

Accessing and Managing Utility Server

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Chapter 1: Utility Server overview

The Utility Server runs a number of utility applications that support or enhance the component applications facilitating a complete single box solution.

These Utility Server applications are briefly discussed in the following sections.

Utility Admin

Utility Admin enables you to configure and access various Utility Server applications, as follows:

- IP Phone file server: Supports the download of IP phone firmware and settings files. It also supports the back up and restore of IP Phone user configuration (for example, speed dial configurations.)
- IP Phone Settings Editor: Provides a web based tool for configuring the IP phone settings file. This significantly simplifies the process of making changes to the IP phone settings file and provides enhanced validation to help avoid mis-configurations.
- IP Phone firmware management: Enables you to upload new phone firmware to the file server.
- DHCP server: Provides basic DHCP server capabilities for supporting IP phones.
- Log viewer: Enables you to access the log files for all of the utility server applications.
- CDR Tools: Provides a CDR (Call Detail Records) collection capability that collects CDR records from Communication Manager and imports them into the Utility Server's database. It also provides some simple example reports to demonstrate how the CDR data in the database could be used by a system administrator.

MyPhone Admin

MyPhone Admin enables you to access some configuration elements of MyPhone and IP Phone operations, as follows:

- MyPhone Feature Buttons: Allows you to enable and disable the features available to the users of MyPhone.
- WML Links: The IP Phones have an ability to display a default WML page. This option enables you to configure the default WML page. On a general installation, the default page provides links to the Avaya Thin-Client LDAP Directory without a web address entry, and a System Message page.
- System Message: Enables you to configure the WML page. This typically contains a block of text which is relevant to every IP Phone user.
- Configure Directory Application: Enables you to configure the Avaya Thin-Client LDAP Directory through four options, namely General Administration, Search Administration, Details Administration, and Softkey Administration.

MyPhone

MyPhone enables you to configure the IP phones through a web interface. You can configure buttons, language settings, EC500, Enhanced Call forwarding and so on. It also enables you to change their station security codes and other parameters through the web interface.

MyPhone User Guide

MyPhone User Guide enables you to access the MyPhone documentation (a PDF file) without accessing the MyPhone application first.

Accessing Utility Server applications

The Utility Server administration web pages enable you to access various Utility Server applications and administer user settings and perform other administrative activities.

- 1. Enter the Utility Server URL on your web browser.
- 2. Click Utilities > Utility Admin.
- 3. Enter the user name.
- 4. Click Logon.
- 5. Enter the password.
- Click Logon. The system displays the Utility Server menu.

Chapter 2: Utility Admin

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Viewing legal notice

Click Common > Legal Notice.

The Legal Notice page displays copyright and trademarks information.

The system always displays this page after you successfully log on to the Utility Server.

Miscellaneous

Ping host

You can confirm network connectivity between the Utility Server and other IP hosts.

Pinging a host

- 1. Click Miscellaneous > Ping Host.
- 2. On the Ping page, enter the Host Name or IP Address for the endpoint to ping.
- 3. Do one of the following:
 - Select the respective check box if you do not want the system to look up symbolic names for host addresses while pinging.

- Select the respective check box if you want the system to bypass normal routing tables and send directly to a host while pinging.
- 4. Click **Execute Ping** to ping the required endpoint and check the connectivity.

IPv6 Ping Host

You can confirm network connectivity between the Utility Server and other IPv6 hosts.

Pinging an IPv6 Host

- 1. Click Miscellaneuos > IPv6 Ping Host.
- 2. On the IPv6 page, enter the Host Name or IPv6 IP Address for the endpoint to ping.
- 3. Do one of the following:
 - Select the respective check box if you do not want the system to look up symbolic names for host addresses while pinging.
 - Select the respective check box if you want the system to bypass normal routing tables and send directly to a host while pinging.
- 4. Click Execute Ping6 to ping the required endpoint and check the connectivity.

Upload files

You can run a web browser to upload a file to the Utility Server. You can upload either single file or a zipped file. In both cases, the file is transferred from the web browser session to the $/ \pm mp$ directory on Utility Server. Other applications can use this directory as a temporary store for files.

IP Phone Tools

IP Phone Settings Editor

You can configure settings for an IP phone using the IP Phone Settings Editor. Most Avaya IP phones use the 46xxsettings.txt file to configure phone related settings such as default WML

page and what options users can access from the handset. The IP phone settings editor allows easy editing of this file together with entry checking and help files.

Configuring view of IP Phone settings file

- 1. Select **IP Phone Settings Editor** from the left navigation menu. The system displays the IP Phone Settings Editor page.
- 2. Select the **Display file comments** check box to display the comments located in the 46xxsettings file. If this check box is cleared, the comments remain in the 46xxsettings file, but the system does not display them.
- 3. Select the **Display only active options** check box to display only the active settings on the IP phones. Other values remain in the 46xxsettings file as is, but the system does not display them.



🐯 Note:

Comment lines start with ##. Active lines start with SET command and contain options that are read by the IP phones. Lines within the file that start with ## SET are inactive. Currently the settings editor works only with values in uppercase. So, you must use uppercase for SET and parameter names in the file.

Editing IP Phone settings file

- 1. Do one of the following steps to select a settings file to edit:
 - Download the 46xxsettings.txt file from the Utility Server through http. This is the default method and lets you edit the 46xxsettings file that resides in the Utility Server. SIP and H.323 IP phones use the same 46xxsettings.txt file.



🐱 Note:

You can edit the URL address in the text box to download the file from a different http source. If you have a different file server in the network, then enter the URL for 46xxsettings txt on that server. The application downloads the 46xxsettings.txt file for editing.

