Administrator's Guide

AudioCodes One Voice Operations Center

Device Manager Express

Version 7.6





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Date Published: December-10-2019

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Related Documentation

Document Name

400HD Series IP Phone User Manuals

400HD Series IP Phone with Microsoft Skype for Business User Manuals

400HD Series IP Phones Administrator's Manual

400HD Series IP Phone with Microsoft Skype for Business Administrator's Manual

400HD Series IP Phone Quick Guides

400HD Series IP Phone with Microsoft Skype for Business Quick Guides

Document Name
Device Manager for Third-Party Vendor Products Administrator's Manual
Device Manager Agent Installation and Configuration Guide
One Voice Operations Center IOM Manual
One Voice Operations Center User's Manual

Document Revision Record

LTRT	Description						
91180	Initial document release						
91181	450HD. Prerequisites updated. Tenant List. Windows Server 2016.						
91182	UpdateNET 3.5						
91183	Prerequisites updated. Tenant List.						
91184	Windows Server 2016						
91185	Import only users. Update fw for device batch. Delay btw batches. System Settings param. Polycom phone.						
91186	Deleted Alarms - reference to Alarms Monitoring Guide. Polycom configuration.						
91187	Up to 20 Polycom devices supported.						

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1 Introduction

AudioCodes' Device Manager Express features a user interface that enables enterprise network administrators to effortlessly and effectively set up, configure and update up to 500 400HD Series IP phones in globally distributed corporations.

The Device Manager Express client, which network administrators can use to connect to the server, can be any standard web browser supporting HTML5:

- Internet Explorer version 11 and later
- Chrome (recommended)
- Firefox

REST (Representational State Transfer) based architecture enables statuses, commands and alarms to be communicated between the IP phones and the server. The IP phones send their status to the server every hour for display in the user interface.

The Device Manager Express provides zero touch provisioning capabilities for AudioCodes' 400HD Series IP Phones for Skype for Business. A configuration file template feature lets network administrators customize configuration files per phone model, region, and device.

The Device Manager Express shows in real time the statuses of the phones and can remotely perform actions such as reset and login to the IP phone web page.

About this Document

This document shows network administrators how to enable automatic provisioning (Zero Touch provisioning) of the AudioCodes devices in an enterprise network from a single central point.

• For information on third-party vendor products (for example Jabra and Polycom), see the <u>Device Manager for Third-Party Vendor Products Administrator's Manual</u>

- For information on the Device Manager Agent, see:
- Device Manager Agent Installation and Configuration Guide
- Managing Device Manager Agents
- For detailed descriptive information about the Agent, see the *Device Manager Agent Installation and Configuration Guide*.

2 System Prerequisites

Make sure your system meets all prerequisites for Device Manager Express. By failing to meet the prerequisites, installation or configuration may be unsuccessful.

Small Profile

The following minimum requirements must be met in order to install the Device Manager Express for up to 100 devices:

- Clean installation of Windows Server 2012 R2 or Windows Server 2016. Microsoft .NET 3.5 must be installed. Make sure you have a valid internet connection or that the Windows installation path is valid, in order to install .NET 3.5.
- 2 GHz 64-bit processor (minimum)
- 4 GB RAM (minimum)

Large Profile

The following minimum requirements must be met in order to install the Device Manager Express for up to 500 devices:

- Clean installation of Windows Server 2012 R2 or Windows Server 2016. Microsoft .NET 3.5 must be installed. Make sure you have a valid internet connection or that the Windows installation path is valid, in order to install .NET 3.5.
- 4 GHz 64-bit processor (minimum)
- 4 GB RAM (minimum)

3 Installation

After making sure your system meets the prerequisites, installation of Device Manager Express can be performed.

Prerequisites

Make sure you have a valid internet connection or that the Windows installation path is valid, in order to install .NET 3.5.

Installing Device Manager Express

Here's how to install Device Manager Express.

- > To install Device Manager Express:
- 1. Download the Device Manager Express setup file from the AudioCodes website at http://online.audiocodes.com/ip-phone-manager-express-download
- 2. After the download, run the Device Manager Express latest setup: IP_Phone_Manager_ Express_setup_VERSION.exe
- 3. Follow the installer instructions to finish the installation.

4 Starting up and Logging in

After installation, start the Device Manager Express and log in.

- To access the Device Manager Express, point your web browser tohttps://<IP_ Address> and then in the login screen that opens, log in. If the browser is pointed to HTTP, it will be redirected to HTTPS.
 - Device Manager Express is a secured web client that runs on any standard web browser supporting HTML5: Internet Explorer v11 and later, Chrome or Firefox.

> To log in to the Device Manager Express :

1. Open the Web Admin from the URL http:/ <SERVER_IP_ADDRESS>/ [replace SERVER_IP_ADDRESS with the server IP address].

Login to Device Manag	ger
Username	×
Password	a
	Sign In

Figure 4-1: Login

The default 'Username' and 'Password' used to log in to the Device Manager Express are Admin/Admin.

2. Enter your Username and Password (default = Admin and Admin) and click Sign In; the application is launched and the Monitor Dashboard is displayed.



Figure 4-2: Monitor Dashboard



• See Monitoring and Maintaining the Phone Network on page 24 for more information about monitoring phones.

• The following topics show how to provision phones using Zero Touch.

5 Adding Users & Devices in Non-Skype for Business Environments

Administrators can import

- users and devices -or-
- only users

If the administrator imports users *and* devices, the association between users and devices was made before Version 7.6

- using the device's MAC address
- through user name and password
- via an imported CSV file
- before deployment
- To add users and devices with a version earlier than Version 7.6 of Device Manager Express:
- After plugging the phones into the network, log in to Device Manager Express and then (best practice):
 - Export the automatically created 'System User' to a zip file (see Exporting 'System User' to zip File on page 9)
 - Unzip the zip file, open the csv file and add users and devices in the same format (see Adding Users and Devices Information to the csv File on page 11)
 - Import the csv file with users and devices back into Device Manager Express (see Importing the csv File on page 11

> To add only users:

• Applies only to Version 7.6 and later

- The association is manually made after deployment, using the **Approve** button in the Devices Status page
- When the phone is connected to the network for the first time, the user is prompted to enter their username/password; it's matched with that on the Device Manager Express. After the match, the Manager associates the device with the user. Usernames/ passwords are then uploaded to the Manager through the import CSV without using MAC address. After authentication, the Manager downloads the cfg file to the phone.
- 1. After installing the Device Manager Express, add the HTTP authentication configuration properties to the initial configuration file (taken from DHCP Options 160) and to the templates.
- 2. Select an authentication mode. Two possibilities are available:
 - With username/password
 - Without password; only username or extension

- The default authentication mode is username/password
 - The Login screen then allows the user to authenticate with username only, excluding password
 - If you want the user to use 'password only' for authentication, enable the 'no password' option

Figure 5-1: System Settings Page - HTTP AUTH Provisioning No Password

Require SRTP in the Phone Configuration File		(%#TC5_SRTP%)
	Davlight Sa	ving Time
lation -	Disable	-
KOVE I	Disactie	
	Administrati	an Settings
Disconnected Timeout	120	(min)
Web UI Timezone	(GMT+02:00) Jerusalem	×
	Outhours	4 Denser
Redundant Mode	No Redundant	(%#TCS_Redundant_outbound_proxy
vimary		(%/TCS_Outbound_proxy%)
HTTP AUTH Provisioning no password	Enable	
LDAP Configuration DHCP Option Conf	iguration 🔒 SBC Proxy Configuration	Default Placeholders Values

- 3. Configure DHCP Options for HTTP Authentication. To prompt the user for username and password, add the following HTTP authentication parameters to the DHCP option 160 cfg file:
 - provisioning/configuration/http_auth/password=
 - provisioning/configuration/http_auth/ui_interaction_enabled=1
 - provisioning/configuration/http auth/user name=
- 4. Update the parameter 'provisioning/configuration/url'
 - provisioning/configuration/url=<HTTP_OR_S>://<IP_ADDRESS>/ipprest/auth_ prov.php
- Open the DHCP Option Configuration page (Setup > Devices Configuration > DHCP Options Configuration)

Figure 5-2: DHCP Option Configuration

C DHCP Options Configuration								
C Edit configuration template	▲ Download configuration template	2 Upload configuration template						
🗎 Generate Template								
DHCP option 160 URLs								
		System URLs						
EMS accesses phones directly:	http://10.59.	160.109/firmwarefiles;ipp/dhcpoption160.cfg						
EMS accesses phones via SBC HTTP Pro	http://SBC_P	ROXY_IP:SBC_PROXY_PORT/firmwarefiles;ipp/httpprox						

6. Click Edit configuration template:

Figure 5-3: Edit DHCP Option

Edit DHCP Option							
ems_server/keep_alive_period=60 ems_server/provisioning/unf= <http_or_s>://<ip_address>//pprest/lync_auto_prov.php provisioning/configuration/unf=<http_or_s>://<ip_address>/configfiles/ provisioning/configuration/unf=<http_or_s>://<ip_address>/(pprest/auth_prov.php provisioning/firmware/unf=<http_or_s>://<ip_address>/(pprest/auth_prov.php provisioning/firmware/unf=<http_or_s>://<ip_address>/firmwarefiles/ ems_server/user_name=system ems_server/user_name=system provisioning/configuration/mtb_auth/password= provisioning/configuration/mtb_auth/password= provisioning/configuration/mtb_auth/user_name=j</ip_address></http_or_s></ip_address></http_or_s></ip_address></http_or_s></ip_address></http_or_s></ip_address></http_or_s>							

7. Click Generate Template:

📽 DHCP Options Configuration								
0	3 Edit configuration template	🛓 Download configuratio	n template	Upload configuration template				
	B Generate Template							
	DHCP option 160 URLs							
				System URLs				
	EMS accesses phones directly:		http://10.21.8.32/firmwarefiles;ipp/dhcpoption160.cfg					
	EMS accesses phones via SBC HTTP P	roxy:	http://SBC_PF	ROXY_IP:SBC_PROXY_PORT/firmwarefiles;ipp	/httpproxy/			

If you want password to be excluded from HTTP user authentication, configure parameter 'provisioning/configuration/http_auth/password' to **1234**. Users will then not have to enter a password when performing authentication.

- 8. Configure each template to operate with HTTP authentication. Open each template you want to operate with HTTP authentication and add the following values to each:
 - provisioning/configuration/http_auth/password=%ITCS_Line1AuthPassword%
 - provisioning/configuration/http_auth/ui_interaction_enabled=1
 - provisioning/configuration/http_auth/user_name=%ITCS_Line1AuthName%
- 9. Update the parameter 'provisioning/configuration/url':
 - provisioning/configuration/url=%ITCS_HTTP_OR_S%://%ITCS_HTTP_PROXY_ IP%:%ITCS_HTTP_PROXY_PORT%/ipprest/auth_prov.php
- Close the Directory 'configfiles'. For security reasons, it's preferable to close the 'configfiles' web directory as from now on all cfg files will be downloaded from the new location
 http:<SERVER_IP_ADDRESS>/ipprest/lync_auto_prov.php rather than from

 http:<SERVER_IP_ADDRESS>/configfiles/MAC.cfg
 - Open the IIS Manager and remove the 'configfiles' directory:



Figure 5-4: IIS Manager - Remove the 'configfiles' Directory

11. In the System Settings page, click the scep button.

Figure 5-5: Simple Certificate Enrollment Protocol

Simple Certificate Enrollment Protocol								
Warning! Any property change requires OVOC restart.								
Domain								
Password								
URL								
	Back Save							



Device firmware does not support Simple Certificate Enrollment Protocol yet. Future device firmware will support it.

Exporting 'System User' to zip File

Here's how to export the 'system user' that is automatically created after you log in to Device Manager Express, to a zip file.

- > To export the 'system user' to a zip file:
- 1. Open the Export Users and Devices Information page (Setup > Import/Export).

Figure 5-6: Export Users and Devices Information



- 2. Click **Export**; a link to the *users.zip* file is added to the lowermost left corner of the page.
- 3. Click the link; the unzipped file opens displaying a csv file and a cfg file.
- 4. Open the csv (in Excel):

Figure 5-7: csv File in Excel

Γ	A	В	С	D	E	F	G	Н	1	J	К	L	М
1	l Name	Password	Display Name	Tenant	Device 1 Display Name	Device 1 MAC Address	Device 1 Serial Number	Device 1 IP Phone Model	Device 1 Language	Device 1 VLAN Mode	Device 1 VLAN ID	Device 1 VLAN Priority	
1	2 system	&sh&hFDcyZFM	DO NOT DELETE	Nir	Mac10190405_1	00908f123456	SN1193046	430Region2	English		0	0	
1	3												

Excel displays the information related to 'system user'.

Adding Users and Devices Information to the csv File

You need to add to the csv file the information related to all the users and devices in your enterprise's network.



To facilitate this task, you can export a csv from your enterprise PBX and then edit it to conform to the 'system user' csv row shown in the figure above and the columns shown in the table below.

 Table 5-1:
 csv File Information

Up to 30000 users and devices can be defined in the csv file. After defining users and devices, save the csv file on your desktop from where you can import it into the Device Manager Express.

Importing the csv File

After adding to the csv file the information related to all the users and devices in your enterprise's network, import the new csv file into the Device Manager Express.

- > To import the new csv file into the Device Manager Express:
- 1. Open the Import Users & Devices Information page (Setup > Import/Export).

```
Figure 5-8: Import Users & Devices Information
```



- 2. Click **Import** and then navigate to and select the csv file which you created and saved on your desktop previously; the file is imported into the Device Manager Express.
- Open the Manage Users page (Setup > Users & Devices) and make sure all enterprise users you imported are displayed.

6

Using the Zero Touch Setup Wizard to Provision Phones

When plugged in to the enterprise network, phones can automatically be provisioned through the Zero Touch feature.

- Zero Touch determines which template the phone will be allocated.
- The template is allocated per phone model and per phone tenant.
- The template determines which *firmware file* and *configuration file* the phone will be allocated.

Zero Touch provisioning *accelerates uptime* by enabling multiple users and phones to automatically be provisioned and added to the Manager.

You can use the Setup Wizard feature to *set up* Zero Touch provisioning. The Wizard simplifies deployment of phones in the enterprise for network administrators. The Wizard's functions were already implemented in versions of Device Manager Express earlier than Version 7.4, only now they're centralized in a single location for a friendlier deployment experience. Here're the steps to follow to provison phones using the Wizard.

To provison phones using the Zero Touch Setup Wizard:

In the main screen, click the 'Setup' menu and then click the Setup Wizard option.
 Figure 6-1: Step 1 – System Type

GENERATE CONFIGURATION		10406007			
International International International International International International International International	Image: Sector Properties Test Test Test	Red			
	of sector of the	System r systemes			
	Ryshem Type				
	8 Steps for Balances O traditional Extension House Systems				
	(The system will choose the most appropriate templates for configurating the devices.)				

2. Select Skype for Business and then click Next.

The Setup Wizard will be closed if you intend to use other PBXs besides Skype for Business. The Setup Wizard is intended exclusively for Skype for Business.

Figure 6-2: Step 2 - Zero Touch

GENERATE CONFIGURATION		NETWORK TOPOL
Inter Vicent Selay Vicent Users & Devices Protest Configuration Interest Configuration		Perinst Net
) System	zero rouch	
	Using Zero Touch Provisioning	
	яна Ово	
	(For Sear Track-Provisioning need tomatts.)	
		Previous Next

3. Select Yes and then click Next.



GENERATE CONFIGURATION		NETWORK TOPOLOGY
# Setup Woord Setup Privat 3 Users & Devices 3 Process Configuration 3 Imped: /Coord 3 System	Choose Tenant	Proiss Set
	Oxeen finant	
	₹ John Las sublightmatt (2,1 mg rang - +	
	(Deate tenant or use on exists one)	
		Previous Need

4. Choose an existing tenant from the dropdown and click Next. If a tenant doesn't already exist, click Next and configure one. This is to be able to create a specific configuration for the tenant and configure the URL in DHCP Option 160 so devices will use this tenant. If there's no specific tenant configuration to configure, click Next.

