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## **SixView Manager**

User Guide  
Software Version 2.0  
April 7, 2011

# SixView Manager

## User Guide

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### CHANGE HISTORY

Version	Date	Description
1.02	4/7/11	Initial Release



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# SixView Manager

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### 1 OVERVIEW



SixView Manager™ provides user-friendly, **web-based management and configuration** capabilities for all Sixnet™ Routers, including our QuickConnect™ models. SixView Manager™ provides all of the key metrics required by IT departments or NOC managers such as signal strength, alarms, data usage, connectivity, IP addresses, and other critical elements to effectively manage hundreds or tens of thousands of devices. The SixView Manager™ includes true enterprise features such as the ability to update and make field changes to Sixnet Routers and Modems without individual unit access resulting in lower TCO.

#### 1.1 Intelligent Management Features - Efficient and Consistent

Mass configuration and auto provisioning tools	Remote monitoring and reporting of key metrics	Remote administration of multiple accounts/units
<p><i>Improves security</i> and enables efficient, consistent updates</p> <ul style="list-style-type: none"> <li>• Initial unit configuration</li> <li>• Firmware updates</li> <li>• VPN configuration</li> <li>• Firewall policy enforcement</li> <li>• Mass unit control                             <ul style="list-style-type: none"> <li>○ unit grouping control</li> <li>○ mass unit migration</li> <li>○ import unit(s)</li> </ul> </li> </ul>	<p>Provides <i>visibility and control</i> to cut time troubleshooting</p> <ul style="list-style-type: none"> <li>• Up-time</li> <li>• Utilization</li> <li>• Signal strength (RSSI)</li> <li>• Firmware version</li> <li>• ESN, MDN or IMEI</li> <li>• IP address</li> <li>• Live unit status w/ polling</li> <li>• Download XLS/CSV reports</li> </ul>	<p>Helps <i>reduce deployment cost while increasing management</i></p> <ul style="list-style-type: none"> <li>• Configuration changes</li> <li>• Remote reboot</li> <li>• Job Scheduling                             <ul style="list-style-type: none"> <li>○ single or multi-unit</li> </ul> </li> <li>• Intent-to-edit protections</li> <li>• Save custom data grid views</li> <li>• Control user permissions                             <ul style="list-style-type: none"> <li>○ control edit abilities</li> </ul> </li> </ul>



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## 1.2 System Requirements & Devices Supported

### 1.2.1 System Requirements

Hardware	Software
<ul style="list-style-type: none"><li>• Pentium 4 3Ghz or higher</li><li>• 4 GB RAM or higher</li><li>• 120 GB hard drive or higher<ul style="list-style-type: none"><li>○ multi-drive RAID recommended</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Modern web browser – examples:<ul style="list-style-type: none"><li>○ Firefox</li><li>○ Web Kit (Chrome, Safari)</li><li>○ Internet Explorer</li></ul></li><li>• Linux Server Distribution – examples:<ul style="list-style-type: none"><li>○ Red Hat Enterprise 5</li><li>○ Centos</li><li>○ Fedora</li></ul></li><li>• Apache 2.x</li><li>• MySQL 5.0.45 or higher</li><li>• PHP 5.3.(3 or higher)</li></ul>

### 1.2.2 Sixview Manager Specifications

#### Recommended Hardware:

##### Minimums

Pentium 4, 2 Ghz or more  
2 Gigs RAM minimum  
120 GB hard driver or larger

#### Recommended Production Optional Components

Redundant Power Supplies  
Redundant Network Interfaces  
RAID 5 Disk Storage

#### Recommended Software:

Redhat Enterprise 5 or CentOS 5.5 (other recent distros are OK, currently we are not recommending any Redhat Binary Distro)  
MySQL 5.x

**NOTE: It is HIGHLY recommended that this be installed onto a dedicated server for the SVM and not as an additional application on a multi-use system.**



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### 1.3 Software Installation Procedures

Install the Linux OS onto the server.

**NOTE:** If presented with the choice to either “Install or upgrade an existing system” or “Install system with basic video driver”, choose “Install system with basic video driver” for ease of installation.

#### Post Linux OS Installation:

These next steps will ensure the accompanying software packages can be loaded and the SVM will operate efficiently.

**WARNING:** Failure to follow these steps will result in the SVM software from loading properly and therefore will not function as expected.

- Ensure SELinux is disabled when installing the Linux OS. If the system you have is pre-built, open the `/etc/selinux/config` file and ensure the line `SELINUX=` shows “disabled”. If not make the change and reboot the SVM server.
- Ensure the Logwatch RPM did not get loaded by typing in the following command:
  - `rpm -qa | grep logwatch<ENTER>`
  - if you see `logwatch-x.x.x-xx.fcx.noarch`, then you will need to remove this rpm, you will need to copy the full name of the rpm, i.e. `logwatch-7.3.6-26.fc10.noarch` to put in the next command.
  - Type in the following command:
    - `rpm -e logwatch-x.x.x-xx.fcx.noarch<ENTER>`
- Ensure the Webalizer RPM did not get loaded by typing in the following command:
  - `rpm -qa | grep webalizer<ENTER>`
  - If you see `webalizer-x.xx_xx-xx.xx86.rpm`, then you will need to remove this rpm, you will need to copy the full name of the rpm, i.e. `webalizer- 2.01_10-37.i386.rpm` to put in the next command.
  - Type in the following command:
    - `rpm -e webalizer-x-xx_xx-xx.xx86.rpm<ENTER>`
- Ensure the Bluetooth service is disabled by typing in the following command:
  - **`chkconfig bluetooth off; service bluetooth stop<ENTER>`**
- It is highly recommended that the SVM reside behind a firewall, ensure the SVM server firewall is disabled to provide access from remote routers:
  - **`chkconfig iptables off; service iptables stop<ENTER>`**



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Download and install the following software in the following order:

### 1. MySQL 5.0.x or higher

- a. Type **yum install mysql-server <Enter>**
- b. YUM will locate the files to download and ask for confirmation; Type **y <Enter>**
- c. Start the mysqld by typing **service mysqld start <Enter>**
- d. Add a password to root user; Type **mysqladmin -u root -p ' password '<password of your choice>' <Enter>**

**NOTE:** We recommend that you do not use the following special characters in your password “\$ %”.

- e. When asked to enter a password, just hit **<ENTER>**
- f. Type **chkconfig - -add mysqld <Enter>**
- g. Type **chkconfig mysqld on<Enter>** to make sure mysqld starts up when rebooted.
- h. Type **service mysqld restart<Enter>**

**NOTE:** *If the SVM is placed behind a firewall, the following ports will need to be allowed through the firewall for proper functionality of the SVM.*

- **TCP port 18080** – inbound from any (using HTTP access to SVM)
- **TCP port 18081** – inbound from any (using HTTPS access to SVM)
- **TCP port 7785** – outbound to any (trigger sent from SVM to remote routers)

### 1.3.1 Sixnet Software Download and Installation

The Sixnet software is located on an FTP site and once purchased the download location will be sent to the licensee via email.

Download the svm\_installer.tgz file into the /root directory of the server.

Type in the following command to extract the compressed files: **tar xvfz svm\_installer.tgz<ENTER>**

Now change the directory into the svm\_installer directory: **cd svm\_installer<ENTER>**

The following command will begin the installation process. There are some options you need to be aware of that can be included along with the command. For instance, if you know the MySQL root user and password, use the following: **./installsvm.pl - - mysql-root-user=root - - mysql-root-pass=<password><ENTER>**

If you know the MySQL user and password, use the following:

**./installsvm.pl - - mysql-user=<username> - - mysql-pass=<password><ENTER>**

If, however, you have not setup the MySQL user accounts then use the following: **./installsvm.pl<ENTER>**

Messages will be displayed as to the status of the installation process. Once completed, the prompt will return and the server is ready.



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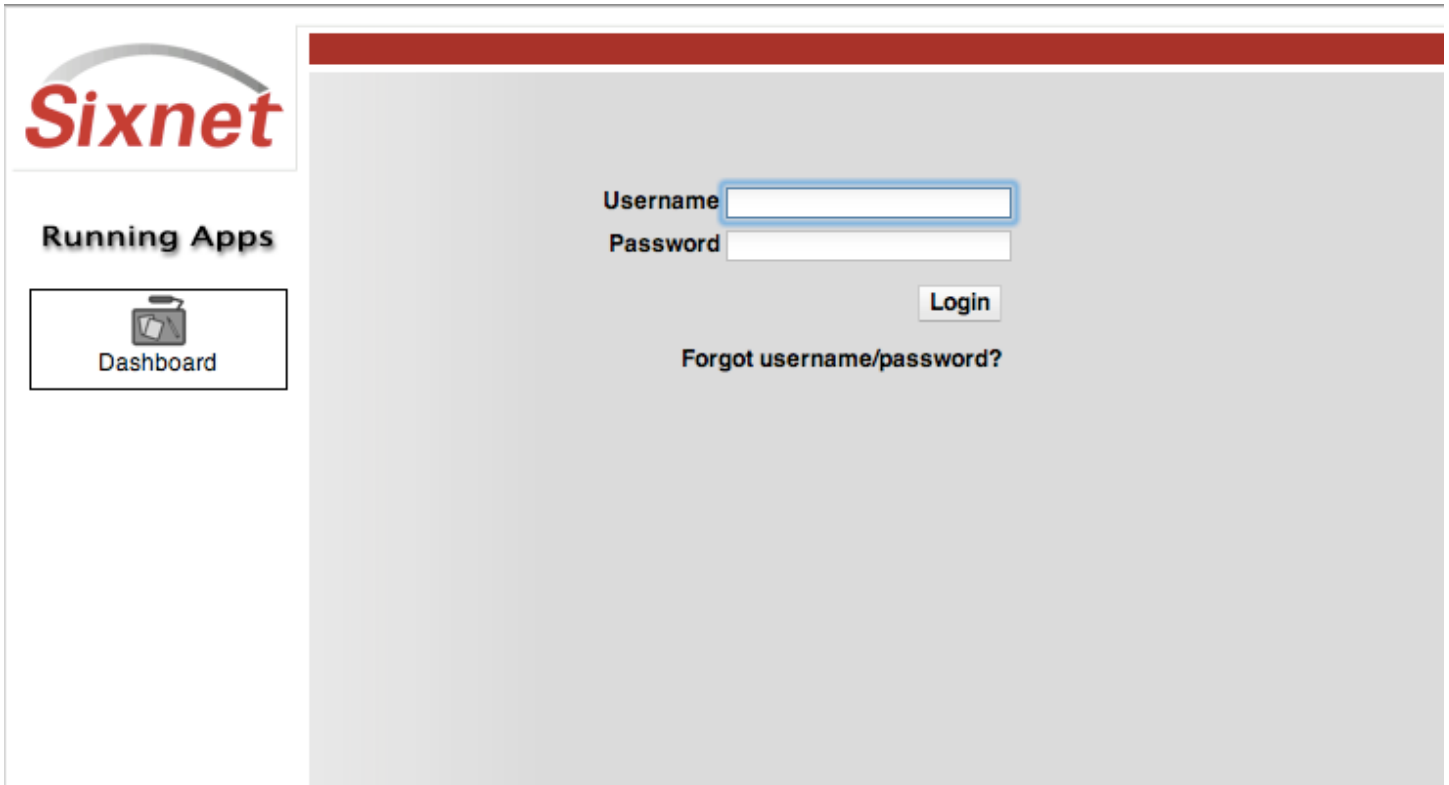
## User Guide