The application cannot save back to the remote server. You must download the edited 46xxsettings txt from the server on the save page and then upload it back to the original server.

 Select Upload IP phone settings or xml file and then click Browse to upload a 46xxsettings.txt file or IpPhoneParameterDefinitions.xml file from a computer to the server.

The IpPhoneParameterDefinitions.xml contains help and entry information for the editor. At present, the latest version of IpPhoneParameterDefinitions.xml file is included in the Utility Server, and will be available on the Avaya support site for the later releases. The latest version of the 46xxsettings.txt file is available on the Avaya support site.



If the 46xxsettings file size is very large, the system takes approximately 5-10 seconds to load the file.

- 2. Click Proceed with selected values to edit the selected file. The system displays the 46xxsettings.txt page with four colums, namely **Activate**, Parameter, Value, and Add Edit Delete. See IP Phone Setting Editor field descriptions on page 14.
- 3. Do one of the following steps, as required:
 - Performing basic IP Phone settings editing on page 12
 - Checking IP Phone settings syntax on page 12
 - Performing advanced IP Phone settings editing on page 13

Performing basic IP Phone settings editing

Do one of the following steps:

- To activate a setting or deactivate a setting in the file, click the check box in the Activate column. If the check box is checked, the value is exposed within the file and the IP phones will use that value.
- To change a value of a setting, change the value in the text box.



🐯 Note:

You must save the changes every time by using the Commit button at the bottom of the page.

Checking IP Phone settings syntax

Do one or more of the following steps as required:

- If the system displays a setting with orange border, it indicates that the setting is not found in the xml file in the system and can be invalid. Correctly specify such settings.
- If the system displays any values with red border, it indicates that the values are incorrect and the IP phones cannot understand them. Click on a settings value to see the detailed information on the problem and correct the value.

Performing advanced IP Phone settings editing

Do one or more of the following steps:

- To reload the settings and return to the current line, click **R**. This is useful if you have changed a setting and want to verify if it is correct
- To add a line, click +. The page reloads and the system displays a drop down menu with all the available IP phone options in alphabetical order. The real lines in the file are displayed above and below the add line. Select the required option and enter the required value in the text box. Click Add Line. The line will be added below the current line.
- To add a comment, go to statement or raw text and click +. Select the **Comment** option from the bottom of the drop down menu, and click **Add Line**.
- To edit an entire line, click <. The page reloads and the line is displayed exactly as it appears in the file. Edit the text as required, and click **Save Line**. You can also edit the comment lines using the same procedure.
- To delete a line, select the line and click -. If you accidentally delete a line, you can reload the original settings file by clicking **IP Phone Settings Editor** from the left navigation menu. Any changes are not saved to the file until the final page is displayed and a save option is selected.

Saving IP Phone settings

- 1. After you are done with all the changes, click **Save New Settings File**.
- 2. On the Output Screen page, do one of the following steps:
 - Click Save 46xxsettings.txt file to this server to save the file in the Utility Server.

• Click either the **46xxsettings.txt(comments included in file)** link or the **46xxsettings.txt(no comments)** link to download the file to your computer.

IP Phone Setting Editor field descriptions

Name	Description
Activate	This column contains a checkbox. If this checkbox is selected, it signifies that the setting is active and ready to be read by the IP Phones. If the checkbox is cleared, the setting is inactive and appears commented out in the settings file and the IP phones do not read the settings.
Parameter	Displays comments and settings values. Comments span through both the columns and you can edit them using the edit line button in the next column. The system displays the IP phone settings name in the parameter column and their current value are displayed in the Value column.
Value	Displays comments and settings values. Comments span through both the columns and you can edit them using the edit line button in the next column. The system displays the IP phone settings name in the parameter column and their current value are displayed in the Value column.
Add Edit Delete Reload	Contains buttons to add a new line, to edit the entire line, to delete a line, or reload the page. Add: Adds a line or a comment. Edit: Edits an entire line or the comment lines. Delete: Deletes a line. Reload: Reloads the page validating any changes.

IP phone backup and restore

You can use the IP Phone Backup and Restore option to back up and restore individual IP phone settings. The IP Phone Backup and Restore option enables you to compress the backup files into a ZIP file and store it locally, and then restore an existing backup file to the Utility Server's repository of IP phone backup files.

Backing up an IP Phone settings file

- 1. Click Configuration Tools > IP Phone Backup and Restore.
- 2. Click Create Backup to create a new ZIP file of the IP Phone backup files. After creating the backup file, the system provides you a link to download the newly created ZIP file.

Restoring an IP Phone settings file

- 1. Click Configuration Tools > IP Phone Backup and Restore.
- 2. Click **Browse** to locate an existing ZIP file of the IP Phone backup files.
- 3. Click **Upload Backup** to upload the backup files to restore later.

IP Phone Backup and Restore button descriptions

Name	Description
Create Backup	Creates a new ZIP file of the IP Phone backup files. After creating the backup file, the system provides you a link to download the newly created ZIP file.
Upload Backup	Uploads a backup ZIP file to the Utility Server's repository of IP Phone backup files.

IP phone firmware manager

This application enables you to perform controlled resetting of H.323 IP stations registered on Communication Manager to load new settings or upgrade firmware on IP phones.



You cannot reset IP stations that are not logged in or are logged in with unnamed registrations using this application.

Display stations

This page displays the IP stations registered with Communication Manager configured using Communication Manager login.

