

# **Installation and User Manual**

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493499501 Rev A August 2009



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## 1 Overview

## 1.1 Intended Use

#### **Central Management of Video Detection Equipment**

Iteris' VantageView video detection management software has been developed to provide the user a unified platform to manage, monitor and 'see' Iteris' Vantage video detection assets remotely over a network connection. VantageView liberates the user from the need to establish one-to-one connections to devices for setup, configuration and monitoring. It provides a web based map centric environment that allows the user to access their infrastructure from any location with standard internet access.

#### Access Anywhere

Multiple users can access the central management system over a standard web browser from any location - no need to load additional software.

#### **One-click Video**

VantageView allows the user to view streaming video of each connected Iteris camera. One mouse click provides real-time access to live video – see what is happening in real time.

#### Aerial view of the intersection

Using a web based map centric environment allows the user to see a street map grid or 'bird's eye view' of the road network with all devices.

#### No need to go in the field to configure Intersections

VantageView provides for easy, centralized and integrated configuring of zones and camera setup functions to optimize performance from the traffic center or any other location with web access.

## 1.2 System Architecture

VantageView is a server based central software system.



Figure 1.2(a)

## 1.3 Features and Benefits

### Key Features

- Centralized device management (setup and configuration)
- Centralized video display capabilities (one streaming video)
- Maintenance management capabilities
- Multi-user access with different user levels
- Access to video devices from any internet connected location
- Use of existing IP communication infrastructure no additional hardware required
- Web based software does not require any software installation on client workstations
- System is scalable no limit to the number of connected devices

#### **Benefits**

- Facilitate the management of the deployed video detection infrastructure
  - Provide a centralized means to access and maintain the static and dynamic information of the video detection devices
  - Provide a centralized means to remotely configure the video detection devices for operations in the field
  - Provide a centralized means to provide information on the operational status of the video detection devices
- Enable the collection and further centralized processing of video detection information
  - Provide a centralized means to retrieve and store information processed by the video detection devices. This includes presence, occupancy, speed and other information available
  - Provide a centralized means to perform further offline analysis of the information for traffic engineering purposes
- Enable the real time visual monitoring of the road network by providing a centralized means to remotely access real time video feeds from the video detection cameras

## 2 System Installation and Information

## 2.1 System Requirements

#### PC Minimum Requirements

- Pentium III 1GHz Intel processor
- 512MB RAM
- AGP video card with 64MB of memory
- 100MB minimum, 250MB recommended free hard-drive space
- CD-ROM reader
- USB Mouse and Keyboard
- 15" monitor with at least (800 x 600) resolution and 16 bit color
- 10/100 base-T Ethernet adaptor

#### PC Operating System and Software

- Windows XP with service pack 3 (minimum)
- Windows Vista with service pack 1
- Windows 2000 with service pack 4
- Internet Explorer 7.x (from Microsoft.com)
  - **Note:** This system has not been testing for compatibility with Internet Explorer 8 or any other Web Browser software.
- QuickTime Player 7.0 or higher (from Apple.com)
- VLC Media Player 0.9.4 or higher (from VideoLan.org)
- VRAS software version 3.1.3c or higher (from Iteris)

**NOTE:** VRAS software is provided on the VRAS software distribution CD.

#### Server Minimum Requirements

- Windows Server 2008 or 2003
- SQL Server 2008 or 2005
- .NET 3.5 Framework
- IIS
- 10/100 base-T Ethernet adaptor
- Internet Connection

## 2.2 Installing the Software

The software is provided on CD-ROM. If the server designated for running VantageView does not have an optical drive permanently attached connect one to the system.

<u>N</u>ext >

#### 2.2.1 Installation CD

🛃 Iteris CentralSoftware

Wizard

computer.

Insert the supplied CD into the drive and follow the instructions on the screen.

| Windows Installer    |        |
|----------------------|--------|
| Preparing to install |        |
|                      | Cancel |

Welcome to the Iteris CentralSoftware Setup **ITERIS** 

The installer will guide you through the steps required to install Iteris CentralSoftware on your

WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.

Cancel

< <u>B</u>ack

If the CD does not autorun select the CD drive on the system and click on the setup icon. The "Preparing to install..." screen, Figure 2.2.1(a) will be displayed.

Figure 2.2.1(a)

Next the VantageView installation welcome screen will be displayed, Figure 2.2.1(b). Click on the "<u>N</u>ext>" button to continue.

Figure 2.2.1(b)

Next the Iteris End User License Agreement will be displayed, Figure 2.2.1(c). Please read carefully. Click on the "I <u>Ag</u>ree" check box and click on the "<u>N</u>ext>" button.

| 😸 Iteris CentralSoftware  |  |  |  |  |  |
|---|--|--|--|--|--|
| License Agreement   | ITERIS   |  |  |  |  |
| Please take a moment to read the licens<br>Agree", then "Next". Otherwise click "Ca   | e agreement now. If you accept the terms below, click ''I<br>ancel''.  |  |  |  |  |
| IMPORTANT - Carefully read<br>installing this Software. Installin<br>and unconditional acceptance o   | IMPORTANT - Carefully read the following terms and conditions <u>BEFORE</u> installing this Software. Installing or using the Software indicates your complete and unconditional acceptance of these terms and conditions. |  |  |  |  |
| License: ("Iteris") licenses the VantageView <sup>TM</sup> ("Software"), whether provided on<br>storage media, in firmware, electronically or provided as updates via electronic or<br>any other media, or otherwise and any related documentation for description, use,<br>operation, or maintenance of the Software ("Documentation") as follows: |  |  |  |  |  |
| GRANT OF LICENSE. Iteris g  | rants the purchaser ("Licensee") of this Software 💌  |  |  |  |  |
| ◯ I <u>D</u> o Not Agree  |  |  |  |  |  |
|   | Cancel < <u>B</u> ack <u>N</u> ext >   |  |  |  |  |

Figure 2.2.1(c)

| 🛿 Iteris CentralSoftware   |  |
|--|--|
| Select Installation Address  | ITERIS                                   |
| The installer will install Iteris CentralSoftware to the following web loc<br>To install to this web location, click "Next". To install to a different w<br><u>Site:</u><br>Default Web Site<br><u>V</u> irtual directory:<br>Iteris_VantageView | vation.<br>veb location, enter it below. |
| Cancel   | < <u>B</u> ack <u>N</u> ext >            |

#### 🛃 Iteris CentralSoftware Disk Space X The list below includes the drives you can install Iteris CentralSoftware to, along with each drive's available and required disk space. Volume Disk Size Available Require **■**C: 232GB 201GB 25M 1363GB 599GB 👤 S: ΟK < > ΟK

Enter the Virtual directory name in the box provided, Figure 2.2.1(d). This name will be used to access the system from a remote pc.

Click on the "<u>N</u>ext>" button after entering the information.

Click on the "Disk Cost..." button to see how much disk space will be used and how much is available, see Figure 2.2.1(e).

Figure 2.2.1(d)

## Figure 2.2.1(e)

| 👹 Iteris CentralSoftware  |                             |
|---|-----------------------------|
| Configure Database  | ITERIS                      |
| Please enter the SQL server host. (Leave username and password fie<br>Security) | elds blank for Integrated   |
| Host:   |                             |
| .\SQLEXPRESS  |                             |
| Username  |                             |
| Password  |                             |
| Database Name   |                             |
| IterisCentral   |                             |
| Cancel  | <u>B</u> ack <u>N</u> ext > |

In the Host box enter the link to the SQL Database software. For example ".\sqlexpress", Figure 2.2.1(f).

In the Database Name box enter the name for the VantageView database. The name of the database must be different from any currently running on the server.

Click on the "<u>N</u>ext>" button to continue.

Figure 2.2.1(f)

| 🙀 Iteris CentralSoftware   |   |
|--|---|
| Administrator  | ITERIS  |
| Please enter a username and password you would<br>also be configured as the SQL database user, plea<br>Username: | iike to use as the admin account. (Note: This will<br>se ensure a secure password.) |
| VantageView  |   |
| Password   |   |
| ITS705vv   |   |
|  |   |
|  |   |
|  |   |
|  |   |
| Car  | cel < <u>B</u> ack <u>N</u> ext >   |



🙀 Iteris CentralSoftware **ITERIS** installation, Figure 2.2.1(h). Confirm Installation The installer is ready to install Iteris CentralSoftware on your computer. Click "Next" to start the installation. Figure 2.2.1(h) Cancel < <u>B</u>ack <u>N</u>ext > 🖟 Iteris CentralSoftware **ITERIS** The progress bar will scroll across the screen Installing Iteris CentralSoftware as the installation is completed. Iteris CentralSoftware is being installed. Please wait.. Figure 2.2.1(i) Cancel < <u>B</u>ack <u>N</u>ext>

Enter a Username and Password. This will be the first user in the system, Figure 2.2.1(g).

The password should include a combination of lower and uppercase letters, numbers and special characters. It should be at least 6 characters long.

At the end of the installation process the quality of the password will be checked. If it does not meet windows security requirements the installation will be cancelled.

Click on the "Next>" button to continue.

Click on the "Next>" button to start the

7

| 🖞 Iteris CentralSoftware  | The   |
|---|-------|
| Installation Complete ITERIS  | 2.2.  |
|   | suco  |
| Iteris CentralSoftware has been successfully installed.                               | serv  |
| Click "Close" to exit.  | Click |
|   | CIICI |
|   | pro   |
|   |       |
|   |       |
|   |       |
|   |       |
| Please use Windows I Indate to check for any critical undates to the NET Framework    |       |
| r lease use willidows opdate to check for any childrandpoates to the trial intervolk. |       |
|   |       |
| Cancel < Back <b>Close</b>  | Figu  |
|   | 0     |

The "Installation Complete" screen, Figure 2.2.1(j), will be displayed. You have uccessfully installed the software on the erver.

Click on the "<u>C</u>lose" button to exit the setup program.

Figure 2.2.1(j)

### 2.2.2 Server Setup

It is important to ensure that your server is running the latest version of SQL database.

Connect to the Microsoft download site, see link below, to upload the latest upgrades and patches.

http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=228de03f-3b5a-428a-923f-58a033d316e1

Find the correct version of each of the following upgrades for your server. Download and install each upgrade in the order below.

- 1) Microsoft SQL Server System CLR Types
- 2) Microsoft SQL Server 2008 Management Objects
- 3) Microsoft SQL Server 2008 Native Client

#### 2.2.3 Database Setup

The SQL Database must be configured for mixed mode authentication. When enabled, mixed mode authentication allows you to log into a SQL server using either your Windows VPS username and password or your SQL database username and password. When logged in using your Windows VPS username and password, you have access to all the databases on the server.

- 1. Log into your server through Remote Desktop Connection.
- Click Start, Programs, Microsoft SQL Server 2005 and select SQL Server Management Studio Express or SQL Server Management Studio, depending on your version of SQL Server, see Figure 2.2.3(a).



- 3. Enter the requested information, see Figure 2.2.3(b):
  - o Server Type: select Database Engine
  - o Server Name: this field should be populated by default
  - o Authentication: select Windows Authentication

| SQL Ser              | Windows Server System  | n              |
|----------------------|------------------------|----------------|
| Server type:         | Database Engine        | ]              |
| <u>S</u> erver name: | H99999\SQLEXPRESS      | 1              |
| Authentication:      | Windows Authentication | 1              |
| <u>U</u> ser name:   | H99999\root            | 1              |
| Password:            |                        | 1              |
|                      | Remember password      |                |
| <u>C</u> onnect      | Cancel Help Options >> | Figure 2.2.3(b |

- 4. Click on "Connect" button.
- 5. Right click the server name and select "Properties", see Figure 2.2.3(c).



Figure 2.2.3(c)

- 6. Click "Security", see Figure 2.2.3(d).
- 7. Under Server authentication select SQL Server and Windows Authentication Mode.
- 8. Click OK.



9. Right click the server name and select Restart, see Figure 2.2.3(e). Wait a few moments for the service to restart before proceeding.