Figure 6-4: Step 4 – Tenant Configuration

CENERATE CONFICURATION		NETWORK TOPOLOGY
Seta Ward Seta Ward Seta Ward Seta Seta Seta Proces Cedgesten Proces Cedgesten Seta	Tenant Configuration	Passa No.
	an comparation of the second Act along Act and Act Act and Act	Collganitie E Allere a Collganitie Mar
	manufacturity (c)	1 8 046.1 8
	galancia, program, and production, all productions	1.000° 8
	frænsfolder frem forst fræstense. Entersteffelse frænsforst græstense	
AR	famile/fit.entpro/decom	
		Present Int

5. Click Next.

Figure 6-5: Step 5 – Templates Mapping

O GENERATE CONFIGURATION		NETWORK TOPOLOGY
at tota touri Tota mare - toes to boom - Preve Colporate - toest - toese Zee	real contraction for the first and the second and t	Period Sed
after creating the THEMEL as most to may the THEMELT for and Amica. The THEMELT ALL is done according to the Quint, a THEMELT, and a structure of the THEMELT ALL and a structure of the THEMELT ALL AND ALL A		
	Tetra Templates Templates Templates Tetra Tetra	
	Ordault template per model and tenant	
	Teacher Departemptor	
		Previous Next

6. From the 'Template' dropdown, choose a template.

Figure 6-6: Step 5 – Templates Mapping

GOLENT CONFORMATION	NETWORK TOPOLOGY
A MAR MARK Market Market 1 Mark Mark Mark Mark Mark Mark Mark Mark	Previous Next
1 Input Educt	
zero Touch Templates Mapping	
After reacting the TRUMES as meed to an up the TRUMEST for same deficie. The TRUMEST stall be released by the truth of the TRUMEST, bills this supplies are an an-Lee that registriand to the TRUMEST, bills this applies are and the TRUMEST and the TRUMEST, bills to a part of the Zene Samoh process. Englishing Truthest Englishing Truthest	
Default template per model and tenant	
hequin force_c() + China for C() + Sees Force + See	
	Previous Next



This page is an alternative view to the Devices Configuration Templates page.

- 7. Associate a template according to the MODEL and TENANT. The page displays a mapping table in which you need to map {MODEL + TENANT} to TEMPLATE.
 - a. Select 'IsDefault'; from this point on, the template chosen will be used.
 - **b.** From the 'Phone' dropdown, select the model.
 - c. From the 'Tenant' dropdown, select the tenant and then click Next.

Figure 6-7: Step 6 – DHCP Configuration

Zero Touch Setup Setup Wicard Zero Touch Mapping DHCP Options Configuration	Step 1 Step 2 Step 3 Step 4 Step 5 Step 6 System Jam Trach Track Track Onese Teart Onese Teart Onese Teart Onese Teart Draft Tearline Draft Tearline<					
Uses & Devices Phones Configuration Import / Export System	Finish All is left to do is copy this URL to the DHCP option 160 Note: A device that will get this URL from the DHCP will automatically be entered to tenant ACC STRDE					
	DHCP option 160 configuration					
	Tenant DHCP option 160 URI's					
	Copy this URL to the DHCP option 160:	http://10.38.2.9/firmwarefiles;ipp/tenant/ACL-Israel				
	For testing the device you can set this URL directly to the device(see toolbip)	http://10.38.2.9/ipp/tenant/ACL-israel				

8. Define the URL in DHCP Option 160.

7 Provisioning Phones without the Zero Touch Setup Wizard

You can set up zero touch provisioning in the Manager without using the Setup Wizard. When plugged in to the enterprise network, phones will then automatically be provisioned.

- Zero Touch determines with which *template* the phone will be provisioned.
- The template is provisioned *per phone model* and *per phone tenant*.
- The template determines with which *firmware file* (img) and *configuration file* (cfg) the phone will be provisioned.



Zero Touch accelerates uptime by enabling multiple users and phones to automatically be provisioned and added to the Manager.

Before Implementing Zero Touch

Before implementing Zero Touch, you need to prepare the network.

- > To prepare the network for Zero Touch provisioning:
- 1. Prepare a template (see Preparing a Template for a Tenant/Model below).
- 2. Upload the firmware .img file to the server (see Uploading .img Firmware File to the Server on page 18).
- 3. Configure the DHCP server's Option 160 to allocate the phone to the tenant URL (see Configuring DHCP Option 160 with a Tenant URL on page 18).

Preparing a Template for a Tenant/Model

You need to prepare a template for the tenant / type (phone model) in the deployment. The template informs the server how to generate the .cfg configuration file when the phones are plugged in to the network. When the phones are plugged in, the .cfg configuration file is downloaded to them from the server.

User-configured Speed Dials and Programmable Keys are saved in the device's cfg file and backed up on the server. After the user configures them (see the device's *User's Manual* for details), the phone automatically updates the cfg file on the server. They're downloaded to the phone after:

- they're deleted or some other 'crisis' occurs
- the phone is restored to factory defaults
- the user starts working with a new device
- the user deploys another device at their workstation
- the user's phone is upgraded

This saves the user from having to configure Speed Dials and Programmable Keys from the beginning. The user only needs to configure them once, initially.

If there is no cfg file on the server, the server gets the data from the phone.

> To prepare a template for a tenant / phone model:

1. Open the 'Add new template' screen (Setup > Devices Configuration > Templates).

							+ Add new Template
		Name	Description	Zero Touch default	Tenant	Туре	
0		Audiocodes_420HD	The 420HD SIP IP Phone is a high-definitio	×	ALL		🖸 Edit 🛱 Delete
0		Audiocodes_430HD	The 430HD SIP IP Phone is an advanced, mid	×	ALL		🖸 Edit 📋 Delete
0		Audiocodes_440HD	The 440HD SIP IP Phone is a high-end, exec	×	ALL		🖸 Edit 🛱 Delete
0		Audiocodes_420HD_LYNC	LYNC - The 420HD SIP IP Phone is a high-de	×	ALL		🖸 Edit 🛱 Delete
0		Audiocodes_430HD_LYNC	LYNC - The 430HD SIP IP Phone is an advanc	×	ALL		🗹 Edit 🗊 Delete
0		Audiocodes_440HD_LYNC	LYNC - The 440HD SIP IP Phone is a high-en	0	ALL	440HD	🖸 Edit 🏥 Delete
0	J	Audiocodes_405	The 405 SIP IP Phone is a low-cost, entry	×	ALL		C Edit 🖞 Delete
0		Audiocodes_405_LYNC	LYNC - The 405 IP Phone is a low-cost, ent	×	ALL		🖸 Edit 🛍 Delete
		Nir Default Template430_2	Template for Nir auto testing	۲	NirTest1	430HD	🖸 Edit 🛱 Delete
		Nir Default Template430	Template for Nir auto-testing	×	Nir	430HD	🖸 Edit 🛱 Delete
		Nir Default Template450	Template for Nir auto-testing	×	Nir	450HD	🖸 Edit 🏥 Delete

Figure 7-1: Devices Configuration Templates



For information on third-party vendor products, see the <u>Device Manager for Third-Party</u> Vendor Products Administrator's Manual

2. Click the Add New Template button.

¢	Add new Template		
	Template name		
	Template description		
	Tenant	All	•
	Туре	-	•
	Default		
	Clone From Template	-	•
	Click here to Download Shared	Templates.	
	ј≡ Cancel 🖺 Save		

Figure 7-2: Add New Template

- 3. Enter a name for the template. Make the name intuitive. Include tenant and model aspects in it.
- 4. Provide a description of the template to enhance intuitive maintenance.
- 5. From the 'Tenant' dropdown list, select the tenant.
- 6. From the 'Type' dropdown list, select the phone model.
- 7. Select the **Default Tenant** option for the template to be the default for this tenant. More than one phone type can be in a tenant. All can have a common template. But only one template can be configured for a tenant. If a second template is configured for the tenant, it overrides the first. After a template is added, it's displayed as shown below in the Devices Configuration Template page. When a phone is then connected to the network, if the phone is of this type and located in this tenant, it will automatically be provisioned via the DHCP server from the server (Zero Touch).

Figure 7-3: Default Template Indication

0	Audiocodes_420HD_LYNC	LYNC - The 420HD SIP IP Phone is a high-de	٥	ALL	420HD	🖸 Edit 🏥 Delete

- 8. From the 'Clone From Template' dropdown list, select a template to clone from. If the template is for phones in a tenant that are Microsoft Skype for Business phones, choose a Skype for Business template.
- 9. If necessary, click the **here** link in 'Click **here** to Download Shared Templates'; your browser opens displaying AudioCodes share file in which all templates are located, for example, the templates used with Genesys.

Uploading .img Firmware File to the Server

After obtaining the device's latest .img firmware file from AudioCodes, upload it to the server. When devices are later connected to the network, they're automatically provisioned with firmware from the server. You can also upload the .dfu firmware files for the speakers of the Huddle Room Solution (HRS).

> To upload the .img firmware file to the server:

1. In the Device Manager Express, access the Firmware Files page (Setup > Devices Configuration > Firmware Files).

i =	J≡ Device firmware files						
±	🛓 Download Jabra Firmware						
	Name	Description	Version	File Name	Tenant		
1	405	405 - default firmware	405UC_3.0.1.380	405.img		🕼 Edit	🗑 Delete
2	405HD	405HD - default firmware	HD405UC_3.1.3.144.16	405HD.img		🕼 Edit	🗊 Delete
3	420HD	420HD - default firmware	420HDUC_3.0.1.399	420HD.img		🕼 Edit	🔒 Delete
4	430HD	430HD - default firmware	430HDUC_3.1.3.144	430HD.img		🕼 Edit	🖹 Delete
5	440HD	440HD - default firmware	450HDUC_3.1.3.144.15	440HD.img		🕼 Edit	🗊 Delete
6	445HD	445HD - default firmware	445HDUC_3.1.3.144.20	445HD.img		🕼 Edit	📋 Delete
7	450HD	450HD - default firmware	450HDUC_3.1.3.144.15	450HD.img		🕼 Edit	🗊 Delete
8	457_0110	Speak_457	1 1.10.0	457_0110.img		🕼 Edit	🖹 Delete
9	457_0128	Speak_457	1 1.28.0	457_0128.img		🕼 Edit	🖹 Delete
10	C450HD	C450HD - default firmware				🕼 Edit	🗊 Delete
11	C450HD default firmware v3.1.2	Recent firmware for the C450HD IP phone			Singapore	🕼 Edit	📋 Delete
12	HRS	HRS - default firmware	450HDUC_3.1.3.144.15	HRS.img		🕼 Edit	🔒 Delete
13	Jabra_Evolve_75-v2.0.0	Jabra_Evolve_75-v2.0.0	2.0.0	Jabra_Evolve_75-v2.0.0.zip		🕼 Edit	1 Delete
14	Jabra_Evolve_75-v2.4.0	Jabra_Evolve_75-v2.4.0	2.4.0	Jabra_Evolve_75-v2.4.0.zip		🕼 Edit	🖹 Delete
15	Jabra_SPEAKR_410	Jabra SPEAK 410 1.8.0	11.8.0	Jabra_SPEAKR_410.img		🕼 Edit	🗑 Delete

Figure 7-4: Phone Firmware Files

- 2. In the Firmware Files screen, click the Add new Device firmware button.
- Navigate to the .img file and/or .dfu firmware files for the HRS speakers, and upload to the server.

Configuring DHCP Option 160 with a Tenant URL

You need to point DHCP Option 160 to a tenant URL so that the phones will be automatically provisioned with their .img firmware file and cfg configuration file when they're plugged in to the network for the first time (Zero Touch provisioning).

Either of the following two methods can be used to implement Zero Touch:

- Configure the DHCP server to provision the phone with an IP address that is in the tenant range. Configure the phone to receive the IP address or subnet mask of the tenant.
- Use DHCP Option 160

The Device Manager Express supports backward compatibility so you can point DHCP Option 160 to a region URL. See the *Administrator's Manual* v7.2 and earlier.

Later when the (Skype for Business) phones are signed in, phones and users are automatically added to Device Manager Express which loads their specific .cfg files to them.

> To point DHCP Option 160 to a tenant URL:

- 1. In the Device Manager Express, open the System Settings page (Setup > Devices Configuration > System Settings).
- 2. Click the DHCP Option Configuration button.

- 3. In the DHCP Option Configuration dialog that opens, click the **DHCP Option 160 URLs** link located lowermost in the dialog; the dialog extends to display System URLs and Tenant URLs screen sections.
- 4. Under the Tenant URLs section, select the tenant (in which the phones are located) from the 'Tenant' dropdown list.

DHCP Options Configuration			
🖸 Edit configuration template 🕹 Download configuration	template 1 Upload configuration template		
Generate Template			
DHCP option 160 URLs			
	System URLs		
EMS accesses phones directly:	http://10.21.8.32/firmwarefiles;ipp/dhcpoption160.cfg		
EMS accesses phones via SBC HTTP Proxy: http://SBC_PROXY_IP:SBC_PROXY_PORT/firmwarefiles;ipp/httpproxy/			
Select the tenant and copy the URLs to the DHCP Options accor Tenant: NirTest1 •	Tenant URLs		
The EMS has direct access to the IPPs:	http://10.21.8.32/firmwarefiles;ipp/tenant/NirTest1		
The EMS accesses the IPPs through SBC HTTP Proxy:	http://SBC_PROXY_IP:SBC_PROXY_PORT/firmwarefiles;ipp/tenant/NirTest1		
Direct URL for the phone (no DHCP available):	http://10.21.8.32/ipp/tenant/NirTest1		
To test the tenant URL, select the Template and then click the link below. Model: 405 • • PP with this model will get the configuration (based on DHCP option 160)			

You can configure the device's tenant URL to retrieve files .

- 1. Choose:
 - **Direct URL for the IPP (No DHCP Available)** typically used for debugging purposes when no DHCP is available.
 - Configure DHCP Option 160 to point to the server's URL if the phones are not behind a NAT. DHCP Option 66/67 can also be used.
 - If the phones reside behind a NAT and an SBC HTTP proxy is available, configure DHCP Option 160 to point to the SBC HTTP proxy; communications will then be via the SBC HTTP proxy rather than direct.
- After copying the tenant URL (Ctrl+C) and pasting it into the enterprise's DHCP server's DHCP Option 160, select the phone model from the 'IPP Model' dropdown and then click the button IPP with this model will get from the DHCP; an output of the configuration file that you have configured to provision is displayed. Verify it before committing to provision multiple phones.

For Zero Touch provisioning to function, tenant granularity must correspond with the number of DHCP servers/subnets already located within the enterprise network.

Figure 7-6:	Verifying the device's Configuration	on File
-------------	--------------------------------------	---------

Tenant: ShayS v	
The EMS has direct access to the IPPs:	http://10.21.8.32/firmwarefiles;ipp/tenant/ShayS
The EMS accesses the IPPs through SBC HTTP Proxy:	http://SBC_PROXY_IP:SBC_PROXY_PORT/firmwarefiles;ipp/tenant/ShayS
Direct URL for the phone (no DHCP available):	http://10.21.8.32/ipp/tenant/Shay5
To test the tenant URL, select the Template and then click the link below. Model: 440HD	0)
include Audiocodes_440HD_global_LVNC_empty.cfg management/telnet/enabled=0 ema_server/keep_alive_period=60 provisioning/configuration/url=http://10.21.8.32/configfiles/ provisioning/period/daily/time=0:00 provisioning/period/byte=DAIY provisioning/period/byte=DAIY provisioning/period/byte=DAIY provisioning/period/byte=DAIY provisioning/redirect_server_url=http://redirect.audiocodes.com ema_server/user_namesystem ema_server/userver/userver/userver/userver/userver/userver/userv	
<pre>network/lan/vlan/priority= personal_settings/languege=Korean ;system/oasword="Lu-OOLMXX044=") system/dayight_aswing/activate=ENABLE system/dayight_aswing/and_date/day=1 system/dayight_aswing/and_date/ay=1 system/dayight_aswing/and_date/hour= system/dayight_aswing/and_date/hour= system/dayight_aswing/and_date/hour= system/dayight_aswing/and_date/minute= system/dayight_aswing/and_date/weak=0 system/dayight</pre>	

Zero Touch is supported for phones with sign-in capabilities only.