Display Stations field descriptions

Name	Description
Extension	Extension number on Communication Manager.
Туре	The station type as set on the station form.
Connected Type	The actual type of station that is connected.
Model	The type of IP phone that is connected.
Network Region	The IP network region the phone is in.
IP address	The IP address as seen on Communication Manager of the IP endpoint.
Firmware Version	The current version of firmware on the IP endpoint.
Firmware on the Utility Server	The firmware version stored locally on the Utility Server.

Display Stations button descriptions

Name	Description
Update Table	This button forces the IP Phone Firmware Manager application to log into Communication Manager and update the Phone Firmware Manager database with the station information.
Refresh Page	This button refreshes the current web page with the current information in the Phone Firmware Manager database.

Display server firmware

This page displays the firmware stored locally on Utility Server. If you set an IP phone to use Utility Server, the system upgrades the IP phone to the release listed in this page after a reset.

Upload phone firmware

This feature provides a centralized deployment feature for IP Phone Firmware.

Manage Firmware button descriptions

Name	Description
View	Displays the information of the selected firmware package.
Unpack	Unpacks each package of phone firmware separately (extract files from the ZIP archive).
Activate	Activates the selected firmware package and makes it available to the Utility Server.
Deactivate	Deactivates the selected firmware package and remove it from the web server.
Remove	Deletes the extracted files as well as the ZIP archive.

CM Login

This page contains the login for Communication Manager.

CM Login button descriptions

Name	Description	
Change Callserver	Saves any changes made to the settings on the CM Login page.	
Test Connection	Checks the connections and logins.	

Schedule control

This page enables you to select the IP phones to reset and specify the period for reset. You can also configure the system to reset an IP phone if the IP phone fails to upgrade, or if you do not want to reset a station that is currently active on a call.

You can reset the IP phones based on network-region, IP phone type, certain firmware loads, extension, or extension ranges. You can also specify the date and time to reset the IP phones.

Schedule Control field descriptions

Name	Description
Select Phones	Lets you select an IP phone or all the IP phones to reset based on the phone type and firmware.
Select Start Time	Time at when the reset operation starts. You can either choose to reset a phone immediately or set a date and time for the reset operation at a later time.
Select Stop Time	Time at when the system stops the reset or reboot operation. You can specify the date and the time for the reset operation.
Select whether a phone may be updated while being active	If this option is set to no, the system does not reset the phones that are currently active on a call.
Select whether a phone running the latest firmware should be reset	If this is set the system resets only those phones that are not running the same version of the firmware on the Utility Server. You must set this option to yes if you have made any changes to the 46xxsettings.txt file that the phones use.
Enter the minimum delay between handling of phones	The number of seconds the system waits between resetting of phones to prevent the file server being overloaded.
Enter the maximum number of error retries per phone	The number of times the system retries to reset a phone in the event it fails to upgrade the phone to the firmware on Utility Server. The number of retries is limited by the stop time specified by the Select Stop Time field.
Enter the minimum delay between error retries	The number of seconds the system waits before trying to reset the same phone again.
Select when error retries are rescheduled	Schedules the number of attempts for resetting a phone when there is an error in resetting at the end of the scheduled period or during the scheduled period.

Schedule Control button descriptions

Name	Description
Schedule Phone Firmware Update	Schedules the IP Phone Firmware update according to the settings in the Schedule Control page.

DHCP Manager

DHCP

DHCP (Dynamic Host Configuration Protocol) is a method for endpoints to automatically obtain IP addresses. Any client configured to use DHCP can obtain an IP address from the server automatically allowing easier management of IP endpoints and efficient use of IP addresses.

The Utility Server DHCP uses the Linux DHCPD. Advanced users familiar with Linux DHCPD can edit the dhcpd.conf directly and the application supports this. Any entry that is not displayed on the Web-based DHCP editor is stored in the file.

DHCP server status

You can use the DHCP Server Status option to check whether the DHCP server is running or not.

Viewing DHCP server status

Click DHCP Manager > DHCP Server Status.

The system displays whether the DHCP service is running or not.

Activate or deactivate DHCP

Activate/Deactivate DHCP enables you to activate or deactivate the DHCP server. When you activate the server, a status message from the service is displayed. If the DHCP server moves to a running state, it means that the dhcpd.conf file is correctly created and the DHCP server has started. If there is a problem in the dhcpd.conf file, the DHCP server will not start and an error message will be displayed indicating the likely cause of the problem.

Activating and deactivating DHCP server

- Click DHCP Manager > Activate/Deactivate DHCP.
 The DHCP Service Control page displays the status of the DHCP server.
- Click Activate DHCP Server or Deactivate DHCP Sever to activate or deactivate the DHCP server based on the current status of the DHCP server.

DHCP Service Control button descriptions

Name	Description
Activate DHCP Server	Activates the DHCP server. If the DHCP Service Control page displays the status of DHCP service as RUNNING , then you do not need to activate the DHCP server again.
Deactivate DHCP Server	Deactivates DHCP server.
Load last working DHCPD conf file	Loads the DHCPD file containing your settings that you used to run the DHCP Server last time.

DHCP IP address pools

You can use the DHCP IP Address Pools option to configure DHCP IP addresses. You can add subnets to existing networks, view the subnet details for existing networks, edit subnet details or remove the subnets for a network range.

Viewing DHCP subnets

- 1. Click DHCP Manager > DHCP IP Address Pools.
- 2. Select a network from the list for which you want to view the subnet details.
- 3. Click **View Subnet**. The raw details of the file are displayed showing all values in the range.

Adding a DHCP subnet

- 1. Click DHCP Manager > DHCP IP Address Pools.
- 2. Click Add Subnet.
- 3. Enter a network and netmask for the new subnet.
- 4. Click Add Subnet.

