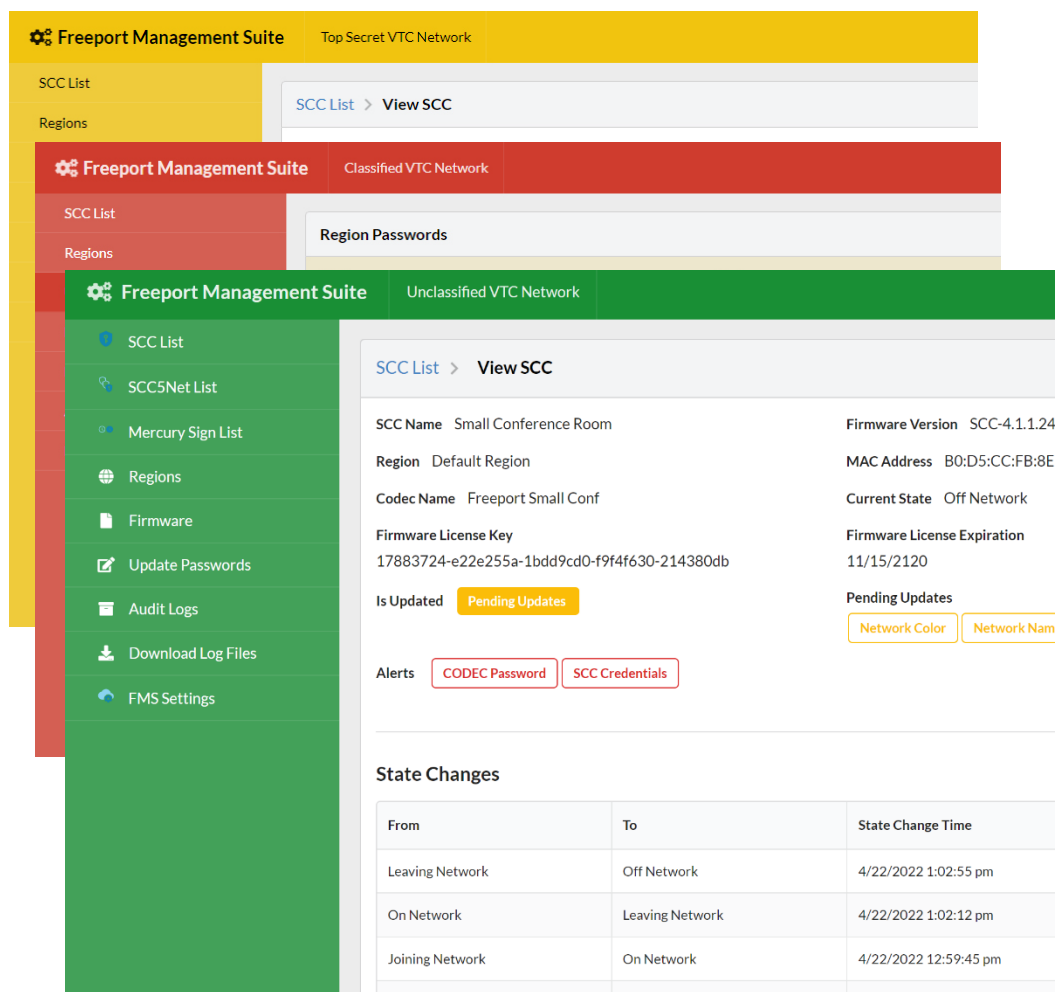


FREEPORT MANAGEMENT SUITE

USER GUIDE

(June 2023)



The screenshot displays the Freeport Management Suite interface with three overlapping panels representing different network security levels: Top Secret VTC Network (yellow), Classified VTC Network (red), and Unclassified VTC Network (green).