Configuring DHCP Option 160 with System URL



This configuration is applicable when Zero Touch is not used to provision the phones.

• The instructions below therefore describe a provisioning method that is not the choice method.

The figure below shows the file dhcpoption160.cfg located on the server.



Legend	Description
2	STATIC provisioning method, so the cfg and img files are automatically pulled from the server rather than from the DHCP server.
3	Location of the cfg file, pulled by the phones when they're plugged into the network, on the server.
4	Location of the img file, pulled by the phones when they're plugged into the network, on the server.
5	Name of the 'system user', necessary for basic REST API authentication when the phones are plugged in to the network for the first time.
6	(Encrypted) Password of the 'system user', necessary for basic REST API authentication when the phones are plugged in to the network for the first time.



The **dhcpoption160.cfg** file is created when logging in for the first time to the Device Manager Express.

• The file is an internal file and cannot be manually modified.

After installation, the first, second and third lines in the file are automatically updated.

Editing the DHCP Option 160 cfg File

Administrators can opt to edit the initial DHCP Options 160 cfg file. Choose the **DHCP Option Configuration** button if your phones are communicating with a DHCP server. A DHCP server is mandatory if the phones are behind a NAT.

- > To edit the DHCP Option 160 cfg File:
- 1. Open the System Settings page (Setup > Devices Configuration > System Settings).
- 2. Click the DHCP Option Configuration button.

Figure 7-8: DHCP Option Configuration

HCP Options Configuration									
DHCP option 160 URL ('dhcpoption160.cfg')									
	System URLs								
EMS accesses phones directly:	https://10.1.8.24/firmwarefiles;ipp/dhcpoption160.cfg								
EMS accesses phones via SBC HTTP Proxy:	https://SBC_PROXY_IP:SBC_PROXY_PORT/firmwarefiles;ipp/httpproxy/								
🗹 Edit dhcpoption160.cfg template 🕹 Download dhcpoption160.cfg template									
Generate 'dhcpoption160.cfg'									
Advanced: DHCP option 160 with Tenant Configurat	on								
¢ ^e Back									

3. Click the Edit cfg template button.

Figure 7-9: Edit DHCP Option

Edit DHCP Option									
ems_server/keep_alive_period=60 ems_server/provisioning/kgt= <http_or_s>://<ip_a provisioning/method=STATIC provisioning/configuration/kgt=<http_or_s>://<ip_adi provisioning/firmware/kgt=<http_or_s>://<ip_adi ems_server/user_name=system ems_server/user_password=(<u>'\v\zOp5/5pM</u>=")</ip_adi </http_or_s></ip_adi </http_or_s></ip_a </http_or_s>	DDRESS>/ ADDRESS>/ <u>configfiles</u> / ¤RESS>/ <u>firmwarefiles</u> /								
	_								

4. Edit the DHCP option using the table below as reference.

Table 7-1: DHCP Option

Parameter	Description
Keep alive period	You can configure how often the phones generate a keep-alive trap towards the Device Manager Express. Default: Every 60 minutes. It's advisable to configure a period that does not exceed an hour. The management system may incorrectly determine that the phone is disconnected if a period of more than an hour is configured.

Parameter	Description
Provisioning URL	Defines the URL (including IP address and port) of the provisioning server.
Provisioning Method	Defines the provisioning method, i.e., STATIC or Dynamic (DHCP). Do not change this setting. The setting must remain STATIC. If not, the phone will continuously perform restarts.
Provisioning Configuration URL	Defines the URL of the location of the configuration files (including IP address and port) in the provisioning server .
Provisioning Firmware URL	Defines the URL of the location of the firmware files (including IP address and port) in the provisioning server .
User Name	Defines the user name for the REST API. Default: System . Later, each phone receives its own unique user name.
User Password	Encrypted. Defines the user password for the REST API. Default: System . Later, each phone receives its own unique user password.

You can always restore these settings to their defaults if necessary by clicking the **Restore to default** button in the DHCP Option Configuration dialog, but it's advisable to leave these settings unchanged. The button is displayed only after the DHCP Option is changed.

8 Monitoring and Maintaining the Phone Network

You can monitor and maintain the enterprise's telephony network.

Monitoring the Network from the Dashboard

The Dashboard page lets you quickly identify

- which phones in the network are registered
- which phones in the network are non-registered
- # of registered and non-registered phones (in terms of SIP registration)
- % of registered phones
- MAC and IP address of each phone
- the time the information was reported
- the firmware version

To open the Dashboard page:

Under the **Monitor** tab, click **Dashboard > Dashboard**.

Figure 8-1: Dashboard



If a Skype for Business IP phone is signed out (offline, or not registered), you'll see an x icon inside a grey circle, and the 'User' column will be blank, as shown in the figure below. It will be counted as a Non Registered Device.

Figure 8-2: Dashboard - Skype for Business IP Phone Offline

ſ R	☑ Recent Reports											
	~	User ≑	Time ≑	MAC Addr 🗢	IP 🗢							
	0		03.01.2016 23:09:48	00908f6004fe	172.17.188.62							
	offline	EMS_01	03.01.2016 09:39:03	00908f60a1e7	172.17.188.74							

- Point your mouse over the icon to view the 'offline' tooltip.
- If the phone is not registered, you'll view a red triangle enclosing an exclamation mark.

• View the status thumbnails. Use this table as reference.

Table 8-1: Dashboard – Status Thumbnails

Status Thumbnail	Description
ROSTING EXACTS 0 WOT EFALL 0	Indicates the number of registered devices. Click MORE DETAILS to quickly access the Devices Status page.
NECESSION CONTRACTOR OF CONTRA	Indicates the number of unregistered devices. Click MORE DETAILS to quickly access the Devices Status page.
POCOMECTION DAXS) 74 REFERENCE 0	Indicates the number of disconnected devices. Click MORE DETAILS to quickly access the Devices Status page.
TOR 74 EE	Indicates the number of devices running the version stated above it. Click MORE DETAILS to quickly access the Devices Status page.
Tenants	Pie chart showing the number of <i>devices per tenant</i> that are registered. Hover over a segment of the pie to view the tenant's name and the number of devices registered under it. Click a segment of the pie to open the Devices Status page displaying that tenant and the devices registered under it.
Models	Pie chart showing how many <i>phones of each model</i> are registered. Click a segment of the pie to open the Devices Status page.
Рттони Ф Ф Ф Ф Ф Ф Ф Ф Ф Ф Ф Ф Ф	Pie chart showing how many <i>phones of each firmware version</i> are registered. Click a segment of the pie to open the Devices Status page.

Viewing Network Topology

A **Network Topology** link in the uppermost right corner of the Dashboard page allows administrators to view a snapshot of the network's tenant and subnets.

Figure 8-3: Network Topology Link





Figure 8-4: Network Topology Page

The page shown above displays a single-tenant network. Devices are divided according to subnets. The page allows administrators to determine at a glance which subnets are causing traffic overload (for example). Administrators can point their mouse at a device in a subnet to view information presented in a tool tip on that device.

Checking Devices Status

The Devices Status page lets you check a device's status.

- > To check a device's status:
- 1. Open the Devices Status page (Monitor > Dashboard > Devices Status)

🗹 De	vices Status													Ш	Display Co	olumns 📥 Expor	t 🕽 Reload	Clear Filter
First	First ~ Providua I Nest Last Showing 1 to 50 of 74 entries												Q Filter					
			BToE		~	User Name 🔹	Phone Number		↓ Last Update Status	Mac Address	IP Addrees	•	IPP Nodel 💌	Firmware 🔻	Tenant	Site •	Report Tir	ne Local
	Actions ≡				25	sameMac10190405_2	821476818		06.09.2017 15:21:32	00908f123456	79.116.61.73/10.38.2.9		430HD	UC_2.0.13.121	Nir	AutoDetection	06.09.2017 15:21:	32 myLoci
	Actions 🔳	•			\$5	עברית	+97239764052;ext=40	52	06.09.2017 10:44:08	00908f864721	10.16.2.102 / 10.38.2.9		440HD	UC_3.0.4.109.7	SBA	AutoDetection	06.09.2017 10:45	18
•	Actions ≡				\$	עברית			06.09.2017 10:42:21	00908[484689	172.17.137.220 / 10.38.2.9		440HD	2.0.8.79	SBA	AutoDetection	06.09.2017 10:42:	21
	Actions ≡		۰	Approve	85				05.09.2017 14:27:30	00908fbe1c04	90.122.95.88 / 172.17.113.30		430HD	UC_2.0.13.121	Nir	AutoDetection	05.09.2017 14:27:	30 myLoci
	${\rm Actions}\equiv$			Approve	85	postUserPrefix2_10073203	774360667		03.09.2017 09:13:19	00908fb8cc4f	41.57.10.68 / 172.17.113.27		430HD	UC_2.0.13.121	Nir	AutoDetection	03.09.2017 09:13	19 myLoci
	Actions ≡			Approve	\$5	sMsgDelDevUser04090801_3	895194345		01.09.2017 03:12:30	00908f04ad57	12.56.1.85 / 172.17.113.27		430HD	UC_2.0.13.121	Nir	AutoDetection	01.09.2017 03:12:	30 myLoci
	Actions ≡			Approve	\$5	sMsgDelDevUser04090801_2	306613103		01.09.2017 03:11:51	00908ffd4b6c	127.116.18.11 / 172.17.113.27		430HD	UC_2.0.13.121	Nir	AutoDetection	01.09.2017 03:11:	51 myLoci
0	Actions ≡			Approve	\$5	sMsgDelDevUser04090801_1	176281810		01.09.2017 03:11:13	00908f00212b	29.126.64.39/172.17.113.27		430HD	UC_2.0.13.121	Nir	AutoDetection	01.09.2017 03:11:	13 myLoci
	Actions ≡			Approve	85	operTenMultiDvcs02461101	107147739		01.09.2017 01:48:16	00908f11be4e	108.96.70.22 / 172.17.113.27		430HD	UC_2.0.13.121	Nir	AutoDetection	01.09.2017 01:48	16 myLoci
	${\sf Actions} \equiv$			Approve	85	operSysMultiDvcs22474331	415811854		31.08.2017 21:49:57	00908fd9dedb	96.82.82.12 / 172.17.113.27		430HD	UC_2.0.13.121	Nir	AutoDetection	31.08.2017 21:49:	57 myLoci
	Actions ≡			Approve	\$5	unRegAlert21465931	144583078		31.08.2017 20:51:43	00908f7b3b7d	37.95.86.70 / 172.17.113.27		430HD	UC_2.0.13.121	SBA	AutoDetection	31.08.2017 20:51-	43 myLoci
	Actions ≡			Approve	\$	postUserPrefix2_16235431	527285364		31.08.2017 15:29:33	00908fd40dbd	13.117.59.97 / 172.17.113.27		430HD	UC_2.0.13.121	Nir	AutoDetection	31.08.2017 15:29:	33 myLoci
	Actions ≡	۲		Approve	8				29.08.2017 11:48:33	00908f5ff96d	172.17.121.10		430HD	UC_2.0.13.121	Nir	AutoDetection	29.08.2017 11:48:	33
	${\rm Actions}\equiv$			Approve	85	operSysMultiDvcs12252509	706124590		09.08.2017 11:27:16	00908fb4ec4d	63.72.66.23 / 172.17.113.43		430HD	UC_2.0.13.121	Nir	AutoDetection	09.08.2017 11:27:	16 myLoci
	Actions ≡			Approve	85	sMsgDelDevUser05075309_3	626040359		09.08.2017 04:11:02	00908f24f83e	73.102.5.106/172.17.113.43		430HD	UC_2.0.13.121	Nir	AutoDetection	09.08.2017 04:11:	02 myLoci
	Actions ≡			Approve	\$5	sMsgDelDevUser05075309_2	266215001		09.08.2017 04:10:24	00908fe119cc	74.32.116.51 / 172.17.113.43		430HD	UC_2.0.13.121	Nir	AutoDetection	09.08.2017 04:10:	24 myLoci
	Actions 🗐			Approve	\$5	sMsgDelDevUser05075309_1	356384402		09.08.2017 04:09:45	00908f69ed11	33.114.17.8 / 172.17.113.43		430HD	UC_2.0.13.121	Nir	AutoDetection	09.08.2017 04:09:	45 myLoci

Figure 8-5: Devices Status

2. Click **Filter**; the filter lets you view specific information in the page, preventing information irrelevant to you from cluttering the page.

🖌 Dev	rices Status													Display Col	umns 📥 Export 🕻	Reload
First	← Previous	1 N	ext →	Last								Filter	lear Filter			Close
Showin	ng 1 to 50 of 89	entries										User Phone Number MAC Address IP Address		User Name Phone Number MAC Address IP Address		
			BToE		~	User Name 💌	Phone Number	▼ ↓ Last Update Status	Mac Address 🔹	IP Addrees	▼ IPP Model	Model	Tenant	Site 430HD	Rep <mark>ort Time</mark>	
	Actions ≡	۲	۰			avner2	+97239764072;ext=4072	26.09.2017 16:32:31	00908/612660	10.16.2.83	440HD		SBA	440HD AutoDetection	27.09.2017 10:32:37	
	Actions≡				83	tenantUser16523426_3	746077871	26.09.2017 15:55:53	00908fdc093b	72.119.126.84 / 172.17.113.30	430HD	Version	Nir	UC_3.0.4.403 UC_2.0.13.121	20.07.2017 15:55:53	
	${\sf Actions} \equiv$				5	tenantUser16523426_1	563054429	26.09.2017 15:54:03	00908fefcba1	57.83.125.56 / 172.17.113.30	430HD	UC_2.0.18.121 Status	Nic	AutoDetection	26.09.2017 15:54:03	
	Actions ≡			Approve	85	operTenMultiDvcs11130824	622775675	24.09.2017 10:14:32	00908f453edc	86.52.49.67 / 172.17.113.30	430HD	Approve	Nir	AutoDetection	24.09.20	
	Actions ≡			Approve	85	opersysmultidvcs16335318	186566217	18.09.2017 15:35:13	00908fa9909b	69.95.91.127 / 172.17.113.30	430HD	User With Multiple	Devices	AutoDetection	18.09.2017 15:35:13	
	Actions≣			Approve	85			18.09.2017 12:44:35	00908fd4a8ed	39.62.121.5 / 172.17.113.30	430HD		SBA	nirtesti. shays	18.09.2017 12:44:35	
	Actions ≡			Approve	\$5	sMsgDelDevUser12260218_3	255953502	18.09.2017 11:29:10	00908f8cd1b8	44.104.62.6 / 172.17.113.30	430HD	Site ^{2.0.13.121}	Nir	sba AutoDetection	18.09.201 11:29:10	
	Actions≣			Approve	85	sMsgDelDevUser12260218_2	331096147	18.09.2017 11:28:15	00908fe48aea	91.46.51.50 / 172.17.113.30	430HD		Nir	testisite 25 matrix autodetection	18.09.2017 11:28:15	
	Actions≣			Approve	\$5	sMsgDelDevUser12260218_1	007993462	18.09.2017 11:27:20	00908f552ce8	80.31.36.88 / 172.17.113.30	430HD	Max Devices In Pag	• _{Nic}	50 Detection		
	Actions ≡			Approve	\$5	postUserPrefix2_10480518	856237485	18.09.2017 09:52:51	00908ff9549c	62.27.77.1 / 172.17.113.30	430HD	Filter	lear Filter			
	Actions≡			Approve	\$5	postUserPrefix2_10360918	521218641	18.09.2017 09:40:56	00908/609691	106.42.126.71 / 172.17.113.30	430HD	00_20.00.00	-	Autopetection	10.03.2017-03.40.50	mycos
	Actions≡			Approve	\$5	postUserPrefix2_10173318	425019262	18.09.2017 09:22:21	0090Bf6cecc2	77.20.49.86 / 172.17.113.30	430HD	UC_2.0.13.121	SBA	AutoDetection	18.09.2017 09:22:21	myLos
	Actions≡			Approve	85	postUserPrefix2_10014018	840538434	18.09.2017 09:06:27	00908fdce1ed	87.71.61.92 / 172.17.113.30	430HD	UC_2.0.13.121	SBA	AutoDetection	18.09.2017 09:06:27	myLos
	Actions≡			Approve	\$	sMsgDelDevUser04043518_3	906723125	18.09.2017 03:07:41	00908f08b37e	111.56.93.71/172.17.113.30	430HD	UC_2.0.13.121	Nir	AutoDetection	18.09.2017 03:07:41	myLos
	Actions≡			Approve	\$	sMsgDelDevUser04043518_2	687428490	18.09.2017 03:06:46	00908f21cb52	112.62.34.35/172.17.113.30	430HD	UC_2.0.13.121	Nir	AutoDetection	18.09.2017 03:06:46	myLoc
	Actions≡			Approve	s	sMsgDelDevUser04043518_1	353860665	18.09.2017 03:05:52	00908fdea7d1	30.121.98.35/172.17.113.30	430HD	UC_2.0.13.121	Nir	AutoDetection	18.09.2017 03:05:52	myLos
	Actions≣			Approve	\$5	operSysMultiDvcs23450317	651094742	17.09.2017 22:46:21	00908fdb3c55	29.26.35.80 / 172.17.113.30	430HD	UC_2.0.13.121	Nir	AutoDetection	17.09.2017 22:46:21	myLor
	Artices =			Approve	5	unRepAlert23020717	945289040	17.09.2017.22:05:10	00908f85d1ee	26 50 65 42 (172 17 112 20	42040	UC 2.0 13 121	SRA	AutoDetection	17.09.2017.22-05-10	mia

