



SAM21 Shelf Controller Administration and Security

What's new for SN06

Even though local logins to the Shelf Controllers are not needed for operations, maintenance, administration or provisioning (OAM&P), security of logins to the Shelf Controller operating system is improved. Access is denied from all hosts except the mate Shelf Controller, the CS 2000 Core Manager, and the host that provides the CS 2000 Management Tools. Access requires the use of the secure shell (ssh). Remote shell (rsh) access is permitted from the mate Shelf Controller.

Local passwords are enabled. Once logged in, password changes are enabled with the **passwd** command. However, password changes do not persist after locking the Shelf Controller. Contact your Nortel Networks account representative for information about passwords.

Since login access to the Shelf Controller is not needed to perform OAM&P, this document only discusses the OAM&P operations available from the CS 2000 SAM21 Manager client.

Security and administration strategy

Security for the SAM21 Shelf Controllers is implemented according to the items in the following list:

- physical security of the client workstation
- physical security of the SAM21 shelf
- security mechanisms available through the client workstation operating system
- Shelf Controllers only allow login connections from the CS 2000 Core Manager, the host that provides the CS 2000 Management Tools, and the mate Shelf Controller

Tools and utilities

There are no tools or utilities for security. The CS 2000 SAM21 Manager client is the interface for administration of the Shelf Controllers.

Note: If a Card View window is opened and a task or maintenance is completed, close the window rather than minimize the window. Memory consumption is kept to a minimum, but several unused and open Card View windows can consume memory on the CS 2000 SAM21 Manager client workstation.

User administration

The Shelf Controllers do not implement any custom security features. The CS 2000 SAM21 Manager client authenticates users when the application is started.

Adding a user

The Shelf Controllers do not provide user administration. The CS 2000 SAM21 Manager provides authentication, but not user administration. For procedures on how to add a user to the CS 2000 SAM21 Manager client workstation, contact your system administrator or refer to the operating system reference documentation.

Setting privileges

The Shelf Controllers and the CS 2000 SAM21 Manager client do not implement user privilege administration.

Removing a user

To prevent user access to the CS 2000 SAM21 Manager client, contact your system administrator to disable the user account on the workstation.

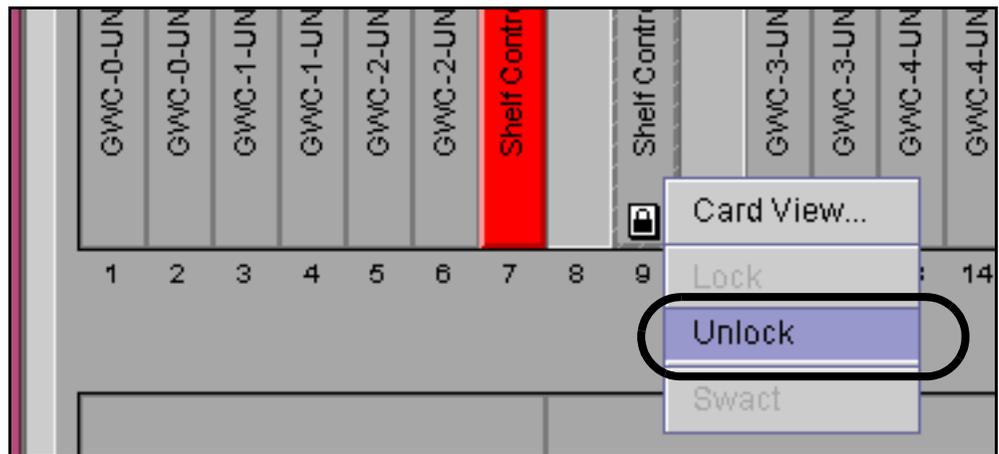
Device administration

Administration of the Shelf Controllers is done through the CS 2000 SAM21 Manager client.

Unlocking a shelf controller

At the CS 2000 SAM21 Manager client workstation

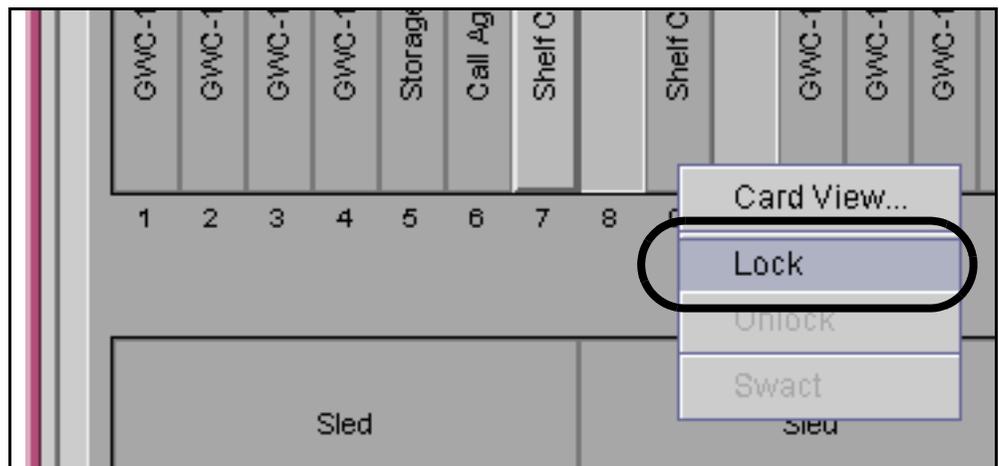
- 1 From the Shelf View, right click on the Shelf Controller and select Unlock from the context menu.