Top Secret VTC Network Panel:

- Header: Freeport Management Suite, Top Secret VTC Network
- Left Sidebar: SCC List, Regions
- Main Content: SCC List > View SCC

Classified VTC Network Panel:

- Header: Freeport Management Suite, Classified VTC Network
- Left Sidebar: SCC List, Regions
- Main Content: Region Passwords

Unclassified VTC Network Panel:

- Header: Freeport Management Suite, Unclassified VTC Network
- Left Sidebar: SCC List, SCC5Net List, Mercury Sign List, Regions, Firmware, Update Passwords, Audit Logs, Download Log Files, FMS Settings
- Main Content:
 - Header: SCC List > View SCC
 - Details for SCC Name: Small Conference Room
 - Firmware Version: SCC-4.1.1.24
 - Region: Default Region
 - MAC Address: B0:D5:CC:FB:8E
 - Codec Name: Freeport Small Conf
 - Current State: Off Network
 - Firmware License Key: 17883724-e22e255a-1bdd9cd0-f9f4f630-214380db
 - Firmware License Expiration: 11/15/2120
 - Is Updated: Pending Updates
 - Pending Updates: Network Color, Network Nam
 - Alerts: CODEC Password, SCC Credentials
 - State Changes Table:

From	To	State Change Time
Leaving Network	Off Network	4/22/2022 1:02:55 pm
On Network	Leaving Network	4/22/2022 1:02:12 pm
Joining Network	On Network	4/22/2022 12:59:45 pm

Point of Contact:

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1	Overview	2
2	Login.....	2
2.1	User Navigation	3
3	FMS Settings	4
3.1	User Group Settings	4
3.2	FMS Settings Color Theme	4
3.3	Admin Password.....	5
4	Regions.....	5
5	SCC List	6
5.1	Filter SCC List	6
5.2	Bulk Update	7
5.3	Approve SCC Units.....	7
5.4	Assign Firmware	7
5.5	Update Region.....	7
5.6	Delete SCC	7
6	Update Passwords	8
7	Firmware	9
8	Audit Logs.....	10
9	Download Log Files	11

1 Overview

The Freeport Management Suite (FMS) software provides the ability to centrally manage Freeport Multi-Domain Video Network Switch (MDVNS) components. Specifically, the Freeport SCC5Net device, the Freeport SCC device, and the Freeport Mercury device.

An SCC unit registered to the FMS will send an HTTP POST command to the FMS during power up (joining or leaving a video network). The command contains unique identifiers (e.g. MAC Address, IP Address, CODEC Type, and Firmware Revision) for authentication purposes. If password information for the CODEC being managed by the SCC unit has changed since the last authentication, the FMS will open a secure IP connection to the web server (SSL on port 443) of the SCC unit and will POST the new data to the unit's flash memory.

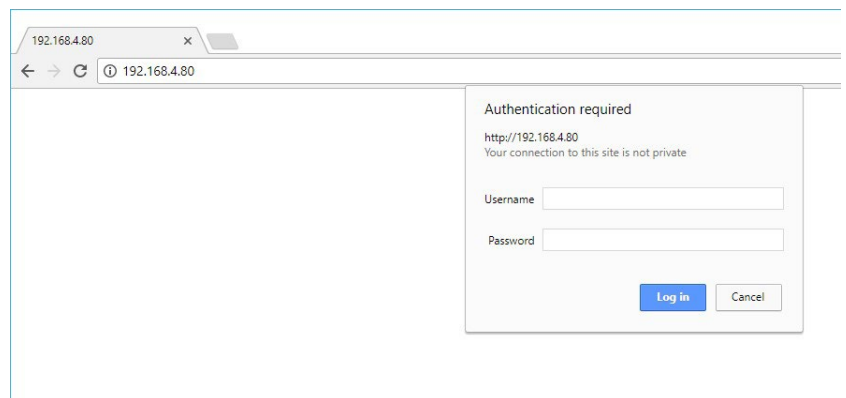
Please refer to the MDVNS Admin Guide (Section 7 – SCC Options & Maintenance) to configure the FMS management settings for each SCC unit that you wish to register with the server.