Figure 8-6: Devices Status Filter

- You can filter per user, phone #, MAC, IP address, model, version, status (registered, offline or disconnected), approved or approval pending, users with multiple devices, or maximum devices shown in the page.
- 4. View in column 'USB Headset Type' if a headset is connected to a phone's USB port; in addition, column 'IPP Model' displays the USB icon.
- View in column 'HRS Speaker Model' the Huddle Room Solution model (457 or 458) if an HRS is connected; in addition, you can view in column 'HRS Speaker FW' the speaker firmware version.
- 6. Non-Skype for Business phones are displayed differently to Skype for Business phones.
 - The format of 'User Agent' for non-Skype for Business phones is for example AUDC-IPPhone/2.0.4.30 (430HD; 00908F4867AF) while the format for Skype for Business phones is AUDC-IPPhone-430HD_UC_2.0.7.70/1.0.0000.0
 - Only Skype for Business phones are displayed under 'Location'; non-Skype for Business phones are not displayed under 'Location'.

- View in the column 'IPP Model' the entries Spectralink 8440, Polycom Trio 8800, Polycom VVX, etc. if these phone models are connected; they can be monitored, configured and templates can be mapped.
- 8. You can click the Export link to export all entries in the page or a selected list of entries to a csv file. This facilitates inventory management; it lets you easily obtain a list of phone MAC addresses or serial numbers, for example. After generating a csv file, a download option is displayed in the lower-left corner. You can save the csv file or open it directly in Excel which displays the same information as that on the page.
- 9. You can click an individual user's **Actions** link.



 Table 8-2:
 Actions Menu

Action	Description	
Check Status	Select the 'Check Status' option.	

Action	Description		
	Status		
	Register: 👁		
	User Name: ofir19-ac5		
	User Agent: AUDC-IPPhone-420HD_UC_2.0.13.160/1.0.0000.0		
	MAC: 00908f480b62		
	IPP Model: 420HD		
	VLAN ID:		
Firmware Version: UC_2.0.13.160			
	SIP Proxy: audio-codes.info		
	Ok		
Change	Select the 'Change Tenant' option.		
renant	Change Tenant		
	Please select a tenant:		
	Region1 v		
	Change Cancel		
	From the dropdown, select the tenant, and then click Change .		
Update Firmware	You can update firmware per device, or for multiple selected devices. Choose the 'Update Firmware' menu option.		

Action	Description		
	?		
Update Firmware			
	Please select a firmware:		
	Update IP phone configuration file and restart the phone		
	Execute action for 5 Devices • at the same time AND delay for		
	5 min v between batches.		
	Update Cancel		
The figure above shows the screen that opens after selecting <i>multiple</i> device The screen for a <i>single</i> device is <i>identical</i> but <i>without</i> the option to execute the			
	action in batches. From the dropdown, select the firmware file, and then click Update ; the firmware file is updated. You can simultaneously update the device's configuration file.		
	If you select <i>multiple</i> devices and then click the Selected Rows Actions link in the title bar to choose 'Update Software' from the drop-down, the screen (as shown in the figure above) will include the option to		
	 update firmware simultaneously for a batch of devices, each batch containing 5 10 20 30 50 100 devices 		
	 configure a 0 second 2 second 5 second 10 second 30 second 2 minute 5 minute delay between batches 		
Open Web Admin	Opens the Web interface (see the device's <i>Administrator's Manual</i>). By default, the Web interface opens in HTTPS.		
Nickname	Allows you to provide a nickname for the enterprise employee to facilitate more effective user and phone management.		
Reset Phone	Sends a reset command to the selected device/s. Note that some phone models wait for the user to finish an active call, while others may perform an immediate restart.		
Generate configuration	Generates the device's configuration file according to its tenantand template. The user configuration will also be generated in case it will be needed.		
Update configuration	Sends a command to the phone to check whether there is a new configuration file to upload and updates the phone after a configurable 'Delay Time' (Default = 2 seconds).		

Action	Description	
Send Message	Lets you send a message to the screen/s of the selected device/s. Enter the message in the 'Text' field. You can configure for how long the message will be displayed in the screen/s.	
Delete Devices Status	Deletes the devices from the Devices Status table.	
Switch to Teams	Applies only to the C450HD phone. The device can be used either as a Microsoft Skype for Business IP phone or as a Microsoft Teams IP phone. Both flavors are supported. Select this option to switch from the Skype for Business phone to the Microsoft Teams phone with native client experience. Note : Device Manager Version 7.8 will support management of the C450HD Microsoft Teams phone. The Device Manager currently does not support switching a C450HD Microsoft Teams phone to a C450HD Skype for Business phone.	
Telnet	Allows administrators to send Telnet (CLI) debug commands to the phone for debugging purposes. Important: For this feature to function, Telnet must be enabled on the device. You can enable Telnet from the Web interface's Telnet page (Management > Remote Management > Telnet).	

10. You can select multiple users and then click the **Selected Rows Actions** link.

Figure 8-8: Actions Menu - Selected Rows

Selected Rows Actions	Change Tenant
Actions \blacksquare	🕹 Update Firmware
Actions ≡	C Reset Phone
Actions ≡	C Generate Configuration
Antione =	Update Configuration
Actions =	🗩 Send Message
Actions ≡	Delete Devices Status
Actions \blacksquare	>_ Telnet

See the table above for descriptions. Any action you choose will apply to all selected rows. For example, select rows, click the **Selected Rows Actions** link, and then select the **Update Firmware** option; all selected devices will be updated with the firmware file you select.

Monitoring Alarms

Devices send alarms via the REST protocol. They're forwarded as mail, SNMP traps, etc. The Alarms page (Monitor > Dashboard > Alarms) shows you

- each device alarm in the network
- a description of each alarm
- MAC address of the device (source)
- alarm severity
- IP address of the device
- last action time
- date and time of receipt of the alarm
Figure 8-9: Alarms

Alarm:	Ø Alarms ▲ Export C Reload								📥 Export 🧲 Reload
For = Previou 3 Not Lut							Filter		
Showing 1 to 5 of 5 entries									
Severity	-		Name 👻	Description •	Tenant 👻	Source *	Remote Host •	Received Time	Last Action Time
1	•	Actions	IPPhone General Local Event	This Event provides information about IPP internal operation	SBA	IPPhone/00908f612bb0	10.16.2.83	26.09.2017 14:53:50	
1	•	Actions	IPPhone General Local Event	This Event provides information about IPP internal operation	SBA	IPPhone/00908f612bb0	10.16.2.83	26.09.2017 05:01:17	
	•	Actions	IPPhone General Local Event	This Event provides information about IPP internal operation	SBA	IPPhone/00908f612bb0	10.16.2.83	26.09.2017 05:01:13	
1	•	Actions	IPPhone General Local Event	This Event provides information about IPP internal operation	SBA	IPPhone/00908f612bb0	10.16.2.83	25.09.2017 09:51:10	
	•	Actions	IPPhone Register Failure	This Alarm is activated upon registration failure	Nir	IPPhone/00908/5ff96d	172.17.121.10	29.08.2017 11:48:41	

The Device Manager Express displays *active* alarms, not historical alarms.

Red indicates a severity level of Critical

Orange indicates a severity level of Major

After an alarm is cleared, it disappears from the Alarms screen.

See also AudioCodes' One Voice Operations Center Monitoring Guide for more information about each alarm.

Searching for Alarms

You can search for alarms in the Alarms page. The 'Search' field enables the functionality. You can search by

- alarm name
- a device's MAC address
- a device's IP address

Performing Actions on Alarms

You can perform actions on alarms in the Alarms page. Click the **Actions** link and from the popup menu select **Delete Alarm** or **Telnet**. The **Telnet** option lets administrators debug directly if an issue arises. See **Telnet** on the previous page for more information.

Maintaining Users

The Manage Users page lets you maintain users. You can

- search for a user/device
- add a user
- add a device to a user
- edit user/device
- view device status
- delete a user/device
- search for a device by name

Searching for Users/Devices

You can search for a user in the Manage Users page (Setup > Users & Devices > Manage Users).

Figure 8-10: Searching for a User/Device

i≡ I	Hanage Users							
		Filte	r by Tenant 🗸 Search Users 🗸	Search term		Q		
2	25 • < First Prev				<u>Next Last></u> Sho	wing 1 to 25 of 489 users		
	Devices	Devices Status		Login Name	Display Name	Tenant	Line URI	Action
1		œ	nndftnusr23450702@cloudbon	1365b.com	nnDfTnUsr23450702	NirTest3		+ 🕜 🗙
2	⊕ (1)	œ	nndftnusr22410402@cloudbon	1365b.com	nnDfTnUsr22410402	NirTest3		+ 🕜 🗙
3	(1)	œ	nndftnusr22251903@cloudbon	1365b.com	nnDfTnUsr22251903	NirTest3		+ 🕜 🗙
4	(1)	0	nndftnusr20540403@cloudbon	1365b.com	nnDfTnUsr20540403	NirTest3		+ 🕜 🗙
5	(1)	ø	nndftnusr17232502@cloudbon	1365b.com	nnDfTnUsr17232502	NirTest3		+ 🕜 🗙

When searching for a user or a device:

- From the 'Search Users' dropdown, select **Search Users** and then in the 'Search Item' field enter the name of the user who you are trying to locate.
- From the 'Search Users' dropdown, select Search Users & Devices and then in the 'Search Item' field enter the name of the user you are trying to locate or the MAC address of the device you are trying to locate.
- From the '25' dropdown, select the number of users you want displayed per page. The default is 25.

Adding a User

You can add a user to the Device Manager Express.

- To add a user to the Device Manager Express:
- 1. Open the Manage Users page (Setup > Users & Devices > Manage Users).
- 2. Click +New User. Before adding phones you need to add users.

Figure 8-11: New User

Add User	
User Name	
Type Name	
Password Weak	
••••]
Display Name	_
Type Display Name	
Tenant	
AutoDetection 🔻	
Submit Cancel	

- 3. Define a name and password for the user.
- 4. Define the 'Display Name'.
- 5. Click Submit; you're returned to the Manage Users page. Locate the added user.

Adding a Phone

You can manually add a single phone to the server.

> To add a phone:

1. In the Manage Users page, click + in the row of the listed added user.

```
Figure 8-12: Add New Device to User
```

device 1	
405 demo lync	¥
-	•
	405 demo lync

- 2. Enter the 'Display Name', i.e., the device's name to be displayed in the Device Manager Express.
- 3. From the 'Device Template' dropdown, select a template.
- 4. Enter the 'MAC Address'.
- 5. From the 'Firmware' dropdown, select the firmware relevant to the phone.
- 6. [Optional] Expand +Advanced Settings.
 - From the 'Devices Language' dropdown, select the language you want the phone interface to display.
 - From the 'VLAN Discovery mode' dropdown, select Manual / CDP / LLDP / CDP_LLDP. See under Appendix Skype for Business Environment on page 49 for more information.
- 7. Click **Submit** and then click **Back** to see the added device in the Manage Users page under the Devices column (click +).

Editing a User

You can edit a user if (for example) they are given another phone.

To edit a user:

- 1. Click the Edit button in the row adjacent to the user; the Edit User screen opens.
- 2. Edit the same fields as when adding the device.

Viewing Device Status

You can quickly assess a device's status from the Manage Users page by clicking the \checkmark icon in the Devices Status column.



Deleting a User

You can delete a user if, for example, they leave the company.

- ➤ To delete a user:
- Click the **Delete** button in the row adjacent to the user; the user and device are removed.

Managing Multiple Users

The Manage Multiple Users page lets you perform an action on a single user or on multiple users simultaneously:

- reset passwords
- delete users
- restart devices
- generate devices configuration files
- update configuration files
- send a message to multiple phones

> To manage multiple users:

 Open the Manage Multiple Users page (Setup > Users & Devices > Manage Multiple Users):

enant 🔻	Search	
Available Users	Selected Users	
system (DO NOT DELETE) fullsearch115261318@cloudbond365b.com (fullSearch115261318) fullsearch215293118@cloudbond365b.com (fullSearch215293118) matan1@audio-codes.info (matan1)	> < > *	
< First Prev Next Last > Showing 1 to 4 of 4 users		
• • • • • •		

Figure 8-13: Manage Multiple Users

- 2. In the Available Users pane, select a user or select multiple users on whom to perform an action.
- 3. Click > to add a single user to the Selected Users pane.
- 4. Click >> to add multiple users to the Selected Users pane.
- 5. Click < to remove a single user from the Selected Users pane after selecting them in the pane.
- Click << to remove multiple users from the Selected Users pane after selecting them in the pane.
- 7. From the **Action** dropdown, select the required action.

Manag	ge Multiple Users						
Tenant	All				Search		
	Available Users					Selected Users	
sbCuS avivini "gamla Gilboa "cola "Gola "C	Pr10@escloudpst.com (V) 3 (Uemo)) n@audiocodes.com (* Gamla Conference Ro @audiocodes.com (* Gamla Conference Ro n=3129@audiocodes.com (* Golan Conference n=3129@audiocodes.com (* Golan Conference n=3129@audiocodes.com (* Golan Conference n=3129@audiocodes.com (* Carmel-3148 (f @audiocodes.com (* Leon Test 1) @audiocodes.com (* Leon Test 2) @audiocodes.com (* Masada) da@audiocodes.com (* Masada) 2123@audiocodes.com (* Masada) da@audiocodes.com (* Masada) da@audiocodes.com (* Ovda-2123) diocodes.com (1007) (1014) (1011) (1010) (102) a10@audio-codes.info (23-Ella10) @audiocodes.com (4179)	nce Room) om) ce Room) ce Room) rrojector)) :tor))) ()			
	< First Prev Next Last Showing 1 to 500 of 993 us	> ers					
г		1					
Action							
	Set Users Tenant			¬			
Execute	Reset Users Passwords	e AND delay for	0 sec	between batches.			
	Delete Users						
	Restart Devices						
	Generate Devices Configuration Files						
	Update Configuration Files						
	Send Message						
	User configuration						
L	Delete User configuration]					

• Use the table below as reference.