### 1.4 Sixview Manager Functionality Check

The Sixview Manager Web GUI should be accessible at this time. Open a browser and use a URL similar to the following:

**http://<IP\_Address\_of\_SVM\_Server>:18080**

You should see a page displayed similar to the following:



The screenshot shows the SixView Manager login interface. On the left side, there is a sidebar with the Sixnet logo and a 'Running Apps' section containing a 'Dashboard' button. The main area is a light gray background with a red header bar. It contains a login form with two input fields: 'Username' and 'Password'. Below the password field is a 'Login' button and a link that says 'Forgot username/password?'.

The username and password to access the Sixview Manager will be included in the same email that revealed the download site for the installation software.

If you have any further questions, please contact [support@sixnet.com](mailto:support@sixnet.com) or 518-877-5173.



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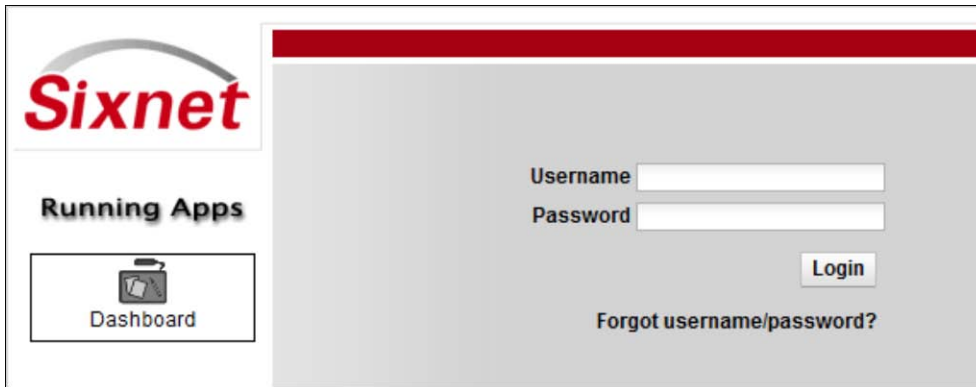
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## 2 GENERAL USER FUNCTIONS

### 2.1 Login



The screenshot shows the Sixnet login interface. On the left, there is a sidebar with the Sixnet logo and a 'Running Apps' section containing a 'Dashboard' button. The main content area on the right has a red header bar. Below it, there are two input fields labeled 'Username' and 'Password', a 'Login' button, and a link that says 'Forgot username/password?'.

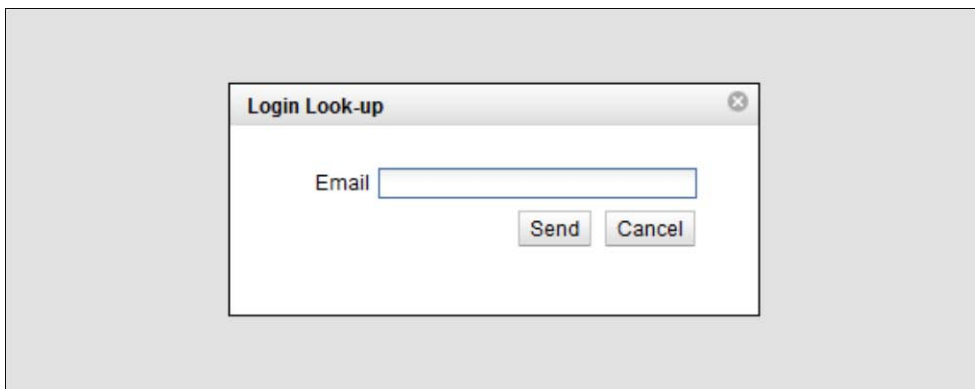
Open a web browser window and navigate to mygmu.com. The login page will appear.

Enter your username and password. Click Login to access SixView Manager. Upon successful login the Dashboard will load with buttons to load modules your user privileges will allow. Amongst these modules, the Unit Manager will often be your next step.

**NOTE:** In the case where your username is associated with multiple accounts you will have to choose an account on the way to the Dashboard.

#### 2.1.1 Forgot Login

Forgot login? No problem. Click the Forgot Username and/or Password link below the login form.



The screenshot shows a 'Login Look-up' dialog box. It has a title bar with a close button. Inside, there is an 'Email' label followed by an input field. Below the input field are two buttons: 'Send' and 'Cancel'.

You will be prompted to enter the email associated with your account and this information will be sent to you.

Make sure any spam filtering on your email does not filter-out emails from Sixnet.



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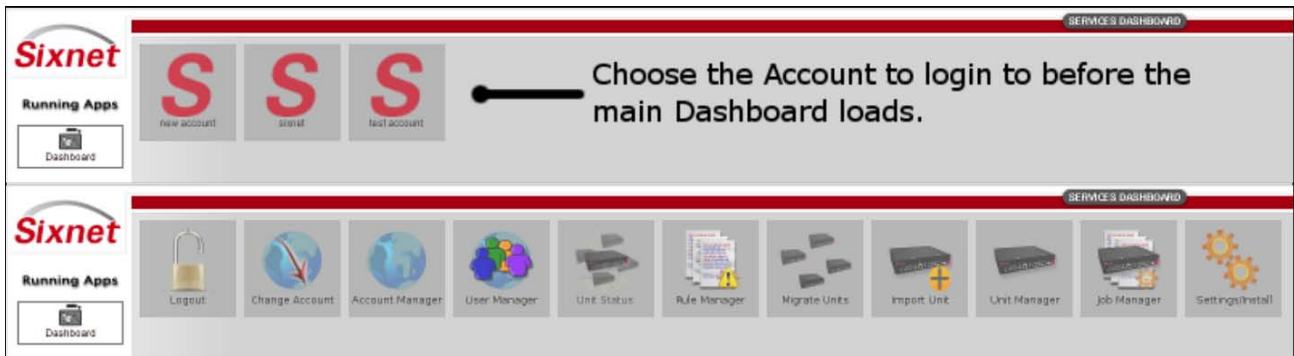
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### 2.2 Change Account

The Change Account dash will only be useful to SixView users with more than one account. If you have more than one account Change Account dash will look and act exactly like what you will see as the second step to logging in (assuming your username is associated with more than one account).

Simply click on the account icon representing your choice, and voila: If you have any dashes open they will close and reset and your session will reflect data from the current selection.



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### 2.3 Dashboard



Something to understand\* about **SixView Manager User Guide\*\***:

SixView is module and role based. Modules are associated per account; Roles are associated with the user.

\*Some interfaces (SixView dashes), covered in this help guide may not apply to your user privileges. The same user, if linked to multiple accounts, can have privileges to view and change data of one account that they may not for another account. For example: User1 may be able to trigger jobs on units for one account, and then only view status for units on another. When using grid-search ability remember to use the correlated Search-in drop down to select what grid-column(s) to search in.

From the **Dashboard Main** you can run available applications by clicking. The **Running Apps** panel will show any currently running applications and allow switching between different apps. In some cases there may be more than one of the same type of application open.

\*\*This guide is written as if your user has full system privileges. Some controls mentioned may go unseen in a more restricted user GUI. If you believe your user should have elevated privileges please contact your SixView administrator.



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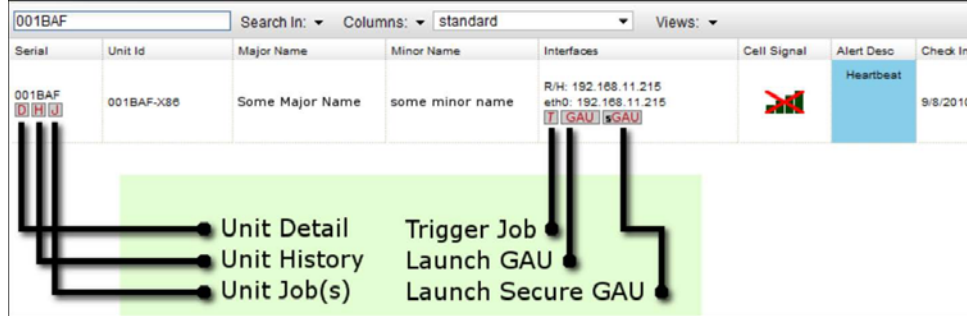
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### 2.4 Unit Manager

The **Unit Manager** dash is grid-based with search.

Add and remove columns via the Column drop down. Save views via the View drop down. Show only authorized units by checking the checkbox in the upper-right corner.

Authorized units upper-right



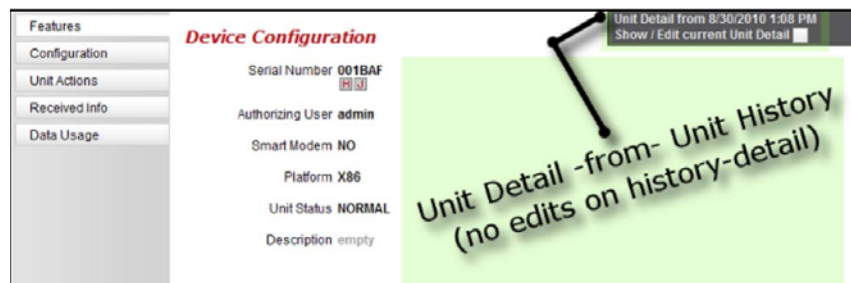
In each row representing a unit there will be six buttons.