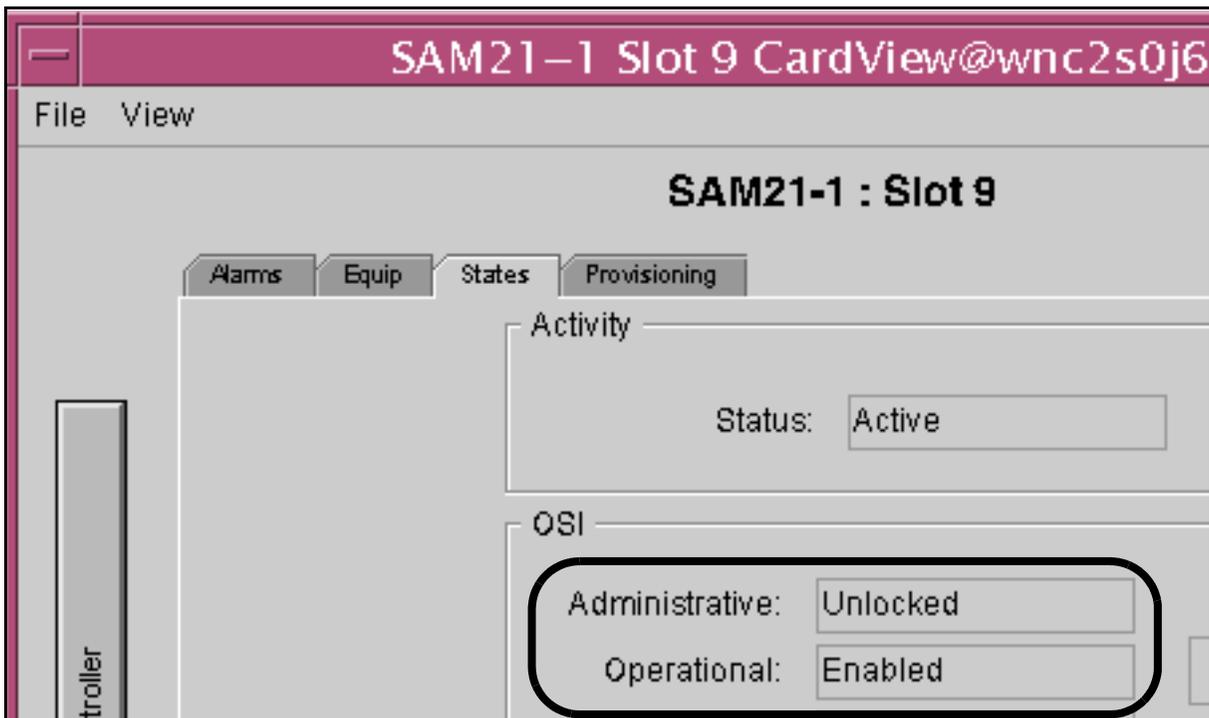
Locking a shelf controller

At the CS 2000 SAM21 Manager client workstation

- 1 From the Shelf View, right click on the Shelf Controller and select Lock from the context menu.



Note: Only lock a circuit pack that is in service. If a Shelf Controller is unlocked and then relocked before the Shelf Controller boots, flash memory can be corrupted and require a replacement Shelf Controller. Check that a Shelf Controller is Unlocked and Enabled from the Status tab of the Card View window.

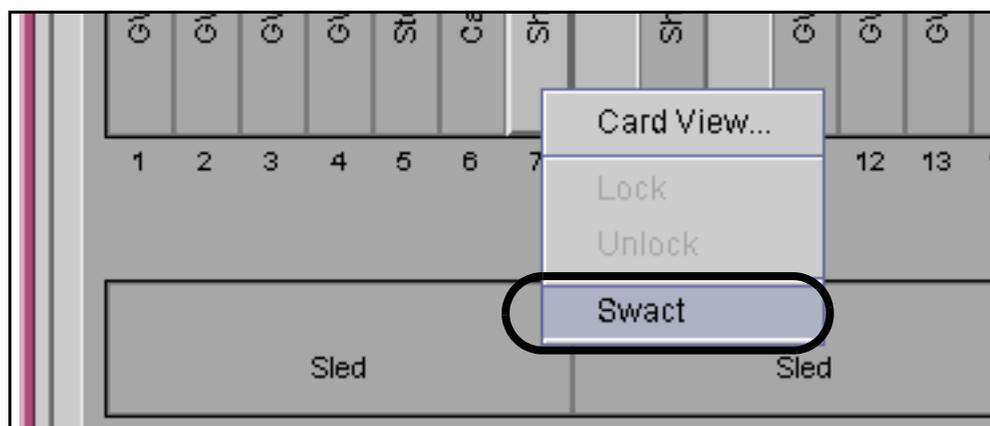


Invoking manual protection switch

At the CS 2000 SAM21 Manager client workstation

- 1 From the Shelf View, right click on the Shelf Controller and select Swact from the context menu.

Note: Swact is available on the active Shelf Controller only.



Replacing air filters

Replace the three air filters from the front of the fan sleds on the SAM21 shelf with part number A0828397. This part number includes three air filters. Replace these air filters every 10 000 hours. When performing the replacement, replace one air filter at a time and do not leave a fan uninserted for more than 1 minute.