

Webcam Viewer – User Guide

Project: Webcam Viewer

State: DRAFT

Feature Name: Webcam Viewer
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1. INTRODUCTION

This document is the User Guide for Webcam Viewer, an application for Open Stage 60/80. It is like a CCTV which displays images captured by webcams on different servers. The user can create slideshows and set the times of display i.e. refresh rate.

2. SCOPE

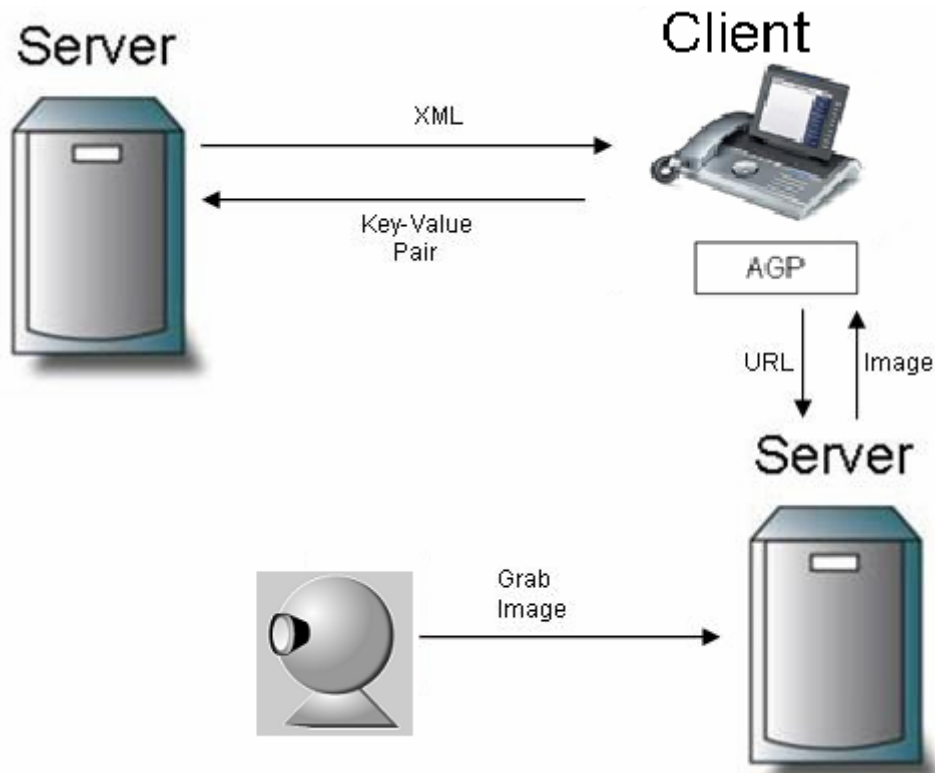
This guide is intended primarily for IP phone users with the Webcam Viewer application installed on their IP phone.

System administration is not covered in this document. For instructions on installation and maintenance of the application please see document "Webcam_Viewer_Installation_and_Maintenance_Guide.doc".

Webcam Viewer is currently tested and approved for prototype release for demonstration purposes on the OpenStage 60/80. The appropriate build and Applications Generic Platform must be installed on that phone.

English is the only language in which Webcam Viewer is available.