Under Serial: The *D* button will launch a **Unit Detail** interface allowing editing of unit-specific fields. The *H* button will launch the **Unit History** for the specific unit; and from the Unit History the user may launch a Unit Detail to reflect the details at any specific time in the listed history. The *J* will launch and **Add Job** interface with pre-populated fields relative to the particular unit.

Under Interfaces: The *T* button will trigger the latest job on the specific unit. *GAU* and *sGAU* buttons launch **GAU** and Secure **GAU**, respectively.

Serial	Unit Id	Interfaces	Cell Signal	Alert Desc	Check In Date
001BAF	001BAF-X86	R/H: 192.168.11.215 eth0: 192.168.11.215		Heartbeat	8/30/2010 1:29 PM
001BAF	001BAF-X86	R/H: 192.168.11.215 eth0: 192.168.11.215		Heartbeat	8/30/2010 1:08 PM

### Unit History



**Unit Detail** launched from **Unit History** (no edits unless user clicks box to Show/Edit current in upper-left)



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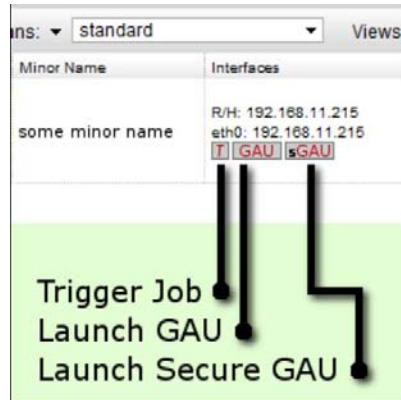
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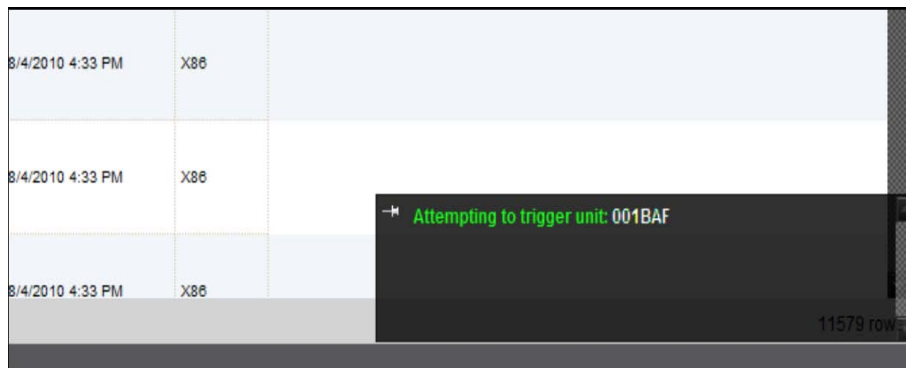
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### 2.4.1 Triggering a Unit

There are times when you will want to test the unit to ensure it is still communicating, especially if the Check-In Date column shows the unit has not checked in for an abnormally long period of time. This can be done by triggering the unit. To trigger, simply click the T under the Interfaces column indicated below.



A dialog box will appear on the bottom right corner of the screen as indicated below. If the trigger was successful, the dialog box will indicate so by displaying Trigger was successful for the unit and the Check-In Date column will update to the current time and date.



If the trigger was unsuccessful, the **SixView Manager** was unable to contact the unit. There could be several reasons for an unsuccessful trigger:

- Unit could be powered down.
- The unit is behind a firewall.
- Unit may have disconnected from the network.
- Bad Ethernet cable.
- Poor signal strength
- Some carriers have service that is MOD (Mobile Originated Data); this means that it will not allow incoming connections and therefore the trigger does not get through.

Power cycling the unit in most cases will correct these issues. If after power cycling the unit is still not communicating with SixView, contact Sixnet Technical Support.



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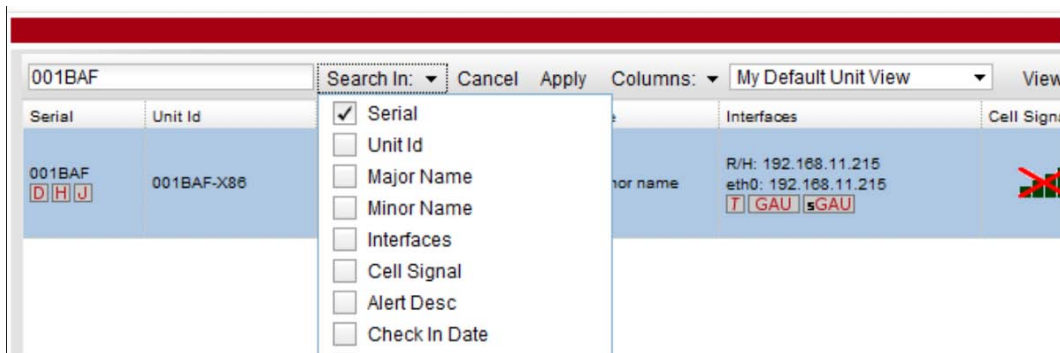
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### 2.4.2 Search by Serial Numbers

Each Sixnet Wireless unit has a unique serial number printed on a label/sticker found on the underside of the device.



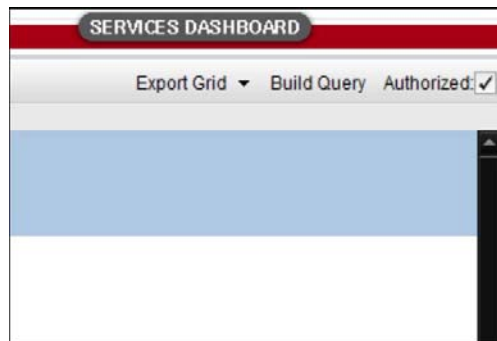
To Search for your device by Serial Number go to a **Unit Manager** and enter the Serial in the search box (upper left-hand corner of unit list) and click *Apply*.



**NOTE:** In the upper-right hand corner there is an **Authorized** checkbox. If you do not find your device try toggling the state of this checkbox (it will cause only Authorized, or only Unauthorized units to show up in the list).

### 2.4.3 Authorized/Unauthorized

In the upper-right hand corner there is an **Authorized** checkbox. Toggle to display only Authorized, or, when un-checked, only Unauthorized, units.



**NOTE:** The unit list will auto-update when toggling Auth/Unauth.



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### 2.4.4 *Still cannot see my device*

If still no units display then it is likely this unit is authorized and checking into another server. If that should happen, forward the issue to the Sixnet Wireless Division Tech Support. If a unit does appear *unauthorized* then you can *authorize* it.

### 2.4.5 *Authorizing a Unit*

To authorize a unit found in the Unit Manager click the *D* (for details) button under the Serial Number. The **Unit Details** page will load for this unit. Please see: **Unit Detail**.

### 2.4.6 *Accessing the GAU*

The GAU is a web based configuration tool loaded on to Sixnet units. You have two choices to access the GAU, either through HTTP or secure HTTP (HTTPS). To access the GAU, select either *GAU* for HTTP access or *sGAU* for HTTPS under the Interfaces column in the Unit Manager.

The GAU access page will load along with a username and password dialog box. Enter as the log in *admin* (all lowercase). For the password, *enter the serial number* of the unit (all lowercase). The units GAU status page will load.

**NOTE:** If admin does not work, try jbmadmin for username.

**NOTE:** Are you sure of your password? The device-owner has the right to change the password. Perhaps the password is changed?

Should the GAU timeout, try selecting the other (either GAU or sGAU, depending on what was selected initially). Some carriers block the standard port we use to access the routers (10000). In that case, we have a back door, so to speak, of using port 443 on HTTP to get access. Go to the window where the GAU attempted to load and change the URL where the port is tagged on (using ":10000") to 443.

If they both time out, and it is not a carrier-port-issue, attempt a unit trigger. Refer to the **Triggering a Unit** section.

For instructions on how to navigate through the GAU, refer to the Sixnet IP-V user manual.



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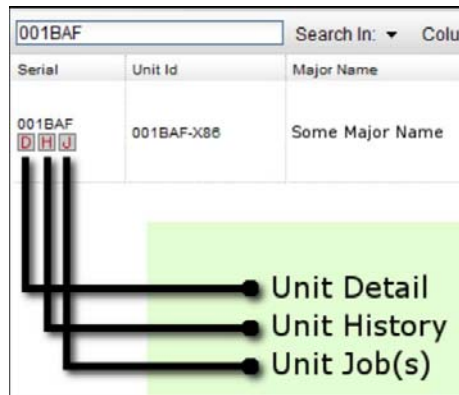


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### 2.5 Unit Detail

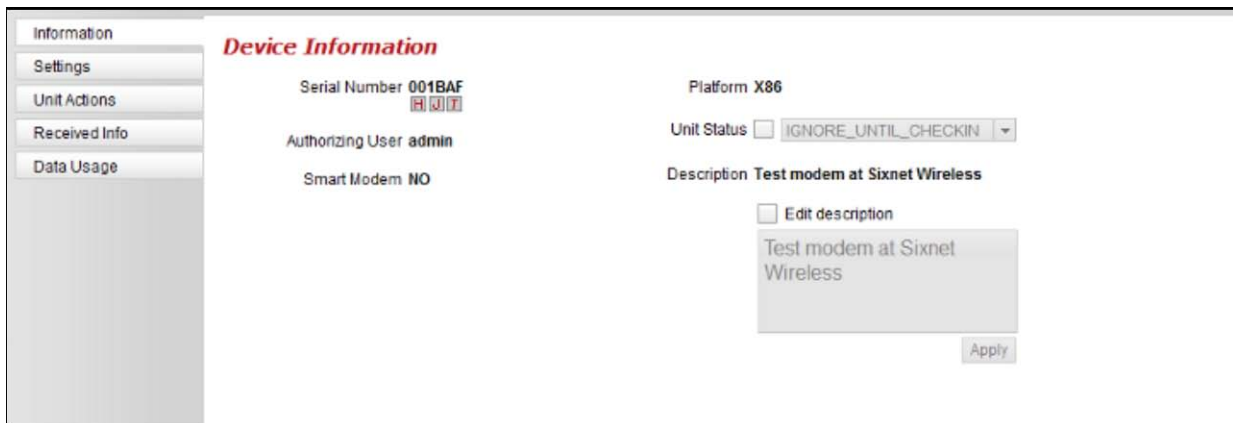
The **Unit Detail** dash of the SixView Manager gives a closer look at the specifics of a unit. It is under the details section where information such as the platform/architecture the unit is under (which is important when adding a job), firmware version, units wireless module (if unit is equipped with one), and more. To access the details page of a unit, select the *D* under the *Serial* column from the **Unit Manager** dash as shown.