2 Login

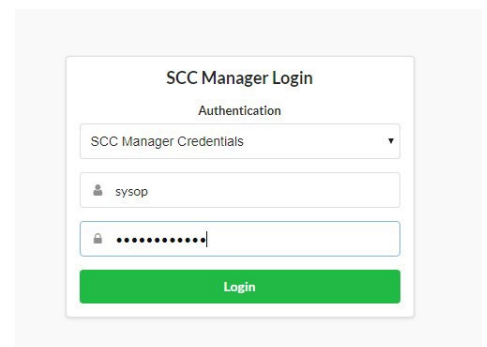
FMS is accessed using a web browser. The first time you connect to the FMS server you will need to login with a Windows account local to the FMS server.

Once you have authenticated with a Windows account that has access to the FMS server then you will be prompted to login into the FMS application using Windows Authentication or FMS Credentials. The first time you login you will need to use the default FMS Credentials:

Default Username: sysop
Default Password: freeporttech



From here you will have full access to the entire FMS application.



2.1 User Navigation

The user interface is divided into three areas.

1. Header Information Bar: Shows current user logged in and provides the logout button.
2. Navigation Side Bar: Provides buttons for navigating to the different functional areas.
3. Main Content Area: Displays information with respect to each functional area.

The screenshot shows the Freeport SCC Manager web application. The browser address bar indicates the URL is 192.168.4.80. The user is logged in as TCRPROD\Administrator. The navigation sidebar on the left includes the following options: SCC List, Regions, Update Passwords, Firmware, SCC Manager Settings, Audit Logs, and Download Log Files. The main content area displays the 'SCC List' table.

	Region	Codec	Name	MAC Address	IP Address	Current State	Last State Change Time	Updated	Firmware Version	Registration Approved		
<input type="checkbox"/>	Default Region	SX80	SCC C0:C1:D3	78:A5:04:C0:C1:D3	192.168.2.100	Error Recovery	10/4/2017 10:55:01 am	Updated	SCC-0.7.9.363	Approved	Delete	View
<input type="checkbox"/>	Test Bay	SX80	SCC C8:89:A1	78:A5:04:C8:89:A1	192.168.5.100	Error Recovery	8/14/2017 4:55:17 pm	Pending Updates	SCC-0.7.9.334	Approved	Delete	View

3 FMS Settings

The FMS Settings allows you to change how users login and the color theme of the application.

3.1 User Group Settings

There are three different access rights that users can be given. This is accomplished by entering an Active Directory domain group(s) into the three access rights groups:

The screenshot shows the 'User Group Settings' section of the SCC Manager. It contains three text input fields arranged horizontally:

- User Groups:** Contains the text 'Users'.
- Admin Groups:** Contains the text 'Corp_Admins'.
- Super Admin Groups:** Contains the text 'SA_Group'.

At the bottom right of the form is a green button labeled 'Update Group Settings' with a save icon.

- User role includes the ability to manage SCC Units.
- Admin role includes the ability to modify regions, passwords, and firmware.
- Super Admin role includes the ability to modify FMS Settings. The default user, sysop, is a Super Admin account.

3.2 FMS Settings Color Theme

You can change the theme color and also provide a network name that will appear on the header information bar. This makes it easier to differentiate the classification and network you are managing. Any SCC registered with FMS will acquire the theme color and network name.

The screenshot shows the 'FMS Settings Color Theme' section of the SCC Manager. It contains two main settings:

- Theme:** A dropdown menu with a green circle icon and the text 'Green Theme'.
- Network Name:** A text input field containing the text 'Unclassified Network'.

At the bottom right of the form is a green button labeled 'Update SCC Manager Settings' with a save icon.

3.3 Admin Password

This is where you can change the default password for the sysop account.

4 Regions

The SCC5Nets and SCC Units are organized into one or more regions. Each region has a single set of passwords for all SCC5Nets, SCC Units and codecs within that region.

The screenshot shows the 'Freeport SCC Manager' web application. The top navigation bar indicates the user is logged in as 'TCRPROD\Administrator'. The sidebar on the left contains links for 'SCC List', 'Regions', 'Update Passwords', 'Firmware', 'SCC Manager Settings', 'Audit Logs', and 'Download Log Files'. The main content area is titled 'Region List' and contains a table with the following data:

Region Id	Region Name	Description		
00000000-0000-0000-0000-000000000000	Default Region	This is the default region	Delete	Edit
609e39c2-929e-4632-98cb-5f27c30552b3	Test Bay	Freeport production area for testing SCC's with SCC Manager	Delete	Edit
7218a903-d488-41f2-b29c-695c59e830fc	VTC Demo	Freeport shop demos for production VTC vLAN	Delete	Edit

There is an 'Add New Region' button in the top right corner of the table area.