3. SYSTEM OVERVIEW

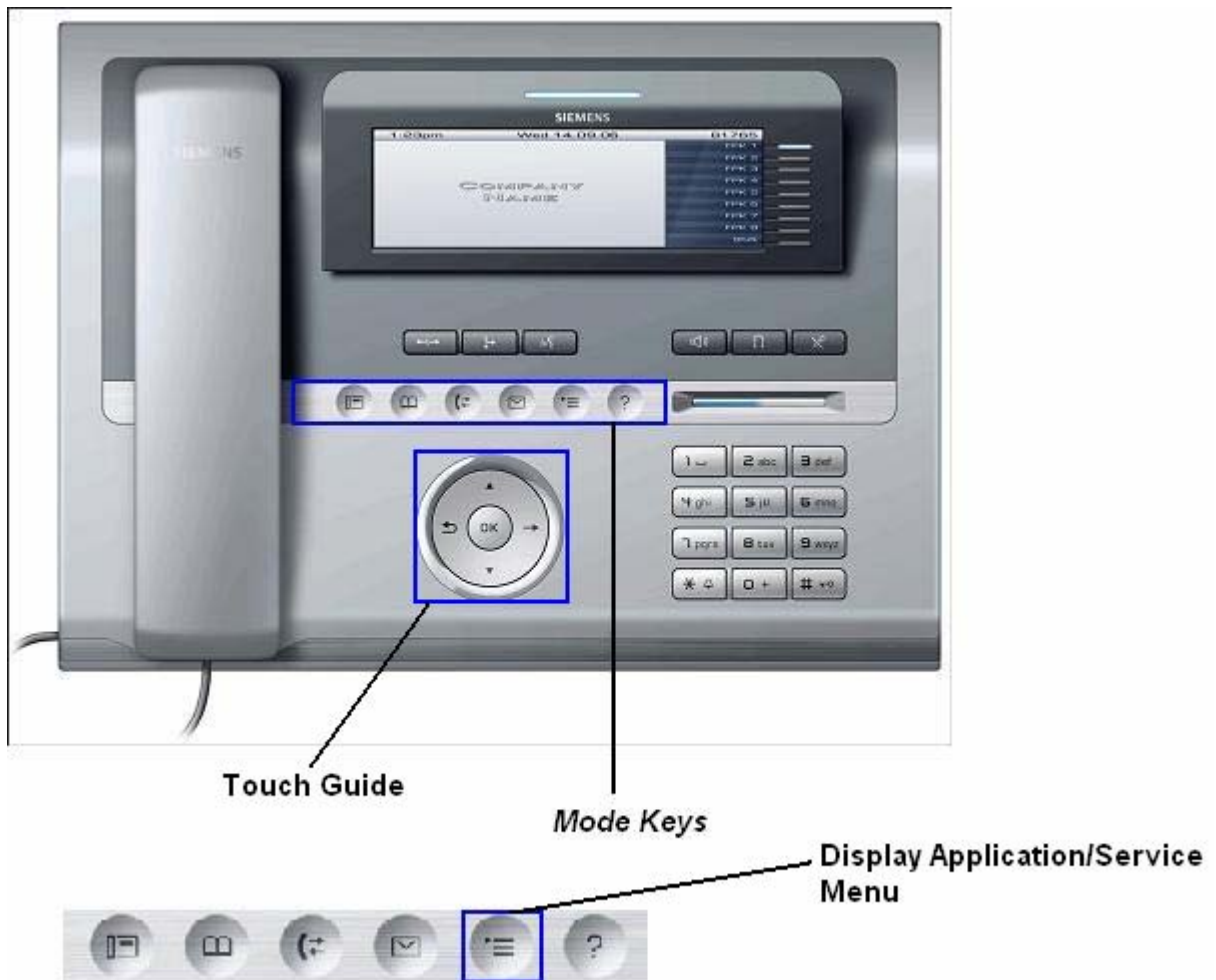


- The Webcam Viewer application on the phone interacts with the server using XML. The server provides XML to the phone which the application renders into a screen for the user to interact with. The user's interaction with the phone results in key-value pairs being passed back to the server for processing.
- The XML returned to the phone contains an URL. This URL points to an application on a server with a webcam.
- The phone connects to the URL and this causes the application to grab an image from the webcam and returns this in an image stream to the phone.
- The XML pages are pushed to the phone after certain regular intervals which are configured by the user.

Webcam Viewer has three main aspects:

- **Select View** – User can view a webcam feed from a single location.
- **Slideshow** – User can cycle through images captured by different webcams.
- **Settings** - User can specify the refresh rate for images from 5 to 60 seconds.

