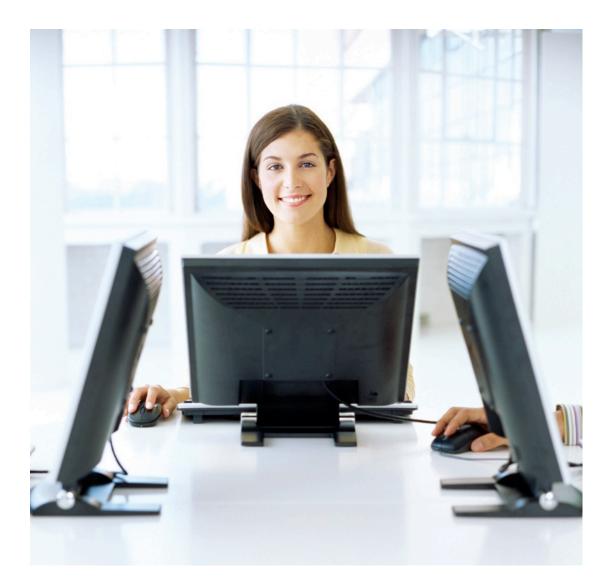


PhoneView Installation Guide

| VERSION: | 3.0 |
|----------|-------|
| STATUS: | Final |



UnifiedFX

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Introduction

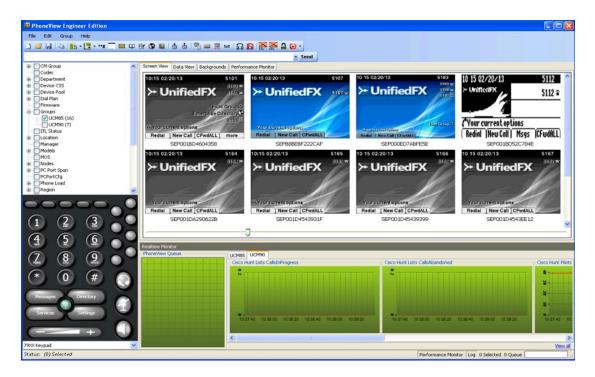
This guide provides instructions for installing the **PhoneView** Cisco IP telephony utility application.

PhoneView provides a real-time remote view of all your IP phones and allows you to group, filter and control the states of those phones, all from the **PhoneView** console.

It provides an industry-first intuitive interface with your enterprise telephony environment that will save time and provide a more efficient and flexible way to interact with your users.

PhoneView simplifies management of Cisco IP Phones; in particular it provides an intuitive graphical display of multiple IP phones' screens and allows you to manage them *either individually or in sensible groups*.

For example, you can quickly filter and select groups of phones (e.g. every handset at one site/subnet or firmware version) then log users in or out, update their firmware or their background image, all with one command. The graphical and tabular views allow you to instantly verify that every phone's update was successful.



With PhoneView you can:

- · Remotely control one many or all IP phones at the same time
- · Group and filter your phones by multiple inclusive or exclusive criteria
- · Manage the selected phones' states, either singly or in groups
- · Capture and manage phone information
- View real-time cluster information

Critically, most phone-related issues (other than physical phone faults) that would previously have required a site visit can now be handled *remotely*, eliminating around 90% of site call-outs and therefore providing unparalleled return on investment (ROI).



Document Conventions

- Text shown in **bold** type indicates an object on the screen, whether a menu or menu option, shortcut, button, tab or field.
- Text in *italics* indicates data to be input by the user.
- Text inside [square brackets] indicates a text button (not an icon), e.g. [Save].
- Menu commands and selections in a tree structure are described as follows: menu > sub-menu > command.
- 'Select' in the context of this document means 'click with the left mouse-button'.
- Keyboard keys are designated by UPPER-CASE, e.g. 'press the TAB key'.