When new SCC5Nets and SCC Units register with the FMS they will automatically go into the Default Region. Later, each device can be moved to a different region if desired. This Regions view allows you to create new regions, change the name or description of existing regions, or delete a region. Before deleting a region, you must move all devices out of that region and into another region. The Default Region can never be deleted.

5 SCC List

This is the primary view for SCC management. From here you can see all the SCC Units that are registered with the FMS. This is where you edit any settings specific to an SCC. Along the top there are buttons for performing bulk updates on one or more SCC Units.

The screenshot shows the Freeport SCC Manager web application. The top navigation bar includes the application name, network status, and user information. The left sidebar contains navigation links. The main area displays the 'SCC List' with a table of registered units. The table has columns for Region, Codec, Name, MAC Address, IP Address, Current State, Last State Change Time, Updated, Firmware Version, Registration Approved, and actions (Delete, View). Two units are listed: 'Default Region' and 'Test Bay'.

Region	Codec	Name	MAC Address	IP Address	Current State	Last State Change Time	Updated	Firmware Version	Registration Approved	Actions
Default Region	SX80	SCC C0:C1:D3	78:A5:04:C0:C1:D3	192.168.2.100	Error Recovery	10/4/2017 10:55:01 am	Updated	SCC-0.7.9.363	Approved	Delete View
Test Bay	SX80	SCC C8:89:A1	78:A5:04:C8:89:A1	192.168.5.100	Error Recovery	8/14/2017 4:55:17 pm	Pending Updates	SCC-0.7.9.334	Approved	Delete View

5.1 Filter SCC List

The Show Filter button is always active and allows you to shorten the SCC list. You can filter the list by Region, Codec type, current State of the SCC, or by the Registration status of the SCC.

The screenshot shows the Freeport SCC Manager web application with filters applied. The 'Show Filter' button is active, and the 'Filter' dropdown menu is open, showing options for Region, Codec, State, and Is Registered. The table below shows the filtered results.

Region	Codec	Name	MAC Address	IP Address	Current State	Last State Change Time	Updated	Firmware Version	Registration Approved	Actions
Default Region	SX80	SCC C0:C1:D3	78:A5:04:C0:C1:D3	192.168.2.100	Error Recovery	10/4/2017 10:55:01 am	Updated	SCC-0.7.9.363	Approved	Delete View
Test Bay	SX80	SCC C8:89:A1	78:A5:04:C8:89:A1	192.168.5.100	Error Recovery	8/14/2017 4:55:17 pm	Pending Updates	SCC-0.7.9.334	Approved	Delete View

5.2 Bulk Update

Once one or more SCC Units are selected by checking the box to the left of each row then the bulk update buttons will become active.

SCC List												
SCC List												
Approve SCCs ✓ Assign Firmware Update Region Delete ✕ Show Filter ▼												
<input type="checkbox"/>	Region	Codec	Name	MAC Address	IP Address	Current State	Last State Change Time	Updated	Firmware Version	Registration Approved		
<input checked="" type="checkbox"/>	Default Region	SX80	SCC C0:C1:D3	78:A5:04:C0:C1:D3	192.168.2.100	Error Recovery	10/4/2017 10:55:01 am	Updated	SCC-0.7.9.363	Approved	Delete	View
<input checked="" type="checkbox"/>	Test Bay	SX80	SCC C8:89:A1	78:A5:04:C8:89:A1	192.168.5.100	Error Recovery	8/14/2017 4:55:17 pm	Pending Updates	SCC-0.7.9.334	Approved	Delete	View

This allows you to quickly Approve SCC Units, Assign Firmware, Update Region, or Delete SCC Units.