4. STARTING WEBCAM VIEWER APPLICATION



Activating Webcam Viewer Application

Pressing the “Display Application/Service Menu” mode key starts application mode.

If the “Applications” tab is not selected, pressing the same mode key again allows user to switch to Applications tab.

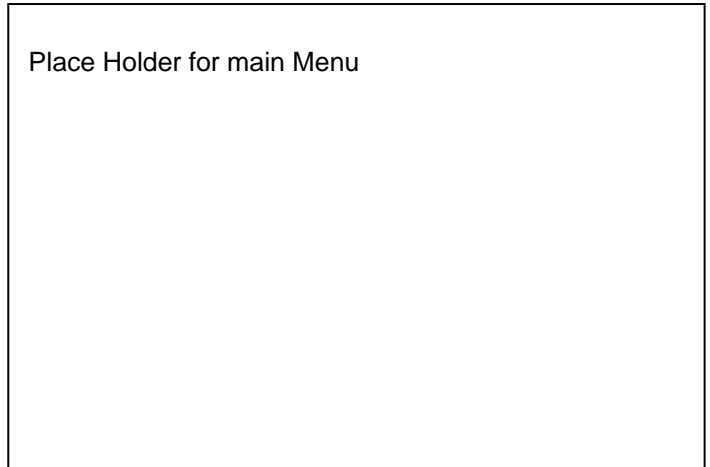
Use the Touch Guide to scroll through entries and confirm the required application, in this case “Webcam Viewer” by pressing the “OK” button in the middle of the Touch Guide.

5. WEBCAM VIEWER USAGE

5.1 Main Menu

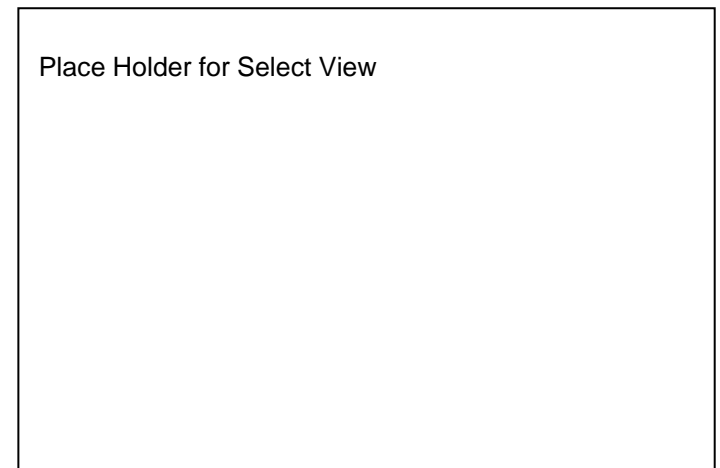
On successful logon this screen displays three options to select from:

1. Select View
2. Slideshow
3. Settings



5.2 Select View

Selecting this option presents the user with the list of available views to select from. "Views" are servers with "Webcam Feed" where the webcams are actually placed.



The following commands are available under the "Options" List.

Command	Action
Back	Returns to the main Menu.

5.2.1 View Webcam

Selecting a particular view allows the user to view images captured by the webcam which are refreshed at regular interval of time specified by the user.

Place Holder for view Webcam

The following commands are available under the “Options” List.

Command	Action
Back	Returns to the Select View
Main Menu	Returns to Main Menu
Refresh	Refreshes the image coming from webcam

Note:

When a displayed image is being auto-refreshed, best time to press command e.g.” Back” would be immediately after it has been refreshed else there is a possibility of command being pressed colliding with auto-refresh and auto-refresh will override the command.

Due to a memory-leak issue with the current build, the autorefresh command can only be invoked a limited number of times. Therefore the refresh rate configured on the app determines the lifetime of the app before a phone crash. It has been discovered when the refresh rate is set to 5 Seconds (fastest possible) the app will refresh the image for approx 12 minutes before the phone crashes. A slower refresh rate than this will allow the app to refresh the webcam image for longer. Please keep in mind that having the image constantly refreshing will result eventually in a phone crash so do not keep the webcam image on screen if it can be helped and be prepared to restart the phone if the image has been refreshing for a period of above 12 minutes.