Upon launching a **Unit Detail** dash, you will see 5 tabs on the right. These tabs offer additional information about the unit as well as additional information you may want the unit to report the next time it checks into the database or is manually triggered.

#### 2.5.1 Information Tab

The Identification tab offers some basic information about the unit. From this tab you can access the unit's reported history or request to send a job. The tab will list who authorized the unit as well as the serial number and the platform the unit is under.



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### 2.5.2 Settings Tab

The Settings tab is where the units Major and Minor name can be changed as well as authorizing or de-authorizing units (refer to **Authorizing a Unit** section for more information). It is also on this tab where the check intervals can be changed. To do this, place a checkmark in the poll interval checkbox and adjust the time by either clicking the up or down arrows or highlighting the number and typing the desired time (the poll intervals are in minutes). Click apply when finished.

**NOTE:** The interval will not take effect until the next scheduled check in unless manually triggered by operator. Refer to **Triggering a Unit** for more information.

The screenshot displays the 'Settings' tab in the SixView Manager interface. On the left is a navigation menu with 'Settings' selected. The main area is divided into two sections: 'Server Settings' and 'Client Settings'.  
**Server Settings:**  
- Allow Changes:   
- Major Name: Test Major Name  
- Minor Name: new test minor name  
- Unit Id: 001BAF-X86  
- Authorized:   
- Banned:   
- Low Bandwidth Unit:   
Buttons: Cancel, Apply  
**Client Settings:**  
- Sixview Manager 1:  127.0.0.1  
- Sixview Manager 2:  192.168.0.101  
- Poll Interval:  240  
- Server Mode:  secondary  
Buttons: Cancel, Apply

### 2.5.3 Unit Actions Tab

The Unit Actions tab allows the user to download the configuration, system log, gwlnx log, or GPS information (if unit is equipped with GPS functionality). To take advantage of these options, place a check in the box of the desired action. Upon next scheduled check in, the unit will download the desired action. To view the information, the user can select the *more* button on the unit's status page.

The screenshot shows the 'Unit Actions' tab in the SixView Manager interface. The left navigation menu has 'Unit Actions' selected. The main area contains a list of actions, each with a checkbox. A note at the top states: 'A check indicates the activity is pending. Uncheck to cancel the activity. Changes take effect on next check-in.'  
- Mini-Gatherstats   
- System Log Request   
- Gwlnx Log Request   
- GPS Lock   
- GPS Monitor   
- GPS Detail Request



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# SixView Manager

## User Guide

### 2.5.4 Received Info Tab

The Received Info tab gives the user a closer look at the specifics of the unit. Most of the information listed here can be seen on the **Unit Manager** page with additional columns added to the customizable view. This tab puts all that information together for easier readability. This is also the tab where, if a log was selected under the **Unit Actions** tab, that information can be found.

Received Info	
Update Time	9/8/2010 12:20 PM
Alert Message	iam... <a href="#">more</a>
Source IP	192.168.11.215
Interfaces	eth0 UP 192.168.11.215
Hostname	JBMgateway-v2_31rc4
Model Number	Gateway C101B
Firmware Version	2.31rc4
Client Version	1.54
Uptime	45d 15h 13m 55s
Signal Strength	
RSSI	not provided
Wireless Uptime	0d 0h 0m 0s
Cell Modem Name	
ESN / IMEI	
MDN	
GPS	

### 2.5.5 Data Usage Tab

The data usage tab will assist a user in keeping track on how much data the unit is using.

Wireless Data Usage	
Current Data Usage	0
Previous Data Usage	Not available



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# SixView Manager

## User Guide

### 2.6 Unit Job

This is a sub-set of information from **Job Manager**. See **Job Manager** for more complete information, including adding job to multiple units.

The **Unit Job** dash (click *J* under *Serial*) gives the user the ability to send the unit software upgrades or packages. The job will be uploaded into the unit at the next scheduled check in or after triggered manually by the user.

**Add Job**

Job Name  \* Job Start Date

File Type  \* Add job date/time will default to current.

Platforms

Description

Choose File

Units to receive job: 1

Search In:

Serial	Unit Id	Major Name	Minor Name	Interfaces	Cell Signal
001BAF	001BAF-X86	Test Major Name	new test minor name	R/H: 192.168.11.215 eth0: 192.168.11.215 <input type="checkbox"/> GAU <input type="checkbox"/> GAU	

From this dash, a user can define the parameters for the job. The following information needs to be entered for the job to run:

- **Job Name:** This job name is entered by default but can be manually changed to anything the user prefers.
- **File Type:** Select the correct file type for the software you want to upload.
- **Platform:** Select the correct platform for the unit. If platform is unknown, refer to the Details section for information on how to locate the platform.
- **Job Start Date:** Choose the date and time you would like the job to take place. If the very next check in is the desired time and date, leave this field alone.
- **Description:** This field is optional. Job will run if left blank.
- **Choose File:** Select the file from the drop down menu. If the file is not in the drop down menu, ensure the chosen platform is correct as well as the File Type. After verifying those options are correct, be sure the file was uploaded into the SixView Manager. Refer to **Add Files/Packages Tabckages** to SixView Manager section for information.

After all the parameters are defined, the user must search (unless launched from **Unit Manager**, where the unit will be pre-loaded into the grid) for the correct unit to upload the file to. If look-up is necessary and the serial number is correct, hit enter.

When all parameters are correct and the correct unit displays in grid click *Add This Job*.

The fields will go blank as the job is loaded into the job cue and will run when directed by the Job Start Date.



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# SixView Manager

## User Guide

### 2.7 Unit History

The **Unit History** dash (click *H* under *Serial*) gives the user the ability view a unit's details at any point in time in which the unit has checked-in.

**Unit History** can be very useful in trouble-shooting device issues. For example: View a unit's history to explore connection issues and see if the unit-IPaddress is constantly changing.

**NOTE:** Unit(s) will *only have history if authorized!*

Serial	Unit Id	Interfaces	Cell Signal	Alert Desc	Check In Date
001BAF <small>U</small>		T GAU S GAU			
001BAF <small>D</small>	001BAF-X86	R/H: 192.168.11.215 eth0: 192.168.11.215 T GAU S GAU		Heartbeat	8/30/2010 1:29 PM
001BAF <small>D</small>	001BAF-X86	R/H: 192.168.11.215 eth0: 192.168.11.215 T GAU S GAU		Heartbeat	8/30/2010 1:08 PM

### Unit History

**Device Configuration**

Serial Number 001BAF U

Authorizing User admin

Smart Modem NO

Platform X86

Unit Status NORMAL

Description empty

Unit Detail from 8/30/2010 1:08 PM  
Show / Edit current Unit Detail

Unit Detail -from- Unit History  
(no edits on history-detail)

**Unit Detail** launched from **Unit History** (no edits unless user clicks box to Show/Edit current in upper-left)

# SixView Manager

## User Guide

### 2.8 Unit Status

The **Unit Status** dash is a *live listing* of units using alert colors\* as the background color for each entry indicating a very easy-to-scan alert level for each entry.

This dash is grid-based, but will not have search as the listings come in live (always on top) as units check in. In the upper-right corner of the grid the user can click the stop button to halt the display of live information (live polling will continue in the background). Pressing the play button will display the most current polling entries that will fit on screen.

\*Alert Colors may be specified per-account; so if switching between multiple accounts keep this in mind.



# SixView Manager

## User Guide

### 2.9 Job Manager

The **Job Manager** dash gives the user the ability to send units (by Major/Minor Name, Unit ID, etc.) software upgrades or packages, as well as to add and manage package files.

The **Job Manager** dash has 4 tabs:

- **Jobs:** List of jobs and status (Current/Pending/Success/Fail).
- **Add Job:** Add job to unit(s) after searching by Major/Minor/Id using grid search.
- **Files:** List of package files.
- **Add Files:** Add package file(s).

#### 2.9.1 Jobs Tab

Name	Date Added	Job Target
GregTester <input type="button" value="remove"/>	6/30/2010 4:29 PM	Major Name: GregTester
Job002B8E-102629 <input type="button" value="remove"/>	8/30/2007 10:27 AM	Minor Name: ProdTest1
SSH Perm <input type="button" value="remove"/>	8/28/2007 11:24 AM	Minor Name: ProdTest1

#### 2.9.2 Remove Job

By clicking *remove* under any job name you will be given a confirmation dialog with the number of units associated with the job. Click *Confirm* to proceed.



# SixView Manager

## User Guide

### 2.9.3 Add Job Tab

The screenshot shows the 'Add Job' form in the SixView Manager interface. On the left, there is a sidebar with tabs for 'Jobs', 'Add Job', 'Files', and 'Add Files'. The main area is titled 'Add Job' and contains the following fields:

- Job Name:** A text input field.
- \* Job Start Date:** A text input field containing '01/18/2011'.
- File Type:** A dropdown menu currently set to 'Application'.
- \* Add job date:** A text input field.
- Platforms:** A group of three checkboxes labeled 'X86', 'ppc', and 'arm', all of which are currently unchecked.
- Description:** A text area for entering a description.
- Choose File:** A dropdown menu for selecting a file.
- Add This Job:** A button located at the bottom right of the form.

The following information needs to be entered for the job to run:

- **Job Name:** This job name is entered by default but can be manually changed to anything the user prefers.
- **File Type:** Select the correct file type for the software you want to upload.
- **Platform:** Select the correct platform for the unit. If platform is unknown, refer to the Details section for information on how to locate the platform.
- **Job Start Date:** Choose the date and time you would like the job to take place. If the very next check in is the desired time and date, leave this field alone.
- **Description:** This field is optional. Job will run if left blank.
- **Choose File:** Select the file from the drop down menu. If the file is not in the drop down menu, ensure the chosen platform is correct as well as the File Type. After verifying those options are correct, be sure the file was uploaded into the SixView Manager. Refer to **Add Files/Packages Tabckages** to SixView Manager section for information.

