, jwhite, 10.10.18.10, Notice, GeneralConfigurationUpdate, CUCMAdmin, Success, No, AdministrativeEvent, 09/22/2023 11:38:11.566, jwhite, 10.10.18.10, Info, UserAccess, CUCMAdmin, Success, No, AdministrativeEvent, Cisco CUCM Administ



	Text Import Wizard - Step 1 of 3
Open downloaded file in Excel	The Text Wizard has determined that your data is Delimited.
	If this is correct, choose Next, or choose the data type that best describes your data.
	Choose the file type that best describes your data:
📔 🛃 🚽 Log File Backups	• Characters such as commas or tabs separate each field.
File Home Share View	Fixed width - Fields are aligned in columns with spaces between each field.
← → ~ ↑ This PC → Documents → Log File Back	Start import at row: 1 File origin: 437 : OEM United States
	Cancel Next > Einish
A Quick access	
E Desktop 🖈 🔤 Log File 1	Text Import Wizard - Step 2 of 3
🖶 Downloads 🖈	This screen lets you set the delimiters your data contains. You can see how your tex
🚆 Documents 🖈	Delimiters
📰 Pictures 🛛 🖈	Iab
	Semicolon Treat consecutive delimiters as one
	Comma
	□ <u>Space</u>
	Other:

Opening Audit Logs (Cont.)

B)	<u>F</u> ile <u>E</u> dit <u>V</u> iew	Insert F <u>o</u> rmat	t <u>T</u> ools j	<u>D</u> ata <u>W</u> indow	Help
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	В	С	D	E	F
260	Administrator	10.1.5.200	Info	UserAccess	Attempt to access data was successful. User is authorized to access /tracecollection/MainServ
261	Administrator	10.1.5.200	Info	UserAccess	Attempt to access data was successful. User is authorized to access /tracecollection/MainServ
262	dbrown	10.10.18.10	Notice	DeviceUpdate	CAL mode or CAL value of Phone with MAC address=6C710DD2BA83 has not been modified
263	dbrown	10.10.18.10	Notice	GeneralConfigu	record in table device with key field name = SEP6C710DD2BA83 updated
264	dbrown	10.10.18.10	Notice	DeviceUpdate	CAL mode or CAL value of Phone with MAC address=6C710DD2BA83 has not been modified
265	dbrown	10.10.18.10	Notice	GeneralConfigu	record in table device with key field name = SEP6C710DD2BA83 updated
266	dbrown	10.10.18.10	Notice	DeviceUpdate	New Directory/Line added with Number=3031
267	dbrown	10.10.18.10	Notice	GeneralConfigu	record in table numplan with key field dnorpattern = 3031 added
268	dbrown	10.10.18.10	Notice	DeviceUpdate	CAL mode or CAL value of Directory/Line with Number=3031 has not been modified
269	dbrown	10.10.18.10	Notice	GeneralConfigu	record in table numplan with key field dnorpattern = 3031 updated
270	dbrown	10.10.18.10	Notice	DeviceUpdate	CAL mode or CAL value of Trunk with Name=BR_PSTN_trk has not been modified
271	dbrown	10.10.18.10	Notice	GeneralConfigu	record in table device with key field name = BR_PSTN_trk updated
272	dbrown	10.10.18.10	Info	UserLogging	Session Invalidated Successfully
273	dbrown	10.10.18.10	Info	UserLogging	Successfully Logged out Cisco Unified Administration Web Pages
274	jwhite	10.10.18.10	Info	UserLogging	Successfully Logged into Cisco Unified CM Admin Webpages
275	jwhite	10.10.18.10	Notice	DeviceUpdate	CAL mode or CAL value of Phone with MAC address=6C410EDE225D has not been modified
276	jwhite	10.10.18.10	Notice	GeneralConfigu	record in table device with key field name = SEP6C410EDE225D updated
277	jwhite	10.10.18.10	Notice	DeviceUpdate	New Directory/Line added with Number=2032
278	jwhite	10.10.18.10	Notice	GeneralConfigu	record in table numplan with key field dnorpattern = 2032 added
279	jwhite	10.10.18.10	Notice	DeviceUpdate	CAL mode or CAL value of Directory/Line with Number=2032 has not been modified
280	jwhite	10.10.18.10	Notice	GeneralConfigu	record in table numplan with key field dnorpattern = 2032 updated
					· · · · · · · · · · · · · · · · · · ·







Sending Logs to a Remote Server



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Sending Logs to a Remote Server

<u>A</u> larm \checkmark <u>Trace</u> \checkmark <u>Tools</u> \checkmark <u>Snmp</u> \checkmark <u>CallHome</u> \checkmark <u>Help</u> \checkmark
Audit Log Configuration
🔚 Save 🧀 Set to Default
Status
(i) Ready
Select Server
Server* 10.1.5.5CUCM Voice/Video V Go
Apply to All Nodes
Application Audit Log Settings
Filter Settings
Enable Audit Log
Enable Purging
Enable Log Rotation
Detailed Audit Logging
Remote Syslog
Server Name ¹ 10.1.5.100
Output Settings
Maximum No. of Files* 250
Maximum File Size (MB)* 2



Summary

Overview of Audit logs
 Enabling Collection of Audit Logs
 Viewing the Audit Logs
 Enabling Detailed Audit Logs
 Downloading Audit Logs
 Sending Logs to a Remote Server



Questions





Thank you for attending.

If you have any additional questions, or would like to learn more about our Athena program, please email... pka@skyline-ats.com





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 Image: Second se