5.3 Slideshow

This option displays list of available slideshows previously created. However if no slideshows are available then the screen with message “None available – Create Slideshow” is displayed.

Place Holder for Slide show.

The following commands are available under the “Options” List.

Command	Action
Back	Returns to the Main Menu
Create Slideshow	Navigates to create slideshow screen

5.4 Slideshow options

Selecting a particular slideshow from the list of available slideshows navigates to slideshow options screen. Following options are available:

1. Run slideshow
2. Add views to slideshow
3. Delete views from slideshow
4. Delete slideshow

Place Holder for Slide show options.

The following commands are available under the “Options” List.

Command	Action
Back	Returns back to slideshow screen with list of available slideshows.
Main Menu	Returns to the Main Menu

5.4.1 Run Slideshow

Running the slideshow cycles through views included in the slideshow at specific interval of time specified by the user (i.e. refresh rate).

Place Holder for Run slideshow

The following commands are available under the “Options” List.

Command	Action
Next View	Displays next view in the slideshow
Back	Returns back to slideshow options
Main Menu	Returns back to Main Menu

Note:

When a displayed image is being auto-refreshed, best time to press command e.g.” Back” would be immediately after it has been refreshed else there is a possibility of command being pressed colliding with auto-refresh and auto-refresh will override the command.



Due to a memory-leak issue with the current build, the autorefresh command can only be invoked a limited number of times. Therefore the refresh rate configured on the app determines the lifetime of the app before a phone crash. It has been discovered when the refresh rate is set to 5 Seconds (fastest possible) the app will refresh the image for approx 12 minutes before the phone crashes. A slower refresh rate than this will allow the app to refresh the webcam image for longer. Please keep in mind that having the image constantly refreshing will result eventually in a phone crash so do not keep the webcam image on screen if it can be helped and be prepared to restart the phone if the image has been refreshing for a period of above 12 minutes.

5.4.2 Add views to slideshow

This option displays a list of available views that are not included in Slideshow. To add the view user is required to select a particular view which will change the icon indicating that it has been selected.

Place Holder for Add views to Slideshow.

Icons / Status table

Icon	Status
	View selected to add
	View not selected to add

The following commands are available under the “Options” List.



Command	Action
Add Views	Adds selected views to slideshow
Back	Returns back to slideshow screen with list of available slideshows.
Main Menu	Returns to the Main Menu

5.4.3 Delete views from slideshow

This option displays a list of available views that are included in Slideshow. To delete the view user is required to select a particular view which will change the icon indicating that it has been selected.

Place Holder for delete views from Slideshow.

Icons / Status table

Icon	Status
	View selected to delete
	View not selected to delete

The following commands are available under the “Options” List.

Command	Action
Delete Views	Deletes selected views from the slideshow
Back	Returns back to slideshow screen with list of available slideshows.
Main Menu	Returns to the Main Menu

5.4.4 Delete Slideshow

A selected slideshow can be deleted by selecting this slideshow option.

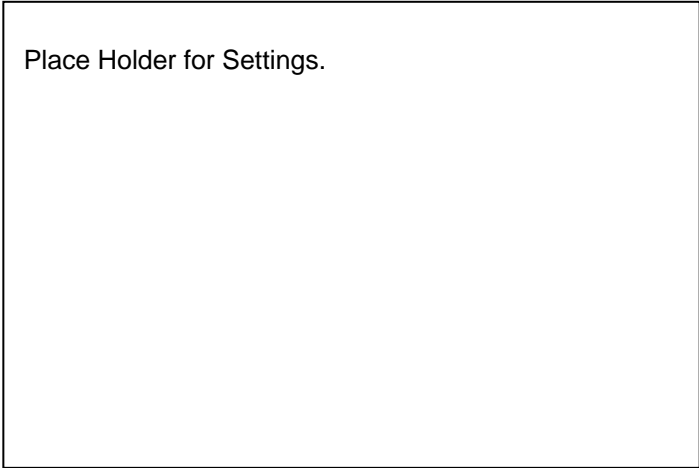
The following commands are available under the “Options” List.