After all the parameters are defined, the user must search (unless launched from **Unit Manager**, where the unit will be pre-loaded into the grid) for the correct unit to upload the file to. If look-up is necessary and the serial number is correct, hit enter. When all parameters are correct and the correct unit displays in grid click *Add This Job*.

The fields will go blank as the job is loaded into the job cue and will run when directed by the Job Start Date.



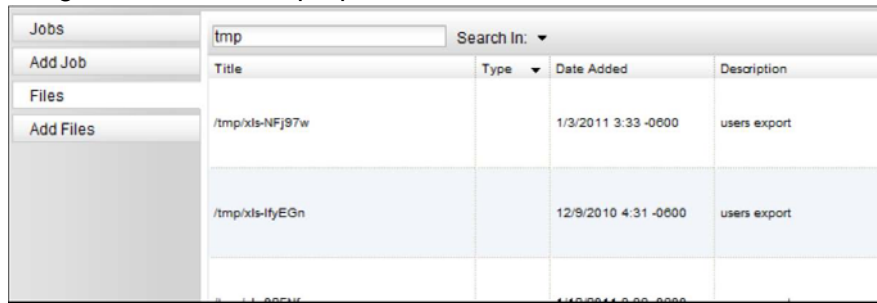


# SixView Manager

## User Guide

### 2.9.4 Files Tab

Display grid-based listing of files and their properties.



Title	Type	Date Added	Description
/tmp/xls-NFj97w		1/3/2011 3:33 -0600	users export
/tmp/xls-lfyEGn		12/9/2010 4:31 -0600	users export

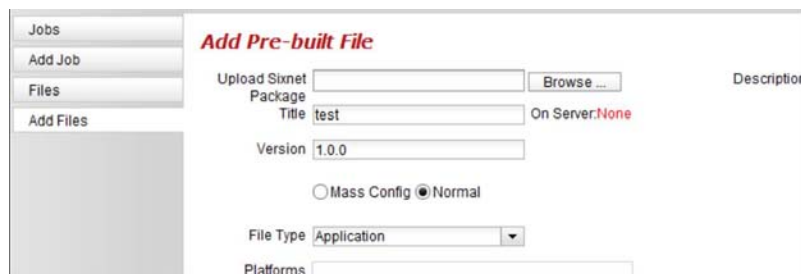
File Type(s):

- **Application:** Binary application which runs on a unit and requires a configuration file named unit.cfg.
- **Config:** Controls the behavior of the GWLNX application.
- **Patch:** Updates to firmware and bug fixes.
- **Command:** Commands such as turning SSH on/off, turning IPTrans on/off, or the remote-reboot of unit(s).

### 2.9.5 Add Files/Packages Tab

This is a core component of the **SixView Manager** as these files/packages are the *actual jobs* sent to remote units.

To upload a package into the **SixView Manager**: From the **Dashboard**, click **Job Manager**.



**Add Pre-built File**

Upload Sixnet Package

Title  On Server: **None**

Version

Mass Config  Normal

File Type

Platforms

Select the **Add Files** tab on the left side of the screen. Define the following criteria to upload the package:

- **Upload Sixnet Package:** Browse to the location of the file to upload.
- **Title:** Name the file to add to SixView. (If a file is already loaded into SixView with the same title, next the title dialog box, On Server will display the version of loaded file. If the title is unused, NONE will be highlighted in red.)
- **Version:** If the file is the first version, type 1.0.0 and so forth.
- **Mass Config/Normal:** Select the correct radio button.
- **File Type:** Choose the correct file type from the drop down menu.
- **Platforms:** Choose the correct platform for the file.
- **Description:** User can describe functionality of file. (Optional)

Once all parameters are defined, select **Upload File**. The file will then begin to upload into the **SixView Manager** for later access.



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### 3 ADVANCED/ADMIN FUNCTIONS

#### 3.1 Migrate Units

The **Migrate Units** dash allows the user to perform these actions based on the Migrate Units grid-based search results: Migrate, Disable, Ignore, Ignore until checking, change Architecture, and Export a Unit list (as CSV tab or comma [complies with the CSV expected in Import Units dash] or a full-field Excel document).

Basic interaction of Migrate Units will include: **Select Action** from drop down and pertinent form fields will become enabled. **Make changes using form.**

Select/or not to export\* with action (if exporting select file type). Click '**Submit**'.

The screenshot displays the 'Migrate Units' interface. At the top, there is a 'Select Action' dropdown menu currently set to 'Change Minor'. Below this, a status bar indicates '3 units selected'. To the right, there are several form fields: 'SVM1' (set to 'SVM1'), 'Major' (set to 'Major'), 'Minor' (set to 'new test minor name'), 'Server Mode' (set to 'none'), 'Architecture' (set to 'x86'), and 'Export Units (create file)' (set to 'none'). A 'Submit Action' button is located at the bottom right of the form. Below the form is a table with columns: Serial, Unit Id, Major Name, Minor Name, Check In Date, Client Config, and Architecture. The table contains three rows of data. The first row has Serial '001BAF', Unit Id '001BAF-x86', Major Name 'Test Major Name', Minor Name 'test minor name', Check In Date '9/8/2010 12:20 PM', Client Config 'Servers: SVM2: 127.0.0.1, SVM1: 192.168.0.101, MODE: secondary, Interval @ 240 seconds', and Architecture 'X86'. The second row has Serial '02003A', Unit Id '02003A-ppc', Major Name 'Test Major Name', Minor Name 'other minor name', Check In Date '8/4/2010 1:57 PM', Client Config 'Servers: SVM2: 127.0.0.1, SVM1: 192.168.0.101, MODE: secondary, Interval @ 240 seconds', and Architecture 'PPC'. The third row has Serial '100FFA', Unit Id '100FFA-x86', Major Name 'Test Major Name', Minor Name 'test minor name', Check In Date '3/20/2008 1:45 PM', Client Config 'Servers: SVM2: 127.0.0.1, SVM1: 192.168.0.101', and Architecture 'X86'. Black arrows in the image point from the '3 units selected' text to the 'Change Minor' dropdown, from the dropdown to the 'Minor' input field, and from the 'Minor' input field to the 'Submit Action' button.

Serial	Unit Id	Major Name	Minor Name	Check In Date	Client Config	Architecture
001BAF	001BAF-x86	Test Major Name	test minor name	9/8/2010 12:20 PM	Servers: SVM2: 127.0.0.1 SVM1: 192.168.0.101 MODE: secondary Interval @ 240 seconds	X86
02003A	02003A-ppc	Test Major Name	other minor name	8/4/2010 1:57 PM	Servers: SVM2: 127.0.0.1 SVM1: 192.168.0.101 MODE: secondary Interval @ 240 seconds	PPC
100FFA	100FFA-x86	Test Major Name	test minor name	3/20/2008 1:45 PM	Servers: SVM2: 127.0.0.1 SVM1: 192.168.0.101	X86

**Visual illustration** of using **Migrate Units** to find all units in a particular *Major Name* and change every unit in that set to have the same, new, *Minor Name*.

The next step would be to click the *Submit Action* button which will build a preview and drop the TO and FROM changes into the *Verify* tab of the grid for review and final go-ahead **Verification Confirmation**.



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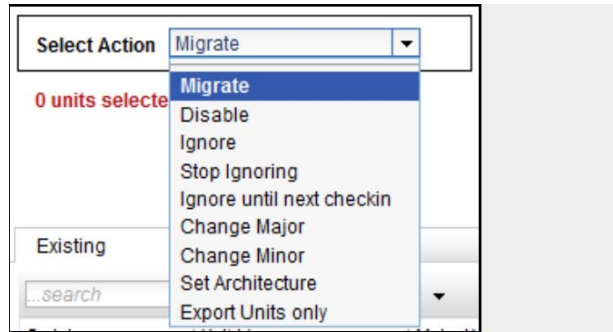
# SixView Manager

## User Guide

### 3.1.1 Select Actions Defined

The *Select Action* drop-down has nine actions. Eight of these can be combined with file-based reporting (XLS/CSV) to export a list of the units the action will be performed on (this can be useful pre-changes because it can then be used to undo any mishaps).

The ninth is **Export Units only**, which will only export the list of units. This feature is covered in the *Export Units only* FAQ section below.



The other eight and their corresponding form fields\* are covered here:

The other eight and their corresponding form fields\* are covered here:

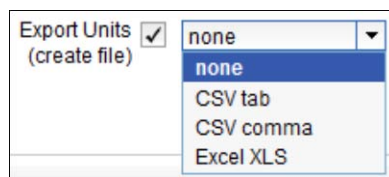
- Migrate:** This item is used to change where the remote unit(s) will report to, or create a list of units that can be moved to a different server. Related form fields:
  - **SVM1:** Sets primary SixView Manager for a unit or group of units to check-in to.
  - **SVM2:** Sets secondary SixView Manager for a unit or group of units to check-in to.
  - **Server Mode:** Drop-down with four options. none, secondary, both, or error.
    - **none:** check-in to *primary only*.
    - **secondary:** check-in to *secondary only*.
    - **both:** check-in to both *primary* and *secondary*.
    - **error:** check-in to *primary only*, but if check-in errors/fails, check-in to the *secondary*.
  - **Ignore Units:** Ignore Units (check-box), if checked, will cause the unit(s) to not display in the **Unit Manager** (until running a *Stop Ignoring* action on the unit(s)).
- Disable:** This item is used to unauthorize a unit or groups of units from reporting to the SixView Manager. Related form fields:
  - **Disable SVM1:** Check-box indicating, if checked, to *Disable SVM1* (primary), making the unit(s) check-in to localhost (self).
  - **Disable SVM2:** Check-box indicating, if checked, to *Disable SVM2* (secondary), making the unit(s) check-in to localhost (self).
- Ignore:** This item is used to prevent the display of a unit or group of units. Related form fields:
  - **Ignore Units:** This action automatically selects the *Ignore Units* check-box (an option with the *Migrate Select Action*), and this check-box cannot be un-checked by the user.