Table 8-3: Managing Multiple Users - Actions

Action	Description
Set Users Tenant	< First Prev Next Last > Showing 1 to 8 of 8 users
	Action Set Users Tenant 🔻
	Execute action for 5 Devices T at the same time AND delay for 2 sec T between batches.
	Tenant AutoDetection View Usage Set Users Tenant
	Sets the tenant for users selected.

Action	Description
Reset Users Passwords	First Prev Next Last> Showing 1 to 8 of 8 users Action Reset Users Passwords Execute action for 5 Devices at the same time AND delay for 2 sec between batches. Set the same password to all users Reset Users Passwords Note: To load new user(s) password, please: 1. Generate IPP Configuration File is necessary. 2. Resets users passwords. A random password is generated for each user. To generate a single password for all users selected, select the Set the same password to all users option. To load the new user passwords: Generate the device's configuration file Resetr/Update the device
Delete Users	Deletes users and applies a configurable 'Delay Time' (Default = 2 seconds) after each delete is performed.
Restart Devices	 Restarts devices. A reset command is sent to all selected devices. The commands are sent in batches; each batch contains 5 devices with a delay of 2 minutes between each batch. From the dropdown, choose the type of restart: Graceful (default) Force Scheduled Before restarting, some models wait for the user to finish an active call while others may perform an immediate restart.
Generate Devices Configuration Files	Generates new configuration files. Updates each device with the newly generated configuration files after a configurable 'Delay Time' (default = 2 seconds) - if you select the Updating Devices and restarting Devices after generating files option. You can generate a private configuration file per user group, device group, or the specific tenant.
Update Configuration Files	Updates each device after a configurable 'Delay Time' (default = 2 seconds).
Send Message	Lets you send a message to the screens of all user devices selected. Enter the message in the 'Text' field. You can configure the length of time the message will be displayed in the screens. Phones beep to alert users when messages come in.

Action	Description
	<first last="" next="" prev="" =""> Showing 1 to 8 of 8 users Action Send Message Execute action for 5 Devices Text Display Time 10 sec Send Message</first>
User Configuration	Image: Section and Sect
Delete User Configuration	Deletes the user configuration for the selected users.

The page also lets you

- configure performing the action on a batch of 1 | 5 | 10 | 20 | 30 | 50 | 100 devices simultaneously
- configure a 0 second | 2 second | 5 second | 10 second | 30 second | 2 minute | 5 minute delay between batches

Maintaining Multiple Devices

The Manage Multiple Devices page lets you perform a single operation on all or on many user devices. The page lets you

- delete multiple devices
- change devices type
- change language
- restart multiple devices
- generate devices configuration files
- update configuration files
- send a message to multiple phones
- > To manage multiple devices:
- Open the Manage Multiple Devices page (Setup > Users & Devices > Manage Multiple Devices):

Tenant	Ŧ		Search	
	Available Devices		Selected De	vices
fullSearc fullSearc matan1 - matan1 - matan1 -	h115261318 - fullSearch115261318@cloudbond365b.com 00908faa 215293118 - fullSearch215293118@cloudbond365b.com 00908f677 device 2 device 3 matan1@audio-codes.info 00908f55fb31	ee 460 X		
	< First Prev Next Last > Showing 1 to 5 of 5 devices	•		
Action	······			
F	action for E Dougloop X at the same time AND dolay for	O and The between	aan batches	

Figure 8-14: Manage Multiple Devices

- 2. You can enter a string in the 'Search' field and then click **Go** to search for devices.
- 3. In the Available Devices pane, select a device on which to perform an action and then click > to add it to the Selected Devices pane -or- select multiple devices on which to perform an action and then click >> to add them to the Selected Devices pane.
- 4. In the Selected Devices pane, select a single device and then click < to remove it, or select multiple Selected Devices and then click << to remove them.
- 5. From the **Action** dropdown, select an action. Use the table below as reference.

 Table 8-4:
 Managing Multiple Devices - Actions

Action	Description
Delete Devices	Deletes selected devices from the server applying a configurable 'Delay Time' (default = 2 seconds) in the process.
Change Template	This action will update the device template in the database. To finish the action, you need to:1. Generate the device's Configuration File2. Restart/Update the phone.
Change Language	 Changes the phone language. Select the language from the Language dropdown and click Change. To view the usage of a language, click View Usage. To load a new language: Generate the device's configuration file. Restart/update the phone.
Restart Devices	Restarts online devices. Before restarting, some models wait for the user to finish an active call while others may perform an immediate restart.

Action	Description
	From the dropdown, choose the type of restart: Graceful (default) Force Scheduled
Generate Devices Configuration Files	Generates new configuration files. Updates each phone with the newly generated configuration files after a configurable 'Delay Time' (default = 2 seconds) - if you selected the Updating Devices and restarting Devices after generating files option (by default it is selected).
Update Configuration File	Updates each phone after a configurable 'Delay Time' (default = 2 seconds).
Send Message	Lets you send a message to the screens of all user phones selected. Enter the message in the 'Text' field. You can configure the length of time the message will be displayed in the screen. Phones beep to alert users when messages come in.
Change Firmware	Lets you upload a different .img firmware file to the phone.
Change VLAN Discovery Mode	Used to change the virtual phone network's mode of operation. Go to <u>Skype</u> for <u>Business Environment.htm</u> for the options descriptions [Manual/CDP/LLDP/CDP_LLDP]

- > To update all existing configuration files according to the new template:
- After selecting devices, select from the 'Action' dropdown the Generate Devices Configuration Files option in the Manage Multiple Devices page.

Managing Configuration Files

You can manage devices' configuration files. You can view and manage storage, and upload and delete files from storage. To avoid network congestion, a delay feature enables an interval between each installation.

- > To manage devices' configuration files:
- Open the Manage Configuration Files page (Setup > Devices Configuration > Generated Config Files).

Figure 8-15: Manage Configuration Files

i ≣ Mana	E Manage Configuration Files										
Note:	Note: Acceptable file extension(s) to upload : *.cab, *.cfg, *.csv, *.id, *.img, *.mp), *.wav, *.zip. Configuration standard file extension(s): *.cfg,										
Choo	Choose File No file chosen Upload										
Filenam	Filename filter: Type To Filter										
	Name	Size	Date								
1	00900/964aee.cfg	2.56 KB	March 11, 2019, 12:53 pm	Download							
2	00904555103.cfg	2.95 KB	March 11, 2019, 11:58 am	Download							
3	fermuare	Directory	March 11, 2019, 11:43 am								
4	00904/55/uéb.c/g	3.03 KB	March 11, 2019, 11:23 am	Download							
5	00908f55ld3a.cfg	2.93 KB	March 11, 2019, 11:23 am	Download							
6	00908f864d72.cfg	2.95 KB	March 11, 2019, 11:23 am	Download							

The page lets you

- Filter the .cfg configuration files listed by name
- Browse to a location on your PC and upload a .cfg configuration file
- Select and delete any or all of the .cfg configuration files listed
- Open any of the .cfg configuration files listed in an editor
- Save any of the .cfg configuration files listed
- Download any of the .cfg configuration files listed
- View all configuration files currently located on the server (global configuration files, company directory configuration files, and IP phone configuration files and third-party vendor product configuration files)

Managing Firmware Files

The 'Device firmware files' page allows network administrators to download, edit, delete and add devices' .img firmware files.

To manage the .img firmware files:

Open the Device Firmware Files page (Setup > Devices Configuration > Firmware Files).

Figure 8-16: Device Firmware Files

ш	⊨ Device firmware files										
*	Download AudioCodes Firmware	ownload Jabra Firmware			+ Ac	id new Devic	e firmware				
	Name	Description	Version	File Name	Tenant						
1	405	405 - default firmware	4052.2.12.172	405.img		🕼 Edit	🗃 Delete				
2	420HD	420HD - default firmware	420HD2.2.12.172	420HD.img		🕼 Edit	🗃 Delete				
3	430HD	430HD - default firmware	430HDUC_2.0.13.121	430HD.img		🕼 Edit	🖀 Delete				
4	440HD	440HD - default firmware	440HDUC_3.1.3.144.71	440HD.img		🕼 Edit	🖹 Delete				
5	440_private_shabi	440_private_shabi	440HD2.2.16.129	440_private_shabi.img		🕼 Edit	🗑 Delete				
6	445HD	445HD - default firmware				🕼 Edit	🗃 Delete				
7	450HD	450HD - default firmware				🕼 Edit	🗎 Delete				
8	C450HD	C450HD - default firmware				🕼 Edit	🗎 Delete				
9	HRS	HRS - default firmware				🕼 Edit	🗊 Delete				
10	gddf	gdfgdf	gdfgdf		SCOM	🕼 Edit	🗃 Delete				
11	importFirmware	Firmware for testing the import configuration	430HDUC_2.0.13.121	importFirmware.img		🕼 Edit	🗃 Delete				
12	myFirmName00062310	editedmyFirmDesc00062310	52.84.12.38	myFirmName00062310.img	NirTest2	🕼 Edit	🖹 Delete				
13	myFirmName00400502	myFirmDesc00400502	430HDUC_2.0.13.121	myFirmName00400502.img	NirTest3	🕼 Edit	🗎 Delete				
14	myFirmName01092812	editedmyFirmDesc01092812	48.127.120.84	myFirmName01092812.img	NirTest2	🕼 Edit	🗃 Delete				



For information on third-party vendor products, see the <u>Device Manager for Third-Party</u> Vendor Products Administrator's Manual

In this page you can

- View all .img firmware files currently located on the server
- Add a new device firmware file. Note that if default names are used (e.g., 420HD.img), all devices of this type will automatically use it.
- Manage the .dfu firmware files of the Huddle Room Solution (HRS) speakers.
- Filter by filename the .img firmware files listed
- Determine if the device has firmware or not. If the device does not have firmware, its name will be red-coded and a tool tip will indicate a missing firmware file when you point the cursor at it.

The firmware file is missing in the system.	Speak_457	1128.0	457_0128.img	CZ Edit	🛱 Delete
10 C450HD	C450HD - default firmware			🕼 Edit	🕆 Delete

- If this is the case, upload the device's .img firmware file that you obtained from AudioCodes, to the server:
 - a. Click the red-coded name of the phone.

Figure 8-17: .img Firmware File Upload

Device C450HD Firmware
Name:
C450HD
Description:
C450HD - default firmware
Version:
Version
Tenant:
¥
🕹 Upload firmware file
B Save J≡ Back

b. Click the Upload firmware file button and then navigate to the .img file you received from AudioCodes . You can perform this part of the installation procedure before or after configuring your enterprise's DHCP Server with DHCP Option 160.

- If Microsoft's Internet Information Services (IIS) web server is deployed in the network, you need to change the default value of the parameter 'Max allowed content length (Bytes)' (shown in the following figure) to the size of the .img file (at least) before uploading the .img file of the 445HD or 440HD phone to the Device Manager Express.
 - If it's left unchanged at the Microsoft default, the .img file for the 445HD and 440HD phone will not be uploaded to the Device Manager Express because it's heavier than the Microsoft default.

General		
Allow unlisted file name	extensions	
Allow unlisted verbs		
Allow high-bit character	rs	
Allow double escaping		
Request Limits		
Maximum allowed <u>c</u> ontent le	ength (Bytes):	
3000000		
Maximum <u>U</u> RL length (Bytes	s):	
4096		
Maximum <u>q</u> uery string (Byt	es):	
2048		
	OK	Cancel

- After an .img firmware file has been uploaded to a phone, you can download it to your pc. Click the device's name and then in the screen that opens, click the **Download firmware file** button.
- Edit a device's .img firmware file. Click the name or click the Edit button in the row.
- Delete any .img firmware file listed. Click the **Delete** button in the row.
- Manage .img firmware files by grouping them.
 - a. Click the Add new Device firmware button.

+ Add new Device firmware	
Name:	
Device firmware name	
Description:	
Device firmware description	
Version:	
Device firmware version	
Tenant:	
v	
▲ Continue & Upload	

b. Define an intuitive 'Name' and 'Description' to facilitate easy identification. You can leave the 'Version' field empty, and then click **Continue & Upload**.

	Device C450HD default firmware v3.1.2 Firmware
+ Add new Device firmware	Name:
Name:	C450HD default firmware v3.1.2
C450HD default firmware v3.1.2	Description:
Description:	Recent firmware for the C450HD IP phone
Recent firmware for the C450HD IP phone	Version:
Version:	Version
Device firmware version	Tenant:
Tenant:	Singapore 🔻
Singapore 🔻	▲ Upload firmware file
▲ Continue & Upload	🖺 Save 🗮 Back

c. Click Upload firmware file:

▲ Upload Device Firmware C450HD default firmware v3.1.2
Note: Acceptable file extension(s) to upload : *.cab, *.cfg, *.csv, *.id, *.img, *.mp3, *.wav, *.zip. Device Firmware standard file extension(s): **.
Press the Browse button to locate the file and then press the Submit button. When file upload is complete The file has been uploaded successfully message will be shown.
🔁 Browse No file chosen
C Back

d. Click **Browse**, navigate to the .img file, and then click **Save**; the 'Version' field is populated and the .img file is uploaded to the phone.

- To download Jabra firmware files:
- 1. In the 'Device firmware files' page, click the Download Jabra Firmware button.

j Do	j≡ Download Jabra Firmware								
Q	Search								
	\bigcirc								
1	M	Version: 3.2.0		Download					
	DELL PRO STEREO HEADSET UC150								
	\cap								
2		Version: 2.4.0		Download					
	DELL PRO STEREO HEADSET OC350								
		Version: 1.20.0	Release Date: 16/02/2015 02:00:00	Download					
3		Version: 2.2.0	Release Date: 19/06/2015 03:00:00	Download					
	Jabra BIZ 2300 USB Duo	Version: 2.6.0	Release Date: 20/01/2017 02:00:00	Download					
				_					
	Jabra BIZ 2300 USB Mono	Version: 1.20.0	Release Date: 16/02/2015 02:00:00	Download					
4		Version: 2.2.0	Release Date: 19/06/2015 03:00:00	Download					
		Version: 2.6.0	Release Date: 20/01/2017 02:00:00	Download					
	\cap								
5		Version: 1.6.0	Release Date: 19/06/2015 03:00:00	Download					

- 2. Locate the device firmware you require; point your cursor over each entry for detailed information on each device to be displayed, and then click the **Download** button adjacent to the device whose firmware you require.
- 3. After the download, view the downloaded file indication in the lowermost left corner of the page.



4. To upload the file to the device, follow the same procedure as that described for uploading phone firmware.

Upgrading Devices to the Latest Firmware Versions

The Device Manager's 'Latest versions' page allows network administrators to get the latest device firmware files from AudioCodes' firmware repository located in the cloud, before upgrading the devices in the 'Devices Status' page. The 'Latest versions' page allows network administrators to 'sync' with the repository before performing the upgrade.

> To sync with the repository:

1. Open the 'Latest versions' page (Setup > Devices & Configuration > Latest Firmware Versions).

Get the latest device firmware from the repository in the cloud and then upgrade your devices in the 'Devices Status' page									
Audiocodes Jabra									
Name	Version	Release Date	Updated Date	Size					
05									
105HD	HD405UC_3.2.1.236	2019-05-26 13:53:25	21/07/2019 19:09:29	11,33 MB					
420HD									
430HD	430HDUC_3.2.1.236	2019-05-26 13:53:57	21/07/2019 19:09:39	11,72 MB					
140HD	440HDUC_3.2.1.236	2019-05-26 13:54:12	21/07/2019 19:09:52	11,61 MB					
145HD	445HDUC_3.2.1.236	2019-05-26 13:53:31	21/07/2019 19:10:18	49,86 MB					
450HD	450HDUC_3.2.1.236	2019-05-26 13:53:35	21/07/2019 19:10:34	41,06 MB					
IRS	450HDUC_3.2.1.236	2019-05-26 13:53:35	21/07/2019 19:11:20	41,06 MB					
450HD	C450HDUC_3.2.1.236	2019-05-26 13:56:35	21/07/2019 19:12:16	105,9 MB					
😂 Get la	atest Skype For Busines	s versions(Sync) 🧲 Get l	atest Generic SIP versions(S	Sync)					

Figure 8-18: Latest Versions

2. Click the Get latest Skype for Business versions (Sync) button or the Get latest Generic SIP versions (Sync) button.



Very few deployments, if any, feature both Skype for Business phones *and* generic SIP phones, so when performing a sync, do so for either one or the other, never for both.

