RCP-200

Advanced remote control panel

Navigator User Guide

Version 1.90

M876-1900-104

18 June 2015

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Title	RCP-200 Version 1.90 Navigator User Guide
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1 Introduction

Overview

This guide describes how to configure and use RCP-200 Navigator for controlling and monitoring devices required in the broadcast signal path for interfacing, routing and distribution. RCP-200 Navigator is designed and produced by Grass Valley.

RCP-200 Navigator is a stand-alone, PC-based control application which offers affordable control directly from a desktop or laptop that has Windows 7™ or Windows 8™. It provides easy list-based control and configuration of up to 100 Densité Series modules. Operators are provided with quick access to devices and parameters for fast and easy control.

In brief, RCP-200 Navigator offers the following key features and benefits:

- a Navigator window with different sorting options, similar to iControl Navigator,
- drivers for most Grass Valley Densité,
- the ability to interface up to 100 devices,
- easy problem resolution using status indicators,
- ideal for *set and forget* operations.

Differences Between RCP-200 Navigator and the Standard iControl System

RCP-200 Navigator *does not*:

- provide thumbnails,
- use a GSM (Global Status Manager) for central management of alarm conditions and error logging,
- support audio level meters (ALMs),
- support Virtual Service Managers for configuring and controlling Grass Valley proc amp devices,
- support *Tolerance* adjustment

2 Using RCP-200 Navigator

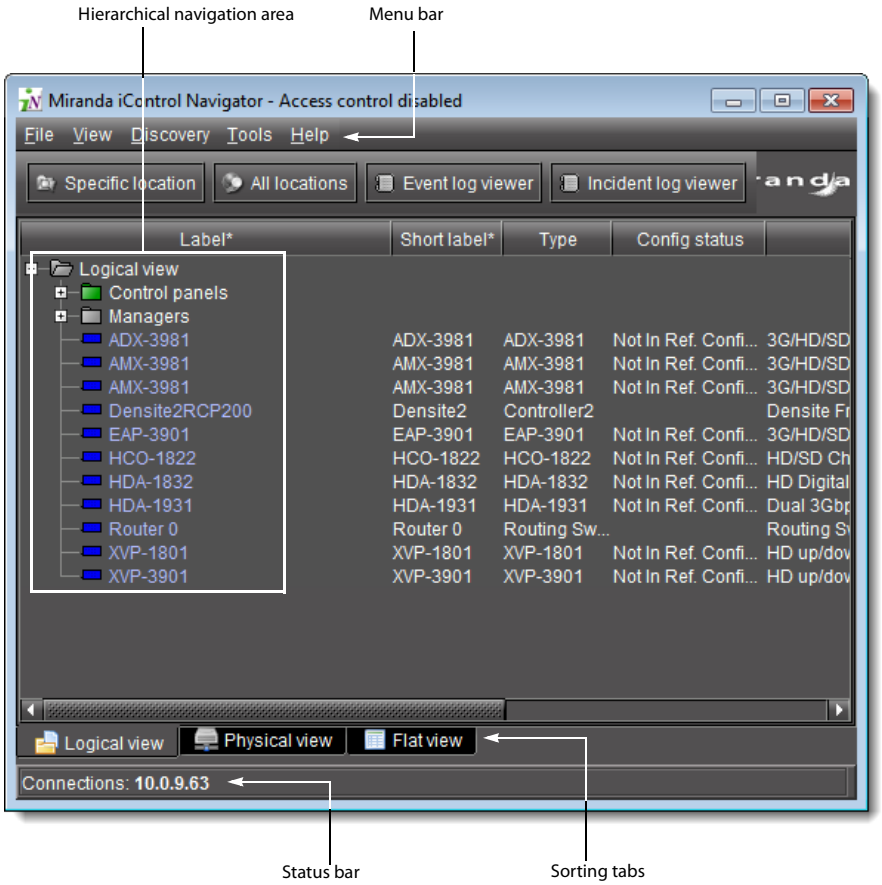
This section explains what can be accomplished with RCP-200 Navigator.

Summary

Key Concepts

Navigator Window

When you open RCP-200 Navigator, you see the menu bar, the hierarchical Navigator area, sorting tabs for three different Navigator views, and a status bar.