# SixView Manager

## User Guide

4. **Stop Ignoring:** This item is the logical opposite of the *Ignore* action and is used to un-prevent, or *Stop Ignoring*, the display of a unit or group of units. Related form fields:
  - **NONE:** This action acts on the selected unit(s) set without further input.
5. **Ignore until next check-in:** This item is used to prevent the display of a unit or group of units *until next check-in*, or until the next time a unit checks-in with the system. Related form fields:
  - **NONE:** This action acts on the selected unit(s) set without further input.
6. **Change Major:** This item is used to change/set the *Major Name* of a unit or group of units. Related form fields:
  - **Major:** The new *Major Name* should be entered in the *Major* text-box.
7. **Change Minor:** This item is used to change/set the *Minor Name* of a unit or group of units. Related form fields:
  - **Minor:** The new *Minor Name* should be entered in the *Minor* text-box.
8. **Set Architecture:** This item is used to change/set the *Architecture/Platform* of a unit or group of units. Related form fields:
  - **Architecture:** Use the *Architecture* drop-down to set/change the the *Architecture*. Choices include: x86, ppc, and arm.
    - **x86:** C-Series units (C120, C201, C300, etc.)
    - **ppc:** A/D/M/R Series (R3100, M1100, A2201, etc.)
    - **arm:** SN Series (SN-6400, SN-6601, SN-6821, etc.)

**Export Units:** Export Units (check-box, **not** *Export Units only* from *Select Action*) is an *optional* form field to allow a pre-change export of the selected unit(s) set. This option can be used with the seven listed *Select Action* values above, and is the one *required* form field for *Export Units only*.



### Export File Types:

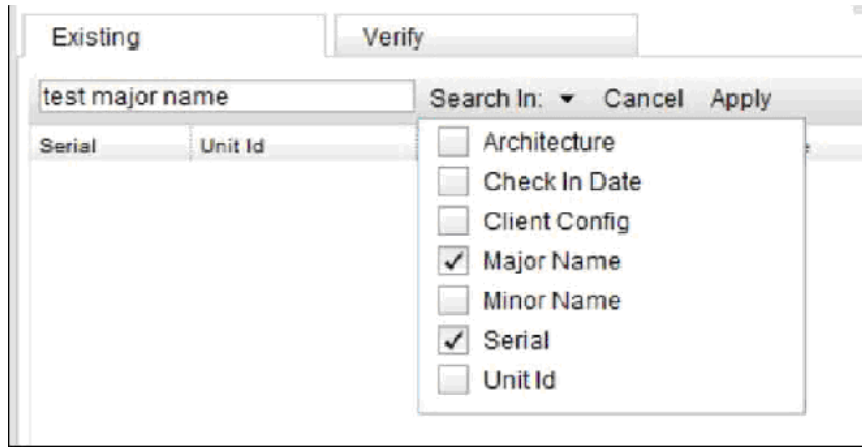
- **CSV tab:** file where the fields are separated by tabs.
- **CSV comma:** file where the fields are separated by commas.
- **Excel XLS:** file formatted as an Excel spreadsheet.

# SixView Manager

## User Guide

### 3.1.2 Finding Desired Units

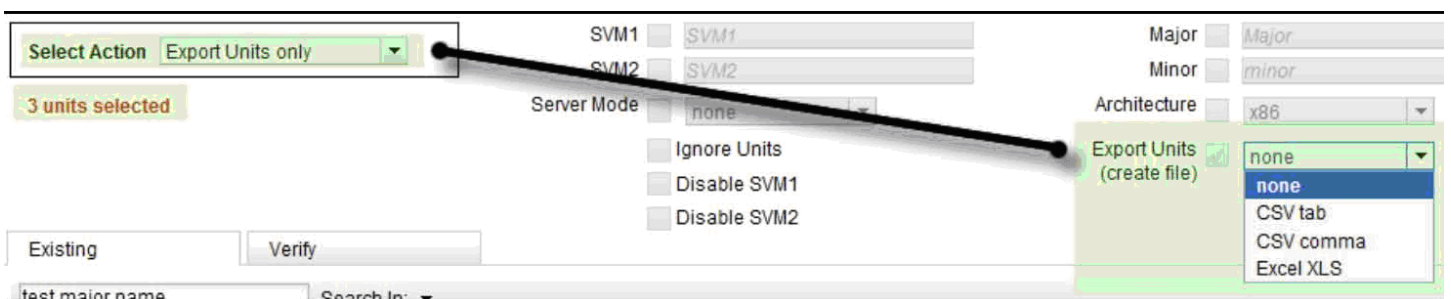
Using the same search interface as would be found in **Unit Manager** and other grid-dashes, set your search text and choose what field(s) to search in to find your unit set. The number of units found will be displayed under the *Select Action* drop-down in the form above the grid.



### 3.1.3 Export Units Only (to file)

In the case of **Export Units only** the export will happen and a file will be downloadable when ready. *If exporting along with another action the export will happen first.* In the case of any change-data the user will first be shown, on the Verify tab, the selected units' serial, and unit id, along with the Change TO value, and the Change FROM value. To finalize the user must: Check the Verify checkbox, and then click the button that will become enabled (preventing mistakes).

\*Export can be used as the only function of the Migrate Units interface, or, in conjunction with any other action. Export, when used in conjunction with another action, will export the units BEFORE changes are applied. Any changes will still need second-step user verification in the Verify tab.



#### Export File Types:

- **CSV tab:** file where the fields are separated by tabs.
- **CSV comma:** file where the fields are separated by commas.
- **Excel XLS:** file formatted as an Excel spreadsheet.



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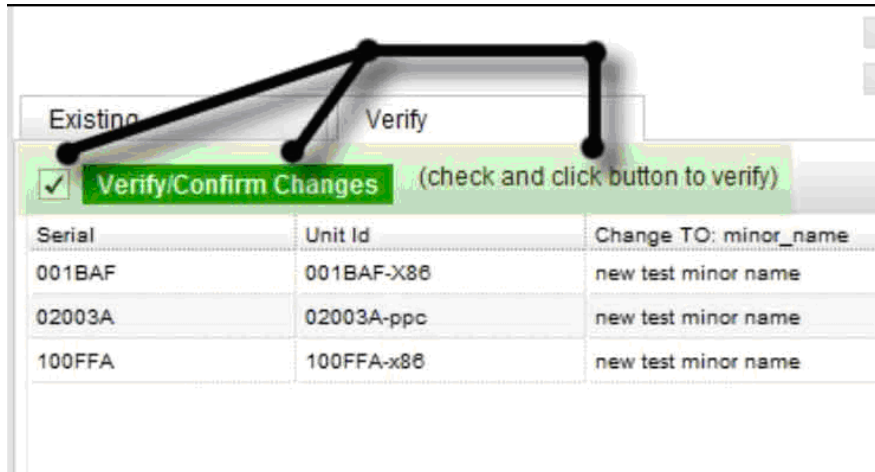
# SixView Manager

## User Guide

### 3.1.4 Verification Confirmation

After finding your unit set and changing the desired fields through *Select Action* and form choice, the user will first be shown, on the Verify tab, the selected units' serial, and unit id, along with the Change TO value, and the Change FROM value.

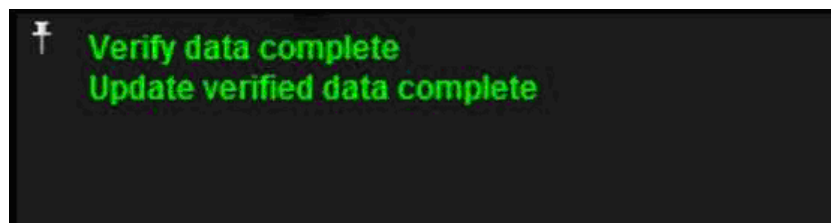
**To finalize the user must:** Check the Verify checkbox, and then click the button that will become enabled (preventing mistakes).



Upon verification the screen will gray and a logger pane will display the progress of updates to the system.



Finally, upon completion, the gray will recede and the user will be notified of completion of updates. The Select Action form will reset, and the user will be brought back to the Existing tab to start with a new search and action.

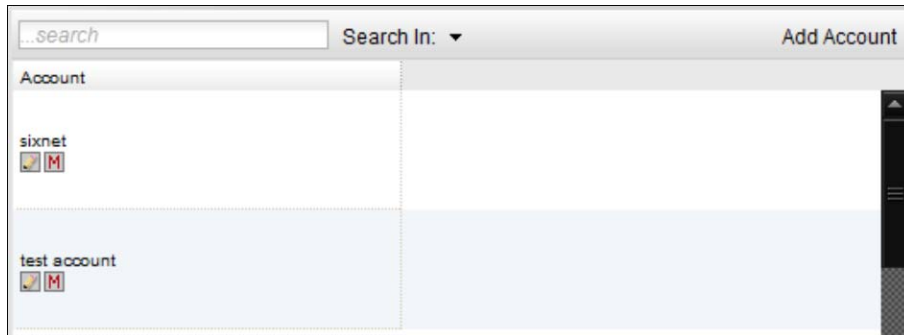


# SixView Manager

## User Guide

### 3.2 Account Manager

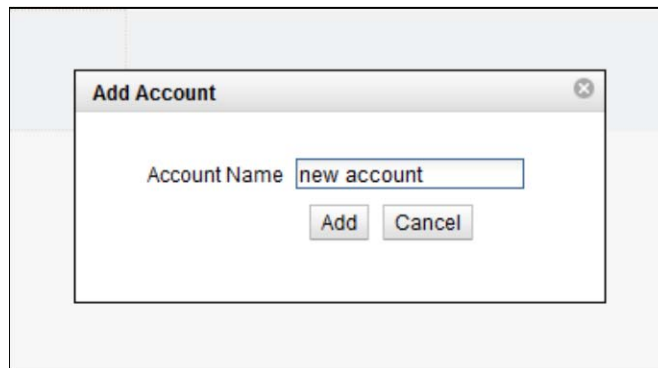
The **Account Manager** dash allows the user to view, add, and edit accounts (user-rights permitting).



The buttons under the Account column serve to launch Edit account name (pencil graphic), and Edit Modules (M graphic).

#### 3.2.1 Add Account

To add an account to the system from the **Account Manager**, click the *Add Account* button in the upper-right corner.



Enter the *Account Name* and click *Add*.

After the new account is successfully added to the system the **Modules** dialog will open to define modules the account has access to.