Configuring the Cluster for use with PhoneView

Services

PhoneView populates it's list of IP Phones by extracting a list of phone devices from the cluster. In addition to populating the list of phones, **PhoneView** can use the Extension Mobility API to log users in and out of phones without the need for their password. Therefore the following services need to be enabled on the server **PhoneView** is configured to use:

- Cisco AXL Web Service
- Cisco Extension Mobility
- Cisco CTI Manager (if using CTI for remote control or Remote Audio Monitoring)

User Accounts/Permissions

PhoneView requires two user accounts to be configured as follows:

Admin User

The Admin User is used to extract a list of phones from the UCM system and some basic information such as the Phones IP Address, in addition to logging users in and out using Extension Mobility. It is recommended to create the admin users as an application user with the following Standard Groups:

- Standard CCM Server Monitoring
- Standard EM Authentication Proxy Rights
- Standard Tab Sync User

Note: The permission names listed above are for UCM Version 8.5, some older UCM versions use a slightly different name. However the minimum roles required are:

- Standard AXL API Access
- Standard EM Authentication Proxy Rights
- Standard SERVICEABILITY

Phone User

The Phone User is used to remotely control the IP phones and push phone backgrounds using the Phone Personalisation method. The Phone User should be created as an end user and requires the following:

- Standard CTI Enabled
- Standard CTI Allow Control of Phones supporting Connected Xfer and conf
- · Device Association with all physical IP Phones

Note: The following additional permissions are required if the Remote Audio Monitoring feature is used:

- Standard CTI Allow Call Monitoring
- Device Association with the CTI Port configured for use by PhoneView as per item 5a. above (Default CTI Port name is PHONEVIEW)

Note: If multiple instances of PhoneView are used on the same cluster for Remote Audio Monitoring then a unique CTI Port is required per instance of PhoneView.

Note: The Phone User needs to be created as an End User if the ability to push phone backgrounds is required.



Note: It is technically possible to use the same user account for the admin and phone user as long as they have the appropriate configuration above. However on some older UCM versions there are restrictions that do not allow the use of a single user account, hence the reason PhoneView can use two separate user accounts if necessary.

Enterprise Parameters

The following Enterprise Parameters need to be set in order for authentication of the remote control requests and the ability to push backgrounds to the phone:

- Phone Personlization = Enabled
- 'URL Authentication' and/or 'Secured Authentication URL' configured correctly (i.e. uses an IP Address or a hostname that can be resolved from the IP Phone

Remote Audio Configuration

The following is additional configuration required if the Remote Audio feature has been licensed for use within PhoneView:

- 1. Create a CTI Port, Select the **[Device] > Phone** menu option.
- 2. Click the [Add New] button
- 3. Specify the following parameters:
 - a. Phone Type = [CTI Port]
 - b. **Device Name** (default is *PHONEVIEW*)
 - c. Device Pool
 - d. Device Security Profile
- 4. Click [Add a new DN] and then specify the following parameters:
 - a. Directory Number
 - b. Route Partition
 - c. Monitoring Calling Search Space
- 5. Click [Save]
- 6. Enable built-in Bridge, Click [System] > Service Parameters
- 7. Select a **Server** (i.e. publisher)
- 8. Select the [Cisco CallManager] Service
- 9. Goto the Clusterwide Parameters (Device Phone) section
- 10. Set the **Builtin Bridge Enable** to **On**
- 11. Click [Save]

Note: By default there is no tone played when a call is being monitored remotely, if this is desirable it can be set under the **Clusterwide Parameters (Feature - Monitoring)** of the Cisco CallManager Service Parameters.

Note: In some scenarios it will be necessary to configure the **Monitoring Calling Search Space** of the CTI Port (default name PHONEVIEW) to provide reachability to the Directory Numbers of the device(s) to be monitored. Please refer to the following document on CCO for detailed information of the Silent Monitor feature:

http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/admin/6_0_1/ccmfeat/fsmr.html

Note: The built-in bridge can be enabled on a per phone basis if it is undesirable to enable this cluster wide.

Note: The CTI Port used by PhoneView needs to be associated to the Phone User configured on the Group Properties page as per item 2f.

Note: The Remote Audio feature uses the built-in bridge of the IP Phone, some of the older phone models (i.e. 7940 & 7940) do not have this capability and therefore cannot be monitored remotely.