The *menu bar* provides access to RCP-200 Navigator's main features.

The *status bar* is where RCP-200 Navigator displays messages related to its current operations.

The *sorting tabs* are a way of filtering the information provided in the hierarchical Navigator area to include all devices or a subset.

The *hierarchical Navigator area* is a representation of all the devices interfaced with RCP-200 Navigator.

You can use the plus ⊞ and minus ⊟ buttons in the hierarchy to navigate the hierarchical list views by expanding and collapsing folders and groups (see "Managing Device Groups", on page 14 for details).

The Navigator window shows the current status of every device and service within your RCP-200 Navigator system. By default, the Navigator window displays the following information for each device:

Status icon	Green (OK), yellow (warning), red (error), or grey (not connected). See "Alarm Status" on page 9.
Label	The device type (by default) or a user-specified name. The text color reflects the device configuration status. See: • "Changing Device Information" on page 14 • "Reference Configuration" on page 9 • "Adding Cards to the Reference Configuration" on page 18 • "Removing Cards from the Reference Configuration" on page 18
Short label	Abbreviated 8-character label.
Source ID	Name of the signal source.
Device type	The device type.
Comments	Optional; may be entered by the user.
Config status	Whether the device is or is not part of the Reference Configuration, also if there is a mismatch between the actual and defined device. See "Reference Configuration" on page 9.
Frame	Name of the frame housing the device (when applicable).
Slot	Number of the slot where the device is located inside the frame (when applicable).

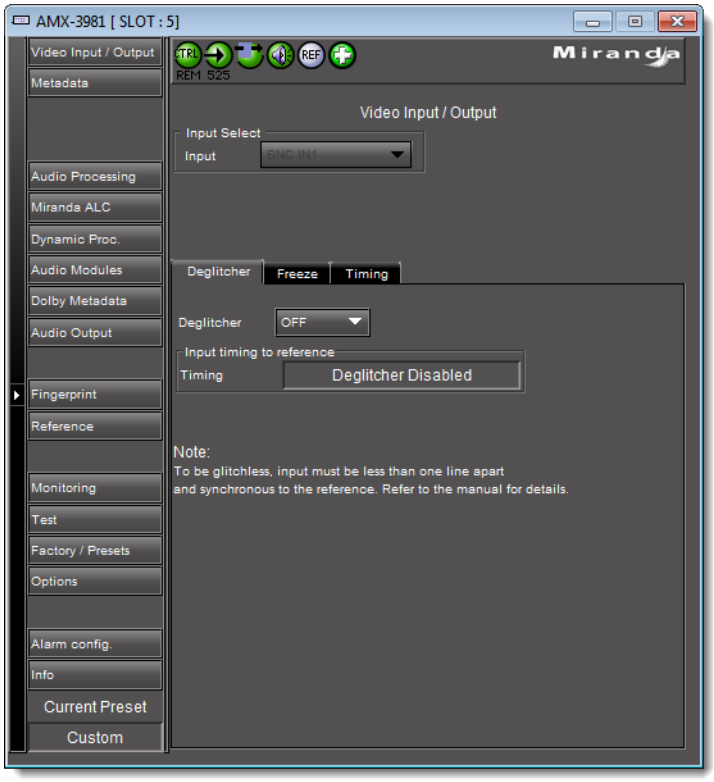
Control Panels and Device Parameters

Most Grass Valley devices can be controlled using *control panels*. A control panel is a software interface that lets you monitor and control various device parameters.

Note: Grass Valley cards are shipped with Installation & Operation Guides that provide detailed descriptions of their respective control panels, along with instructions on their use.

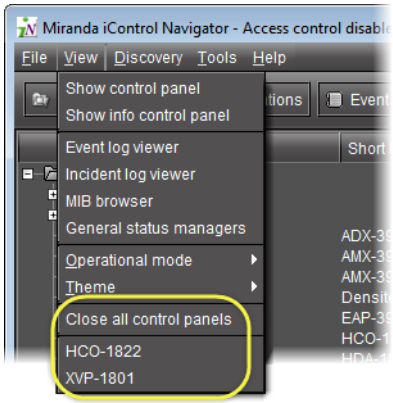
To access the control panel for a device, double-click the device in the Navigator window. Alternatively, right-click the device name, and then click **Show control panel** on the shortcut menu.