#### 2.2.4 Internet Explorer Setup

VantageView must be added to the trusted sites for each PC that will run the system. The security level for trusted sites must be set to low.

Launch Internet Explorer and log onto VantageView. From the menu bar click on the caret next to the Tools menu, see Figure 2.2.4(a)



From the menu is displayed , see Figure 2.2.4(b), click on "Internet Options".



The Internet Options window will be displayed, see Figure 2.2.4(c).

| nternet Options   | <u>? ×</u>           |
|---|----------------------|
| General Security Privacy Content Connections Program                              | s Advanced           |
| Home page   |                      |
| To create home page tabs, type each address on it                                 | s own line.          |
| http://journey.iteris.com/  | <u> </u>             |
|   |                      |
|   |                      |
| Use <u>current</u> Use de <u>f</u> ault Use                                       | e <u>b</u> lank      |
| Browsing history  |                      |
| Delete temporary files, history, cookies, saved pase<br>and web form information. | swords,              |
| Delete S  | ettings              |
| Search  |                      |
| Change search defaults.   | ettings              |
| Tabs  |                      |
| Change how webpages are displayed in S<br>tabs.                                   | e <u>t</u> tings     |
| Appearance  |                      |
| Colors Languages Fonts Ac   | c <u>e</u> ssibility |
|   |                      |
|   |                      |
| OK Cancel   | Apply                |
|   | Figure 2.2.          |

Click on the "Security" tab, see Figure 2.2.4(d) and select Trusted sites by clicking on the icon. Set the security level to "Low". Click on the "Apply" button

| Internet Options  |
|---|
| General Security Privacy Content Connections Programs Advanced  |
|   |
| Select a zone to view or change security settings.  |
|   |
| Internet Local intranet Trusted sites Restricted sites  |
| Trusted sites   |
| This zone contains websites that you<br>trust not to damage your computer or<br>your files.<br>You have websites in this zone.  |
| Security level for this zone  |
| Allowed levels for this zone: All   |
| Low     Minimal safeguards and warning prompts are provided     Most content is downloaded and run without prompts     All active content can run     Appropriate for sites that you absolutely trust |
| <u>C</u> ustom level <u>D</u> efault level  |
| <u>R</u> eset all zones to default level  |
| OK Cancel Apply   |

gure 2.2.4(d)

Click on the "Sites" button in the middle-right of the window. The window in Figure 2.2.4(e) will appear. Enter the address for the system in the box and click on the "Add" button. Click on the "Close" button. Click on the "OK" button. The window will disappear and Internet Explorer will be ready to use with VantageView.



## 3 Getting Started

## 3.1 Logging In

Start Internet Explorer and type the address of the location of the VantageView software, see Figure 3.1(a).

| 🖉 Iteris Vant | age View - Windows Internet Explorer |               |
|---------------|--------------------------------------|---------------|
| <b>GO</b> -   | https://antageView.Agency.org/       | Figure 2 1(a) |
|               |                                      | Figure 3.1(a  |

You will be presented with the VantageView login page, see Figure 3.1(b).

| ITERIS                    |  |
|---------------------------|--|
| Welcome to<br>VantageView | Member Login<br>User ID:<br>Password:<br>Login |



Enter your User ID and Password and click on the "Login" button. The Welcome screen, see Figure 3.1(c), will be displayed. Your name and the current time will be displayed in the upper right of the screen. The current date will be displayed at the top of the screen.



Figure 3.1(c)

## 3.2 Default View

The Default View is divided into three sections.

### 3.2.1 Menu Tree

Access to the various functions of the system is provided through the menus on the left side of the screen. Clicking on each of the headings will expand the menu and display the options. It is possible to hide the menu tree by clicking on the "Hide Menu" tab at the side of the menu structure. This allows for optimization of the viewing area. If the menu is hidden the extra screen space is used to expand the global map view

- Monitor
  - **Default View** Clicking on this will return the display to the preferred map display setup under the 'Map Defaults' setting. See section 5.1.
  - **Dashboard View** This will take the user to the dashboard view of the device selected from the device tree. See section 3.3.
- Manage
  - Add/Edit Device Settings Creation or modification of devices is performed in this menu. See section 5.3.3.
  - Add/Edit Device Template Creation or editing of static device information is performed in this menu. See section 4.5.
  - Configure Device This function allows the user to setup and configure the selected device. Depending on the device type the system may launch VRAS or the embedded Web Server of the device. See section 5.6.
  - Add/Edit Maintenance This function allows for the registration and modification of devices for maintenance. See section 6.1.
  - View Events Log This function displays all current open maintenance issues. See section 6.2.
  - **Location** Setup and modification of device locations are performed in this menu. See section 5.4.
- Settings
  - **Map Defaults** This function allows the user to setup their preferred map display when the software is first launched or when the default view is selected. See section 5.1.
  - User Setup This function allows for the setup or modification of users. See section 4.1.
  - **General Settings** Location of VRAS software for device setup is determined in this menu. See section 5.2.
  - Region Setup and modification of device regions is performed in this menu. See section 4.3.
  - **Sub Region** Setup and modification of device sub-regions is performed in this menu. See section 4.4.

## 3.2.2 Device Tree

The Device Tree displays all the devices by location. More information on the Device Tree can be found in section 4.2.2.

## 3.2.3 Map

The default map view is shown with icons for intersections and locations. The default view can be changed in the settings menu. See section 5.1 for more details.

## 3.3 Dashboard View

The Dashboard View, see Figure 3.3(a), is activated by choosing a device from the device tree. In the dashboard view the menu tree and device tree remain the same. The map zooms to a level that displays more detail of the device's location. A new column appears on the right of the screen and additional information appears below the map.

You can return to the dashboard view from any other screen simply by clicking on the VantageView logo.



### Figure 3.3(a)

Note: If no device is selected the current map view will be displayed .

#### 3.3.1 Map

In the dashboard view the map view zooms to a level where the location or intersection is easily viewed, see Figure 3.3.1(a). Icons for all devices in that area will be displayed. An icon will be displayed for a location and an icon for an intersection. The icon for the device selected will be larger and have four

red arrows at the corners of the icon 💹 and 🔪



Figure 3.3.1(a)

### 3.3.2 Device Management

Placing the cursor over a location or intersection icon will cause a window to be displayed, see Figure 3.3.2(a).

| -North OC 1<br>Santa Ana<br><b>1st and M</b> a | ain                |         |  |
|--|--------------------|---------|--|
| Device Type                                    | Device ID          | Status  |  |
| EdgeConnect                                    | Mike EC1           | EventOn |  |
| RZ4A   | <u>Mike RZ4A 1</u> | EventOn |  |
| RZ4A   | Mike RZ4A 2        | EventOn |  |
| RZ4C   | Mike RZ4C 3        | NoEvent |  |
| RZ4C   | Mike RZ4C 4        | EventOn |  |
| Add Device to                                  | this Intersecti    | on      |  |
|  |                    |         |  |

At the top of the window the Region preceded by '-' will be displayed, below that is the Sub Region preceded by '--' and below then the Location preceded by '---' and highlighted in bold type. The table in the center of the box lists all the devices at that Location with their Device ID and Status. The status relates to maintenance, see section 6. At the bottom of the window is a link to add a device. Move the cursor over the link and it will turn black. Click on the mouse and you will be requested to add a device. See section 5.5.2 for more details.

The Device ID is underlined similar to a hyperlink. Moving the cursor over the Device ID will change it's color from blue to black. Click on the link and a new window will be displayed, see Figure 3.3.2(b). See sections 5.5.3, 5.6 and 6 for more details on these functions.

| Mike EC1  |                 |
|---|-----------------|
| <u>Edit Device</u><br><u>Configure Device</u><br><u>Maintenance</u> |                 |
| [X]   | Figure 3.3.2(b) |

#### 3.3.2 Selected Device

|                            | DEVICE ID SEL<br>Mike RZ4 | ected<br>4A 1                      |   |  |  |
|----------------------------|---------------------------|------------------------------------|---|--|--|
| SELL<br>Birch<br>Park      |                           | LOCATIO<br>E 3rd St<br>st St E 1st | E 2nd St<br>St<br>Navried Devid &<br>econecy of Desid |  |  |
|                            | DEVICE VII                | DEO                                |   |  |  |
|                            |                           |                                    |   |  |  |
|                            | MAINTENA                  | NCE                                |   |  |  |
| Next Service<br>06/20/2009 | ld<br>Mike RZ4A 1         | City<br>Orange                     | Notification 1 days                                   |  |  |

On the right hand side of the screen information on the selected device will be displayed, see Figure 3.2.2(a). At the top is the Device ID. Below that an aerial view of the location. If the device is connected to an EdgeConnect module then a QuickTime "Q" will appear. At the bottom of the column is maintenance information for the device if the device has been registered (see section 6). If the device has not been registered then the message "Maintenance log not found" will be displayed.

Figure 3.3.2(a)

### 3.3.3 Streaming Video EdgeConnect Quicktime Stream

If a device is connected to an EdgeConnect module then the QuickTime "Q" will appear on the right hand side of the screen.

Click on the play button and the system will begin to stream live video.

#### eAccess Stream

The eAccess stream is provided in a separate VLC media player window.

To activate the stream click on the configure device function. The eAccess welcome page will appear. Click on the Enter button, enter the Unit ID and click on the "Login" button.

The eAccess Main Menu will appear. Click on the "Streamer" function. Start VLC media player and open a network connect. Choose UDP protocol and Port 2000. Leave the Address box blank. Click on the "Stream" button. A new window will appear click on the "Stream" button and the video stream will begin.

For more information refer to the eAccess manual.

#### 3.3.4 Global Event Log

At the bottom center of the screen a "Global Event Log" table is displayed, see Figure 3.3.4(a). This table will contain maintenance information for all registered devices in the system. See section 6 for more information.

| GLOBAL EVENT LOG |                 |                                      |   |      |
|------------------|-----------------|--------------------------------------|---|------|
| Event Date       | Device ID       | Description                          | Comments                                    |      |
| 4/15/2009        | RZ1001          | Maintenance Required<br>on 8/1/2009  |   | Edit |
| 6/18/2009        | Mike RZ4C       | Maintenance Required<br>on 6/19/2009 | Maintenance performed<br>Todd Kreter (todd) | Edit |
| 6/26/2009        | Mike RZ4A<br>1  | Maintenance Required<br>on 6/20/2009 |   | Edit |
| 6/26/2009        | Device<br>34699 | Maintenance Required<br>on 6/20/2009 |   | Edit |
| 6/26/2009        | Mike RZ4A<br>2  | Maintenance Required<br>on 6/18/2009 |   | Edit |

Figure 3.3.4(a)

## 3.4 Logging Out

Once you have completed your session click on the "[Logout]" function in the upper left of the screen. After logout the following screen, see Figure 3.4(a) will appear. For added security close your internet browser after exiting the system.

| ITERIS                    |   |               |
|---------------------------|---|---------------|
| Welcome to<br>VantageView | Member Login<br>You have successfully logged out.<br>User ID:<br>Password:<br>Login |               |
|                           |   | Figure 3.4(a) |

## 3.5 Changing Your Password

Passwords can only be changed by the user administrator. To change your password, contact your administrator.

## 4 System Administration

System administration is performed in the "Settings" menu.