Note: If using the **Admin Phone** feature to send the audio stream to a physical phone, the primary line of the Admin Phone needs to have the **Monitoring Calling Search Space** configured to use a Calling Search Space with reachability of the phone being monitored.

Note: The CTI Port within PhoneView can only accept G.711 calls, therefor it may be necessary to assign the CTI Port to a region that only permits G.711 in order to force the remote phone to transcode accordingly.

Configuring UCME for use with PhoneView

User Accounts/Permissions

PhoneView requires two user accounts to be configured as follows:

Admin User

The Admin User is used to extract a list of phones from the UCME system and some basic information such as the Phones IP Address, in addition to logging users in and out using Extension Mobility.

Phone User

The Phone User is used to remotely control the IP phones.

UCME Configuration

The configuration example uses the following credentials:

Admin User: pvadmin

Admin Password: cisco

Phone User: pvphone

Phone Password: cisco

Example UCME Configuration:

ip http server voice register global mode cme url authentication http://[UCME IP Address]/CCMCIP/authenticate.asp ixi transport http response size 64 no shutdown request outstanding 1 ixi application cme no shutdown telephony-service xml user *pvadmin* password *cisco* 15 url authentication http://[UCME IP Address]/CCMCIP/authenticate.asp *pvphone cisco*

Note: The current CCIE lab IOS version of UCME has a bug that prevents **PhoneView** from automatically extracting the IP Address of SIP Phones registered to a CME system, so for those phones you can go to the DataView and enter the IP Address manually against the corresponding phone.

Note: The Phone IP Address can only be changed in the Lab Edition of PhoneView



PhoneView TCP & UDP Port Usage

Ports between PhoneView and UCM

| From (Sender) | to (Listener) | Destination Port | Purpose |
|------------------|------------------|---------------------|---------------------|
| PhoneView | UCM | 80/TCP | HTTP API Interface |
| PhoneView | UCM | 8080/TCP | HTTP API Interface |
| PhoneView | UCM | 443/TCP | HTTPS API Interface |
| PhoneView | UCM | 8443/TCP | HTTPS API Interface |
| PhoneView | UCM | 6970/TCP | HTTP API Interface |
| PhoneView | UCM | 2748/TCP | CTI API Interface |
| PhoneView | UCM | 2789/TCP | CTI API Interface |

Ports between PhoneView and IP Phones

| From (Sender) | to (Listener) | Destination Port | Purpose |
|------------------|------------------|---------------------|---------------------|
| PhoneView | IP Phone | 80/TCP | HTTP Web Interface |
| PhoneView | IP Phone | 443/TCP | HTTPS Web Interface |
| PhoneView | IP Phone | 16384-32768/ UDP | RTP Stream |
| IP Phone | PhoneView | 9090/TCP | HTTP Web Interface |



Installing PhoneView

Downloading PhoneView

1. Double-click on the link for the correct version of **PhoneView** on the Unified FX downloads page (<u>http://www.unifiedfx.com/downloads</u>).

Note: Only users <u>registered</u> on the Unified FX website can download the software or licenses.

Prerequisites

Before installing **PhoneView**, ensure that these minimum installation conditions are met:

- User is logged in with administrative (software installation) privileges.
- Client PC has *minimum* specification as follows:
 - Windows XP SP3 (any other newer version of Windows, including Windows 7 & 8, Server 2003, 2008, 2012)
 - Microsoft .Net 4.0 Full
 - 2GB RAM
 - 1.6 GHz CPU
 - Network connectivity to the Cisco UCM/UCME system and the IP phones
- User has downloaded the **PhoneView** application from <u>http://www.unifiedfx.com</u>
 Note that you must register on the website before you can download the software.