The device name is displayed at the top of its control panel, along with a *dashboard* containing one or more icons representing the status of key device parameters. Error conditions are indicated by color and by a text message that appears below the dashboard. If more than one error condition is present, hold the pointer over an icon to continuously display its associated error message; otherwise the display cycles through all reported errors.



Note: If the *Control* icon on the dashboard is yellow, this indicates that local card control is active—the card is being controlled from a local hardware control panel. In such a case, any changes made using the RCP-200 Navigator interface will have no effect on the card.

When control panels are open their names are added to the **View** menu. To bring a specific panel to the foreground, click its name on the **View** menu. To close all open panels at once, click **Close all control panels**.



Control Panel Tabs

> **Note:** For more information on a control panel, please refer to the Installation & Operation Guide for the corresponding device.

The table below lists common control panel tabs and their typical purposes:

Tab	Description
Input	Allows input selection, second input operation mode selection, and control of the deglitcher and freeze functions.
Video Processing	Contains color-correction parameters that apply to the input signal.
Video Output	Allows control over several aspects of the high definition and standard definition video output: aspect ratio conversion, timing control, image quality processing, metadata insertion.
Audio Processing	Provides audio processing and delay parameters for the embedded or discrete audio input channels. These parameters affect both the output audio channels (embedded and AES) and the audio channels sent to other companion cards.
Audio Output	Provides extended audio processing for the 16 audio channels embedded in the HD/SD outputs, including audio channels mixing and audio embedding mode.
Timing	Provides access to timing adjustments which affect the signal outputs.
Factory/Presets	Allows user and device profile management, and restoring of a device's factory default configuration.
Options	Describes available options for the device, and provides information on how to enable or disable them.
Alarm Config.	Opens a separate window where alarm status can be monitored and configured.
Info	Allows viewing and modifying information about a device (e.g. labels, source ID, comments) to help identifying a specific device in a complex setup.

Info Control Panels

The Info control panel is available for all device types. The Info panel includes device identification information such as a label, a short label, the device type, comments, source ID, config status, frame, and slot. You can display the Info panel from the device control panel, or you can right-click a device in the Navigator window and then click **Show info control panel** from the shortcut menu.

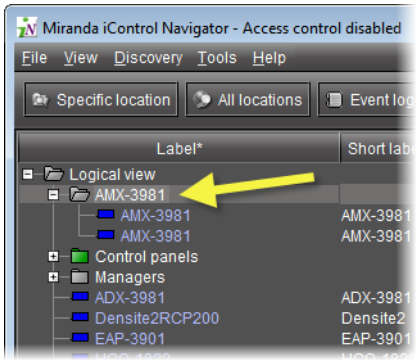
From the **Info** panel, you can change the name of the selected device and type comments. By default, the device name takes the type identification; however, you will find it helpful to rename devices using meaningful names. Once you change the device name in the control panel, the new name will be displayed in Navigator, making the device easier to locate.

Example of an Info control panel for a specific device

Devices Groups

RCP-200 Navigator allows you to organize devices into logical groups, making them easier to locate and to manage. A *device group* is a folder into which you drag selected devices. You can create as many device groups and subgroups as you want.

When you create a device group, you automatically create a virtual alarm that displays the overall status of the member devices. The color of the device group's folder icon will change when one or more of its members displays an error or warning status. For example, if one member device changes status as a result of a critical error, then the group's folder icon will turn red. If no devices are assigned to a group, its folder icon will be white.