## 4.1 Managing Users

On the main menu click on the "Settings" tab then click on the "User Management" function. Clicking on the "Search" button without entering any data in the box will display a list of all the current users, see Figure 4.1(a). Each user has a "User ID" and a "User Name". The "User ID" is the tag used for logging into the system.

| Monitor          | Devices          | User Man      | agement                 |             |            |
|------------------|------------------|---------------|-------------------------|-------------|------------|
| Manage           | ▼Tech #2         | - eser man    | agement                 |             |            |
| Settings         | Mayor's commute  | Cauch by User | Name                    | Search      | Create Nev |
|                  | Region 55        | Deards by     |                         |             |            |
| Map Defaults     | € Northwood      | Hear ID       | Licor Namo              |             |            |
| General Settings | Region 3         | Userio        | User Name               |             |            |
| Region           | Sub Region 88    | court         | courtney shout          | Edit Delete |            |
| Sub Region       | ▼Region 2        | DeviceAdmin   | DeviceAdmin DeviceAdmin | Edit Delete |            |
| User Management  | Sub Pagion 22    | eugene        | Eugene Park             | Edit Delete |            |
|                  | Sub Region 22    | Kelly         | Kelly May               | Edit Delete |            |
|                  | ■West Centennial | w kurt        | Kurt Gooding            | Edit Delete |            |
|                  | ▶Foxridge        | lanny         | lanny hefner            | Edit Delete |            |
|                  | ▼North OC 1      | 8 Matt        | Matt Linton             | Edit Delete |            |
|                  | Santa Ana        | michael       | michael wieck           | Edit Delete |            |
|                  | P Salita Alla    | NickH         | Nicholas Hartman        | Edit Delete |            |
|                  |                  | viewer        | Test Viewer             | Edit Delete |            |
|                  |                  | tester        | Tester Tester           | Edit Delete |            |
|                  |                  | Brit          | The Beatles             | Edit Delete |            |
|                  |                  | devadmin      | todd kreter             | Edit Delete |            |
|                  |                  | todd          | Todd Kreter             | Edit Delete |            |
|                  |                  | user          | User Demo               | Edit Delete |            |
|                  |                  | UserAdmin     | UserAdmin UserAdmin     | Edit Delete |            |
|                  |                  | Aussie        | ZZ TOP                  | Edit Delete |            |

### Figure 4.1(a)

## 4.1.1 Adding Users

To add a user to the system click on the "Create New User" button. The following table will appear, see Figure 4.1.1(a):

| Create Cano      | el     |   |
|------------------|--------|---|
| User ID:         |        |   |
| First Name:      |        |   |
| Last Name:       |        |   |
| Password:        |        |   |
| Confirm Password | d:     |   |
| Email:           |        |   |
| Phone:           |        |   |
| Role:            | Viewer | • |

Enter the information for the new user in the table. See Figure 4.1.1(b) for more information on each entry.

Once all the information has been entered click on the "Create" button to add the user. The table will clear and the "User created" message will appear under the "Create" button. Click on the "Search" button and the new user will appear in the table.

Click on the "Cancel" button any time to cancel adding a user.



| Function         | Description  |
|------------------|--|
| User ID          | Enter the user's ID. This is the tag used to log on to the system. The User ID is not case sensitive "Joe" and "joe" are considered the same.  |
| First Name       | Enter the user's first name.   |
| Last Name        | Enter the user's last name.  |
| Password         | Enter the user's password. The password can be upto 10 characters in length. The password is case sensitive.   |
| Confirm Password | Re-enter the user's password to confirm the setting.   |
| Email            | Enter the user's email address. This information is optional.  |
| Phone            | Enter the user's phone number. This information is optional.   |
| Role             | Each user can have different access rights to the system. The table below shows the functions available for the different roles. Select a role for the user from the drop down box. See Figure 4.1.1(c) for access rights for each type of user. |

## Figure 4.1.1(b)

|                          | Viewer | User | Device Admin | User Admin |
|--------------------------|--------|------|--------------|------------|
| Default View             | Х      | Х    | Х            | Х          |
| Dashboard View           | Х      | Х    | Х            | Х          |
| Add/Edit Device Settings |        | Х    | Х            | Х          |
| Configure Device         |        |      | Х            | Х          |
| Add/Edit Device Template |        |      | Х            | Х          |
| Add/Edit Maintenance     |        | Х    | х            | Х          |
| View Events Log          | Х      | Х    | х            | Х          |
| Location                 |        | Х    | Х            | Х          |
| Map Defaults             |        | Х    | Х            | Х          |
| General Settings         |        |      | Х            | Х          |
| Region                   |        |      | Х            | Х          |
| Sub Region               |        |      | Х            | Х          |
| User Management          |        |      |              | Х          |

Figure 4.1.1(c) illustrates user levels and access rights.

## 4.1.2 Viewing and Editing User Information

To view or edit existing user information including changing user passwords click on the "Edit" function next to the user's name. The same table as adding a user will appear except some of the fields will already be filled with information. Add or modify the user information. Once all information has been entered click on the "Update" button to save the information.

Click on the "Cancel" button any time to cancel updating user information.

#### 4.1.3 Deleting Users

To delete a user from the system click on the "Delete" function next to the user's name. The following screen will appear, see Figure 4.1.3(a).



Figure 4.1.3(a)

Click on the "Delete" button to remove the user or click on the "Cancel" button to cancel the command. After deleting the user the system will return to the "User Management" screen click on the "Search" button to display all users and confirm the user have been deleted from the system.

### 4.1.4 Searching for Users

A search for a particular user can be performed by entering all or part of the User ID or User Name and the system will return a list of matching users.

## 4.2 Managing Regions and Sub-Regions

## 4.2.1 Device Menu Structure

Device management is structured in an open fashion to allow maximum configuration options for the user. Each device is linked to a location (an intersection for example). The location is linked to a sub-region and the sub-region is linked to a region. The graphics below demonstrate this concept. The first map, see Figure 4.2.1(a) is an example of how Orange County is split into four regions.



#### Figure 4.2.1(a)

The second map, see Figure 4.2.1(b) is an example of how the north region is split into five sub-regions. Each sub-region would contain locations which would have video servers, cameras and other devices linked to it. Locations can exist in multiple sub-regions by copying the location information into both sub-regions.

NOTE: Regions and sub-regions can overlap.



Figure 4.2.1(b)

## 4.2.2 Device Tree

The Device tree on the center left, see Figure 4.2.2(a) of the screen has the following structure:



As regions, sub regions, locations and devices are added to the system they will automatically appear on the device tree. Each level of the tree is expandable or collapsible. Click on a left facing caret ( $\blacktriangleright$ ) to expand the tree, click on a down facing caret ( $\bigtriangledown$ ) to collapse the tree.

The menu can be hidden to allow the system to use more of the display for the map and video streams.

Click on the "Hide Devices" tab. The menu will disappear and a "Show Devices" tab will appear on the left of the screen. To display the menu click on the "Show Devices" tab.

Figure 4.2.2(a)

Figure 4.2.2(b) shows how the device tree structure is defined and an example of its implementation.

| Structure  | Example                |
|------------|------------------------|
| Region     | North Orange County    |
| Sub-Region | Santa Ana              |
| Location   | 1st and Main           |
| Devices    | - EC 101               |
|            | - RZ4A Northbound      |
|            | - RZ4A Eastbound       |
|            | - RZ4A Southbound      |
|            | - RZ4A Westbound       |
| Location   | Bristol and Warner     |
| Location   | Dyer and Grand         |
| Sub-Region | Irvine                 |
| Location   | Newport and Irvine     |
| Devices    | - EA 232               |
|            | - RZ4C Northbound      |
| Location   | Walnut and Redhill     |
| Location   | Tustin Ranch and Bryan |
| Region     | South Orange County    |
| Sub-Region | Fountain Valley        |
| Location   | Talbert and Euclid     |
| Devices    | - EC 541               |
|            | - RZ4A Northbound      |
|            | - RZ4A Eastbound       |
|            | - RZ4A Southbound      |
|            | - RZ4A Westbound       |
| Location   | Warner and Brookhurst  |
| Location   | Ellis and Beach        |
| Sub-Region | Costa Mesa             |
| Location   | Fair and Harbor        |
| Devices    | - EA 386               |
|            | - RZ4C Northbound      |
| Location   | Baker and Bristol      |
| Location   | Bear and Sunflower     |

It is not necessary to use the Region/Sub-Region system if the management of Vantage assets is handled differently. In the example below, see Figure 4.2.2(c), a single Region is defined and divided into Sub-Regions only.

| Structure  | Example                |
|------------|------------------------|
| Region     | Santa Ana              |
| Sub-Region | North SA               |
| Location   | 1st and Main           |
| Devices    | - EC 101               |
|            | - RZ4A Northbound      |
|            | - RZ4A Eastbound       |
|            | - RZ4A Southbound      |
|            | - RZ4A Westbound       |
| Location   | Bristol and Warner     |
| Location   | 17th and Fairview      |
| Sub-Region | South SA               |
| Location   | Dyer and Grand         |
| Devices    | - EA 232               |
|            | - RZ4C Northbound      |
| Location   | Walnut and Redhill     |
| Location   | Tustin Ranch and Bryan |
| Sub-Region | East SA                |
| Location   | Talbert and Euclid     |
| Devices    | - EC 541               |
| Location   | Warner and Brookhurst  |
| Location   | Ellis and Beach        |
| Sub-Region | West SA                |
| Location   | Fair and Harbor        |
| Devices    | - EA 386               |
|            | - RZ4C Northbound      |
| Location   | Baker and Bristol      |
| Location   | Bear and Sunflower     |

### 4.3 Region Management

On the main menu click on the "Settings" tab then click on the "Region" function. The Region Management screen, see Figure 4.3(a), will be displayed . All current Regions will be shown.

| Region Management |      |        |                   |
|-------------------|------|--------|-------------------|
| Region Name       |      |        | Create New Region |
| East OC           | Edit | Delete |                   |
| North OC 1        | Edit | Delete |                   |
| Sales Demo        | Edit | Delete |                   |
| Sales Sandbox     | Edit | Delete |                   |
| South OC          | Edit | Delete |                   |
| West OC           | Edit | Delete |                   |

#### Figure 4.3(a)

#### 4.3.1 Adding Regions

Click on the "Create New Region" button. The following table, see Figure 4.3.1(a), will appear. Enter the Region Name and Description in the boxes and click on the "Create" button. Click on the "Cancel" button any time to cancel adding a region.

| Create    | Cancel     |  |  |
|-----------|------------|--|--|
| Region Na | me *:      |  |  |
| Region De | scription: |  |  |

#### Figure 4.3.1(a)

### 4.3.2 Viewing or Editing Regions

To view or edit existing region information click on the "Edit" function next to the region's name. The same table as adding a region will appear except some of the fields will already be filled with information. Add or modify the region information. Once all information has been entered click on the "Update" button to save the information.

#### 4.3.3 Deleting Regions

To delete a region from the system click on the "Delete" function next to the region's name. The following screen will be displayed.

| <b>Region Management : Delete Confirmation</b> |
|--|
| Do you really want to delete East OC?          |
| Delete Cancel                                  |

#### Figure 4.3.3(a)

Click on the "Delete" button to remove the region or click on the "Cancel" button to cancel the command. After deleting the region the system will return to the "Region Management" screen.

**NOTE:** A region cannot be deleted while a sub-region is still linked to it.

#### 4.4 Sub-Region Management

On the main menu click on the "Settings" tab then click on the "Sub-Region" function. The table in Figure 4.4(a) will be displayed.

| Sub Region Mana | agement       |      |        |
|-----------------|---------------|------|--------|
| Sub Region Name | Region Name   |      |        |
| Garden Grove    | North OC 1    | Edit | Delete |
| Playground      | Sales Sandbox | Edit | Delete |
| Pre-Set Systems | Sales Demo    | Edit | Delete |
| Santa Ana       | North OC 1    | Edit | Delete |
| Seal Beach      | North OC 1    | Edit | Delete |
| Westminster     | North OC 1    | Edit | Delete |

Figure 4.4(a)

#### 4.4.1 Adding Sub-Regions

Click on the "Create New Sub-Region" button. The table in Figure 4.4.1(a) will be displayed. Enter the Sub-Region Name and Description in the boxes and click on the "Create" button. Click on the "Cancel" button any time to cancel adding a sub-region.

|   |            | Cancel                                | Create    |
|---|------------|---------------------------------------|-----------|
| • | North OC 1 | ame:                                  | Region Na |
|   |            | on Name *:                            | Sub Regio |
|   |            | on Description:                       | Sub Regio |
|   | North OC 1 | ame:<br>on Name *:<br>on Description: | Sub Regio |

#### Figure 4.4.1(a)

#### 4.4.2 Viewing or Editing Regions

To view or edit existing sub-region information click on the "Edit" function next to the sub-region's name. The same table as adding a sub-region will appear except some of the fields will already be filled with information. Add or modify the sub-region information. Once all information has been entered click on the "Update" button to save the information.