Note: Microsoft .Net 4.0 Full can be downloaded from: http://www.microsoft.com/download/en/details.aspx?id=17718



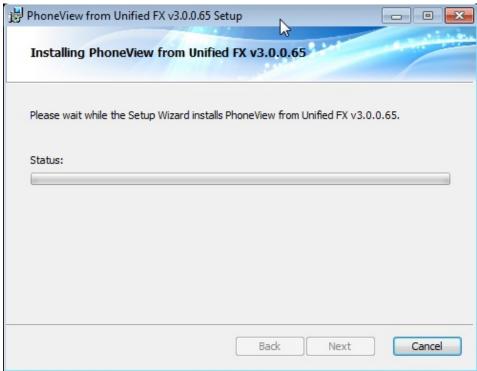
Installing PhoneView on a Client PC

Once you've downloaded the software, install it as follows:

 Double-click on the PhoneViewsetup_version.msi file. The PhoneView setup wizard opens.

| 😸 PhoneView from Unifi | ed FX | v3.0.0.65 Setup |
|------------------------|-------|--|
| | | Please read the PhoneView from Unified FX v3.0.0.65 License Agreement |
| | | End User Licence Agreement |
| | | 1. SCOPE & APPLICATION |
| | 2 | This End-User License Agreement (EULA) is a legal agreement between you (either an individual or a single entity) and Unified FX Limited for the Software Utility identified above, which includes computer software and may include online or electronic documentation. By installing, copying, or otherwise using the Software, you agree to be bound by the terms of |
| ≻ UnifiedFX | | ✓ I accept the terms in the License Agreement |
| | Print | Back Install Cancel |

- 2. Review the license agreement and click to select the **I Accept** radio button to proceed.
- 3. Click the [Install] button.

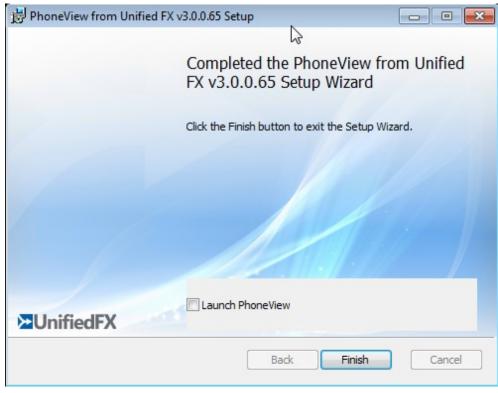


4. The application will install and provide feedback on the installation progress.

PhoneView Installation Guide



5. A progress bar in displayed, then the Installation Complete window appears.



Click the [Finish] button.
 PhoneView has installed successfully.



Running PhoneView

To use **PhoneView** you must launch the program, add one or more groups of IP phones then if required activate licenses for those clusters.

Launching PhoneView

Once installed, launch **PhoneView** as follows:

- 1. Click the Windows **[Start]** button and navigate through the programs menus to the **PhoneView** application:
 - a. In Windows XP, [Start] > All Programs > Unified FX > PhoneView.
 - b. In Windows 7, ... > PhoneView.
- 2. Click the PhoneView icon to launch the program.

🔛 PhoneView

3. If a valid license is NOT installed the following dialog will appear

| Welcome to Phoneview by UnifiedFX Ltd. | <u> </u> |
|---|--|
| | ied FX Management |
| PhoneView Free Version | Free evaluation Request Trial of full functionality |
| Thank you for using PhoneView. | Enter license key |
| The installed license is not valid for this versio discuss licensing. | n, Please contact licensing@unifiedfx.com to |
| ≻ UnifiedFX | Purchase OK Cancel |

4. Select the [Enter license key] and click [OK] to install a license

| nstall PhoneVie | | | | | |
|-------------------------------|--|-----------------------------|---------------------------|-------------------------------|-----------------|
| | | | fied F | - | |
| | nse, enter the license key d to save/restore the insta | | | e Install button. The Save ar | nd Load License |
| ittoris can be use | a to save restore the mate | alled license to a file for | backup. | | |
| License Key | | | | | Instal |
| | License Installed | | DOLKUP. | | Instal |
| License Key | | | | Engineer | Install |
| License Key License Status | License Installed | 20000 | | - | Instal |
| License Key License Status | License Installed Visible Phones: | 20000 Unlimited | Edition: | Yes | Instal |
| License Key License Status | License Installed Visible Phones: Selectable Phones: | 20000 Unlimited 3 | Edition: UCME Support: | Yes Installation | Instal |

- 5. Enter/Paste the License string and click [Install] to activate the license
- 6. Click [Close] to close the license dialog and start to use PhoneView



Adding a Group

Once **PhoneView** is installed you can activate one or more Group (dependent on your license).