# SixView Manager

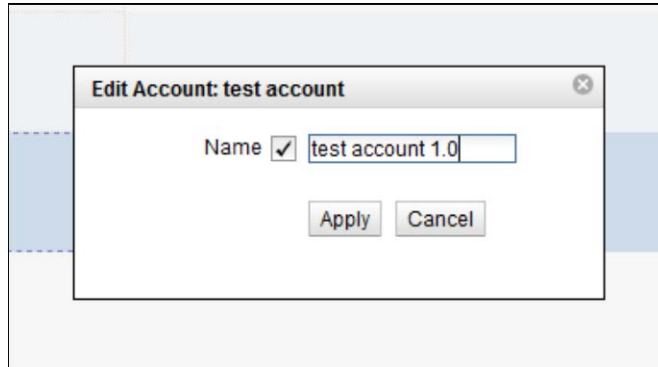
## User Guide

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### 3.2.2 Edit Account

To edit an account from the **Account Manager** click the *Edit* button (pencil graphic) under the *Account* in the grid display.

An edit dialog will come to the fore-front of the screen. The user must first check the check-box to unlock edits (a user intent-to-edit step to avoid faulty actions).

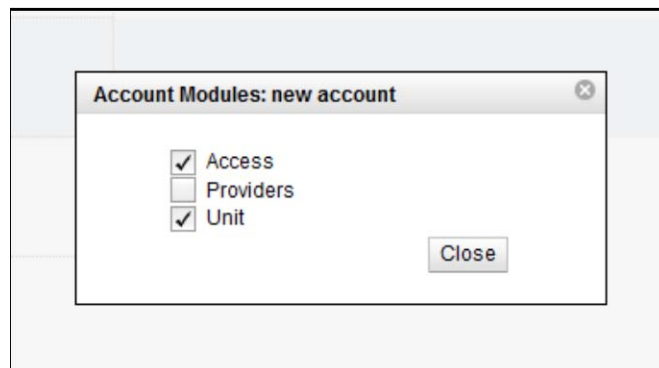


### 3.2.3 Account Modules

To edit the *Modules* of an account from the **Account Manager** click the *M* button under the *Account* in the grid display.

The edit-modules dialog will come to the fore-front of the screen. This is the same dialog a user who has added a new account would see after the account is successfully added.

Using check boxes the account can be allowed and dis-allowed access to certain modules instantly.





# SixView Manager

## User Guide

### 3.2.4 What are modules?

Modules are at the core of **SixView Manager**.

An account without access to the module **Units** would not have access to **Unit Manager**, **Migrate Units**, and other unit-related dashes.

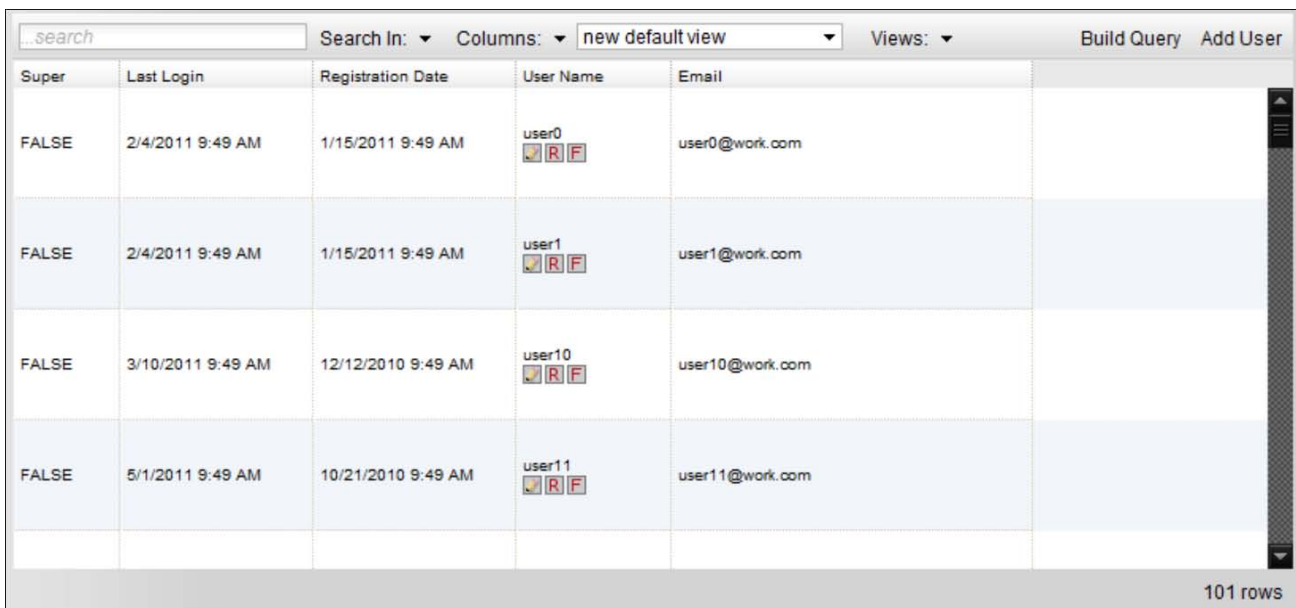
Only certain modules are optional if you want the **SixView Manager** to be of any use. Required *Modules* include:

- o **Access:** Login, User Management.
- o **Providers:** Required to load all other modules.
- o **Unit:** Unit Manager, Hydra, Migrate, Import.

If, for some reason, you would like to disable, but not delete, an account, an easy way to accomplish this would be to simply *Edit Modules* and turn off all activated *Modules*. The result would render users from the particular account to not be able to login, view, or edit anything with the **SixView Manager**.

### 3.3 User Manager

The **User Manager** dash allows the user to view, add, and edit accounts (user-roles permitting).



Super	Last Login	Registration Date	User Name	Email
FALSE	2/4/2011 9:49 AM	1/15/2011 9:49 AM	user0 ✎ R F	user0@work.com
FALSE	2/4/2011 9:49 AM	1/15/2011 9:49 AM	user1 ✎ R F	user1@work.com
FALSE	3/10/2011 9:49 AM	12/12/2010 9:49 AM	user10 ✎ R F	user10@work.com
FALSE	5/1/2011 9:49 AM	10/21/2010 9:49 AM	user11 ✎ R F	user11@work.com

101 rows

The buttons under the User Name column serve to launch Edit user (pencil graphic), Edit Filters (F graphic) and Edit Roles (R graphic).



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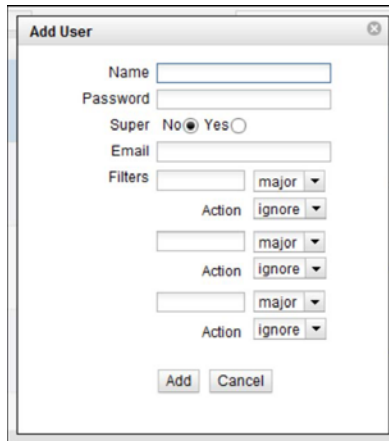
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## User Guide

### 3.3.1 Adding a User

Adding a User to the system from the **User Manager**: click the *Add User* button in the upper-right corner.



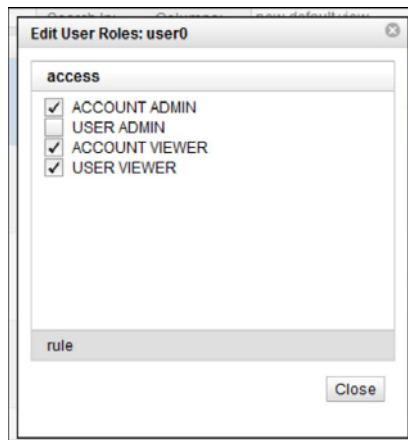
Enter the *User Name*, *Password*, and if your user is Super, you may add to the new user *Super*, and add the required *Email* (for login). Finally add *Filters* (which default to editing-user filters) to control the *Major* and *Minor* names of units the new user is allowed to see, and click *Add*.

After the new user is successfully added to the system the **Roles** dialog will open to define *Roles* to control what the new user has access to.

### 3.3.2 User Roles/ Edit Roles

The *Roles* dialog will appear after the successful add of a new user to the system.

To edit the *User Roles* of an existing user click the *Edit Roles* (*R* graphic) under the *User Name* column.



These edits are per-*Account Module*, and also per the editor's own roles (i.e. an editing user won't be allowed to see/add/remove roles that they themselves do not have).

For more information on *roles* see **What are Roles?**



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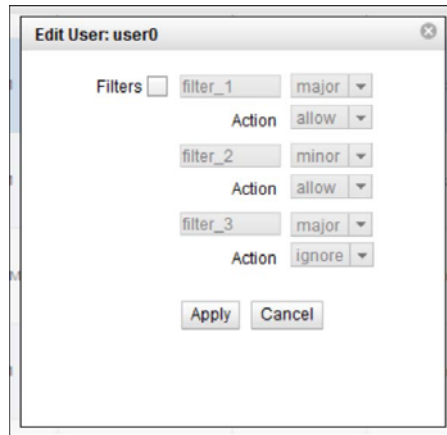
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### 3.3.3 User Filters/ Edit Filters

The **user admin** must first check the check-box to unlock *Filter* edits (a user intent-to-edit step to avoid faulty actions).



*Filters* limit a user's view of units by allowing *Major and Minor* name filtering. This is useful in allowing a user to view only the units they are associated with. Set the filter name(s), select major/minor, and allow/ignore.