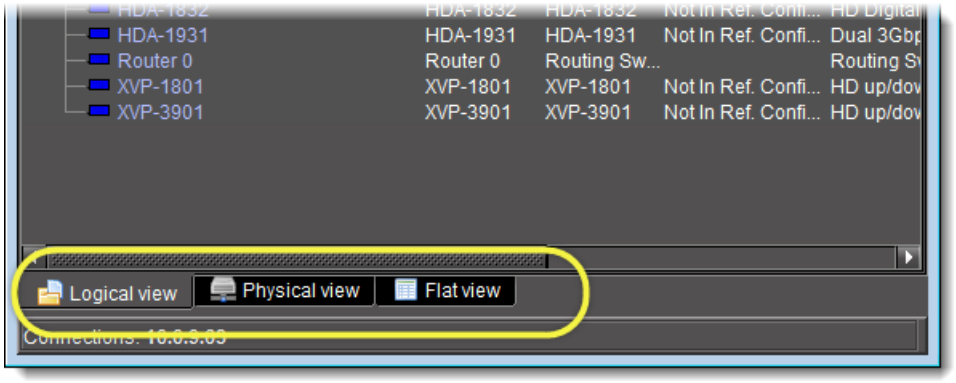
New device group folder

> **Note:** Device groups can only be created in (and are only visible in) RCP-200 Navigator's Logical sort mode.

Views

Sorting allows you to determine the way in which devices will be arranged for display in RCP-200 Navigator.

Three views are available by clicking tabs at the bottom of the Navigator window.



Navigator tabs (circled)

- **Logical view** displays all active services and devices interfaced with RCP-200 Navigator. The devices and services may be organized into groups. Groups and their contents are arranged in alphabetical order. Ungrouped items are displayed at the end of the list. Empty slots are not shown, unless they are in the *Reference Configuration* (see "Reference Configuration", on page 9).
- **Physical view** arranges the devices relative to their physical connections and network location. All frame slots are shown. Empty slots show up as **Empty**, unless the card is designated as **In Ref. Configuration**, in which case it will show up as before, but with the description **missing from slot**. Devices are sorted by the name you typed when you added a Densité Communicator service.
- **Flat view** shows all devices in alphabetical order without any grouping.

Alarm Status

The current status of an alarm determines the color of any on-screen object associated with that alarm: the LED-like icon to the left of a device or service label, an enclosing folder, etc. Each possible alarm status is represented by a color. Alarm statuses are dynamically updated.

RCP-200 Navigator implements an industry standard[1] color code definition for all alarms. The following table describes the color scheme used by RCP-200 Navigator to display alarm statuses, and how they map to the ITU-TX.733 Recommendation:

Color	Status	ITU-T X.733	Description
White	*Pending*	—	Alarm exists but has not yet been reported. RCP-200 Navigator is waiting for the hardware or driver to update the alarm. White is the default status for a new alarm, before its current status is known. This status should be replaced very quickly, though it might persist as the result of a slow network connection. If a service is stopped, then all alarms originating from this service will revert to pending status.
Green	*Normal*	*Cleared*	The device, service, or signal is operating within allowable parameters.
Yellow	*Minor*	*Minor/Warning*	Warning that an error of low importance has occurred.
Orange	*Major*	*Major*	Warning that an error of intermediate importance has occurred.
Red	*Critical*	*Critical*	Warning that an error of critical importance has occurred.
Gray	*Unknown*	*Indeterminate*	Failure to get the status of an alarm provider, even though the source device has been detected. This could happen, for example, as the result of (1) a lost network connection, or (2) a loss of signal that would trigger a critical alarm for signal presence but leave all other related alarms in an unknown status (e.g. the freeze or black status is unknown if a signal is not present).
Blue	*Non-existent*	—	A pseudo-status representing an alarm that has been removed (or was never added). If an alarm provider is removed—for example, if a card is removed from a frame—the virtual alarm will be unable to detect an alarm status, and will therefore report the "non-existent" status as blue.
Black	*Disabled*	*Not supported*	Alarm exists but has been disabled at the source. Some devices can have certain alarms disabled on the hardware itself, resulting in these alarms appearing black.

Reference Configuration

The *reference configuration* is a feature of RCP-200 Navigator that allows you to keep track of important cards, or groups of cards. If a card is removed from a slot, the default behavior in RCP-200 Navigator is for the card to disappear from the list in the Logical and Global views. In the Network view, the device name is replaced by the slot number followed by the indication `Empty`.

1. Default alarm severities in RCP-200 Navigator are compliant with the *intent* of ITU-T Recommendation X.733, *Information Technology – Open Systems Interconnection – Systems Management – Part 4: Alarm Reporting Function*

When you to designate a card as part of the reference configuration, then the name of the card and the slot number it occupies are retained. If the card is removed, its label will be visible as before, but with the description `Missing from slot` appended.