Note: A group of phones relates to either a cluster or a UCME system with one or more phones configured.

Note: the free version of PhoneView supports a single group of up to 50 phones.

To add a group:

1. Select the **[Group] > Add** menu option.

The **Group Properties** dialogue opens (the name of this dialogue is updated dynamically to match the group name you enter).

| VI90 Pro | perties (Licens | sed) |
|----------|-----------------|--|
| General | CTI Settings | Advanced |
| Group | Settings | |
| | Group Name: | UCM90 |
| Serv | ver IP Address: | 10.10.100.90 |
| 5 | Server Version: | 9.0 🔻 |
| | Admin User: | admin |
| Ad | min Password: | ******* |
| | Manage URL: | https://#SERVERIP#/ccmadmin/gendeviceEdit.do |
| | | Include IP Communicator 🔲 Include CIUS |
| Phone | Control User | |
| | Phone User: | rc |
| Pho | ne Password: | ***** |
| Validat | ed System Deta | ails |
| | er Description | |
| Serv | | |

- 2. Enter the following details:
 - a. Group Name
 - b. Server IP Address (the UCM or UCME target system)
 - c. Server Version (Select Express for UCME systems)
 - d. Admin User
 - e. Admin Password
 - f. Phone User
 - g. Phone Password

PhoneView Installation Guide



3. Click on the [CTI Settings] Tab

| General CTI Settings | Advanced gs V Enabl | e CTI |
|------------------------|---------------------------|--|
| | Use P | hones Subscriber for CTI Server |
| CTI Server IP Address: | 10.10.10 | 0.90 |
| CTI Timeout: | 60 | Seconds |
| Device Monitor Limit: | 500 | Per Node |
| Monitor Message | _ | |
| Monitor Message: | This call i | User When Monitored s being monitored remotely, please e other party/parties in the call |
| | inom a | e outer party/parties in the can |
| | | |
| | | |
| | | |
| | | |
| | | Test Settin |

- 4. Enter the following CTI Connectivity Settings:
 - a. Enable CTI
 - b. Use Phones Subscriber for CTI Server
 - c. CTI Server IP Address
 - d. CTI Timeout
 - e. Device Monitor Limit
- 5. Enter for following settings for Remote Monitor:
 - a. CTI Port Name
 - b. Notify User When Monitored
 - c. Monitor Message

Note: The **Remote Monitor** feature will not be visible/available unless specifically licensed.

Note: The CTI Settings tab will only be available if the appropriate Group Version is selected as per 2c. Currently CTI is supported on CUCM Version 7.0 and above.

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The following table describes the CTI Settings:

| Setting | Description |
|--|---|
| Enable CTI | To enable the use of CTI to send key presses and other actions to the phone enable this setting. Note: This needs to be enabled if the Remote Audio Monitoring feature is used |
| Use Phones Subscriber for CTI Server | For large clusters with 2000 or more phones this setting may need to be enabled. When enabled multiple CTI Instances are created, one for each subscriber that a phone is registered too. Note: If in doubt, or troubleshooting CTI Connectivity disable/ clear this setting |
| CTI Server IP Address | This is the IP Address of the node with the CTI Manager service enabled to create the CTI Connection with |
| CTI Timeout | This is the number of seconds before timing out the creation of the CTI Connection |
| Device Monitor Limit | The number of devices (Phones) to actively CTI Monitor simultaneously. For CTI Scaling and performance reasons different CUCM Server platforms support between 500 and 2000 active devices to be monitored via CTI. If in doubt leave the value at it's default of 500 |
| CTI Port Name | This is the name of the CTI Port configured in CUCM that PhoneView will register to receive Audio from the Remote Phone being monitored Note: If multiple instances of PhoneView are running (including terminal/virtual instances) a different CTI Port name is required for each instance/user |
| Notify User When Monitored | When the Audio on a remote phone is Monitored the user is notified with a text message to their IP Phone. The message is sent by default, by unchecking this setting a message will no longer be sent to the phone |
| Monitor Message | If the Notify User When Monitored setting is enabled this text will be sent to the IP Phone when the Audio is remotely Monitored |