Editing DHCP subnets

- 1. Click DHCP Manager > DHCP IP Address Pools.
- 2. Select the network for which you want to edit the subnet details.
- Click Edit Subnet to edit a subnet.
- 4. On the DHCP Server IP Address Pools page, edit the details as required.



In case you are unsure of a value to enter, click the blue question mark to see a description of what should be entered in the field

5. Click Commit Changes and restart DHCPD.

Removing DHCP subnets

- 1. Click DHCP Manager > DHCP IP Address Pools.
- 2. Select a network from the list if you want to remove the subnets for the particular network range.
- 3. Click **Remove Subnet** to remove all the subnet in the DHCP network.
- 4. Click **OK** in the confirm message window to confirm the remove operation.

Show DHCP leases

You can view the DHCP lease information. This page shows the percentage of IP addresses in use and what endpoints currently have which addresses. This is useful for knowing when pools are nearly all used.

Viewing DHCP lease information

Click **DHCP Manager** > **Show DHCP Lease**.

The DHCP Leases Display page shows two pieces of information:

- a. Range of IP ports available, number of IP ports in use, and percentage of IP ports in use.
- b. IP ports, their last usage duration, and their binding states.

DHCP Leases Display field descriptions

Name	Description
Range Start	Start of the range of IP addresses that can be used in DHCP.
Range End	End of the range of IP addresses that can be used in DHCP.
Range Size	Total number of IP addresses available in the range for DHCP.
IP addresses in use	Total number of IP addresses that are currently in use within the range of IP addresses.
Percentage in use	Percentage for the number of IP addresses in use within the range of IP addresses.
Binding State	The current status for an IP address. The available options are Active and Free. Active: An endpoint is currently using the IP address. Free: An endpoint has returned the IP address to the pool.
MAC Address	IP addresses for a particular computer or laptop. This address is used for physical identification of a particular Ethernet code.

DHCP server log

You can view the server logs. This may be helpful in troubleshooting DHCP related problems.

Viewing DHCP log files

- 1. Click DHCP Manager > DHCP ServerLog.
- 2. On the View DHCP Log Files page, click View Log to see the DHCP log files and lease files.

IPv6 DHCP Manager

IPv6 DHCP Server status

You can use the IPv6 DHCP Server Status option to check whether the IPv6 DHCP server is running or not.

Viewing IPv6 DHCP Server status

Click IPv6 DHCP Manager > IPv6 DHCP Server Status. The system displays whether the IPv6 DHCP service is running or not.

Activate/Deactivate IPv6 DHCP

Activate/Deactivate IPv6 DHCP enables you to activate or deactivate the IPv6 DHCP server using this server. When you activate the server, a status message from the service displays. If the IPv6 DHCP server moves to a running state, it means that the dhcpd.conf file is correctly created and the IPv6 DHCP server has started. If there is a problem in the dhcpd.conf file, the IPv6 DHCP server will not start and an error message will be displayed indicating the likely cause of the problem.

DHCP Service Control button descriptions

Name	Description
Activate DHCP Server	Activates the DHCP server. If the IPv6 DHCP Service Control page displays the status of DHCP service as RUNNING, then you do not need to activate the DHCP server again.
Deactivate DHCP Server	Deactivates IPv6 DHCP server.
Load last working DHCPD conf file	Loads the DHCPD file containing your settings that you used to run the DHCP Server last time.

Activating and deactivating IPv6 DHCP server

- 1. Click **IPv6 DHCP Manager** > **Activate/Deactivate IPv6 DHCP**. The IPv6 DHCP Service Control page displays the status of the IPv6 DHCP server.
- 2. Click **Activate DHCP Server** or **Deactivate DHCP Sever** to activate or deactivate the DHCP server based on the current status of the DHCP server.

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IPv6 DHCP IP Address Pools

You can use the IPv6 DHCP IP Address Pools option to configure IPv6 DHCP IP addresses. You can update DHCP address to existing networks for a network range.

IPv6 DHCP Server IP Address Pools field descriptions

Name	Description
DHCP v6 Start Address	Enter the valid IPv6 address without prefix.
DHCP v6 Stop Address	Enter the valid IPv6 address without prefix.
DHCP v6 Prefix Address	Enter the prefix address. It is identical to the start and stop addresses.

Updating DHCP IPv6 values

- 1. Click IPv6 DHCP Manager > IPv6 DHCP IP Address Pools.
- 2. On the IPv6 DHCP Server IP Address Pools page, click Update DHCP v6 Values to update the DHCP Server IPv6 address.

Show IPv6 DHCP Leases

You can view the IPv6 DHCP lease information. This page shows the percentage of IP addresses in use and what endpoints currently have which addresses. This is useful for knowing when pools are nearly all used.

IPv6 DHCP Leases Display field descriptions

Name	Description
Range Start	Start of the range of IPv6 addresses that can be used in DHCP.
Range End	End of the range of IPv6 addresses that can be used in DHCP
Range Size	Total number of IPv6 addresses available in the range for DHCP.
IP addresses in use	Total number of IPv6 addresses that are currently in use within the range of IP addresses.
Percentage in use	Percentage for the number of IPv6 addresses in use within the range of IP addresses.
Binding State	The current status for an IPv6 address. The available options are Active and Free. Active: An endpoint is currently using the IPv6 address. Free: An endpoint has returned the IPv6 address to the pool
MAC Address	IPv6 addresses for a particular computer or laptop. This address is used for physical identification of a particular Ethernet code.