Command	Action
Back	Returns back to slideshow screen with list of available slideshows.
Main Menu	Returns to the Main Menu

5.5 Settings

Here the user is asked to enter the refresh rate between 5-60 seconds for an image to be displayed.

Place Holder for Settings.



The following commands are available under the “Options” List.

Command	Action
Save	Navigates to confirmation screen with new refresh rate.
Back	Returns to the Main Menu

6. WEBCAM VIEWER USAGE – WEB ACCESS

The Webcam Viewer application also has a Web Access feature; this is to further ease the process of adding, deleting and editing the names and URL addresses for different webcam feeds.

6.1 ACCESSING WEB PORTAL

The Webcam Viewer web administrator can be accessed from any Web browser that is connected to the same network as the server hosting the servlet.

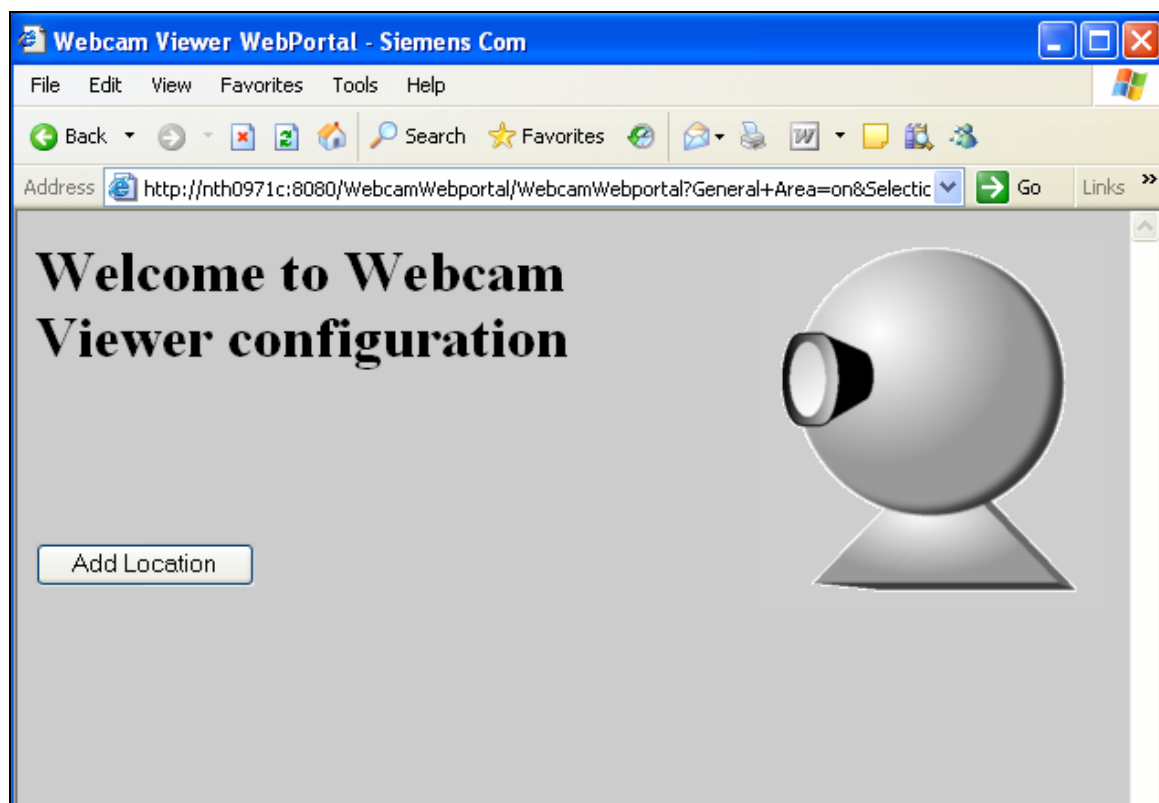
It is accessed by the URL the phone uses i.e.