PhoneView Installation Guide



6. Click on the [Advanced] Tab

| M90 Properties (Licens | ed) | |
|------------------------|-----------------------------|---|
| General CTI Settings | Advanced | |
| Data Retrieval | | - |
| | Perform TFTP server queries | |
| TFTP Server Address: | 10.10.100.90 |] |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | Test Settings | ٦ |
| | | |

- 7. Enter the following advanced information
 - a. Perform TFTP server queries
 - b. TFTP Server Address
- 8. Once the administrator account details are entered you can test connectivity to the server by clicking the **[Test Settings]** button.

A message box appears stating whether the test was successful.

| Test Successful | |
|---|--|
| Communication with server has been verified | |
| ОК | |

- If the test was not successful, see the configuration and troubleshooting sections of this document for further information. If the problem is still unresolved, <u>contact Unified</u> <u>FX</u>.
- 10. Click the **[Add]** to add the group
- 11. Once the group is added, you will be prompted to extract a list of phones from the group. Click **[Yes]** and PhoneView will download a list of phones from the relevant group



Note: Before adding any phones to the cluster, it is a good idea to save the cluster information by selecting the **[File] > Save** menu option

| Get Data from Cluster? | |
|---|---------------------|
| Cluster Added | |
| Would you like to retrieve details from | n this cluster now? |
| | Yes No |

 If you clicked **[No]** in step 9, you can manually update the list of phones at any time by selecting the **[Group] > Update >** *yourgroupname* menu option. Each phone in the cluster appears in the **Screen View** tab.

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Device/User Information Details

PhoneView Queries multiple sources for Phone related information and combines all information to a single "DataView". This provides an extensive record of phone information as well as the user assigned or logged into the IP Phone. All of this information can be saved to a file using **[File > Export]**

The following tables detail the Device and User information gathered, in particular the owner of the device is used to combine the phone and user information together for the consolidated view. The phone **Owner** is either the statically set "Owner User ID" on the device page in UCM or the currently logged in user. So if either method (Extension Mobility or statically configured devices) is used PhoneView can combine the relevant user information against the device.

| Data | Source | Update | Description |
|--------------|--------|--------|---|
| Name | UCM | Group | Device Name |
| IP Address | UCM | Group | Device IP Address |
| DN | UCM | Group | Directory Number |
| Description | UCM | Group | Description |
| User | EM API | Group | Logged in EM User |
| Device Pool | UCM | Group | Device Pool |
| Location | UCM | Group | Location |
| Region | UCM | Group | Region |
| CM Group | UCM | Group | Call Manager Group |
| Device CSS | UCM | Group | Device Calling Search Space |
| Phone Load | UCM | Group | Phone Load Name |
| EM Enabled | UCM | Group | Extension Mobility Enabled |
| Login Time | UCM | Group | EM User Login Time |
| Last Change | UCM | Group | When the device was last changed in UCM |
| Status | UCM | Group | Registration Status |
| ActiveServer | UCM | Group | Registered Subscriber |
| Model | UCM | Group | Phone Model |