Viewing DHCP lease information

Click IPv6 DHCP Manager > Show IPv6 DHCP Lease.

The IPv6 DHCP Leases Display page shows the following information:

- Range of IP ports available, number of IP ports in use, and percentage of IP ports in use.
- IP ports, their last usage duration, and their binding states.

IPv6 DHCP Sever Log

You can view the server logs. This may be helpful in troubleshooting IPv6 DHCP related problems.

Viewing IPv6 DHCP log files

- 1. Click IPv6 DHCP Manager > IPv6 DHCP Server Log.
- 2. On the View IPv6 DHCP Log Files page, click **View Log** to see the DHCP log files and lease files.

3.

Gateway Firmware

Upload Gateway Firmware

This feature enables Utility Server to support TFTP access for Media Module and Media Gateway Firmware. The Upload Gateway Firmware enables you to view the firmware. You can also upload a new file of firmware to be uploaded on the Utility Server.

Viewing Gateway firmware

- 1. Click Gateway Firmware > Upload Gateway Firmware.
- 2. On the Upload Gateway Firmware page, click Display Firmware Directory to see the Gateway Firmware.

Uploading Gateway Firmware

- 1. Click Gateway Firmware > Upload Gateway Firmware.
- 2. On the Upload Gateway Firmware page, click **Browse** to navigate to the file you need to upload.
- 3. Click **Upload Gateway Firmware and Activate** to upload Gateway firmware.

Application Log View

TFTP server

You can view and download the TFTP server access log files. You can also view the archive log files.

Viewing TFTP Server Access Log

- 1. Click Application Log View > TFTP Server.
- 2. Click View Log which appears in front of TFTP Server Access Log to view the TFTP sever access log.

Viewing archive log files

- 1. Click Application Log View > TFTP Server.
- 2. Click **View Log** which appears in front of View Archive Log Files to view the archive log files.

Application Control

TFTP server

You can view the current status of the TFTP server, also, whether the server will automatically restart or reboot. You can start or stop the server to configure its operation after a reboot.

Control TFTP Server buttons descriptions

Name	Description
Start the TFTP server	Starts the TFTP server.
Stop the TFTP server	Ends the TFTP server.
Enable Autostart of the TFTP server	Enables autostart of the TFTP server.
Disable Autostart of the TFTP server	Disables the autostart of the TFTP server.

Application Log View

File server

You can view and download the file server log files, that is, the access and error log files for HTTP, HTTPS and Watchdog file, and also download the history log files. The system maintains the secure and non-secure access logs separately and also provides separate log files for access monitoring and recording of errors. You can filter the File Server logs to only display access entries made by Avaya IP Phones. The Watchdog file is unique to the Utility Server. The Watchdog tests the file server on a regular basis and restarts the server if it detects any problem.

You can use the File Server option to view the current status of the file server and check whether the server restarts automatically on a reboot. You can conduct a configuration file test and restart the file server. You can also change the level of logging for the file server independently for insecure (HTTP) and secure (HTTPS) access. You must restart the file server for making any changes to the log levels effective.



Error logs do not support filtering.

Viewing file server log files

- 1. Click Application Log View > File Server.
- 2. Click View Log to view a particular log file, for example, HTTP, HTTPS, and Watchdog.
- 3. Click **Download File Server Log** on the respective log file page to download the log file.

Call detail recording

The Call Detail Recording applications are responsible for handling the Call Detail Records (CDR) that are produced by Communication Manager. At present, there are five separate daemons to collect the data from Communication Manager, import the data to the Utility Server, export history data, backup data, and generate automated e-mail reports. You can also download the history log files.

Viewing CDR log files

- 1. Click Application Log View > Call Detail Recording.
- 2. Click **View Log** to view a particular log file, for example, CDR Collector's Activity log and CDR Importer's Activity log.
- 3. Click **Download Log** on the respective log file page to download the log file.

System database

The Utility Server uses a local database to store and retrieve data for a variety of applications. These applications include the Call Detail Recording system, the MyPhone System Administrator, and other diagnostic tools. You can use the System Database option to view and download the log files for the system database.

Viewing system database log files

- 1. Click Application Log View > System Database.
- 2. Click **View Log** to view log file for a particular day of the week, for example, Monday and Tuesday.
- 3. Click **Download Log** on the respective log file page to download the log file.

MyPhone

The MyPhone application allows users to change their station security code and station buttons. There is also an administrator interface to control which buttons users can select, phone WML page, and LDAP directory control. You can use the MyPhone option to view and download all the log files relevant to the MyPhone Server. This includes the MyPhone, the MyPhone Administrator log files, and the raw output from Tomcat - catalina.out. You must use the catalina.out file only for diagnostic analysis, as this file contains entries which are unrelated to MyPhone application.



It is best practice to keep the MyPhone option turned off so that users do not have access to any settings on a phone and cannot modify the settings (for example, the security code) in the phone.

Viewing MyPhone server log files

- 1. Click Application Log View > MyPhone.
- 2. Click View Log to view a particular log file, for example, MyPhone server log file and MyPhoneAdmin error log file.
- 3. Click **Download Log** on the respective log file page to download the log file.

Application Control

File server

This page displays the current status of the File Server and also provides information on whether the server will automatically restart after a reboot. You can conduct a configuration file test and request a restart of the File Server. You can change the level of logging for the File Server independently for Insecure (HTTP) and Secure (HTTPS) access. You must restart the file server to make any changes to the log levels effective.



You cannot change the operation of the File Server on a server reboot or stop the File Server during reboot.