Detailed Directions

Opening RCP-200 Navigator

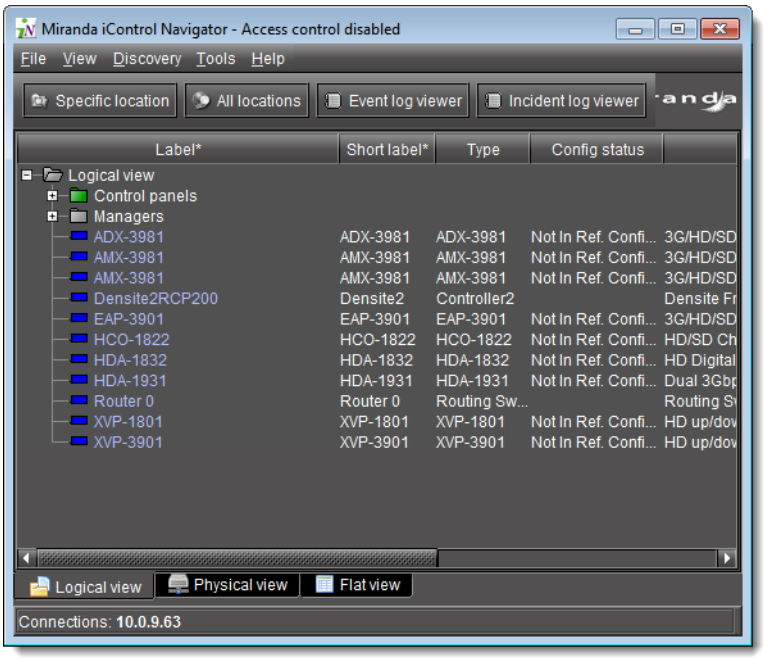
REQUIREMENT

Before beginning this procedure, make sure you have opened the RCP-200 Main Web page.

To open RCP-200 Navigator

- On the RCP-200 Main Web page, click **iC Navigator**.

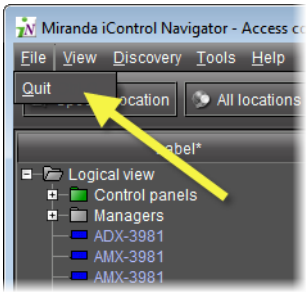
RCP-200 Navigator appears.



Closing RCP-200

To close RCP-200 Navigator

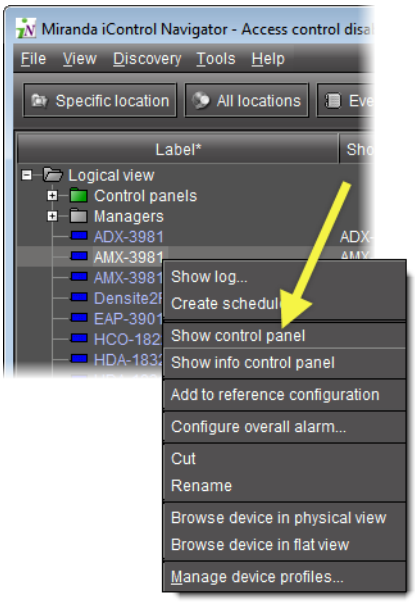
- On Navigator's **File** menu, click **Quit**.