Figure 8-19: Sync



- 3. Click the **Download** button; the latest firmware files for the selected phone type are pulled from the repository in the cloud and displayed in the 'Latest Versions' page.
- 4. Open the 'Devices Status' page (Monitor > Dashboard > Devices Status) and from the 'Actions' button adjacent to a phone, select Update Firmware; the phone will use the firmware file listed in the 'Latest Versions' page.



• The same procedure applies to Jabra firmware files viewed under the **Jabra** tab in the 'Latest Versions' page.

• See also Checking Devices Status on page 26.

9 Approving Users



Approving users is not necessary

- when using the Zero Touch provisioning method
- when importing a csv file containing devices (as well as users)

If you are *not* using the Zero Touch provisioning method or importing a csv file, then after plugging the phones into the network you need to approve the users.

Skype for Business Environment

After plugging the phones in, they report to the Device Manager Express which does not display user name in the UI until sign-in is performed or, until users are approved in the UI.

> To approve users in a Skype for Business environment:

1. In the Device Manager Express UI, open the Devices Status page (Dashboard > Devices Status).

🗹 De	evices S	tatus												📥 Export ;	C Reload
First	← Prev	rious 1 N	lext →	Last								Q			Filter
Show	ing 1 to 9	of 9 entries													
			~	User 👻	Phone Number 👻	Last Update Status	MAC 👻	IP 👻	Model 👻	Firmware Version 👻	Region +	Report Time	Location -	Subnet 👻	VLAN ID
	Actions		B	EMS_02	+97239766602	05.01.2016 12:23:42	00908f5ff919	172.17.188.73	430HD	UC_2.0.13.121	Lod	05.01.2016 13:23:43		255.255.255.0	
	Actions		S	EMS_03	+97239766603	05.01.2016 12:23:35	00908f480b4d	172.17.188.64	420HD	UC_2.0.13.121	TelAviv	05.01.2016 13:23:36		255.255.255.0	
	Actions		۲	EMS_04	+97239766604	05.01.2016 12:23:13	00908f60a191	172.17.188.75	440HD	UC_2.0.13.121	TelAviv	05.01.2016 13:23:14		255.255.255.0	
	Actions		ß	EMS_01	+97239766601	05.01.2016 12:14:02	00908f60a1e7	172.17.188.74	440HD	UC_2.0.13.121	TelAviv	05.01.2016 13:14:03		255.255.255.0	
	Actions	Approve	٥			03.01.2016 23:09:48	00908160041e	172.17.188.62	440HD	UC_2.0.13.121	TelAviv	05.01.2016 13:10:01		255.255.255.0	
	Actions	Approve	۲			01.01.2016 12:46:46	00908f5ff96d	172.17.121.10	430HD	UC_2.0.11.194.2.6		05.01.2016 12:47:06		255.255.255.0	
	Actions		۲	EMS_05	+97239766605	31.12.2015 13:22:16	00908f48794e	172.17.188.63	420HD	UC_2.0.13.121	TelAviv	05.01.2016 13:15:35		255.255.255.0	
	Actions		ß	Erez Gabbay	+97239764709	31.12.2015 12:41:43	00908f55fc77	10.13.2.11	440HD	UC_2.0.13.121		05.01.2016 12:42:24		255.255.0.0	
	Actions		S	Yacov Alster	+97239764725	30.12.2015 15:17:57	009081551c8a	10.38.2.3	440HD	UC_2.0.13.121	NewYork	05.01.2016 13:18:49		255.255.0.0	
		Chi	ange R	egion											

Figure 9-1: Devices Status

Screen functions:

You can click the **Export** link; a csv file is generated; a download option is displayed in the lowerleft corner. The same information on the page, e.g., Serial Number which allows administrators to efficiently manage devices stocktaking, is displayed in Excel format.

Actions: Check status, Change Tenant, Update Firmware, Open Web Admin (opens in HTTPS), Reset Phone, Update Configuration, Send Message (to the phone), Delete Status, Telnet.

Approve button. Displayed if the System URL is configured for the DHCP Option. If the Tenant URL is configured for the DHCP Option, the **Approve** button will not be displayed.

Last Update Status. Indicates the last time the status of the device changed.

Other columns: User, Phone Number, MAC, IP, Model, Firmware Version, Report Time, Location, Subnet, VLAN ID

Search option

Smart Filter(s)

1. Select the upper left checkbox (in the figure below it's indicated in red); the **Selected Rows Actions** menu and the **Approve Selected** button are displayed.

Figure 9-2:	Devices Status –	Selected Rows	Actions -	Approve	Selected
-------------	------------------	---------------	-----------	---------	----------

Ø	evices Status													📥 Export 🏾	Reload
Fin	st ← Previous 1 Ne	xt→ Last									٩				🔍 Filter
Sho	wing 1 to 8 of 8 entries														
	Selected Rows Actions	Approve Selected	~	User 👻	Phone Number 👻	Last Update Status	MAC 👻	IP 👻	Model +	Firmware Version 👻	Region +	Report Time	Location +	Subnet 👻	VLAN ID
•	Actions		œ	spanishñ ab	+4467777778	27.12.2015 22:02:57	00908f5ffe11	10.21.2.16 🖬	430HD	UC_2.0.13.121	Lod	28.12.2015 15:03:06		255.255.0.0	
•	Actions		Ø	Yacov Alster	+97239764725	27.12.2015 10:07:49	00908f55fc8a	10.38.2.3	440HD	UC_2.0.13.121	NewYork	28.12.2015 15:08:07		255.255.0.0	
•	Actions		\$3	EMS_05	+97239766605	27.12.2015 10:05:54	00908f48794e	172.17.188.63	420HD	UC_2.0.13.121	NewYork	27.12.2015 10:05:54		255.255.255.0	
•	Actions		\$3	Shay Harel	+97239764720	27.12.2015 09:45:31	00908f484688	10.38.2.8	440HD	UC_2.0.13.121	NewYork	27.12.2015 09:45:31		255.255.0.0	
	Actions		\$3	EMS_02		27.12.2015 09:18:40	00908f5ff919	172.17.188.62	430HD	UC_2.0.13.121	NewYork	27.12.2015 09:18:40		255.255.255.0	
	Actions		\$3	EMS_03	+97239766603	27.12.2015 07:24:00	00908f480b4d	172.17.188.64	420HD	UC_2.0.13.121	NewYork	27.12.2015 19:24:13		255.255.255.0	
•	Actions		۲	française	+3667777777	24.12.2015 16:27:54	00908f486a92	10.21.2.24	420HD	UC_2.0.13.121	Lod	28.12.2015 14:28:36		255.255.0.0	
•	Actions		۲	Erez Gabbay	+97239764709	23.12.2015 16:14:39	00908f55fc77	10.22.13.170	440HD	UC_2.0.13.121	Lod	28.12.2015 15:07:04		255.255.255.0	213

2. Click the Approve Selected button; you're prompted to approve the phone/s selected.

	Approve Device	
User Name		
Password	•••••	
Display Name		
User ID		
MAC Address	00908fbe1c04	
IP Phone Template	405 demo lync	•
Tenant	AutoDetection	•
VLAN Discovery mode	NONE	•
Update IP phor	ne configuration file and restart the phone	
	Approve Cancel	

Figure 9-3: Approve Device

- 3. In the prompt, select the tenant and then click **Approve**; all selected users are approved; all phones restart; the cfg file is automatically uploaded to the phones from the server, which the DHCP server points them to.
- 4. From the 'VLAN Discovery mode' dropdown, select either:

- NONE
- Disabled
- Manual Configuration [of the LAN; static configuration of VLAN ID and priority]
- Automatic CDP [automatic configuration of the VLAN VLAN discovery mechanism based on Cisco Discovery Protocol]
- Automatic LLDP [automatic configuration of VLAN VLAN discovery mechanism based on LLDP]
- Automatic CDP_LLDP [automatic configuration of VLAN (default) VLAN discovery mechanism based on LLDP and Cisco Discovery Protocol. LLDP protocol is with higher priority].

Non-Skype for Business Environment

Unlike Skype for Business phones, the network administrator in a non Skype for Business environment needs to log in users phones. The network administrator can do this by importing a csv/zip file with the phones properties, or by approving the phones users one at a time.



• After plugging in phones, the phones report to the Device Manager Express, which does not display user names whose MAC address are unknown.

> To approve users:

- 1. In the Device Manager Express, open the Devices Status page (Monitor > Dashboard); the non Skype for Business screen is identical to the Skype for Business screen.
- 2. Click **Approve** next to the user; the Approve Device dialog opens the non Skype for Business screen is identical to the Skype for Business screen.
- 3. Enter the User Name and the Display Name, and then click **Approve**; the user name is displayed in the Device Manager Express and the user is approved.

The User Name and Password will function as the SIP user name and password.

- This procedure only applies when connecting phones for the first time. After firsttime connection, the cfg file - containing user name and password - is automatically uploaded to the phones from the server, which the DHCP server points them to.
 - In some non-Skype for Business environments, for example, in Genesys contact centers, Password is not specified.

10 Managing Templates

This topic shows how to manage templates.

System Settings and Placeholders

You can configure new placeholder values according to your enterprise's devices configuration requirements, in the System Settings screen.

You can view the default placeholders values in the Default Placeholders Values page.

> To configure new placeholder values:

1. Open the System Settings page (Setup > Devices Configuration > System Settings).

Figure	10-1:	System	Settings	

N	Note: Changes to values of parameters in this screen will not be applied if the device's configuration file does not include them.					
ø	System Settings					
		Manage Devices				
	Secure (HTTPS) communication from the Device Manager P	ro to the Devices.				
	Secure (HTTPS) communication from the Devices to the Dev	vice Manager Pro (requires generating configuration files).				
	Devices Status: Open Device web administrator using HTTP	s.				
	Only allow devices added by the administrator into OVOC (*requires the OVOC restart)				
		Default Device Configuration				
	Server FQDN	Server FQDN	(%ITCS_ServerIP%)			
	Devices Language	English	(%ITCS_Language%)			
	NTP Server IP Address	(%ITCS_Primary_NTP%)				
	Voice Mail Number	1000	(%ITCS_ MwiVmNumber %)			
	Require SRTP in the Device Configuration File		(%ITCS_ SRTP %)			

2. Configure values for available placeholders according to your enterprise's device configuration requirements. Use the table below as reference.

Except for parameters 'Devices Language' and 'Server FQDN', the parameters below only apply to enterprises whose environments are non Skype for Business.

Parameter	Description
Secure (HTTPS) communication from the IPP Manager to the Devices	Sends secured (HTTPS) requests from the Device Manager Express server to the phone. If the option is selected, communications and REST actions such as Restart, Send Message, etc., will be carried out over HTTPS. Not relevant when using an SBC proxy, see here.
Secure (HTTPS) communication from the Devices to the IPP Manager	Sends secured (HTTPS) requests from the phone to the Device Manager Express server. If the option is selected, communications and REST updates such as keep-alive, alarms and statuses between phone and server will be carried out over HTTPS. Also used for loading firmware and configuration files, and when there is an SBC proxy, see here.
Devices Status: Open Device Web Administrator using HTTPS	The browser immediately opens the device's Web interface, over HTTPS, without prompting that there is a problem with the website's security certificate and that it is not recommended to continue to the website.
Only allow devices added by the admin- istrator into OVOC	 Select this option to allow into the OVOC only those phones that were added by the network administrator. Phones that were not added by the network administrator will be blocked by the OVOC. If a device's Mac Address is not listed in the 'Manage Users & Devices' page, it will be blocked by the OVOC. The OVOC must be restarted for the parameter to take effect.
Server FQDN	[Recommended] Points phones to the server using the server's name rather than its IP address. If phones are pointed to the server's IP address, then if the server is moved due to organizational changes within the enterprise, all phones are disconnected from it. Pointing using the server's name prevents this, making organizational changes easier.
Devices Language	From the dropdown select the language you want displayed in the phones' screens: English (default), French , German , Hebrew , Italian , Polish , Portuguese , Russian , Spanish or Ukraine .
NTP Server IP Address	Enter the IP address of the Network Time Protocol (NTP) server from which the phones can get the time.
Voice Mail Number	Enter the number of the enterprise's exchange. Configuration depends on the enterprise environment, specifically, on which exchange the enterprise has. If the enterprise has a Skype for Business environment, ignore this parameter. Default=1000.
Require SRTP in the Phone Configuration File	Select this option for Secure RTP. Real-time Transport Protocol (RTP) is the standard packet format for delivering voice over IP.
Daylight Saving	Time

Table 10-1: System Settings

Parameter	Description
Active	 Determines whether the phone automatically detects the Daylight Saving Time for the selected Time Zone. Disable Enable (default)
Date Format	 Configures the date format. Valid values are: FIXED. Date is specified as: Month, Day of month. Day of Week. Date is specified as Month, Week of month, Day of week.
Start Time	 Defines precisely when to start the daylight saving offset. month - defines the specific month in the year week - defines the specific week in the month (first - fourth) day - defines the specific day in the week hour - defines the specific hour in the day minute - defines the specific minute after the hour Configures the precise moment the phone will start daylight savings with a specific offset.
End Time	 Defines precisely when to end the daylight saving offset. month - defines the specific month in the year week - defines the specific week in the month (first - fourth) day - defines the specific day in the week hour - defines the specific hour in the day minute - defines the specific minute after the hour Configures the precise moment the phone will end daylight savings with a specific offset.
Offset	The offset value for the daylight saving. Range: 0 to 180.
Administration S	ettings
Disconnected Timeout	Default: 120 minutes. The phone reports its status to the server every hour. If it does not report its status before 'Disconnect Timeout' lapses, i.e., if the parameter is left at its default and two hours pass without a status report, the status will change from Registered to Disconnected and the device's 'Status' column in the Devices Status screen will be red-coded.
Web UI Timezone	Sets the time zone for the Web interface. Used to determine if a device is disconnected when the keep-alive message for 'Disconnected Timeout' is not sent.
Outbound Proxy	,
Redundant Mode	From the dropdown select No Redundant (default) or Primary/Backup . Allows the administrator to set the primary PBX / Skype for Business server to which the phone registers and the fallback option if the server is unavailable. Primary/Backup, or 'outbound proxy', is a feature that enables the phone to operate with a primary or backup PBX/Skype for Business server. If the primary falls, the other backs it up.

Parameter	Description
Primary	Enter the primary PBX/Skype for Business server's IP address, i.e., the outbound proxy's.
Backup	Displayed only if you select the Primary/Backup option for the 'Redundant Mode' parameter (see above).
LDAP Configuration	Lightweight Directory Access Protocol lets you provide distributed directory information services to users in the enterprise. Not applicable in a Microsoft Skype for Business environment.
DHCP Option Configuration	Click this button if your phones are operating directly with a DHCP server without the mediation of an SBC HTTP proxy which is required when the phones are behind a NAT.