Viewing file server status

- 1. Click Application Control > File Server. The Control Web Server page displays the current status of the File Server.
- 2. Click File Server Configuration Test to start a configuration test for the File Server.
- 3. Click **Restart File Server** to restart the File Server.



The system can take up to five minutes to activate the request to restart the File Server.

- 4. Do one of the following steps:
 - Choose the required option from the drop-down menu, and click Set Logging Level for Insecure Access (HTTP).
 - Choose the required option from the drop-down menu, and click Set Logging Level for Secure Access (HTTPS).

Control Web Server button descriptions

Name	Description
File Server Configuration Test	Starts a configuration file test.
Restart File Server	Restarts the file server.
Set Logging Levels for Insecure Access (HTTP)	Sets logging level for the file server for HTTP, or changes the existing log level settings based on your selection.
Set Logging Levels for Secure Access (HTTPS)	Sets logging level for the file server for HTTPS, or changes the existing log level settings based on your selection.

Call detail recording

You can view the current status of the Call Detail Recording (CDR) Collector applications and also control these applications (for example, starting or stopping the CDR applications) and the SQL Import Servers using the Call Detail Recording option. The changes you make are effective immediately and the system preserves the settings when you restart the server.

Controlling CDR Servers

- 1. Click Application Control > Call Detail Recording.
- 2. Click **Enable the CDR Collector** or **Disable the CDR Collector** to enable or disable the CDR Collector application respectively.
- 3. Click **Enable the CDR Importerr** or **Disable the CDR Importer** to enable or disable the CDR Importer application respectively.

- Click Enable the CDR Exporter or Disable the CDR Exporter to enable or disable the CDR Exporter application respectively.
- 5. Click Enable the CDR Compressor or Disable the CDR Compressor to enable or disable the CDR Compressor application respectively.

System database

You can use the System Database option to view the current status of the system database and check whether the server restarts automatically on a reboot. You can also start or stop the server immediately or configure its operation after a reboot.

Controlling system database

- 1. Click Application Control > System Database. The Control System Database page displays the current status of the system database.
- 2. Click Start System Database or Stop System Database to start or stop the system database respectively.
- 3. Click Enable Autostart of System Database or Disable Autostart of System **Database** to enable or disable autostart of the system database after a reboot.

Control System Database button descriptions

Name	Description
Start System Database	Starts the system database server.
Stop System Database	Stops the system database server.
Enable Autostart of System Database	Enables auto start of the system database server after a reboot.
Disable Autostart of System Database	Disables auto start of the system database server after a reboot.

MyPhone

You can use the MyPhone option to view the current status of the MyPhone Server and check whether the server restarts automatically on a reboot. You can also start or stop the server immediately or configure its operation after a reboot.

Controlling MyPhone server

- Click Application Control > MyPhone.
 The Control MyPhone server page displays the current status of the MyPhone server and the status of the option to restart the server automatically after a reboot.
- 2. Click **Start the MyPhone Server** or **Stop the MyPhone Server** to start or stop the MyPhone server respectively.
- 3. Click Enable Autostart of the MyPhone Server or Disable Autostart of the MyPhone Server to enable or disable autostart of the MyPhone server after a reboot.

Control MyPhone Server button descriptions

Name	Description
Start MyPhone Server	Starts the MyPhone Server.
Stop MyPhone Server	Stops the MyPhone Server.
Enable Autostart of the MyPhone Server	Enables auto start of the MyPhone Server after a reboot.
Disable Autostart of the MyPhone Server	Disables auto start of the MyPhone Server after a reboot.

Call Detail Record Tools

CDR database external access

This feature allows almost any Postgres—compliant report writing tool to generate reports on the CDR data collected by Utility Server.



pgAdmin is one such Postgres—compliant tool and is freely available for a variety of platforms.

Access to the CDR database is provided on the standard port 5432 on the IP address of Utility Server. Use the admin user ID to open the connection.



🐯 Note:

The access to CDR data is read—only. That is, it is not possible to change or remove any data in the database.

Currently, the only table on Utility Server is called "raw" and is part of the CDR database. The table name may change in the future releases of Utility Server. The "raw" table is defined as follows:

```
CREATE TABLE raw
pbxid varchar(25) NOT NULL DEFAULT 'PBX'::bpchar,
cdrdate date NOT NULL DEFAULT '2005-01-01'::date,
cdrtime time NOT NULL DEFAULT '00:00:00'::time without time zone,
duration int4 NOT NULL,
acctcode varchar(15),
attdconsole varchar(4),
authcode varchar (13),
bandwidth varchar(2),
bcc char(1),
callingnum varchar (15) NOT NULL,
calltype char(1),
clgnum varchar(15),
```

```
clgpty varchar(2),
codedial varchar(4),
codeused varchar(4),
condcode char(1),
contacturi varchar(20),
countryfrom varchar(3),
countryto varchar(3),
dialednum varchar(23),
enddate date,
endtime time,
featflag char(1),
frl char(1),
fromuri varchar(20),
incrtid varchar(3),
intrkcode varchar(4),
ins varchar(5),
internal codec varchar(2),
isdncc varchar(11),
isdnccppm varchar(11),
ixccode varchar(4),
locationfrom varchar(3),
location to varchar(3),
mauui char(1),
nodenum char(2),
outcrtid char(3),
ppm varchar(5),
requesturi varchar(20),
resflag char(1),
secdur varchar(5),
seqnum varchar(10),
startdate date,
```

```
starttime time,
timezonefrom varchar(6),
timezoneto varchar(6),
touri varchar(20),
tscct varchar(4),
tscflag char(1),
trunkcode varchar(2),
ucid varchar(20),
vdn varchar(3),
CONSTRAINT raw pk PRIMARY KEY (pbxid, cdrdate, cdrtime, duration,
callingnum)
WITHOUT OIDS;
```

CDR reports

You can use the CDR Reports option to view the Call Detail Record Reports currently available. The system collects the CDR records from Communication Manager and imports them into the Utility Server database.