#### 4.4.3 Deleting Sub-Regions

To delete a sub-region from the system click on the "Delete" function next to the sub-region's name. The screen in Figure 4.4.3(a) will be displayed.

Click on the "Delete" button to remove the sub-region or click on the "Cancel" button to cancel the command. After deleting the sub-region the system will return to the "Sub-Region Management" screen.



#### Figure 4.4.3(a)

NOTE: A sub-region cannot be deleted while a location is still linked to it.

## 4.5 Managing Device Types

For each location devices can be added. These devices are used for asset management, device configurations and to stream video.

On the main menu click on the "Manage" tab then click on the "Add/Edit Device Template" function. The Device Template screen, see Figure 4.5(a), will be displayed. All current Device Types will be listed.

| Device Template          | )                     |      |        |
|--------------------------|-----------------------|------|--------|
| Search by Device Type ID |                       | Se   | earch  |
| Device Type ID           | Device Type Name      |      |        |
| ACE88                    | 88 No Video Device    | Edit | Delete |
| Advanced Color Camera    | RZ4A                  | Edit | Delete |
| Area 51                  | Area 51 - Zone 6      | Edit | Delete |
| Color Camera             | RZ4C                  | Edit | Delete |
| Device1                  | RZ4C                  | Edit | Delete |
| District 17              | District 17 - SW      | Edit | Delete |
| EA2000                   | EA2000                | Edit | Delete |
| EC SP5                   | EdgeConnect           | Edit | Delete |
| Processor 1 Channel      | Edge 2-1              | Edit | Delete |
| Processor 2 Channel      | Edge 2-2              | Edit | Delete |
| Processor 4 Channel      | Edge 2-4              | Edit | Delete |
| SonyCam                  | Sony Network CAM 2000 | Edit | Delete |
| Video Server             | EdgeConnect           | Edit | Delete |

#### Figure 4.5(a)

#### 4.5.1 Device Templates

There are four device types which can be selected in the system. Each has a particular function

EdgeConnect – Vantage EdgeConnect is a remote video server it streams video in MPEG-4 or H.264 format using QuickTime player. The system uses this information to launch the embedded web server for module configuration.

eAccess –Vantage eAccess is a remote video server it streams video in MPEG-2 format using VLC media player. The system uses this information to launch the embedded web server for module configuration.

Video Device – A video device is an Iteris camera connected to a Vantage Edge processor. The system uses this information to launch VRAS software for module configuration. The Video Device can be linked to either the Edge2 processor or the camera. Whichever device is not chosen can be listed as an "Other" type for complete asset management.

Other – All other devices at an intersection should be set to type other. No special functions occur when this type of device is set. This device type should be used for inventory of other devices at the intersection including Vantage TS2-IM, IOM32, EM2, EM4, Edge2 processors, RZ4C and RZ4 Advanced.

## 4.5.2 Adding Device Templates

Click on the "Create New Device Type" button. The table in Figure 4.5.2(a) will be displayed. Enter the Device Type ID, Device Type Name and Manufacturers Name. From the drop down box select the Type. Once all the information has been entered click on the "Create" button. Click on the "Cancel" button any time to cancel adding a Device Type.

| Device Type ID:   |                    |             |
|-------------------|--------------------|-------------|
| Device Type Name: |                    |             |
| Manufacturer Name | :                  |             |
| Type:             | Other 💌            |             |
| Device Icon:      |                    | Browse      |
|                   | (GIF and JPG files | only)       |
| Icon Preview:     | Upload Icon        | Delete Icon |
| Event Icon:       |                    | Browse      |
|                   | (GIF and JPG files | only)       |
|                   | Upload Icon        | Delete Icon |



There are three 'special' device types hard coded into the system. These are 'Camera', 'eAccess' and 'EdgeConnect'. Other device types can be specified by the user. The 'special' devices are used by the system to pass the correct information automatically to allow Edge processor configuration and video streaming.

**Note:** Selecting the wrong device type may cause incorrect operation of the system for streaming video and configuring devices.

### 4.5.3 Viewing or Editing Device Templates

To view or edit existing Device Template information click on the "Edit" function next to the Device Type's name. The same table as adding a Device Type will appear except some of the fields will already be filled with information. Add or modify the Device Type information. Once all information has been entered click on the "Update" button to save the information.

## 5 User Functions

## 5.1 Map Defaults

For each user a default map setting can be programmed. On the main menu click on the "Settings" tab then click on the "Map Defaults" function. The screen in Figure 5.1(a) will be displayed.



### Figure 5.1(a)

Enter a Zip code in the box and click on the "Go" button. The map will display the new location. Adjust the zoom level using the "+" and "-" buttons. Adjust the map type by clicking on the "Road", "Aerial" or "Hybrid" buttons. Once you have determined the ideal view click on the "Save as Default" button. The message "Setting Updated" will appear next to the "Save as Default" button.

The table at the button of the screen will give details of the map default.

Latitude and Longitude: The data for the default setting is displayed.

Zoom level: From 1 to 19. 1 is a world map. 19 is at xx' level.

View Type: "r" for Road, "a" for Aerial or "h" for Hybrid

#### 5.2 **General Settings – VRAS location**

To fully utilize the configuration options of devices connected to the network using the EdgeConnect video server Vantage Remote Access Software (VRAS) needs to be installed on your local machine. Please follow the instructions provided with the VRAS software for correct installation.

Once installed the location of VRAS needs to be given to the VantageView software. In the Settings menu click on the General Settings function. The following screen, see Figure 5.2(a) will be displayed. Either type the location of the VRAS software in the box or use the "Browse..." button to locate the software.

Note: the location of the VRAS software is stored on a per session basis. It is necessary to set the location of VRAS every time a VantageView is started.



| Choose file  |   |
|--|---|
| Look in: 🗁 VRAS 🔽 🔶 🖆 🏢 -  | Locate the vras.exe file on your local p  |
| Wr Recent       313b       Vras_support.dll         Wr Recent       Stemp.tmp       Vras_support.dll         Documents       Vras.fg       X8675309.tmp         Vras.fg       OTOControl.dll       SteuNST.000         SteuNST.001       SteUNST.001         SteUNST.002       SteUNST.001         SteUNST.004       SteUNST.006         SteUNST.006       SteUNST.006         SteUNST.007       SteUNST.006         SteUNST.006       SteUNST.006         SteUNST.007       SteUNST.006         SteUNST.008       SteUNST.009         SteUNST.009       SteUNST.000         SteUNST.000       SteUNST.000         SteUNST.000       SteUNST.000         SteUNST.000       SteUNST.000         SteUNST.000       SteUNST.000         SteUNST.000 | and click on the "Open" button.   |
| Pieces       Files of type:       All Files (*.*)       Cancel         Welcome to VRAS!       Please select the VRAS Application (VRAS.exe) on your local machine:       Over the VRAS Application (VRAS.exe) on your local machine:   | Figure 5.2(b)<br>The location of the software will<br>appear in the box. Click on the "OK"<br>button. |
| C:\Program Files\Iteris, Inc Browse OK   | Figure 5.2(c)   |

The system is now ready to configure Edge processors remotely.

| Welcome to VRAS!  |
|---|
| Please select the VRAS Application (VRAS.exe) on your local machine |
| Click here to launch VRAS   |

This message will appear when requesting configuration of an Edge processor. Click on the message and the system will launch VRAS in a new window and access the Edge processor selected.

Figure 5.2(d)

Figure 5.2(e)

This message may appear before VRAS launches. This is a security warning from IE. Click on the "Yes" button to continue.

| Internet E | xplorer  | × |
|------------|--|---|
| ß          | An ActiveX control on this page might be unsafe to interact with other parts of the page. Do you want to allow this interaction? |   |
|            | Yes No   |   |

Processor Firmware Revision

Application version 02.01.13SP5

Comm. Module Application version 02.01.13SP5 Connected to Port: RJ45-2 Detection Status

Video

Zone Setup

Retrieve MOE Data

If everything has been set up correctly this screen will appear. Full VRAS functionality is available to set, edit and down load from the selected device.

| Glare Status<br>Not Applicable | Video Lock Dutput Assignment<br>Not Applicable | Exit |
|--------------------------------|--|------|
|                                | Options  |      |
|                                | Video Format                                   |      |
|                                | Sensitivity Settings<br>Not Applicable         |      |
|                                | Refresh  |      |

Processor Status Unknown

Iteris Vantage Remote Access System

Iteris Vantage Remote Access System

Received Clock Setting Time 04-29-2009,11:15:39,DS

Hardware Configuration

Vantage Edge

neral Statu

- Unit ID -

LC Status Unknown

0000

Site Description

Figure 5.2(f)

## 5.3 General, Views and Navigation

## 5.3.1 Menus

Access to the various functions of the system is provided through the menus on the left side of the screen. Clicking on each of the headings will expand the menu and display the options. It is possible to hide the menu tree by clicking on the "Hide Menu" tab at the side of the menu structure. This allows for optimization of the viewing area. If the menu is hidden the extra screen space is used to expand the global map view

- Monitor
  - **Default View** Clicking on this will return the display to the preferred map display setup under the 'Map Defaults' setting. See section 5.1.
  - **Dashboard View** This will take the user to the dashboard view of the device selected from the device tree. See section 3.3.
- Manage
  - Add/Edit Device Settings Creation or modification of devices is performed in this menu. See section 5.5.3.
  - Add/Edit Device Template Creation or editing of static device information is performed in this menu. See section 4.5.
  - Configure Device This function allows the user to setup and configure the selected device. Depending on the device type the system may launch VRAS or the embedded Web Server of the device. See section 5.6.
  - Add/Edit Maintenance This function allows for the registration and modification of devices for maintenance. See section 6.1.
  - View Events Log This function displays all current open maintenance issues. See section 6.2.
  - **Location** Setup and modification of device locations are performed in this menu. See section 5.4.
- Settings
  - **Map Defaults** This function allows the user to setup their preferred map display when the software is first launched or when the default view is selected. See section 5.1.
  - User Setup This function allows for the setup or modification of users. See section 4.1.
  - **General Settings** Location of VRAS software for device setup is determined in this menu. See section 5.2.
  - Region Setup and modification of device regions is performed in this menu. See section 4.3.
  - **Sub Region** Setup and modification of device sub-regions is performed in this menu. See section 4.4.

## 5.3.2 Device Tree

The device tree is a expandable/collapsible menu of all the devices available. It is structured by Region, Sub-Region and Location. The tree can be expanded by clicking on the left pointing caret " $\blacktriangleright$ " and collapsed by clicking on the down pointing caret " $\blacktriangledown$ " arrow.

Once the tree has been expanded to display a device, the device can be selected and the dashboard view will change to the selected devices data.

#### 5.3.3 Dashboard

The 'Dashboard View' concentrates the display on a particular device. After selecting a device from the device tree, select 'Dashboard View' from the Monitor menu or click on the VantageView title at the top of the screen. The screen in Figure 5.3.3(a) will be displayed.



#### Figure 5.3.3(a)

The center of the screen will display a Global Map with the selected device/Location at the center. Other Locations/Intersections in the vicinity will be displayed. The icon for the selected Location will be

highlighted with four red arrows and will be larger than the surrounding icons,

🛡 and 🗲.

Beneath the Global Map is a table of the Global Event Log. This table is dynamic and will update automatically if new maintenance data for any device in the network is trigged. The selected device name is displayed in the upper right hand corner. Below is an aerial view of the device/intersection location. In the center right of the screen a stream of video will be displayed if the selected device is a camera and the system has been setup to provide video feeds. In the bottom right of the screen is a maintenance log of the last x entries for the selected device.

It is possible to move the map to a new location by clicking and holding the left mouse button and 'dragging' the map to the desired location.