Device Information

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| Data | Source | Update | Description |
|-------------------|-----------|--------|---------------------------|
| Group | PhoneView | Group | Name of Cluster/Group |
| SSHEnabled | TFTP | Device | SSH Access Enabled |
| SSHUsername | TFTP | Device | SSH User ID |
| WebServer Enabled | TFTP | Device | Phone Web Server Enabled |
| PC Port SPAN | TFTP | Device | SPAN to PC Port Enabled |
| Settings Access | TFTP | Device | Phone Settings Access |
| LLDP Asset ID | TFTP | Device | Phone LLDP Asset ID |
| SerialNumber | Phone | Device | Phone Serial Number |
| ITL Status | Phone | Device | ITL Update Status |
| Firmware | Phone | Device | Phone Firmware Version |
| FirmwareModule1 | Phone | Device | Sidecar1 Firmware Version |
| FirmwareModule2 | Phone | Device | Sidecar2 Firmware Version |
| AltTFTP | Phone | Device | Alternate TFTP Enabled |
| TFTPServer1 | Phone | Device | Configured TFTP Server |
| SecurityMode | Phone | Device | Phone Security Mode |
| VideoCapability | Phone | Device | Video Enabled |
| MWI | Phone | Device | Message Waiting Status |
| SwitchPortCfg | Phone | Device | Switch Port Speed |
| PCPortCfg | Phone | Device | PC Port Speed |
| VoiceVLAN | Phone | Device | Switch Voice VLAN Number |
| SwitchName | Phone | Switch | Connected Switch Name |
| SwitchIPAddress | Phone | Switch | Connected Switch IP |
| SwitchPort | Phone | Switch | Connected Switch Port |
| MOS | Phone | Call | Current/Last MOS Score |
| Codec | Phone | Call | Current/Last call Codec |



Note: The update column represents how that information is updated as follows:

- Group Group Update, performed by [Group > Update > ClusterName]
- **Device** Device Information, performed by selecting the phone(s) to update and then the **[Phone DeviceInfo]** Icon on the toolbar
- Switch Switch Information, performed by selecting the phone(s) to update and then the [Phone SwitchInfo] Icon on the toolbar
- Call Call Information, performed by selecting the phone(s) to update and then the [Phone Call Stats] Icon on the toolbar

| Data | Source | Update | Description |
|------------------|--------|--------|-----------------------|
| Owner | UCM | Group | Device Owner |
| Email | UCM | Group | Email Address |
| First Name | UCM | Group | First Name |
| Middle Name | UCM | Group | Middle Name |
| Last Name | UCM | Group | Last Name |
| Manager | UCM | Group | Manager UserID |
| Telephone Number | UCM | Group | Number from Directory |
| Department | UCM | Group | Department |

User Information

Note: All user information for the owner of the device is updated as part of a Group Update, not as part of a Extension Mobility login or logout command

Note: If the UCM System is integrated with Active Directory this information will exactly match the mapped AD fields from AD to UCM's End Users



Troubleshooting PhoneView Installation

The following table lists a number of common problems and solution when installing and using **PhoneView** for the first time:

| Problem | Solution |
|---|---|
| Phones do not have any IP Addresses after performing group update | Check both of the following: 1. The Admin User configured for PhoneView has the 'Standard CCM Server Monitoring' group 2. Microsoft .Net 4 Full is installed Note: To check the .Net version installation, enter the following in the address bar of Internet Explorer '<i>javascript:alert(navigator.userAgent)</i>' and compare against the following: •Microsoft .Net 4 Full = .NET4.0E Microsoft .Net 4 Full Profile can be downloaded from here: http://www.microsoft.com/download/en/details.aspx?id=17718 |
| Unable to push Phone Backgrounds | Make sure Phone Personlization is enabled for the phone, or the cluster. The Cluster setting can be found in Enterprise Parameters. Note: UCM 6.x or above is required |
| Unable to remotely control any Phone | This is typically an authentication issue, when remote control commands are sent to the phone or a screenshot is taken the authenticated the Phone User credentials. Check the following: Make sure the Phone User configured in PhoneView has device association with all IP phones Make sure the Authentication URL used by the phone uses an IP Address or can resolve the hostname. To test the operation of authenticating remote control, you can try to manually view the phone screen by browsing to the following URL: http://[Phone IP Address]/CGI/Screenshot Note: With the release of UCM 8.x Cisco have introduced Security by Default functionality. As part of this the phone may now use the secure Authentication URL (using HTTPS). It is necessary for the ITL file on the phone to trust the cluster TVS service for the authentication to continue to work on the phone |

For further troubleshooting refer to the FAQ page: http://www.unifiedfx.com/phoneview/faq