5.3 Approve SCC Units

When new SCC Units are configured to communicate with the FMS then they will send a registration request to the FMS the next time they are turned on. They appear on the SCC List with an Approval Pending status. The FMS will not send any information to new SCC Units until they have been approved. Then the SCC Units will receive new settings from the FMS.

5.4 Assign Firmware

You can assign firmware to each SCC in the list. The firmware available is managed in the Firmware management view. Registered SCC Units will check the FMS for new firmware assignments each time they turn on. If new firmware has been assigned then the FMS will push the firmware to the SCC and the SCC will update and restart. The current firmware version is displayed in the SCC List.

5.5 Update Region

If more than one region is defined, then the SCC Units can be organized into the different regions. Each region has its own set of passwords and when an SCC is assigned to a particular region it will then start receiving the password updates for that region.

5.6 Delete SCC

Deleting an SCC will remove from the FMS and the SCC will no longer receive updates. An SCC can re-register with the FMS but it will need to be approved again as well.

6 Update Passwords

Here is where you set the passwords for each codec type per Region. You also set the SCC5Net and SCC password per region.

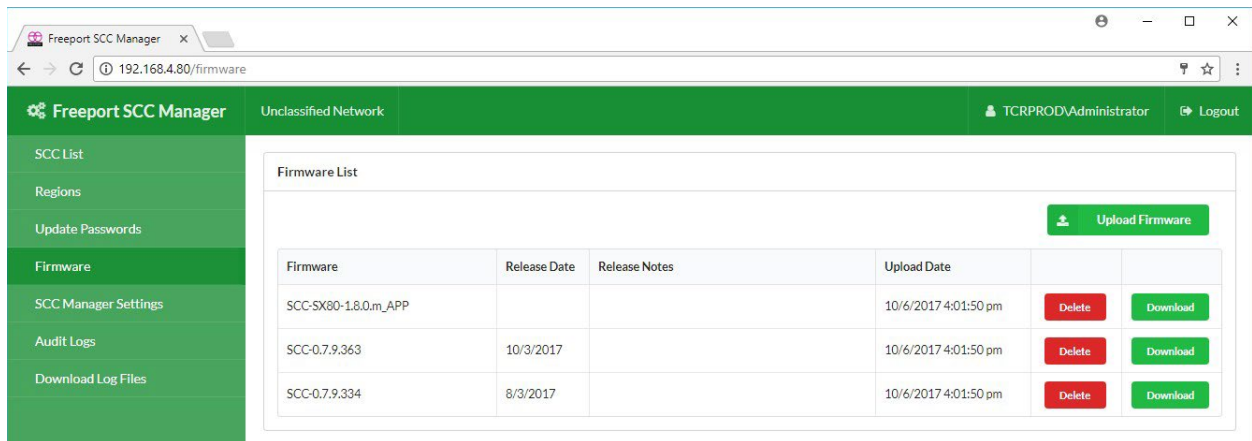
The screenshot shows the Freeport SCC Manager web interface. The browser address bar displays `192.168.4.80/regionPasswords`. The page title is "Freeport SCC Manager" and the user is logged in as "TCRPROD\Administrator". The sidebar on the left contains the following menu items: SCC List, Regions, Update Passwords (highlighted), Firmware, SCC Manager Settings, Audit Logs, and Download Log Files. The main content area is titled "Region Passwords" and features four filters: Region (All), Codec (All), Password Type (All), and Status (All). Below the filters are "Remove Filter" and "Apply Filter" buttons. The main table lists password settings for various regions and codecs.