<http://SERVERADDRESS:SERVERPORT/WebcamWebportal/WebcamWebportal>

E.g. <http://nth0971c:8080/WebcamWebportal/WebcamWebportal>

6.2 MAIN PAGE

Upon accessing the WebCam Web Portal the user is presented with the Web page with the Webcam icon and “Add Location” button.



The following buttons are available on this page.

Command	Action
Add Location	Navigates to Add Locations Page


6.3 ADD LOCATION

For adding locations of Webcam feeds to the WebCam viewer application using Web Portal Page user is required to press “Add Location” button.

Add New Location

Enter Location Name

Enter url address



The user is then required to enter the IP address of location and URL address of the Webcam from where the user wants to get the feed.

E.g. Location name: My Desk

URL Address: http:// 137.223.238.165:8080/WebCam/WebCam

Note:

Ensure that you enter IPADDRESS and not machine name e.g. nth0971c as this will not display images from that feed and will crash the phone.

The following buttons are available on this page.

Command	Action
Submit	Adds the Location entered to the list of current locations.
Back	Returns to the Main Menu

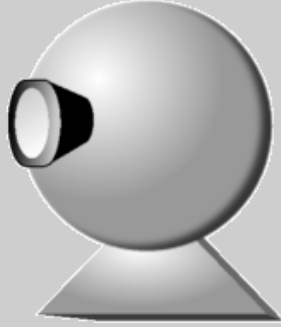
However if the user does not enter the “Location Name” and “URL Address” or either of them then a message displaying what the user has not entered is shown.

Add New Location

Location and Url Not Entered

Enter Location Name

Enter url address



6.4 DELETE LOCATIONS

The user is provided with the facility to delete a location from the “Main Page” of Web Portal page using the “Delete Locations” buttons.

Welcome to Webcam Viewer configuration

Current Locations

	Name	Image	Url Address	
<input checked="" type="checkbox"/>	My Desk		http://137.223.238.165:8080/WebCam/WebCam	Edit



As shown in the figure above the user is required to check the box against an image or location that he wants to delete and press the “Delete Locations” .The user can also delete more than one Location at the same time by checking more than one Locations and pressing the “Delete locations” button.

The following buttons are available on this page.

Command	Action
Add Location	Navigates to Add Locations Page
Delete Locations	Deletes checked locations

6.5 EDITTING LOCATIONS

A link named "Edit" is provided for each entry of location which allows the user to edit "Location Name" or "URL Address".

Edit Location


Current details

Location Name: General Area
Url Address: http://nth6158c:8080/WebCam/WebCam

Enter details

Enter Location Name

Enter url address



Along with providing text boxes to enter new details user is also provided current details which he desires to edit.

The following buttons are available on this page.

Command	Action
Submit	Adds the Location with updated details.
Back	Returns to the Main Menu

7. TROUBLESHOOTING (FAQ)

Q: When I launch the application on the phone I receive an error message informing me that the phone cannot read from the server. How do I fix this?

A: This may mean the Webcam Viewer application is not running, or the application is not configured correctly. In this case please contact your system administrator.

Q: Sometimes I am unable to see images from “Webcam”.

A: This occurs when the when the webcam is not properly connected or if the Web server is not running.

8. APPROVALS

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9. REFERENCES

1. WebCam_Users_Guide_v4.0 (for OptiPoint)

10. GLOSSARY

AGP	Application Generic Platform
GenericMidlet	AGP Midlet for use on the phone
Open stage 60/80	Model Number of a OpenStage Series Phone
JDBC	Java Database Connectivity
JRE	Java Runtime Environment
XML	Extensible Mark Up Language
URL	Unified Resource Locator

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