Note: If no device has been selected the current map view will be displayed.

### 5.3.4 Map Functionality - Device Management

Placing the cursor over a location or intersection icon on the map will cause a window to be displayed, see Figure 5.3.4(a).

| -North OC 1<br>Santa Ana<br><b>1st and M</b> a | ain               |         |
|--|-------------------|---------|
| Device Type                                    | Device ID         | Status  |
| EdgeConnect                                    | Mike EC1          | EventOn |
| RZ4A   | Mike RZ4A 1       | EventOn |
| RZ4A   | Mike RZ4A 2       | EventOn |
| RZ4C   | Mike RZ4C 3       | NoEvent |
| RZ4C   | Mike RZ4C 4       | EventOn |
| Add Device to                                  | this Intersection | on      |

Figure 5.3.4(a)

At the top of the window the Region preceded by - will be displayed, below that is the Sub Region preceded by --and below then the Location preceded by --- and highlighted in bold type. The table in the center of the box lists all the devices at that Location with their Device ID and Status. The status relates to maintenance, see section 6. At the bottom of the window is a link to add a device. Move the cursor over the link and it will turn black. Click on the mouse and you will be requested to add a device. See section 5.5.2 for more details.

The Device ID is underlined similar to a hyperlink. Moving the cursor over the Device ID will change it's color from blue to black. Click on the link and a new window will be displayed, see Figure 5.3.4(b). See sections 5.5.3, 5.6 and 6.2 for more details on these functions.



### 5.3.5 Device specific information

The column on the right of the screen displays information specific to the device selected, see Figure 5.3.5(a). The name of the device is displayed at the top followed by an aerial view of the location. If the selected device is a video device and is connected to an EdgeConnect module the device video window will show the QuickTime Q. Otherwise it will remain blank. At the bottom of the column is maintenance information for the selected device. If the device has not been registered in the system the message "Maintenance log not found" will be displayed.



Figure 5.3.5(a)

#### 5.3.6 Notes on viewing video

The system has been optimized for use with the EdgeConnect module. To view a video stream from this device QuickTime player has to be installed on your PC. To view the video stream click on the play button in the QuickTime window.

Streaming video from an eAccess device will open in a new window.

**Note:** Some firewalls block or restrict the ports used by QuickTime to stream video. Please contact your IT department to ensure these ports are open.

#### 5.3.7 Global Information

Center bottom of the screen displays a table of recent maintenance events for all units in the system, see Figure 5.3.7(a). The table is restricted to the last five events.

|            |                 | GLOBAL EVEN                          | IT LOG                                      |      |
|------------|-----------------|--------------------------------------|---|------|
| Event Date | Device ID       | Description                          | Comments                                    |      |
| 4/15/2009  | RZ1001          | Maintenance Required<br>on 8/1/2009  |   | Edit |
| 6/18/2009  | Mike RZ4C       | Maintenance Required<br>on 6/19/2009 | Maintenance performed<br>Todd Kreter (todd) | Edit |
| 6/26/2009  | Mike RZ4A<br>1  | Maintenance Required<br>on 6/20/2009 |   | Edit |
| 6/26/2009  | Device<br>34699 | Maintenance Required<br>on 6/20/2009 |   | Edit |
| 6/26/2009  | Mike RZ4A<br>2  | Maintenance Required<br>on 6/18/2009 |   | Edit |

#### Figure 5.3.7(a)

Click on the "Edit" link for any of the devices to review the data for that event. The Event Log will be displayed, see Figure 5.3.7(b). Comments or resolution can be added to the data by clicking on one of the links. For more information on maintenance see section 6.

| Event Log      | <u>js</u> |            |             |            |             |                    |  |
|----------------|-----------|------------|-------------|------------|-------------|--------------------|--|
| learch by Devi | ce D 💌    |            | Search      |            |             |                    |  |
|                | Show      | Resolved 🗖 |             |            |             |                    |  |
| Event Date     | Device ID | E-Mailed   | Description | Resolution | Resolved By | Resolution<br>Date |  |
|                |           |            |             |            |             |                    |  |

#### Figure 5.3.7(b)

To view all outstanding maintenance events click on the "View Events Log" link in the Manage menu, then click on the "Search" button. All open events will be listed.

## 5.4 Managing Locations

In the device tree hierarchy a device must be associated with a location. There are two types of location; an intersection or a general location. A general location may be a mid-block, school crossing or other special installation. Normally an intersection will have multiple video devices and a location a single video device. After creation the map will display an  $\Leftrightarrow$  icon to show an intersection and an  $\bigcirc$  icon to show a location.

### 5.4.1 Creating a Location

Locations are created on the Map View. Move the map to the desired location and right click the mouse where the equipment is installed. A box will be displayed with the following options, see Figure 5.4.1(a); Add Intersection Here or Add Location.



### Figure 5.4.1(a)

Click on one of the choices and one of the following tables will be displayed.

| Add Int          | ersection                                 |
|------------------|---|
| Intersection Nan | ne la |
| Sub Region       | Pre-Set Systems                           |
| Cancel           | ок  |

| Location Name Sub Region Pre-Set Systems Cancel OK | Add L        | ocation           |
|--|--------------|-------------------|
| Sub Region Pre-Set Systems                         | Location Nam | e                 |
| Cancel OK  | Sub Region   | Pre-Set Systems 💌 |
|  | Cancel       | ок                |





### 5.4.2 Location Management

It is possible to change location information after it has been created on the map. To view or edit existing Location information click on the main menu click on the "Manage" tab then click on the "Location" function. The Location Management screen, see Figure 5.4.2(a), will be displayed. All current Locations will be listed.

| Location Ma          | nageme             | nt                 |              |                    |
|----------------------|--------------------|--------------------|--------------|--------------------|
| Location Name        | Region             | Sub Region         | Туре         |                    |
| 1st and Main         | North OC 1         | Santa Ana          | Intersection | Edit Delete        |
| Antonio and SMP      | North OC 1         | Santa Ana          | Intersection | Edit Delete        |
| Arapahoe/Quebec      | West<br>Centennial | Foxridge           | Intersection | Edit Delete        |
| Beach and<br>Edinger |                    |                    | Intersection | Edit Delete        |
| blah / blahh         | Region 3           | Sub Region<br>88   | Intersection | Edit Delete        |
| here and there       | Tech #2            | Mayor's<br>commute | Intersection | Edit Delete        |
| Int144               | Region 55          | Northwood          | Intersection | Edit Delete        |
| intersection 1       | Region 2           | Sub Region<br>22   | Intersection | Edit Delete        |
| Lincoln & Pico       | Tech #2            | Mayor's<br>commute | Intersection | Edit Delete        |
| Location 64          | Region 3           | Sub Region<br>88   | Location     | Edit Delete        |
| Location3488         | Region 55          | Northwood          | Location     | Edit Delete        |
| Location77           | Region 2           | Sub Region<br>22   | Location     | Edit Delete        |
| Location8            | Region 2           | Sub Region<br>22   | Location     | <u>Edit Delete</u> |
| Location8722         | Region 55          | Northwood          | Location     | Edit Delete        |

Figure 5.4.2(a)

### 5.4.3 Viewing or Editing Locations

To view or edit existing Location information click on the "Edit" function next to the Location's name. The table in Figure 5.4.3(a) will appear, most fields will already contain information. The Latitude and Longitude information is greyed out and cannot be changed. Add or modify the Location information. Once all information has been entered click on the "Update" button to save the information.

| Update Cancel       |                     |
|---------------------|---------------------|
| Location Name *:    | 1st and Main        |
| Type:               | Intersection 💌      |
| Region:             | North OC 1          |
| Sub Region:         | Santa Ana 💌         |
| Longitude:          | -117.86741673946383 |
| Latitude:           | 33.74551220595782   |
| Region Description: |                     |

#### 5.5 Managing Devices

A list of existing devices in the system can be viewed by selecting the "Add/Edit Device Settings" link in the Manage menu, see Figure 5.5(a).



#### Figure 5.5(a)

#### 5.5.1 Device Types

For each location devices can be added. These devices are used for asset management, device configurations and to stream video.

There are four device types which can be selected in the system. Each has a particular function

EdgeConnect – Vantage EdgeConnect is a remote video server it streams video in MPEG-4 or H.264 format using QuickTime player. The system uses this information to launch the embedded web server for module configuration.

eAccess –Vantage eAccess is a remote video server it streams video in MPEG-2 format using VLC media player. The system uses this information to launch the embedded web server for module configuration.

Video Device – A video device is an Iteris camera connected to a Vantage Edge processor. The system uses this information to launch VRAS software for module configuration. The Video Device can be linked to either the Edge2 processor or the camera. Whichever device is not chosen can be listed as an "Other" type for complete asset management.

Other – All other devices at an intersection should be set to type other. No special functions occur when this type of device is set. This device type should be used for inventory of other devices at the intersection including Vantage TS2-IM, IOM32, EM2, EM4, Edge2 processors, RZ4C and RZ4 Advanced.

An Admin level user will set up device type for the system. Refer to Section 4.5 for more details.

#### 5.5.2 Adding Devices

Devices can be added in two ways, from the map view or through the device management screen. On the map, position the cursor over the location that the device will be added to. A window will be displayed containing the current information for that location, see Figure 5.5.2(a).

| -North OC 1<br>Santa Ana<br><b>RSM 2</b> |               |         | - |
|--|---------------|---------|---|
| Device Type                              | Device ID     | Status  |   |
| Edge 2-1                                 | RSM Cam 2     | NoEvent |   |
| Add Device to                            | this Location | L       |   |
|  |               |         |   |



Click on the "Add Device..." link and the window in Figure 5.5.2(b) will be displayed. Enter a Device ID in the box and select a Device Type from the drop down box. Click on "OK" once the information has been entered.

| Add D       | evice |
|-------------|-------|
| Device ID   |       |
| Device Type | RZ4A  |
| Cancel      | ок    |

#### Figure 5.5.2(b)

Two messages will appear on the screen first "Creating Device" then "Redirecting", see Figure 5.5.2(c). The screen will then display the Device Management screen, see Figure 5.5.3(a). Enter data for the new device and click on the "Update" button. See the section 5.5.3 "Editing Device Settings" for more information.



#### 5.5.3 Editing Device Settings

The Device Management screen displays a list of current devices with their Device Type and Location, see Figure 5.5.3(a). Device settings are listed in the table on the right of the screen. Enter the information required, see Figure 5.5.3(b) for more details on each entry. When finished click on the "Update" button to store the changes.