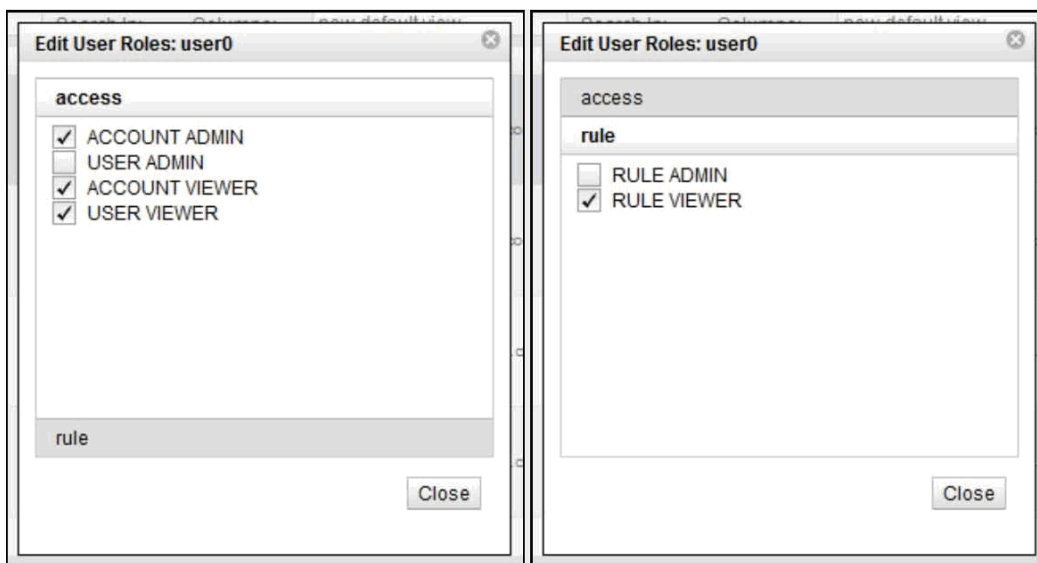
When **Adding a User** these filters default to the filters of the **user admin**.

### 3.3.4 What are roles?

**Roles** are at the core of the user experience in the **SixView Manager**.

They control user permissions to view and/or edit certain facets of the system as a whole.

The graphics below illustrate two Account Modules (per-account; these are the headers, i.e. access, rule) and their associated User Roles.



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In the access section we have: Account Admin, User Admin, Account Viewer, and User Viewer.

Account Admin (can edit, make changes to accounts) is always/will always have the rights of an Account Viewer (can only view accounts). Here we are giving the user Account Admin, so checking Account Viewer is redundant, but not harmful. These are instantly updated on the server.

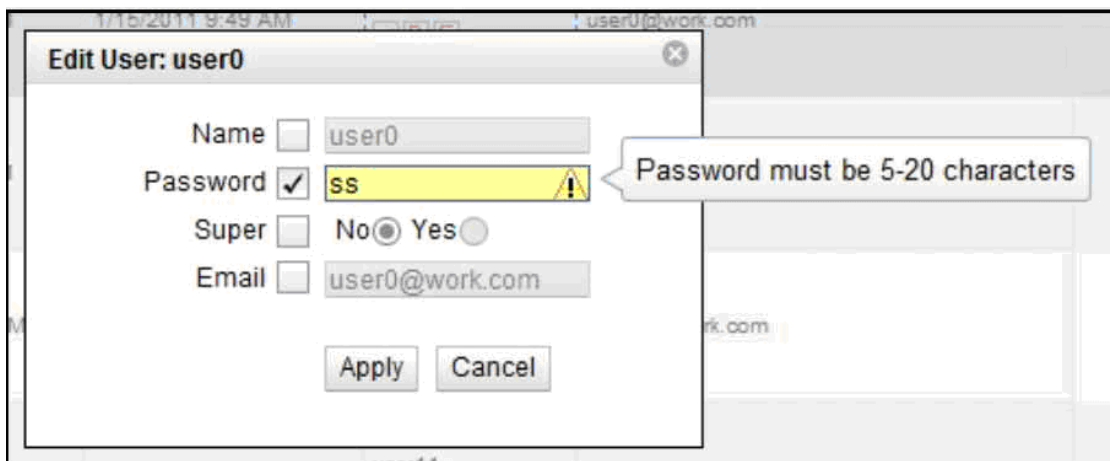
In the rule section we have: Rule Admin, and Rule Viewer. Here the user is getting the right to view, but not to change/add rule(s).

### 3.3.5 Edit User

To edit a user from the **User Manager** click the *Edit* button (pencil graphic) under the *User Name* column in the grid display.

An edit dialog will come to the fore-front of the screen. The user must first check the check-box to unlock edits (a user intent-to-edit step to avoid faulty actions).

It is okay to only edit one field; only check the check-box next to the desired edits, and only those fields will update.



**NOTE:** Only a Super can set a user's super field to TRUE/or Yes.

### 3.3.6 Admin/ Super

The difference between an **Admin** and **Super** is that the **Super has ALL Admin Roles**, where-as an **Admin** may be allowed to administrate units/jobs/files, but maybe only view users, or visa-versa, or both, but only on one account.

In other words the **Admin** has greater reach than the general user, but is not necessarily a Super-user. **The system Super has all modules and all roles.**



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### 3.4 Importing Units

The **Import Unit** dash offers importation of units by either single-unit import form or multiple unit CSV upload.

**Import Unit(s)**

Use either the single unit form, or upload CSV or TXT file for mass import.  
The user and account associated with any new units will be set to the current user (you), and the current account.

**Import Single**

Serial   
Major   
Minor   
UnitId

**Import Multi**

Separated by  Comma  Tab  
Serial(s) only  One line, comma separated.  
Default Platform   
Upload

Serial	Major Name	Minor Name	Unit Id	Platform
--------	------------	------------	---------	----------

The form on the left is for manually adding one unit to SixView Manager. The form on the right is for multi-import, using CSV. The grid below the forms will be populated with the input data.

#### 3.4.1 Import Process

The available fields for import include: *Serial*, *Major Name*, *Minor Name*, *Unit Id*, and *Platform/Architecture*. Unit platform may be specified in your CSV, set to a default from the form drop-down, or via drop-down in the grid (after initial loading of CSV, or submitting the Single Import form), or left out completely (additionally you may mix, i.e. some w/ platform, some w/o).

In the upload of single or multiple units the first interaction is to check the box next to which action is intended: **Import Single**, or **Import Multi**

The grid is only used in the **Import Multi Process**. The **Import Single** simply adds your unit to the system. The only feedback shown is if there is a fatal error. To *find and manage* your unit, simply search for it by unique *Serial* or *Unit ID* in the **Unit Manager**

Enter form values:

- **Separated by:** Your CSV file can be *comma* or *tab* separated. Indicated which one.
- **Serial(s) only:** This indicates there is a single line for your entire CSV. This line may run on and on with many units, but there are commas in between every value. Checking this automatically sets the *Separated by*.
- **Default Platform/Architecture:** Choose the default platform. Choices include: x86, ppc, and arm.
  - **x86:** C-Series units (C120, C201, C300, etc.)
  - **ppc:** A/D/M/R Series (R3100, M1100, A2201, etc.)
  - **arm:** SN Series (SN-6400, SN-6601, SN-6821, etc.)
- **Upload:** Browse to the CSV to upload.

Click *Add Units*



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**Import Multi**

Separated by  Comma  Tab

Serial(s) only  One line, comma separated.

Default Platform  x86

Upload  OFFICE\_CSV.csv

Name	Unit Id	Platform
Test	12345678	arm
Test	12345679	ppc
Test	12345680	x86
Test	12345681	x86

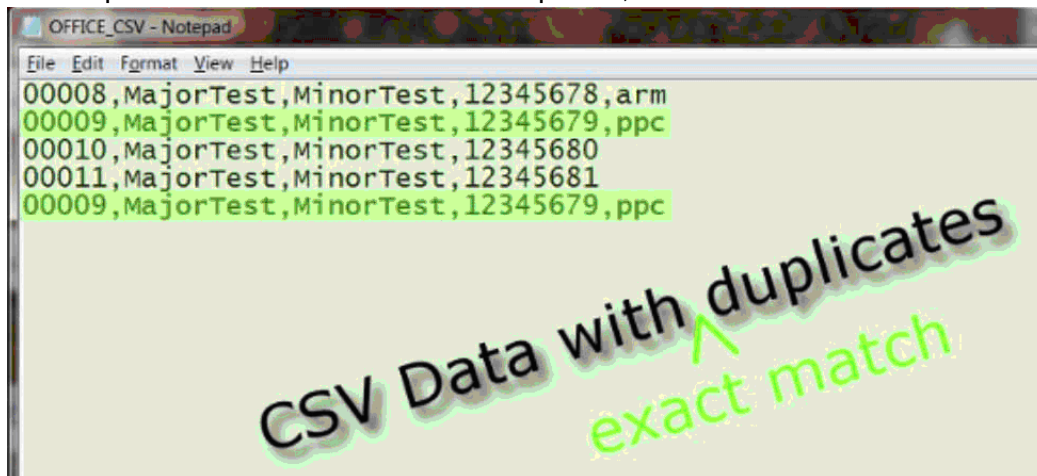
Data has: 5 entries  
1 duplicates  
Resulting number of units: 4  
Exact-match duplicates in upload:  
• Duplicate entry at serial: 00009

Uploaded data will be returned into the **Import Unit grid** for user verification before it is applied.

### 3.4.2 Unit Import Duplicates

In the process of importing units the import data is checked against the current units managed on the **SixView Manager**. *Duplications are automatically cleaned* from the import data, and the results are reported in the text box to the right of the import forms.

Duplicates with-in the import CSV are also cleaned and reported, if the matches are exact.



Data has: 5 entries and is comma separated.  
1 duplicates cleaned/ignored  
Resulting number of units: 4  
Exact-match duplicates in upload:  
• Duplicate entry at serial: 00009



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If the matches are not exact, but *share the same serial numbers*, this will stop the import process with a fatal error; the matches will still be reported so the file can be manually cleaned.

```
OFFICE_CSV - Notepad
File Edit Format View Help
00008, MajorTest, MinorTest, 12345678
00009, MajorTest, MinorTest, 12345679
00010, MajorTest, MinorTest, 12345680
00008, MajorTest, MinorTest, 12345678
00009, MajorTestOtherName, MinorTest, 12345679
00010, MajorTestOtherName, MinorTest, 12345680
00010, MajorTest, MinorTest, 12345680
00008, MajorTest, MinorTest, 12345678
```

CSV Data with duplicates  
non-exact match

### Fatal errors in upload:

- Break at non-exact-match duplicate: 00009 (line 5)
- Break at non-exact-match duplicate: 00010 (line 6)

### 3.4.3 Creating CSV Files

CSV is an acronym for: Comma separated values. These files can be output by a simple text editor, and can be in .txt or .csv extensions. They can also be output from Excel, or the Office equivalent as easy as choosing Save As and selecting CSV. The files may be opened again and will layout in the grid-Excel fashion.



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