3. Click Save.

Selecting a Template

Templates are available

- per tenant
- per phone model
- per model for Microsoft Skype for Business server phones
- per model for regular (non-Skype for Business) third-party server phones

Depending on the tenant, model and the server in the enterprise, select a template for:

- AudioCodes 405
- AudioCodes 420HD
- AudioCodes 430HD
- AudioCodes 440HD
- AudioCodes 450HD
- AudioCodes 420HD Skype for Business
- AudioCodes 430HD Skype for Business
- AudioCodes 440HD Skype for Business
- AudioCodes 450HD Skype for Business



For information on third-party vendor products, see the <u>Device Manager for Third-Party</u> Vendor Products Administrator's Manual

> To select a template:

Open the Devices Configuration Templates page (Setup > Devices Configuration > Templates):

i ≣ Devi	ces Confi	iguration Templates					
							+ Add new Template
		Name	Description	Zero Touch default	Tenant	Туре	
		420HD-Generic_SIP	The template file of 420HD-Generic_SIP is	×	ALL	420HD	🖸 Edit 🗯 Delete
		440HD_OVR_Lync	The template file of 440HD_OVR_Lync is ove	٥	OVR	440HD	🖸 Edit 📋 Delete
0		Audiocodes_405	The 405 SIP IP Phone is a low-cost, entry	×	ALL		🖸 Edit 📋 Delete
0		Audiocodes_405_LYNC	The template file of Audiocodes_405_LYNC i	٥	ALL	405	🖸 Edit 📋 Delete
0		Audiocodes_420HD	The 420HD SIP IP Phone is a high-definitio	×	ALL		🖸 Edit 🏥 Delete
0	Jackson The	JABRA_BASIC	The template file of JABRA_BASIC is overwr	×	ALL		🖸 Edit 🗊 Delete
0		POLYCOM_TRIO_8800	The template file of POLYCOM_TRIO_8800 is	×	ALL		🖸 Edit 🗊 Delete
	J.	POLYCOM_VVX	POLYCOM_VVX	×	ALL	-1	🖸 Edit 🏥 Delete
0		SPECTRALINK_8440	Baseline VoWLAN product with enterprise-gr	×	ALL		🖸 Edit 🗊 Delete

Figure 10-2: Devices Configuration Templates

- Click () for more information about the phone whose template is displayed.
- Click **Edit** to modify a template.

Editing a Configuration Template

You can edit a device's template but typically it's unnecessary to change it.



For information on third-party vendor products, see the <u>Device Manager for Third-Party</u> Vendor Products Administrator's Manual

> To edit a template:

1. In the Devices Configuration Templates page (Setup > Devices Configuration > Templates), click the link of the device or its Edit icon.

Device Audiocodes_445rtD Configuration Template		
Model description: 445HD includes 4.3" color screen, integrated speed dial sidecar and centralized management via AudioCodes One Voice Operations Center		
Zero Touch Installation		
Tenne All Type . T		
C Zero Touch default samplan.		
		🖹 Save
Edit configuration template values		
Configuration Key: Type room		:
Configuration Key	Configuration Value	1
ems_server/seeg_stow_period	80	÷
ema_server/providioning/uni	%HTCS_HTTP_OR_\$%://%HTCS_HTTP_PROXY_IP%:%HTCS_HTTP_PROXY_PORT%/	1
ems_server/user_name	%iTCS_Line1AuthName%	÷
ema_server/user_password	%iTCS_Line1AuthPassword%	1
management/tellnet/lenabled	•	±
network[lan]\dan](d	SUTCS_VLAND%	1
Actions		
🕼 Edit template 🔹 Download template 🔹 Upload template		

Figure 10-3: Device Configuration Template

- 2. To use *this* template in the Zero Touch procedure:
 - a. From the 'Tenant' dropdown under the Zero Touch Configuration screen section shown in the figure above, select the tenant.
 - **b.** From the 'Type' dropdown, select the phone model.

c. Select the option Zero Touch default template.

When a new device of model x and tenant y will be connected for the first time to the network, it will use this template.

1. Click the Edit configuration template button; the template opens in an integral editor:

Figure 10-4: Edit Configuration Template



 Edit the template and then click Save; in the Devices Configuration Templates page, the name of an edited template is displayed in green. See the device's Administrator's Manual for parameter descriptions.

About the Template File

The template is an xml file. It defines how a device's configuration file will be generated. The template shows two sections.

- The upper section defines the global parameters that will be in the global configuration file
- The lower section defines the *private user* parameters that will be in the *device* configuration file

Restoring a Template to the Default

You can restore a template to the factory default at any time.

- > To restore a template to the default:
- Click the **Restore to default** button (displayed only if a change was made); the template and its description are displayed.

Downloading a Template

You can download a template, for example, in order to edit it in a PC-based editor.

- > To download a template:
- Click the **Download configuration template** button and save the *xml* file in a folder on your PC.

Uploading an Edited Template

You can upload a template, for example, after editing it in a PC-based editor.

- > To upload an edited template:
- Click the Upload configuration template button and browse to the *xml* template file on your PC. The file will be the new template for the phone model.

Generating an Edited Template

After editing a template, you must generate the cfg files for the users/devices with whom/which the template is associated.

> To generate an edited template:

1. Click the **Generate Configuration** link located in the upper left corner of the screen, shown in the figure below.

Figure 10-5: Generate Configuration



2. In the Manage Multiple Users – Generate Configuration screen that opens shown in the figure below, select the relevant users.

Tenant All v	Search
Available Users	Selected Users
sbcuser10@e5Cloudpbx.com (이병훈(Demo)) avivim@audiocodes.com (* Avivim) *gamla@audiocodes.com (* Gamla Conference Room) gamla@audiocodes.com (* Gamla Conference Room) "golan-3129@audiocodes.com (* Golan Conference Room) *Golan-3129@audiocodes.com (* Golan Conference Room) *Gamel-3148@audiocodes.com (* Golan Conference Room) *Carmel-3148@audiocodes.com (* Golan Conference Room) *Carmel-3148@audiocodes.com (* Cormel-3148 (Projector)) 4294@audiocodes.com (*Leon Test 1) 4267@audiocodes.com (*Leon Test 2) 4058@audiocodes.com (*Masada) masada@audiocodes.com (*Masada-2140 (Projector)) *Meron-3327@audiocodes.com (*Masada-2140 (Projector)) *Meron-3327@audiocodes.com (*Ouda-2123) 0@audiocodes.com 1007 (1007) 1014 (1014) 1101 (1010) 203-ella10@audio-codes.info (23-Ella10) 4179@audiocodes.com (4179)	2 2 2 2 4
<first last="" next="" prev="" =""> Showing 1 to 500 of 993 users</first>	
Action Generate Devices Configuration Files 🔹	

Figure 10-6: Manage Multiple Users – Generate Configuration

3. After selecting users, click the Generate Devices Configuration Files button

Defining Template Placeholders

Templates include *placeholders* whose values you can define. After defining values, the placeholders are automatically resolved when you generate the template. For example, placeholder **%ITCS_TimeZoneLocation%** is replaced with local time. Placeholders can be defined per tenant, model, etc. The cfg file includes default values and overwritten values according to configured placeholders. If no placeholder is configured, the cfg file will include only default values.

> To show placeholders:

1. In the Device Configuration Template page (Setup > Devices Configuration > Templates), click the Edit button in the same row as the device model.

Figure 10-7: Devices Configuration Template

Cevice 420HD-Generic_SIP Configuration Template	
Nodel description: 420HD-Generic_SIP	
Zero Touch Installation	
Tensient All Type 420HD T	
2ere Touch default templats.	
	😫 Save

2. Click the Show Placeholders button.

Figure 10-8: Templates Placeholders

Templates Place Holders				
	Femplate Model	Placeholder	IPP Parameter	Descripti
my420HDTemplate_17013518	%ITCS_rver/provisioning/url=%	ems_server/provisioning/url		
my420HDTemplate_17013518	%ITCS_Line1AuthName%	ems_server/user_name	The IP Phone authentication name - user MOC without domain	
my420HDTemplate_17013518	%ITCS_Line1AuthPassword%	ems_server/user_password	The IP Phone authentication password	
my420HDTemplate_17013518	%ITCS_VLANID%	network/lan/vlan/id	VLAN ID - Only displayed when the "VLAN Discovery Model parameter (above) is configured to Manual. The valid range is 0 to 4066. The dataatt VLAN ID is 0.	
my420HDTemplate_17013518	%iTCS_VLANMode%	network/lan-Van/mode	VLAI Clossowy Mode - elemines Re VLAI mode of operation Distabili Disabili Manual (Manual Configuration of VLAI - State: configuration of VLAI D (and priority DCP) Advantics: Configuration of VLAI - VLAI discovery metahamina based on LLDP DCP II_LDPI (Andreadic Configuration VLAI - VLAI discovery metahamina based on LLDP and Classo Discovery Protocol (CDP) LLDP (Andreadic Configuration VLAI - VLAI discovery enclamations based on LLDP) DCP II_LDPI (Andreadic Configuration VLAI - VLAI discovery metahamina based on LLDP) and Classo Discovery Protocol (CDP) LLDP (Andreadic Configuration VLAI - VLAI discovery enclamations based on LLDP) and Classo Discovery Protocol (CDP) LLDP (Andreadic Configuration VLAI - VLAI discovery enclamations based on LLDP) and Classo Discovery Protocol (CDP)	
my420HDTemplate_17013518	%ITCS_VLANPriority%	network/lan/vlan/priority	VLAN Priority - Only displayed when the *ULAI Discovery Mode parameter (above) is configured to Manual. Define he provid visitie pretaining to this /LAI The valid targe to Port Uniter & The Heights priority). The default VLAI priority is 0.	
my420HDTemplate_17013518	NTCS_Language16	personal_settingslanguage	Proor Datay Langues - Detirmine the LCD ser Interfaces Language. Exploit English (english (english)) Branch Stannih Privlaguare Refungeane Datapret oily if include in your Feature Key. Utermen (Marsania) Branch Marsania Reface) Heritaria Reface) Heritaria Private) Standaria Reface) Heritaria Data Standaria Data Standaria Data Standaria Data Standaria Data Standaria Data Standaria Data Standaria Data Standaria Data Standaria	
my420HDTemplate_17013518	%ITCS_ServerIP%	provisioning/configuration/url		
my420HDTemplate_17013518	%ITCS_ioning/firmware/url+%	provisioning/firmware/url		
my420HDTemplate_17013518	%ITCS_IPPhoneUsername%	system/user_name	The IPPhone administration user name	

The figure above shows placeholders currently defined in the xml Configuration Template file for the 420HD phone. There are four kinds of placeholders: (1) System (2) Template (3) Tenant (4) Devices.

- To manage an available placeholder, see here.
- To add/edit/delete a template placeholder, see here.
- To add/edit/delete a tenant placeholder, see here.
- To add/edit/delete a device placeholder, see here.

Viewing Default Placeholders Values

Before defining values for placeholders, you can view the default placeholders values.

To view default placeholders values:

 Open the Default Placeholders Values page (Setup > Devices Configuration > System Settings) and then click the Default Placeholders Values button located lowermost in the page.

⊠ D	🗹 Default Placeholders Values						
	Placeholder	Value		Description			
1	%ITCS_ServerIP%	10.21.8.32					
2	%ITCS_TimeZoneName%	SST	The Server TimeZone/Country name				
3	%ITCS_TimeZoneLocation%	-11:00	The Server TimeZone offset format is +/-xxxx				
4	%ITCS_DayLightSwitch%	0					
5	%ITCS_MwiVmNumber%	1234	The Voice Mail number				
6	%ITCS_Version%	1505825489					
7	%ITCS_Language%	English	Determines IPP display user interface language: English, Spanish or Russian				
8	%ITCS_SRTP%	1					
9	%ITCS_IPPhoneUsername%	admin	The IPPhone administration user name				
10	%ITCS_IPPhonePassword%	1234	The IPPhone administration password				
11	%ITCS_destination%	/data/NBIF/ippmanager/generate/	configuration files location on the disk				
12	%ITCS_using_https_to_ems%	0					
	96 Back						

Figure 10-9: Default Placeholders Values

Template Placeholders

You can edit the values defined for an existing template placeholder and/or you can add a new template placeholder.

Editing Template Placeholders

You can edit the values for existing template placeholders.

- > To edit values for existing template placeholders:
- Open the Template Placeholders page (Setup > Devices Configuration > Template Placeholders):

Figure 10-10: Template Placeholders

E Template Placeholders 420HD-Generic_SIP					
Template 420HD-Generic_SIP V Copy Place Holders					
Placeholder	Value	Description			
1 %/TCS_DayLightActivate%	Disable	Day Light Activate - Enable/Disable	Edit Delete		
2 %ITCS_DayLightEndDay%	14	Day Light End Day	Edit Delete		
3 %iTCS_DayLightEndMonth%	9	Day Light End Month	Edit Delete		
4 %iTCS_DayLightStartDay%	26	Day Light Start Day	Edit Delete		
5 %#TCS_DayLightStartMonth%	3	Day Light Start Month	Edit Delete		
6 %iTCS_FirmwareFile%		Firmware File Name	Edit Delete		
7 %iTCS_RegCountry%		The country name - need to use the correct	Edit Delete		
8 %ITCS_SipDigitMap%	**30000	Digit map for the IPP e.g.4xxxx for 4 digit	Edit Delete		

The page shows the placeholders and their values defined for a template.

> To edit a value of an existing template placeholder:

1. Click the adjacent Edit button.

Figure 10-11: Edit Template Placeholder

C Device Manage	er Pro Menu
Device Model - 420HD	-Generic_SIP
Name	
DayLightActivate	
Value Disable v	
Value Disable	
Value Disable Description: Day Light Activate - Enal	ble/Disable

- 2. In the 'Name' field, you can edit the name of the placeholder.
- 3. In the 'Value' field, you can edit the value of the placeholder.
- 4. In the 'Description' field, you can edit the placeholder description.
- 5. Click **Save**; the edited placeholder is added to the table.

Adding a New Template Placeholder

You can add a new template placeholder. A new placeholder can be added and assigned with a new value.

- > To add a new template placeholder:
- Open the Template Placeholders page (Setup > Devices Configuration > Template Placeholders):
- 2. From the **Template** dropdown, select the template , e.g., Audiocodes_420HD.
- 3. Click the Set Value to Place Holder button located in the upper right corner of the screen.



Figure 10-12: Add New Template Placeholder

• Device Manager Pro Menu	
Device Model - 420HD-Generic_SIP	
Name Type Name	
Value	
Type Value	
Description:	
Type placeholder description	
j≡ Cancel 🖺 Save	

- 4. In the 'Name' field, enter the name of the new placeholder.
- 5. In the 'Value' field, enter the value of the new placeholder.
- 6. In the 'Description' field, enter a short description for the new placeholder.
- 7. Click **Save**; the new placeholder is added to the table.

Tenant Placeholders

You can edit values for existing tenant placeholders and/or add new tenant placeholders.

Editing Tenant Placeholders

You can edit the values for existing tenant placeholders.

> To edit values for existing tenant placeholders:

 Open the Tenant Configuration page (Setup > Devices Configuration > Tenant Configuration):



	Set	ect Tenant AudioCodes v			
Tenant Configuration (This values will be added to the end of the HAC.clg configuration file)					
Configuration Key: Type name					:
	Configuration Key			Configuration Value	
lync/BToE/use_UPN_str			1		â
management/telnet/enabled			0		â
network/lan/dhcp/ntp/gmt_offset/enabled			0		â
system/day@pht_saving/mode			Fixed		â
system/daylight_saving/start_date/week			4		â
system/pin_lock/enabled			0		â
E Tenant Placeholders - Replacing the PlaceHolders(%ITCS (This values will replace the Place Holders from the Template)	_%) in the Template.				
Filter:				S Copy Tenant Placeholders From	+ Add new placeholder
Placeholder		Value		Tenant	
1 %ITCS_OVR_Enable% 0				AudioCodes	C Edit 🔒 Delete

2. Under the Tenant Placeholders section, select the placeholder and then click the Edit button.

Name			
OVR_Enable			
Value			
0			
Tenant			
AudioCodes	Ŧ		

Figure 10-14: Edit Placeholder

- 3. In the 'Name' field, you can edit the name of the placeholder.
- 4. In the 'Value' field, you can edit the value of the placeholder.
- 5. Click **Save**; the edited placeholder is added to the table.