| Device IDDevice TypeLocationcolor CameraRZ4APCH and NewportEditDeletelemo eAccesseAccessPCH and NewportEditDeletelemo ECEdgeConnectSanta Ana DemoEditDeletelemo Edge 2-11Edge 2-11Santa Ana DemoEditDeletelemo Edge 2-12Edge 2-11Santa Ana DemoEditDeletelemo Edge 2-13Edge 2-1Santa Ana DemoEditDeletelemo Edge 2-14Edge 2-1Santa Ana DemoEditDeletelemo Edge 2-24Edge 2-4PCH and JamboreeEditDeletelike EC1EdgeConnect1st and MainEditDeletelike RZ4A 1RZ4A1st and MainEditDeletelike RZ4C 3RZ4C1st and MainEditDeletelike RZ4C 4RZ4C1st and MainEditDelete   | Device ID:<br>Device Type:<br>Device Location:<br>Device IP ( <i>Port optional, e.g. 192,168,1,1:9999</i> );<br>Unit ID:<br>Port Number:<br>Camera Number:<br>Street 1:<br>Street 2:<br>City: | Mike RZ4A 1<br>RZ4A   Ist and Main  192.168.30.150  0000  1  1  1  1  1  1  1  1   |
|---|---|--|
| Color CameraRZ4APCH and NewportEditDeleteDemo eAccesseAccessPCH and NewportEditDeleteDemo ECEdgeConnectSanta Ana DemoEditDeleteDemo Edge 2-11Edge 2-11Santa Ana DemoEditDeleteDemo Edge 2-12Edge 2-11Santa Ana DemoEditDeleteDemo Edge 2-13Edge 2-11Santa Ana DemoEditDeleteDemo Edge 2-14Edge 2-11Santa Ana DemoEditDeleteDemo Edge 2-14Edge 2-11Santa Ana DemoEditDeleteDemo Edge 2-44Edge 2-12Santa Ana DemoEditDeleteDemo Edge 2-44Edge 2-44PCH and JamboreeEditDeleteMike EC1EdgeConnect1st and MainEditDeleteMike RZ4A 1RZ4A1st and MainEditDeleteMike RZ4A 2RZ4A1st and MainEditDeleteMike RZ4C 3RZ4C1st and MainEditDeleteMike RZ4C 4RZ4C1st and MainEditDelete | Device Type:<br>Device Location:<br>Device IP ( <i>Port optional. e.g 192.168.1.1:9999</i> ):<br>Unit ID:<br>Port Number:<br>Camera Number:<br>Street 1:<br>Street 2:<br>City:                | RZ4A         Image: Constraint of the second se |
| Demo eAccesseAccessPCH and NewportEdit DeleteDemo ECEdgeConnectSanta Ana DemoEdit DeleteDemo Edge 2-11Edge 2-1Santa Ana DemoEdit DeleteDemo Edge 2-12Edge 2-1Santa Ana DemoEdit DeleteDemo Edge 2-13Edge 2-1Santa Ana DemoEdit DeleteDemo Edge 2-14Edge 2-1Santa Ana DemoEdit DeleteDemo Edge 2-14Edge 2-1Santa Ana DemoEdit DeleteDemo Edge 2-14Edge 2-1Santa Ana DemoEdit DeleteDemo Edge 2-4Edge 2-4PCH and JamboreeEdit DeleteMike EC1EdgeConnect1st and MainEdit DeleteMike RZ4A 1RZ4A1st and MainEdit DeleteMike RZ4C 3RZ4C1st and MainEdit DeleteMike RZ4C 4RZ4C1st and MainEdit Delete  | Device Location:<br>Device IP ( <i>Port optional. e.g 192.168.1.1.9999</i> ):<br>Unit ID:<br>Port Number:<br>Camera Number:<br>Street 1:<br>Street 2:<br>City:                                | 1st and Main           192.168.30.150           00000           1           1           1           1st  |
| Demo ECEdgeConnectSanta Ana DemoEditDeleteDemo Edge 2-11Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-12Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-13Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-14Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-14Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-4Edge 2-4PCH and JamboreeEditDeleteMike RC1EdgeConnect1st and MainEditDeleteMike RZ4A 1RZ4A1st and MainEditDeleteMike RZ4A 2RZ4A1st and MainEditDeleteMike RZ4C 3RZ4C1st and MainEditDeleteMike RZ4C 4RZ4C1st and MainEditDelete  | Device IP ( <i>Port optional. e.g.</i> 192.168.1.1:9999):<br>Unit ID:<br>Port Number:<br>Camera Number:<br>Street 1:<br>Street 2:<br>City:  | 192.168.30.150<br>0000<br>1 •<br>1 •   |
| Demo Edge 2-11Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-12Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-13Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-14Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-4Edge 2-4PCH and JamboreeEditDeleteDemo Edge 2-4Edge 2-40PCH and JamboreeEditDeleteDike EC1EdgeConnect1st and MainEditDeleteItike RZ4A 1RZ4A1st and MainEditDeleteItike RZ4C 3RZ4C1st and MainEditDeleteItike RZ4C 4RZ4C1st and MainEditDelete  | Device IP (Port optional, e.g 192,168,1,1:9999)<br>Unit ID:<br>Port Number:<br>Camera Number:<br>Street 1:<br>Street 2:<br>City:  | 192.168.30.150<br>00000<br>1 •<br>1 •<br>1st   |
| Demo Edge 2-12Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-13Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-14Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-4Edge 2-4PCH and JamboreeEditDeleteDemo Edge 2-4Edge Connect1st and MainEditDeleteMike RZ4A 1RZ4A1st and MainEditDeleteMike RZ4C 3RZ4C1st and MainEditDeleteMike RZ4C 4RZ4C1st and MainEditDelete   | Unit ID:<br>Port Number:<br>Camera Number:<br>Street 1:<br>Street 2:<br>City:   | 0000<br>1  |
| Demo Edge 2-13Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-14Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-4Edge 2-4PCH and JamboreeEditDeleteNike EC1EdgeConnect1st and MainEditDeleteNike RZ4A 1RZ4A1st and MainEditDeleteNike RZ4A 2RZ4A1st and MainEditDeleteNike RZ4C 3RZ4C1st and MainEditDeleteNike RZ4C 4RZ4C1st and MainEditDelete  | Port Number:<br>Camera Number:<br>Street 1:<br>Street 2:<br>City:   | 1 •<br>1 •<br>1st  |
| Demo Edge 2-14Edge 2-1Santa Ana DemoEditDeleteDemo Edge 2-4Edge 2-4PCH and JamboreeEditDeleteMike EC1EdgeConnect1st and MainEditDeleteMike RZ4A 1RZ4A1st and MainEditDeleteMike RZ4A 2RZ4A1st and MainEditDeleteMike RZ4C 3RZ4C1st and MainEditDeleteMike RZ4C 4RZ4C1st and MainEditDelete  | Camera Number:<br>Street 1:<br>Street 2:<br>City:   | 1 •<br>1st   |
| Demo Edge 2-4Edge 2-4PCH and JamboreeEdit DeleteNke EC1EdgeConnect1st and MainEditDeleteNke RZ4A 1RZ4A1st and MainEditDeleteNke RZ4A 2RZ4A1st and MainEditDeleteNke RZ4C 3RZ4C1st and MainEditDeleteNke RZ4C 4RZ4C1st and MainEditDeleteNke RZ4C 4RZ4C1st and MainEditDelete  | Camera Number:<br>Street 1:<br>Street 2:<br>City:   | 1 💌<br>1st   |
| Alike EC1       EdgeConnect       1st and Main       Edit       Delete         Nike RZ4A 1       RZ4A       1st and Main       Edit       Delete         Iike RZ4A 2       RZ4A       1st and Main       Edit       Delete         Iike RZ4C 3       RZ4C       1st and Main       Edit       Delete         Iike RZ4C 4       RZ4C       1st and Main       Edit       Delete         Iike RZ4C 4       RZ4C       1st and Main       Edit       Delete  | Street 1:<br>Street 2:<br>City:   | 1st  |
| Alike RZ4A 1     RZ4A     1st and Main     Edit     Delete       Alike RZ4A 2     RZ4A     1st and Main     Edit     Delete       Alike RZ4C 3     RZ4C     1st and Main     Edit     Delete       Alike RZ4C 4     RZ4C     1st and Main     Edit     Delete       Alike RZ4C 4     RZ4C     1st and Main     Edit     Delete  | Street 2:<br>City:  |  |
| Mike RZ4A 2     RZ4A     1st and Main     Edit     Delete       Mike RZ4C 3     RZ4C     1st and Main     Edit     Delete       Mike RZ4C 4     RZ4C     1st and Main     Edit     Delete   | sweet ∠:<br>City:   | 10-1-  |
| Mike RZ4C 3 RZ4C 1st and Main Edit Delete<br>Mike RZ4C 4 RZ4C 1st and Main Edit Delete  | City:   | Main   |
| Mike RZ4C 4 RZ4C 1st and Main Edit Delete   |   | Orange   |
|   | Latitude:   | 33.74551220595782  |
|   | Longitude:  | -117.86741673946383  |
|   | Video URL:  | rtsp://192.168.30.150/d  |
|   | Description:  |  |
|   | Serial:   | C008038402432  |
|   | Direction.  | west   |
| ,   | Enabled:  |  |
|   | Device Icon:  | (GIF and JPG files onli  |
|   | con Preview:  | Upload Icon  |
| 1   | Event Icon:   |  |
|   | Event Preview:  | (GIF and JPG files only<br>Upload Icon   |

Figure 5.5.3(a)

| Function         | Description  |
|------------------|--|
| Device ID        | This is a unique ID to identify the device to the system. The system will display the selected device in this box.   |
| Device Type      | Select the device type from the drop down box. It is important to select the correct device type. See section xx for more information.   |
| Device Location  | This is automatically taken from the setup location/intersection information. If the device was applied to the wrong location use the drop down box to select a different location for the device.   |
| Device IP        | Enter the IP address where the device is located. This information is used to correctly launch VRAS for device configuration. For an Edge Processor connected to an eAccess module the Device IP should be set to the IP address of the eAccess. |
| Unit ID          | Enter the unit id for the device. This information is used to correctly launch VRAS for device configuration.  |
| Port Number      | If the device is connected to a video server select the EXT MOD port number from the drop down box. This information is used to correctly launch VRAS for device configuration.  |
| Camera Number    | For a single Edge processor select 1 from the drop down box. For a dual or quad Edge processor select the appropriate camera number from the drop down box. This information is used to correctly launch VRAS for device configuration.          |
| Street 1/Street2 | Enter the names of the cross streets in these boxes.   |
| City             | This is automatically taken from the map when the location/intersection was created.   |
| Latitude         | This is automatically taken from the map when the location/intersection was created.   |
| Longitude        | This is automatically taken from the map when the location/intersection was created.   |
| Video URL        | If the device is connected to a video server enter the URL (Web Address) for the stream here. See section 5.3.7 for more information.  |
| Description      | This is an optional text box where extra device information can be stored.   |
| Serial           | Enter the serial number of the device in this box.   |
| Direction        | Select the direction of traffic flow, North, South, East or West from the drop down box.   |
| Enabled          |  |
| Device Icon      |  |
| Event Icon       |  |

Figure 5.5.3(b)

### 5.5.4 Viewing or Editing Devices

To view or edit existing Device information click on the "Edit" function next to the Device's name. The table in Figure 5.5.3(a) will be displayed, most fields will already contain information. Add or modify the Device information. Once all information has been entered click on the "Update" button to save the information.

#### 5.5.5 Deleting Devices

To delete a device from the system click on the "Delete" function next to the device's name. The following screen will appear.

| Device Management : Delete Confirmation    | n |
|--|---|
| o you really want to delete Demo Edge 2-4? |   |
| Delete Cancel                              |   |

Figure 5.5.5(a)

Click on the "Delete" button to remove the device or click on the "Cancel" button to cancel the command. After deleting the device, the system will return to the "Device Management" screen.

#### 5.5.6 Streaming Video

To receive a video stream from a device the system needs to be told the network location of that device.

#### **EdgeConnect**

For video devices connected to an EdgeConnect the format of the Video URL :

rtsp://xxx.xxx.xxx/channelz

where

xxx.xxx.xxx is the IP address of the Edge Connect

and

channelz is the channel that the video device is connected to

channel0 = port 1 channel1 = port 2 channel2 = port 3 channel3 = port 4

Refer to the EdgeConnect manual for more details on port assignments in the EdgeConnect module.

#### <u>eAccess</u>

For video devices connected to an eAccess the Video URL is left blank. To stream video from the device follow the instructions in Section 3.3.3.

## 5.6 Configuring Devices

The configure device function provides simple access to all Iteris assets for remote setup and configuration. Three types of device can be configured; EdgeConnect, eAccess and Edge Processors. Configuration of EdgeConnect and eAccess involves launching their built-in Web-Servers. Configuration of Edge Processors involves launching VRAS.

Access to device configuration can be gained two ways, either through the "Configure Device" function in the Manage menu or through the "Configure Device" on the pop up window in the map screen.