Viewing CDR reports

- 1. Click CDR Tools > CDR Reports.
- 2. Click View CDR Report to view a CDR report from the available options, for example, the ten longest calls, the ten most active extensions, the ten most dialled numbers, and the raw CDR data.

The system displays each report in both a numeric and graphical form.

CDR archive

The CDR Compress daemon compresses the raw CDR files collected from Communication Manager as ZIP files after they are successfully imported, and stores them in a directory for each month or year. You can use the CDR Archive option to download these compressed zip files.

Accessing the CDR archive

1. Click CDR Tools > CDR Archive.

The system displays a list of ZIP files that you can download.

2. Click **Download** to download a particular archive file.

CDR backups

The CDR Export daemon ensures that the active CDR database contains only 12 months of data. Once per month, the system deletes any data that is older than 12 months. However, before deleting the data, the system stores the data in a CSV (Comma Separated Values) file. You can use the CDR Backups option to download the data and store it remotely or import the data to another database. To provide ease of import, the system stores database headings as the first line in the CSV file.



The system automatically deletes the files that are older than 12 months. This means that the Utility Server has a maximum of 12 months of on-line data and 12 months of previous off-line data at any time.

Accessing CDR backup files

1. Click CDR Tools > CDR Backups.

The system displays a list of backup files that you can download.

2. Click **Download** to download a particular backup file.

CDR e-mails

You can configure and control the operation of each of the three regular e-mail daemons (daily, weekly and monthly) by using this page. You can enable or disable each daemon separately. You can configure each daemon to generate up to three separate reports and send them to a configurable list of recipients.

CDR E-Mails field descriptions

Name	Description
E-Mail Daemon	Lets you enable or disable e-mail daemon for each of the three regular daemons, that are, daily, weekly, and monthly.
Longest Calls	Lets you generate a report for the longest calls you have made over a period of time.
Most Active	Lets you generate a report for the most active extensions that you have called.
Most Dialled	Lets you generate a report of the most dialled numbers when you make calls.
Distribution List	Lets you send the reports to a list of recipients by e-mail. You can separate each e-mail address in the distribution list with a semi-colon.

CDR E-Mail button descriptions

Name	Description
Update CDR E-Mailer Configuration	Saves and updates the CDR E-mail settings based on the settings on the CDR E-Mail page.

Utility Admin

Chapter 3: Directory Service Application

The Directory Service application enables you to search an LDAP database using browsers on your compatible 46xx and 96xx phones. You can use these web pages to configure the Directory Service application to connect to an LDAP database and to customize the user search experience. Directory Service application supports 250 instances of the Directory Service configuration and provides multi language for each of these instances. See the Directory Application Job Aid available at Avaya Support Site https://support.avaya.com for a more detailed description of this feature and required configuration.

Configuring the Directory Service

You must configure the Directory Service application correctly for the WML Browsers to perform search operations.

- 1. Specify the LDAP connection settings on the General Settings screen.
- 2. Click **Test Connection** to ensure that the Directory Service application is connecting to the LDAP database.
- 3. Enable the Directory Service application for HTTP or HTTPS traffic.
- 4. (Optional) Use the Search Screen Settings screen to customize the Search screen on the phone browser.
- 5. (Optional) Use the Details Screen Settings screen to customize the Details screen on the phone browser.
- 6. (Optional) Use the Ldap Filter Settings screen to customize the Ldap filter attributes while searching.

Configuring the phones

Set the HTTP (or HTTPS) to point to the Utility Server through DHCP or in the 46xxsettings.txt file.

The Utility Server comes with a 46xxsettings.txt file and the WMLHOME parameter is automatically set up to point to a landing page which includes three WML applications: Directory Application, User entered URL, and Message Application.

General Settings

Use this screen to administer general settings and LDAP connection settings for the Directory Service application.

General Administration

Directory Number

Select any number between one and 250 and the system configures Directory Service application for the particular directory number. The system configures and applies the particular directory number to the General Settings page, the Translation Language page, and the External Numbers page.

Application Title

Enter an application title that would be displayed on the search screen of the phone browsers.

HTTP

Select Enable to enable HTTP traffic. If you enable HTTP, the Directory Service application can accept traffic from WML Browsers using the HTTP protocol.



🔼 Warning:

Enabling the Directory Service application on the HTTP port (unsecured port 80) will allow any browser to access the Directory Service application without authentication or encryption mechanisms. This may allow unauthorized users to access directory information stored on your LDAP server using the Directory Service interface.

HTTPS

Select Enable to enable HTTPS traffic. If you enable HTTPS, the Directory Service application can accept traffic from WML Browsers using the HTTPS protocol.

Select a language file

Select a language file from the drop-down menu where you can write your translation.

Select language for your translation

Select a language for your translation from the drop-down menu to write to the language file you selected in the previous step.

LDAP Administration

Host Name

Enter the hostname or IP address of the LDAP server. The Directory Service application connects to this server for searching.

Port

Enter a port number. The default LDAP port is 389. If the LDAP server is using a different port, enter the port number.



Ensure that this port is enabled in the firewall. Avaya recommends that you open the port only for outbound traffic.

Base DN (Search Root)

Specify an LDAP distinguished name from where the Directory Search application can begin searching.