Adding a New Tenant Placeholder

You can add a new tenant placeholder.

> To add a new tenant placeholder:

- 1. Open the Tenant Configuration page (Setup > Devices Configuration > Tenant Configuration).
- 2. Under the Tenant Placeholders section of the page, click the +Add new placeholder button.

📀 Add new pla	ceholder	
Name		
Type Name	•	
Malaa		
Type Value		
Tenant		
AutoDetection	•	
]≡ Cancel	🖺 Save	

Figure 10-15: Add New Placeholder

- 3. In the 'Name' field, enter the name of the new placeholder.
- 4. In the 'Value' field, enter the value of the new placeholder.
- 5. Click **Save**; the new placeholder is added to the table.

Devices Placeholders

You can change placeholders values for specific phones, for example, you can change placeholders values for the CEO's phone. You can also edit a device's placeholders values.

Changing a Device Placeholder Value

> To change a device placeholder value:

1. Open the Manage Devices Placeholders page (Setup > Devices Configuration > Devices Placeholders):

Figure 10-16: Manage Devices Placeholders

)≡ Manage Devices Placeholders					
First ← Previous 1 Next→ Last					Q
Showing 1 to 1 of 1 entries				🛛 Add New P	laceholder
Placeholder	Value	Device Name	User Name		
1 %TCS_DayLightActivate%		http://ttpsuser18102324@cloudbond365b.com 00908fc9b99e	httphttpsuser18102324@cloudbond3656.com (httphttpsuser18102324)	🕼 Edit	🔁 Delete

Use the 'Filter' field to quickly find a specific device if many are listed. You can search for a device by its name or by its extension

2. Select the device whose placeholder value you want to change and click Edit.

Change Device Placeholder			
🖓 Please selec	t a device		
First ← 1 → Last	Enter device name	Q	
Showing 1 to 200 of 1095 patrice			
Showing 1 to 200 of 1055 entries			
User Name	Device Name		
*carmel-3148@audiocodes.com (*Carmel-3148 (Projector))	*Carmel-3148@audiocodes.com 00908f987262		
golan-3129@audiocodes.com (Golan Conference Room)	*Golan-3129@audiocodes.com 00908f98090b		
*Meron-3327@audiocodes.com (*Meron-3327)	*Meron-3327@audiocodes.com 00908f484645		
*Meron-3327@audiocodes.com (*Meron-3327)	*Meron-3327@audiocodes.com 00908f987356		
1003 (1101 00908f55fcf5)	1003 00908f55fcf5		
1014	1014 00908f55d258		
1101	1101 0878ff7f0000		
15554090@172.23.0.20 (Eylon Mor)	15554090@172.23.0.20 00908f612b3a		
Note: Click on the table row to select device			
Device ② (Device Model : tenant_Audiocodes_440HD) Key DayLightActivate (Default Value : Disable) Default Value			
j≡ Cancel 🖺 Save			

Figure 10-17: Change Device Placeholder

- 3. Make sure the correct device is selected; the read-only 'Device' field is filled.
- 4. From the **Key** dropdown, choose the phone configuration key.
- 5. Enter the device's default value in the 'Default Value' field, and then click **Save**; the edited device placeholder is added to the table.



The new default value is not automatically generated in the device's configuration file. To generate it, choose the relevant device and then click the **Generate Configuration** link located in the upper left corner of the page.

11 Performing Polycom Configuration

Polycom Trio devices and Polycom VVX devices can be *automatically provisioned with templates per model* from AudioCodes' provisioning server. The feature is an AudioCodes proprietary feature configured from the Polycom Configuration page in the AudioCodes Device Manager (**Setup > Devices Configuration > Polycom Configuration**).

For more information, see the *Device Manager for Third-Party Vendor Products Administrator's Manual* available from AudioCodes.

12 Configuring Phones to Operate in an OVR Deployment

You can configure phones to operate in an OVR (One Voice Resiliency) deployment. See the *One Voice Resiliency Configuration Note* for a detailed description of OVR.

> To configure phones to operate in an OVR deployment:

1. Open the System Settings page (Setup > Phones Configuration > System Settings) and then click the DHCP Option Configuration button.

DHCP Options Configuration	
🗹 Edit configuration template 🔹 Download conf	iguration template
Generate Template	
DHCP option 160 URLs	
	System URLs
EMS accesses phones directly:	http://10.21.8.32/firmwarefiles;ipp/dhcpoption160.cfg
EMS accesses phones via SBC HTTP Proxy:	http://SBC_PROXY_IP:SBC_PROXY_PORT/firmwarefiles;ipp/httpproxy/
	Tenant IIRI s
Colored the tensor to and as wetter URLs to the DUCE Out	
The EMS has direct access to the IPPs:	http://10.21.8.32/firmwarefiles;jpp/tenant/NirTest1
The EMS accesses the IPPs through SBC HTTP Proxy:	http://SBC_PROXY_IP:SBC_PROXY_PORT/firmwarefiles;ipp/tenant/NirTest1
Direct URL for the phone (no DHCP available):	http://10.21.8.32/ipp/tenant/NirTest1
To test the tenant URL, select the Template and then click the Model: 405 • •	link below. ased on DHCP option 160)
DI	

Figure 12-1: Edit DHCP Option

2. Click the Edit configuration template button.
CHAPTER 12 Configuring Phones to Operate in an OVR Deployment

Device Manager Express | Administrator's Guide

Edit DHCP Option	
ems_server/keep_alive_period=60 ems_server/provisioning/unt= <httpp_or_s>://<ip_address>/ provisioning/method=STATIC provisioning/immvare/urt=<httpp_or_s>://<ip_address>/configfiles/ provisioning/immvare/urt=<httpp_or_s>://<ip_address>/firmwarefiles/ ems_server/user_name=system ems_server/user_password=("\vizOp5/SpM=")]</ip_address></httpp_or_s></ip_address></httpp_or_s></ip_address></httpp_or_s>	
Save Cancel	

3. Customize dhcpoption160.cfg. Add the following lines:

outbound_proxy_address=<SBC IP address> lync/sign_in/fixed_outbound_proxy_port=<SBC listening port> lync/sign_in/use_hosting_outbound_proxy=1

4. Click **Save**; the phones are configured to operate in an OVR environment.



After configuring phones to operate in an OVR environment, you must configure their template with the same settings.

13 Signing in to a Phone into which Another User is Signed

If user B signs in to a phone that user A is signed in to, user A's phone is deleted from the Manage Users page and the newly signed-in phone is added to User A.

The Devices Status page is updated with the newly signed-in phone.

Before version 7.2, the GUI remained unchanged, irrespective of the new sign in.



Applies only if the Zero Touch provisioning method was used.

14 Troubleshooting

You can display system logs to help troubleshoot problems and determine cause. System logs comprise:

- Logged activities performed in the Web interface
 - Last logged activities
 - Archived activities
- Logged activities performed in the Device Manager Express
 - Last logged activities
 - Archived activities

> To display system logs:

1. Open the System Logs page (Troubleshoot > System Diagnostics > System Logs).

Figure 14-1: System Logs

■ System Logs	
System Logs	
Web Admin	(L) View
Activity	View

Displaying Last n Activities Performed in the Web Interface

- > To display logged activities performed in the Web interface:
- 1. Click the View button next to Web Admin.

🗮 Web Admin			
Web Admin		Log Level	
🗅 Archive Files	D	Log Level DEBUGING V	🖺 Save
■ IPP_web_admin_log.txt (06-09-2017 03:21:53) 188.92 KB	*		
Show last V log lines			
I≣ Back			

2. From the 'Log Level' dropdown select ERROR, WARN, INFO, DEBUGGING (default) or VERBOSE – All Levels (Detailed).

- 3. From the 'Show last log lines' dropdown select 10, 20, 30, 40, 50 or 100.
- 4. View the generated *IPP_web_admin_log.txt* file.



🔳 Web Admin			
Web Admin	Log Level		
C Archive Files	Log Level DEBUGING T		
∃ IPP_web_admin_log.txt (06-09-2017 03:57:09) 189.00 KB			
Show last 10 V log lines			
		Log file last lines	
14:21:32 127.0.0.1 INFO: fail to generated !!!			
14:21:50 10.38.2.9 acladmin INFO: Login successfully na	ame=acladmin server=10.38.2.9		
03:21:53 10.38.2.9 acladmin DEBUG: setPersonalDataFilena	ame()> There is pesonal file name was sent to	Personal Data parent constructor. filename:	/data/NBIF/ippmanager/personal/users/system.cfg
03:21:53 10.38.2.9 acladmin DEBUG: setPersonalDataFilena	ame() \longrightarrow There is pesonal file name was sent to	Personal Data parent constructor. filename:	/data/NBIF/ippmanager/personal/users/shayNir@audiocodes.com.cfg
03:21:53 10.38.2.9 acladmin DEBUG: setPersonalDataFilena	ame()> There is pesonal file name was sent to	Personal Data parent constructor. filename:	/data/NBIF/ippmanager/personal/users/shayNir2@audiocodes.com.cf
03:21:53 10.38.2.9 acladmin DEBUG: setPersonalDataFilen	ame()> There is pesonal file name was sent to	Personal Data parent constructor. filename:	/data/NBIF/ippmanager/personal/users/shay2@audio-codes.info.cfg
03:21:53 10.38.2.9 acladmin DEBUG: setPersonalDataFilena	ame()> There is pesonal file name was sent to	Personal Data parent constructor. filename:	/data/NBIF/ippmanager/personal/users/Shay.Harel2@audiocodes.com
03:21:53 10.38.2.9 acladmin DEBUG: setPersonalDataFilena	ame()> There is pesonal file name was sent to	Personal Data parent constructor. filename:	/data/NBIF/1ppmanager/personal/users/sameMac10190405_2@cloudbon
03:21:53 10.38.2.9 acladmin DEBUG: setPersonalDataFilena	ame()> There is pesonal file name was sent to	Personal Data parent constructor. filename:	/data/NBIF/ippmanager/personal/users/sameMac10190405_1@cloudbon
14:57:09 10.13.2.19 acladmin INFO: Login successfully r	name=acladmin server=10.13.2.19		
III Back			

5. Click **Save** to save the last logged activities performed in the Web interface and share the log file with others.

Displaying Archived Activities Performed in the Web Interface

- > To display archived activities performed in the Web interface:
- In the System Logs page, click View next to Web Admin and then in the Web Admin page, click the icon next to Archive Files.

🔁 Web Admin	
Web Admin Archive Files	
■ 2017-09-06_7-48-31_log.txt (05-09-2017 04:58:24) 433.45 KB	A Download
■ 2017-09-05_7-47-37_log.txt (04-09-2017 05:12:36) 190.21 KB	A Download
■ 2017-09-04_5-02-45_log.txt (04-09-2017 05:02:45) 977.08 KB	A Download
■ 2017-09-04_4-37-26_log.txt (04-09-2017 04:37:26) 976.75 KB	A Download
2017-09-04_3-56-12_log.txt (04-09-2017 03:56:12) 976.78 KB	A Download
■ 2017-09-04_1-33-53_log.txt (04-09-2017 01:33:53) 976.67 KB	A Download
■ 2017-09-03_23-40-39_log.txt (03-09-2017 23:40:39) 976.62 KB	A Download
■ 2017-09-04_8-21-19_log.txt (03-09-2017 05:09:44) 781.90 KB	🛓 Download
■ 2017-09-03_3-30-20_log.txt (03-09-2017 03:30:20) 976.79 KB	🛓 Download
■ 2017-09-03_2-58-18_log.txt (03-09-2017 02:58:18) 976.60 KB	A Download
■ 2017-09-03_2-57-54_log.txt (03-09-2017 02:57:54) 976.79 KB	🛓 Download
2017-09-03_2-57-30_log.txt (03-09-2017 02:57:30) 976.80 KB	🛓 Download
■ 2017-09-03_2-57-07_log.txt (03-09-2017 02:57:07) 976.78 KB	🛓 Download
🖹 2017-09-02_21-11-43_log.txt (02-09-2017 21:11:43) 976.64 KB	📥 Download
■ 2017-08-31_14-32-44_log.txt (31-08-2017 14:32:44) 976.67 KB	📥 Download
■ 2017-08-31_13-47-37_log.txt (31-08-2017 13:47:32) 977.23 KB	📥 Download
■ 2017-08-31_23-56-10_log.txt (31-08-2017 12:56:10) 976.66 KB	A Download
■ 2017-08-31_12-14-26_log.txt (31-08-2017 12:14:26) 977.50 KB	🛓 Download
🖹 2017-08-31_11-15-02_log.txt (31-08-2017 11:15:02) 976.64 KB	A Download
2017-08-31_10-26-15_log.txt (31-08-2017 10:26:15) 976.84 KB	📥 Download
2017-08-31_9-37-25_log.txt (31-08-2017 09:37:25) 976.72 KB	📥 Download

Figure 14-4: Archive Files

Displaying Last n Activities Performed in Device Manager Express

- > To display last activities logged in the Device Manager Express:
- 1. In the System Logs page, click **View** next to **Activity**.

Figure 14-5: Logged Activities Performed in Device Manager Express



2. From the 'Show last log lines' dropdown select 10, 20, 30, 40, 50 or 100.

Figure 14-6: Logged Last Activities Performed in Device Manager Express

E Activity	
Activity	
🗅 Archive Files	
IPP_activity_log.erv (06-09-2017 03:57:09) 13.05 KB	3
Show last 10 V log lines	
	Log file last lines
acladmin,2017-09-06 14:21:11,10.38.2.9,LOGOUT,A	UMIN,OK,acladmin, logout
,2017-09-06 14:21:32,127.0.0.1,ADD,USER,OK,same	Mac10190405_2@cloudbond365b.com,Success to create new User
,2017-09-06 14:21:32,127.0.0.1,DELETE,DEVICE,OK	(,sameMac10190405_1@cloudbond365b.com 00908f123456,Success to delete device
,2017-09-06 14:21:32,127.0.0.1,ADD,DEVICE,OK,sa	meMac10190405_2@cloudbond365b.com 00908f123456,Success to create new device
,2017-09-06 14:21:50,10.38.2.9,LOGIN,PASSWORD,O	X,acladmin,Correct current password: *****.
acladmin,2017-09-06 14:21:50,10.38.2.9,LOGIN,AD	MIN,OK,acladmin,Success login user name=acladmin
acladmin,2017-09-06 14:31:53,10.38.2.9,LOGOUT,A	DMIN,OK,acladmin, logout
acladmin,2017-09-06 14:48:22,10.13.2.19,LOGOUT,	,ADMIN,OK,acladmin, logout
,2017-09-06 14:57:09,10.13.2.19,LOGIN,PASSWORD,	,0K,acladmin,Correct current password: *****.
acladmin,2017-09-06 14:57:09,10.13.2.19,LOGIN,A	iDMIN,OK,acladmin,Success login user name=acladmin
III Back	

Displaying Archived Activities Performed in Device Manager Express

- > To display logged archived activities performed in the Device Manager Express:
- In the System Logs page, click View next to Web Admin and then in the Web Admin page, click the icon next to Archive Files.

Figure 14-7: Logged Archived Activities Performed in Device Manager Express

i≡ Activity	
Activity Archive Files	
B activity_logger_Wed_Sep_6_7_48_31.csv (05-09-2017 05:08:37) 14.17 KB	A Download
activity_logger_Tue_Sep_5_7_47_37.csv (04-09-2017 05:22:36) 43.73 KB	A Download
activity_logger_Mon_Sep_4_8_21_19.csv (03-09-2017 05:19:16) 378.96 KB	A Download
activity_logger_Mon_Aug_14_8_00_05.csv (13-08-2017 05:08:05) 3.40 KB	A Download
activity_logger_Thu_Aug_10_7_27_45.csv (09-08-2017 03:16:53) 814.61 KB	A Download
Back	

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Document #: LTRT-91187