## 5.6.1 Configuring EdgeConnect

After selecting the EdgeConnect module and clicking on Configure Device a new window will open and the EdgeConnect login screen will be displayed, see Figure 5.6.1(a).

| 🜔 https://po   | rtals.dev.hostedmscrm.com/Iteris/admin/device/configuration/showConfig.aspx?dId= - Windows Internet Exp  | lorer 💶 🗆 🗙 | 1     |
|--|--|-------------|-------|
| 00-  | 🖉 https://portals.dev.hostedmscrm.com/Iteris/admin/device/configuratior 🔽 🔒 🎸 🗙   Google   | <b>₽</b> -  | )     |
| 🚖 🎄 🌔  | ) https://portals.dev.hostedmscrm.com/Iteris/admin/de  | 💮 Tools 👻 X | >     |
| Connect to<br>Connect to | r 192.168.30.150  r 192.168.30 | <u>×</u>    |       |
| Waiting for http   | //102.158.30.150/  |             |       |
| the starting too sheep   |  |             | ~ F19 |

Figure 5.6.1(a)

Enter the User Name and Password and click on the "OK" button. The EdgeConnect Welcome page will be displayed, see Figure 5.6.1(b). Refer to the EdgeConnect manual for more information on configuring the device.



#### 5.6.2 Configuring eAccess

After selecting the eAccess module and clicking on Configure Device a new window will open and the eAccess login screen will be displayed, see Figure 5.6.2(a).



Figure 5.6.2(a)

Click on the Enter button and the eAccess login screen will be displayed, see Figure 5.6.2(b). Enter the Unit ID and click on the "Login" button. The eAccess main menu will be displayed, see Figure 5.6.2(c). Refer to the eAccess manual for more information on configuring this device.

| Contage eAccess System - Login  | - Windows Internet Explorer   |             |                            |                |
|---|---|-------------|----------------------------|----------------|
| COO - @ http://192.168.30.15  | 52/pages/LOGIN.STM?EnterButton=ENTER  | Google      |                            |                |
| 😪 🍄 🌈 Vantage eAccess System  | - Login   |             | ₽ Page • () Tools • *      |                |
|   | 37 / 4 1  | ( )         |                            |                |
| Site: Description of site when  | re vantage eAccess unit is local  | ted         |                            |                |
| Enter Login   | Unit ID:  |             |                            |                |
|   | Login   |             |                            |                |
| -   | -   |             |                            |                |
|   |   |             |                            |                |
|   |   |             |                            |                |
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|   |   |             |                            |                |
|   |   |             |                            |                |
|   |   |             |                            |                |
|   |   |             |                            |                |
| Done  |   | Internet    | 🔍 100% 👻 🎢 F               | igure 5.6.2(b) |
|   |   |             |                            |                |
|   |   |             |                            |                |
| lteris, Inc Vantage eAccess Sys   | stem - Frame Page - Windows Interne   | et Explorer | <u>_0×</u>                 |                |
| Iteris, Inc Vantage eAccess Sys   | stem - Frame Page - Windows Interne<br>32/pages/LOGIN.CGI                               | et Explorer | ×□-×                       |                |
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| Vantage eAccess<br>Vantage eAccess<br>Main Menu<br>Snapshot   | Stem - Frame Page - Windows Intern<br>52/pages/LOGIN.CGI<br>ccess System - Frame Page   | et Explorer | Eage ▼ @ Tools ▼ "         |                |
| Vantage eAccess<br>Vantage eAccess<br>Main Menu<br>Snapshot<br>Streamer   | stem - Frame Page - Windows Intern<br>52/pages/LOGIN.CGI<br>ccess System - Frame Page   | et Explorer | Por<br>Page * () Tools * " |                |
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### 5.6.3 Configuring Edge Processors

**Note:** If an Edge Processor (Video Device) is connected to an eAccess module, setup and configuration is performed through the eAccess module. See section 5.6.2.

After selecting a Edge Processor (Video Device) and clicking on Configure Device the Global Map will be replaced with the screen in Figure 5.6.3(a).



Click on the "...launch VRAS" link. A IE window will open, see Figure 5.6.3(b). Click on the Yes button.



The system will launch VRAS, bypassing the opening screens and the general status screen will be displayed, see Figure 5.6.3(c). Refer to the VRAS manual for more information.

| eris Vantage Remote Access Syste  | em  |                   |
|---|---|-------------------|
| General Status  |   |                   |
| Site Description<br>Iteris Vantage Remote Access System                     | Processor Firmware Revision<br>Application version 04.01.13SP2                                  | Detection Status  |
| Unit ID Hardware Con<br>0000 Vantage Edge                                   | figuration Comm. Module<br>Application version 02.01.13SP5<br>2 · 2Ch Connected to Port: RJ45-1 | Video             |
| Received Clock Setting<br>Time 07-21-2009,10:40:00,DS                       |   | Zone Setup        |
| LC Status<br>Camera 1:Clear<br>Camera 2:Clear                               | Processor Status<br>1:CPU OK,SYNC,TRANSFER<br>2:CPU OK,SYNC,TRANSFER                            | Retrieve MOE Data |
| System:Clear<br>LC channel NONE   |   | Utilities         |
|   |   |                   |
| Glare Status<br>Camera 1:Clear<br>Camera 2:Clear<br>Glare Channel NONE,NONE | Video Lock Output Assignment<br>Vlock Channel NONE,NONE   | Exit              |
|   | Options-<br>Option 0,0  |                   |
|   | Video Format<br>NTSC  |                   |
|   | Sensitivity Settings<br>Camera Sensitivity 10,10  |                   |
|   | Refresh   |                   |
|   |   |                   |

## 6 Device Maintenance

VantageView provides a central point for setting up, configuring, editing and downloading data from any EdgeConnect, eAccess or Edge 2 processor. It can also be used to provide alerts for scheduled maintenance of assets in the field.

## 6.1 Registering Devices

Before the system can provide service alerts a device must be registered in the system. Click on the "Add/Edit Maintenance" link in the Manage menu. The Device Maintenance List, see Figure 6.1(a), will be displayed. This table contains information for all the devices currently registered in the system.

| Device Mainten       | ance List     |                 |                    |                   |                   |                |                   |              |          | _    | _      |
|----------------------|---------------|-----------------|--------------------|-------------------|-------------------|----------------|-------------------|--------------|----------|------|--------|
| Searcy by Device D 💌 |               | Search R        | egister New Device |                   |                   |                |                   |              |          |      |        |
| Device ID            | Purchase Date | Warranty Period | Warranty End Date  | Installation Date | Last Service Date | Service Period | Next Service Date | Notification | City     |      |        |
| AnEdgeConnectDevice  | 05/12/2009    | 3 months        | 05/12/2012         | 05/11/2009        | 05/09/2009        | 3 months       |                   |              | Orange   | Edit | Delet  |
| AnotherEdgeTest      | 01/01/2009    |                 |                    |                   |                   |                | 08/02/2009        | 2 days       | Orange   | Edit | Delete |
| Device 34699         | 06/01/2009    |                 |                    |                   |                   |                | 06/20/2009        | 1 days       | Orange   | Edit | Delete |
| Devid3487            | 04/21/2009    | 12 months       |                    |                   |                   |                |                   | 14 days      | Orange   | Edit | Delete |
| hhhhh                | 02/10/1979    | 3 months        |                    |                   | 02/10/2011        | 12 months      |                   | 4 days       | Orange   | Edit | Delete |
| Mike EC1             | 04/01/2009    | 12 months       | 03/31/2010         | 04/01/2009        | 05/01/2009        | 1 months       | 06/21/2009        | 1 days       | Orange   | Edit | Delete |
| Mike RZ4A 1          | 04/01/2009    | 36 months       | 03/31/2012         | 05/01/2009        | 04/01/2009        | 1 months       | 06/20/2009        | 1 days       | Orange   | Edit | Delete |
| Mike RZ4A 2          | 04/01/2009    | 36 months       | 03/31/2012         | 04/01/2009        | 05/01/2009        | 12 months      | 06/18/2009        | 1 days       | Orange   | Edit | Delete |
| Mike RZ4C 3          | 06/01/2009    |                 |                    |                   |                   |                | 06/22/2009        |              | Orange   | Edit | Delete |
| Mike RZ4C 4          | 06/01/2009    |                 |                    |                   |                   |                | 06/19/2009        | 1 days       | Orange   | Edit | Delete |
| RZ1001               | 01/01/2009    | 60 months       | 01/01/2014         | 02/01/2009        | 01/01/2009        | 6 months       | 08/01/2009        | 150 days     | Arapahoe | Edit | Delete |

#### Figure 6.1(a)

#### 6.1.1 Registering New Devices

To register a new device click on the "Register New Device" button. The table in Figure 6.1.1(a) will appear. Enter the data and click on the "Register Device" button, see Figure 6.1.1(b) for more information on each of the fields in the table.

| Device ID:            | RSM Cam 1   | • |
|-----------------------|-------------|---|
| Device Type:          | RZ4C        |   |
| Manufacturer:         |             |   |
| Purchase Date:        | mm-dd-yyyy  |   |
| Warranty Period:      | # of months |   |
| Warranty End Date:    | mm-dd-yyyy  |   |
| Installation Date:    | mm-dd-yyyy  |   |
| Last Service Date:    | mm-dd-yyyy  |   |
| Service Period:       | # of months |   |
| Next Service Date:    | mm-dd-yyyy  |   |
| Service Notification: | # of days   |   |
| Support Name:         |             |   |
| Support Number:       |             |   |
| Mail List:            |             | * |
|                       |             | ¥ |

Figure 6.1.1(a)

| Function          | Description  |
|-------------------|--|
|                   |  |
| Device ID         | This is a drop down box. Click on the caret next to the box and a list of all                |
|                   | unregistered devices will be displayed. Click on the device you wish to register.            |
| Device Type       | This box will display the Device Type of the chosen device. It is grayed out and             |
|                   | cannot be changed from this screen. See section x.x in you need to change the device type.   |
|                   | Enter the second of the second factories of the device                                       |
| Manufacturer      | Enter the name of the manufacturer of the device.  |
| Purchase Date     | Enter the purchase date of the device.   |
| Warranty Period   | Enter the warranty period of the device in months.   |
| Warranty End      | Enter the end date of the warranty period.   |
| Date              |  |
| Installation Date | Enter the date the device was installed in the field.  |
| Last Service Date | Enter the date the device was last serviced.   |
| Service Period    | Enter the time between services in months.   |
| Next Service Date | Enter the date of the next scheduled service.  |
| Service           | Enter the number of days advanced noticed required before service. This number is            |
| Notification      | subtracted from the Next Service Date to determine when a service notification will be sent. |
| Support Name      | Enter the name of the responsible technician.  |
| Support Number    | Enter the contact number of the responsible technician.                                      |
| Mail List         | Enter the email addresses of all staff who need to receive notification of service.          |

### Figure 6.1.1(b)

### 6.1.2 Viewing or Editing Devices in the Register

To view or edit existing Device registration information click on the "Edit" function next to the Device's name. The table in Figure 6.1.1(a) will be displayed, most fields will already contain information. Add or modify the Device registration information. Once all information has been entered click on the "Update Device" button to save the information.

#### 6.1.3 Deleting Devices from the Register

To delete a device from the register click on the "Delete" function next to the device's name. The following screen will appear.