Region	Codec	Password Type	Status	UpdatedBy	Update Time		
Default Region	N/A	SCC Password	Updated			Clear	Set
Default Region	C-Series	IP Password	Not Set			Clear	Set
Default Region	C-Series	Menu Password	Not Set			Clear	Set
Default Region	HDX	Admin Password	Not Set			Clear	Set
Default Region	MXP	IP Password	Not Set			Clear	Set
Default Region	MXP	Menu Password	Not Set			Clear	Set
Default Region	RPGGroup	Admin Password	Not Set			Clear	Set
Default Region	SX20	IP Password	Not Set			Clear	Set
Default Region	SX80	IP Password	Not Set			Clear	Set
Default Region	SX80	H.323 Password	Not Set			Clear	Set
Default Region	SX80	SIP Password	Not Set			Clear	Set
Test Bay	N/A	SCC Password	Updated			Clear	Set
Test Bay	C-Series	IP Password	Not Set			Clear	Set
Test Bay	C-Series	Menu Password	Not Set			Clear	Set
Test Bay	HDX	Admin Password	Not Set			Clear	Set
Test Bay	MXP	IP Password	Not Set			Clear	Set

Use the Region Passwords Filter at the top to isolate the type of password(s) you want to change. In the password list you can see the Status of the password which shows if the password is Not Set or Set. The last user to make a password change along with the date and time will be displayed as well.

7 Firmware

SCC5Net and SCC firmware can be uploaded into the FMS. Once it is uploaded then it will be available for updating registered devices. Each SCC needs to have a firmware version assigned to it. It is possible to update devices to the latest firmware and then roll back to a previous version if needed. Also, the firmware can be downloaded from the FMS to your local computer to manually copy the firmware and upgrade devices that do not have access to the FMS.



The screenshot shows the Freeport SCC Manager web interface. The browser address bar displays "192.168.4.80/firmware". The interface has a green header bar with the "Freeport SCC Manager" logo, "Unclassified Network", and user information "TCRPROD\Administrator" with a "Logout" link. A left sidebar contains navigation links: "SCC List", "Regions", "Update Passwords", "Firmware" (selected), "SCC Manager Settings", "Audit Logs", and "Download Log Files". The main content area is titled "Firmware List" and features an "Upload Firmware" button. Below this is a table with the following data:

Firmware	Release Date	Release Notes	Upload Date		
SCC-SX80-1.8.0.m_APP			10/6/2017 4:01:50 pm	Delete	Download
SCC-0.7.9.363	10/3/2017		10/6/2017 4:01:50 pm	Delete	Download
SCC-0.7.9.334	8/3/2017		10/6/2017 4:01:50 pm	Delete	Download

8 Audit Logs

The Audit Logs view provides a history of changes that users have made in the FMS.

The screenshot displays the 'Freeport SCC Manager' interface. The top navigation bar includes the application name, network status ('Unclassified Network'), and user information ('TCRPROD\Administrator' with a 'Logout' button). The left sidebar lists various management options, with 'Audit Logs' currently selected. The main content area, titled 'Audit Logs', shows a list of log entries. Each entry includes an icon (red 'A' for Administrator or green 'SCC' for SCC Manager), a description of the action, a timestamp, and a status indicator (green 'Success' or red 'Error'). For example, one entry shows 'TCRPROD\Administrator updated region VTC Demo[7218a903-d488-41f2-b29c-695c59e830fc]' with a 'Success' status. Another entry shows 'TCRPROD\Administrator could not login' with an 'Error' status. The interface also features a 'Show Filter' button and pagination controls at the bottom, indicating 'Showing 11 to 20 of 126 records.'

Depending on the type of log entry you can click on Show Details to see further information about that entry.

9 Download Log Files

This view allows the user to download a zip file of log files that can be used for troubleshooting or debugging the FMS. These are the files that Freeport customer support will use to identify where failures are occurring.

The screenshot shows a web browser window with the address bar displaying '192.168.4.80/textlogs'. The page title is 'Freeport SCC Manager'. The main navigation menu on the left includes: SCC List, Regions, Update Passwords, Firmware, SCC Manager Settings, Audit Logs, and Download Log Files (which is currently selected). The top right of the page shows the user 'TCRPROD\Administrator' and a 'Logout' link. The main content area is titled 'Download Log Files' and contains the following form elements:

- Start Date:** A text input field containing '01/01/2017'.
- End Date:** A text input field containing '10/06/2017'.
- Log Selection:** Three checkboxes, all of which are checked:
 - ☒ Include SCC Api Logs
 - ☒ Include SCC Manager Logs
 - ☒ Include System Logs
- Download Button:** A green button labeled 'Download' with a download icon.