Base DN (External Search Root)

Specify an LDAP Base Distinguished Name where the external numbers are stored. The Manage External Numbers screen uses this root to list/add/delete entries in the external directory. This distinguished name must be under the Search Root specified above to enable the Directory Service application to include external names in its search. For example, if the Search Root is o=avaya.com, then the External Search Root can be ou=external numbers, o=avava.com.

Max number of hits

Enter the maximum number of results that must be returned for a particular search. The default value is 96.



A higher number can degrade the system performance. The system stops the search operation when the search reaches the maximum number.

Search Time

Enter the maximum number of seconds the search can take before returning the results. The system stops the search operation when the search exceeds the time. The default value is 10 seconds.

User ID

Specify a User ID to connect to the LDAP server. If you do not provide any User Id, the Directory Service application uses anonymous LDAP connection. To ensure that you can modify the LDAP database using the Manage External Numbers screen, you must give write access to the specified user for the database.

Password

Specify a Password for the User ID you have specified for the LDAP server.

Secure Connection (TLS support)

Select On or Off. The Directory Service application can connect to an LDAP server on TCP or TLS. If you select TLS as the connection type, additional configuration is required. See the TLS Configuration topic for more details.

Test Connection

Click Test Connection to ensure that the Directory Service application can connect to the LDAP server using the connection parameters you have specified above.

Search Screen Settings

You can customize the search or home page of the Directory Service application to enable users to search against particular LDAP attributes. You can specify total six search attributes, out of which you can customize four. Each search attribute is displayed on a separate line on the phone. You can configure the settings for each line as follows:

Search Attribute

Select from the list of available LDAP attributes that can be searched, or choose others and enter the attribute name in the space provided. The LDAP attribute for Name can be either cn or cn;lang-en; and for the second attribute it can be a telephone number or any attribute which must be associated with the phone number.



A valid LDAP attribute name can be an alphabetic character, a number, and the symbols - and ;. But the attribute name must begin with an alphabetic character.

Associated Label

Enter the label for each search attribute that is activated. This label supports Unicode and is displayed on the phone search screen.

Minimum Search String

For Item #7 enter the minimum number of characters (value between one and nine) required for user entered Search strings. The directory application denies any search when the search string contains less than the minimum number of characters required.

Detail Screen Settings

You can customize the details screen of the Directory Service application to display attributes of a particular LDAP entry. A total of six attributes can be displayed on the phone browser. The first attribute must be a name and the second attribute must be a phone number. You can customize the other four attributes.

Detail Attribute

Select from the list of available LDAP attributes that can be displayed, or choose other and enter the attribute name in the space provided.

The LDAP attribute for Name can be cn, or cn; lang-en, or displayName and for the second attribute it can be a telephone number or any attribute which must be associated with a phone number.



A valid LDAP attribute name can be an alphabetic character, a number, and the symbols and ;. But the attribute name must begin with an alphabetic character.

Detail Attribute Label

Enter the label which would be displayed before the actual value on the detail screen.

LDAP Filter Settings

You can customize the LDAP Filter settings of the Directory Service application to add filters to the LDAP search. The system sends the results if the filter text is part of a DN that matches the search string. You can configure a total of six attributes for the Idap search filter.

Filter Attribute

Select from the list of available LDAP attributes that can be used in search filter, or select the other option and enter the attribute name in the text box.



🐯 Note:

A valid LDAP attribute name can be an alphabetic character, a number, or the symbols and; But the attribute name must begin with an alphabetic character.

Filter Text

Enter the label which would be used in the ldap search filter for the associated filter attribute.

Translation Language

Use the Translation Language screen for the translation language you selected in the General Administration screen for the selected Directory Number. There are eleven predefined translation languages. When you select a language, the system writes the language translation to the file and the system displays the details in the translation column. If you select a language other than the eleven pre-defined languages, the system displays English text mapping with English translations. In either of these scenarios, you can edit the English text in the translation mapping column.

The list of eleven predefined language translations are as follows:

- Brazilian-Portuguese
- English
- French

- German
- Italian
- Japanese
- Korean
- Lat-Spanish
- Russian
- Simplified Chinese
- Traditional Chinese

The translation language settings allows the user to edit the translation string on the right column for each English string.

External Numbers

You can use this screen to view entries under the External Number search root in the LDAP database based on your specification in the General Settings screen. You can also add new external numbers, and edit or delete existing external numbers using this screen.



To ensure that you can modify the LDAP database using the Manage External Numbers screen, you must give write access to the specified user for the database.

Adding a new external number in the LDAP database

- 1. Click Add.
- 2. In Native Name field, specify a Unicode name.
- 3. In the **Name** field, specify an ASCII name.
- 4. In the **Phone Number** field, enter a phone number.
- 5. In the **E-mail** field, specify an e-mail address.



🐯 Note:

The Native Name and Phone Number fields are mandatory.

- 6. Click Save to add the external number to the LDAP database and go back to the External Numbers screen.
- 7. Click **Refresh** to view your changes.

Editing an external number in the LDAP database

- 1. Select an entry in the List page.
- 2. Click Edit.
- 3. Edit the details of the selected entry as required.



You can edit only one entry at a time. You cannot modify the details in the Native Name field.

- 4. Click Save to save your changes to the LDAP database and go back to the External Numbers screen.
- 5. Click **Refresh** to view your changes.

Deleting an external number from LDAP database

- 1. Select an entry in the List page. You can select multiple entries at a time.
- 2. Click Delete.
- 3. Click **Delete** in the next screen to confirm your action and go back to the External Numbers screen.
- 4. Click **Refresh** to view your changes.

Directory Service Application

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