## 6.2 Events Log

The Events Log, see Figure 6.2(a), contains a list of all devices currently due for maintenance.

| Event Lo       | gs              |          |                                      |            |             |                    |                |         |
|----------------|-----------------|----------|--------------------------------------|------------|-------------|--------------------|----------------|---------|
| Search by: Dev | ice ID Show I   | Resolved | Search                               |            |             |                    |                |         |
| Event Date     | Device ID       | E-Mailed | Description                          | Resolution | Resolved By | Resolution<br>Date |                |         |
| 4/15/2009      | RZ1001          |          | Maintenance Required<br>on 8/1/2009  |            |             |                    | Comment        | Resolve |
| 6/18/2009      | Mike RZ4C       |          | Maintenance Required<br>on 6/19/2009 |            |             |                    | Comment        | Resolve |
| 6/26/2009      | Mike RZ4A<br>2  |          | Maintenance Required<br>on 6/18/2009 |            |             |                    | <u>Comment</u> | Resolve |
| 6/26/2009      | Device<br>34699 |          | Maintenance Required<br>on 6/20/2009 |            |             |                    | Comment        | Resolve |
| 6/26/2009      | Mike RZ4A       |          | Maintenance Required<br>on 6/20/2009 |            |             |                    | Comment        | Resolve |
| 6/26/2009      | Mike EC1        |          | Maintenance Required<br>on 6/21/2009 |            |             |                    | Comment        | Resolve |

#### Figure 6.2(a)

#### 6.2.1 Event Comments

Comments can be added to a maintenance notification. These comments will appear in the Global Event Log on the Dashboard view. Click on the "Comment" link and the table in Figure 6.2.1(a) will appear. Enter the comment in the box highlighted yellow and click on the "Update" button. The User Name and ID are automatically attached to the comment.

| Resolve Ever       | nt                               |
|--------------------|----------------------------------|
| Event Date:        | 4/15/2009                        |
| Device ID:         | RZ1001                           |
| Event Description: | Maintenance Required on 8/1/2009 |
|                    |                                  |
| Emailed:           | *                                |
|                    | <b>*</b>                         |
| Comments:          | <u> </u>                         |
|                    | ~                                |
| Resolution:        | <u> </u>                         |
|                    | V                                |
| Resolved By:       | ZZ TOP (Aussie)                  |
| Update Cancel      |                                  |



#### 6.2.2 Event Resolution

Once maintenance has been performed on the device, resolution should be entered. Event resolution will remove the notification from the Global Event Log on the Dashboard view. Click on the "Resolve" link and the table in Figure 6.2.2(a) will appear. Enter the resolution information in the box highlighted yellow and click on the "Update" button. The User Name and ID are automatically attached to the comment.

| Resolve Eve        | nt                               |
|--------------------|----------------------------------|
| Event Date:        | 4/15/2009                        |
| Device ID:         | RZ1001                           |
| Event Description: | Maintenance Required on 8/1/2009 |
| Emailed:           |                                  |
| Comments:          |                                  |
| Resolution:        |                                  |
| Resolved By:       | ZZ TOP (Aussie)                  |
| Update Cancel      |                                  |

Figure 6.2.2(a)

## 6.2.3 Viewing Old Event Records

A list of all events including resolved events can be obtained by checking the "Show Resolved" box on the Event Logs screen and clicking on the "Search" button. A complete list of all events will be displayed, see Figure 6.2.3(a)

| Event Lo       | gs              |           |                                      |                               |                         |            |                |          |
|----------------|-----------------|-----------|--------------------------------------|-------------------------------|-------------------------|------------|----------------|----------|
| Dev            |                 | 5         | earch                                |                               |                         |            |                |          |
| Search by: Dev | Show R          | esolved 🔽 | carci                                |                               |                         |            |                |          |
|                |                 |           |                                      |                               |                         | Desclution |                | _        |
| Event Date     | Device ID       | E-Mailed  | Description                          | Resolution                    | Resolved By             | Date       |                |          |
| 6/26/2009      | Device<br>34699 |           | Maintenance Required<br>on 6/20/2009 |                               |                         |            | Comment        | Resolve  |
| 6/26/2009      | Mike EC1        |           | Maintenance Required<br>on 6/21/2009 |                               |                         |            | Comment        | Resolve  |
| 6/26/2009      | Mike RZ4A<br>2  |           | Maintenance Required<br>on 6/18/2009 |                               |                         |            | Comment        | Resolve  |
| 6/18/2009      | Mike RZ4C<br>4  |           | Maintenance Required<br>on 6/19/2009 |                               |                         |            | Comment        | Resolve  |
| 4/15/2009      | RZ1001          |           | Maintenance Required<br>on 8/1/2009  |                               |                         |            | <u>Comment</u> | Resolve  |
| 3/13/2009      | device00x       |           | Connection failed                    |                               |                         | 3/13/2009  | Comment        | Resolved |
| 3/13/2009      | device00x       |           | Connection failed                    | fixed                         | Matt Linton (Matt)      | 5/5/2009   | Comment        | Resolved |
| 5/28/2009      | Device93458     |           | Maintenance Required<br>on 5/29/2009 | Resolved!!                    | Eugene Park<br>(eugene) | 5/29/2009  | Comment        | Resolved |
| 5/27/2009      | Mike RZ4A<br>1  |           | Maintenance Required<br>on 5/14/2009 | Fixed                         | ZZ TOP (Aussie)         | 6/15/2009  | Comment        | Resolved |
| 5/27/2009      | Mike EC1        |           | Maintenance Required<br>on 5/13/2009 | Fixed                         | ZZ TOP (Aussie)         | 6/15/2009  | Comment        | Resolved |
| 5/27/2009      | Mike RZ4A<br>2  |           | Maintenance Required<br>on 5/31/2009 | Fixed                         | ZZ TOP (Aussie)         | 6/15/2009  | Comment        | Resolved |
| 6/16/2009      | Device<br>34699 |           | Maintenance Required<br>on 6/17/2009 | Serviced                      | Eugene Park<br>(eugene) | 6/16/2009  | Comment        | Resolved |
| 6/16/2009      | Device<br>34699 |           | Maintenance Required<br>on 6/17/2009 | Device maintenance<br>deleted | Eugene Park<br>(eugene) | 6/17/2009  | Comment        | Resolved |
| 6/16/2009      | Mike RZ4A<br>1  |           | Maintenance Required<br>on 6/16/2009 | Fixed                         | ZZ TOP (Aussie)         | 6/17/2009  | Comment        | Resolved |
| 6/16/2009      | Device93458     |           | Maintenance Required<br>on 5/29/2009 | Serviced                      | Eugene Park<br>(eugene) | 6/17/2009  | Comment        | Resolved |
| 6/16/2009      | Mike RZ4A<br>2  |           | Maintenance Required<br>on 6/17/2009 | Fixed                         | ZZ TOP (Aussie)         | 6/17/2009  | Comment        | Resolved |
| 6/16/2009      | Mike EC1        |           | Maintenance Required<br>on 6/15/2009 | Fixed                         | ZZ TOP (Aussie)         | 6/17/2009  | Comment        | Resolved |
| 6/26/2009      | Mike RZ4A<br>1  |           | Maintenance Required<br>on 6/20/2009 | Maintenance Performed         | ZZ TOP (Aussie)         | 7/23/2009  | Comment        | Resolved |

Figure 6.2.3(a)

# 7 Troubleshooting Guide

## 7.1 Installation Issues

#### 7.1.1 .NET 3.5 Framework

At the start of the installation process the server is checked for the latest .NET 3.5 Framework files. If they are not found the system will attempt to load them from the Microsoft download site. If the server does not have access or firewall permission to connect to this site the following error will be displayed.

| 🕷 Iteris CentralSoftware Setup  |    |
|---|----|
| An error occurred while downloading a required file. You may retry downloading the file or cancel setup.  |    |
| Details <         Retry         Cancel           An error occurred downloading the following resource:<br>http://go.microsoft.com/fwlink/?linkid=118076 |    |
| Date: 7/30/2009 2:03:12 PM<br>See the setup log file located at 'C:\DOCUME~1\Abacus\LOCALS~1<br>\Temp\VSD4.tmp\install.log' for more information.       |    |
|   | Fi |



Consult your IT department to ensure the correct files can be installed on the server.

If access to the Microsoft download site is granted the following license agreement, Figure 7.1.1(b) will be displayed. Accept the terms of the license to continue the installation operation.



### 7.1.2 SQL Database Setup

The following screen shots display a number of possible errors you may receive when installing the software. These errors all indicate that the latest SQL Database files are not present on your server. See section 2.2.2 for more information on installation of the latest drivers.

| 记 Iteris CentralSoftware   |                 |
|--|-----------------|
| Error 1001. Could not load file or assembly 'Microsoft.SqlServer.BatchParserClient,<br>Version=10.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91' or one of its<br>dependencies. The system cannot find the file specified.   |                 |
| OK   | Figure 7.1.2(a) |
|  |                 |
| igr iteris Centralsoftware   |                 |
| Error 1001. A network-related or instance-specific error occurred while establishing a<br>connection to SQL Server. The server was not found or was not accessible. Verify that<br>the instance name is correct and that SQL Server is configured to allow remote<br>connections. (provider: Named Pipes Provider, error: 40 - Could not open a connection t |                 |
| OK   | Figure 7.1.2(b) |

#### 7.1.3 Other installation errors

The following error, Figure 7.1.3(a) may be observed if no SQL Database administrator information was entered during the installation process. Restart the installation process and enter the details required. See section 2.2.1 and Figure 2.2.1(g) for more details.



## 7.2 Login Issues

The following errors, Figures 7.2(a) and 7.2(b) may be displayed when you first login to VantageView after installation. These errors indicate that the database setting needs to be changed from Windows Authentication to Mixed Mode Authentication. See section 2.2.3 for complete instructions on how to perform this task.

| Server Error in '/Iteris_CentralSoftware' Application.   |
|--|
| Login failed for user 'VantageView'. The user is not associated with a trusted SQL Server connection.  |
| Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.  |
| Exception Details: System Data SqClient SqException: Login failed for user VantageVew/. The user is not associated with a trusted SQL Server connection.   |
| Source Error:  |
| An unhandled exception was generated during the execution of the current web request. Information regarding the origin and location of the exception can be identified using the exception stack trace below.  |
| Stack Trace:   |
| <pre>[SplException (0x8011904): Login failed for user 'VantageView'. The user is not associated with a trusted SQL Server connection.] System. Stat. Sql(lint.SplExtern.SplExtern.HondExtrangleSet istat05): J34 System. Stat.Sql(lint.SplExtern.HondExtrangleSet istat05): J34 System. Stat.Sql(lint.SplExtern.HondExtrangleSet istat05): J34 System. Stat.Sql(lint.SplExtern.HondExtrangleSet istat05): J34 System. Stat.Sql(lint.SplExtern.HondExtrangleSet): SplExtern.HondExtern.Hon</pre> |
| Version Information: Microsoft NET Framework Version 2.0.50727.3082, ASP NET Version 2.0.50727.3082  |

## Figure 7.2(a)

| Server Error in '/Iteris_CentralSoftware' Application.   |  |  |
|--|--|--|
| Runtime Error  |  |  |
| Description: An application error occurred on the server. The current custom error settings for this application prevent the details of the application error hom being viewed remotely (for security reasons), it could, however, be viewed by browsers running on the local server machine.  |  |  |
| Details: To enable the details of this specific enror message to be viewable on remote machines, please create a «customErrors» tag within a "web config" configuration file located in the root directory of the current web application. This «customErrors» tag should then have its "mode" altibute set to "Off".  |  |  |
| Web.Config Configuration File <configurations <pre=""> configurations constants constants</configurations> |  |  |
| Notes: The current error page you are seeing can be replaced by a custom error page by modifying the "defaultRedirect" attribute of the application's <customerrors> configuration tag to point to a custom error page URL.</customerrors>   |  |  |
| <lr><li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li></li></lr>   |  |  |



## 7.3 Streaming Video Issues

No QuickTime plug-in displayed in the Device Video window.

If the Device Video window in blank no Video URL has been entered for the device selected. Refer to sections 5.5.3 and 5.5.6 for more details on setting up streaming video.

If a "?" is displayed in Device Video window, see Figure 7.3(a). The Video URL has been incorrectly entered. See section 5.5.6 for more details on setting up streaming video.



If the QuickTime window displays "Waiting for media" message, this is an indication that your firewall is blocking the video stream from the EdgeConnect module.

Log into your router setup page or firewall software and enable Port Triggering for the following ports:

| Application:     | rtsp        |      |
|------------------|-------------|------|
| Triggered Range: | Start Port: | 554  |
|                  | End Port:   | 554  |
| Forwarded Range: | Start Port: | 6970 |
|                  | End Port:   | 6999 |

## 8 If You Need Assistance

The Iteris Vantage Product Support Team consists of a group of highly skilled individuals that are knowledgeable and readily available to answer your questions or assist you with any of our Vantage products. Please do not hesitate to contact us at:

(888) 254-5487

For more information on Iteris and the products and services that we provide, visit our website at <u>www.iteris.com</u>