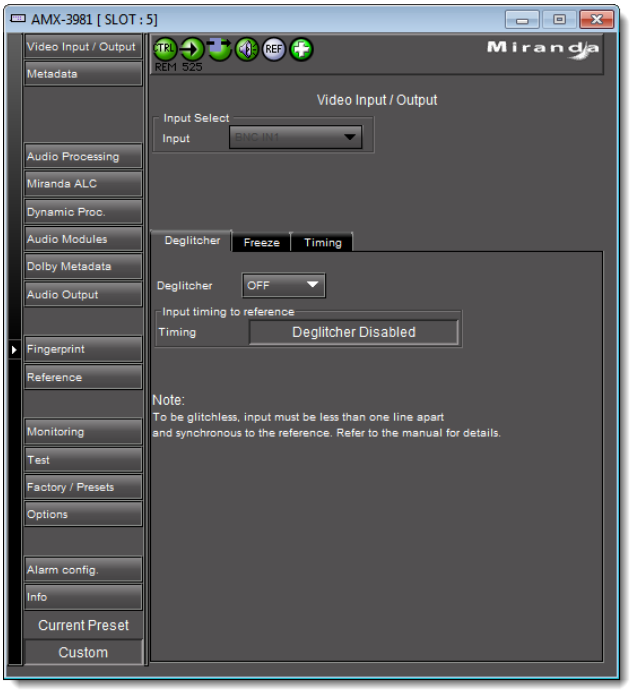
Opening Control Panels

To open the control panel for a device

- In Navigator, right-click the device, and then click **Show control panel**. Alternatively, double-click the device.



The device's control panel appears.

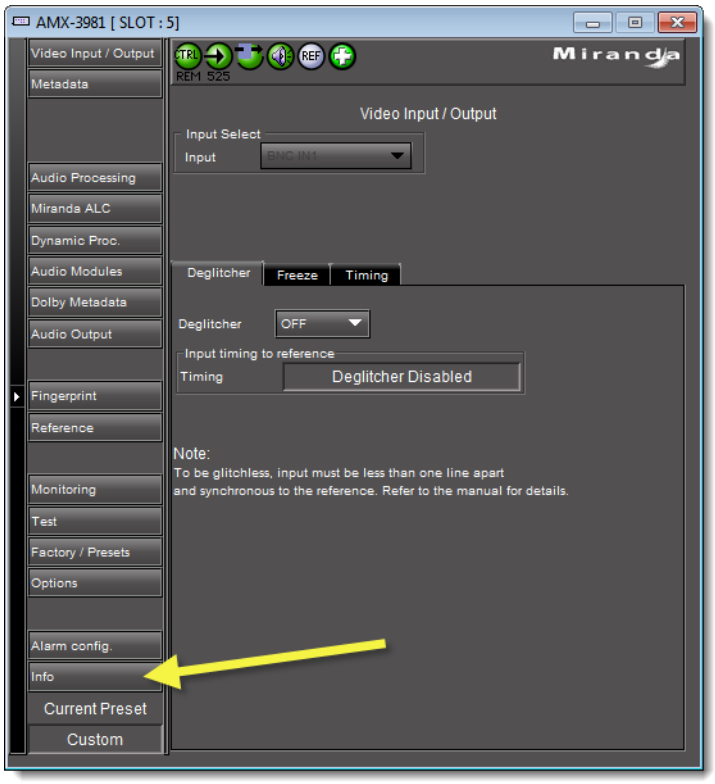


Opening Info Control Panels

To access the Info control panel for a device

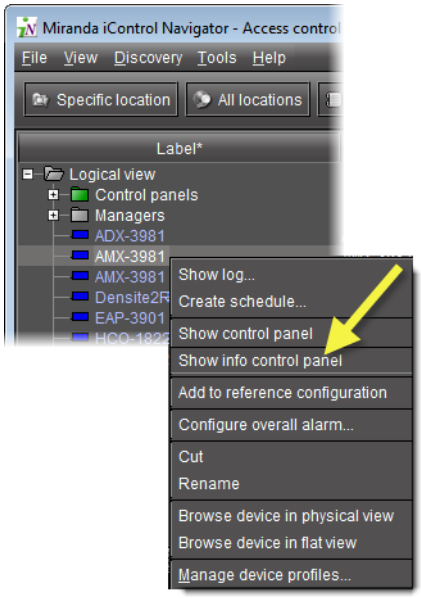
- Do *ONE* of the following:

- Open the device's control panel (see "Opening Control Panels", on page 11), and then click the **Info** tab.



OR,

- In Navigator, right-click the device, and then click **Show info control panel**.



Changing Device Information

Some device information can be customized from the device's Info control panel. Changes made in the control panel are immediately applied to the device.

- The device name appears in the **Label** box.
- You can modify the source ID and add comments in the corresponding boxes.

Renaming Devices

To rename a device

1. Open the **Info** window for the device you wish to rename (see "Opening Info Control Panels", on page 12).
2. Type the new name in the **Label** box.

   The changes are immediately applied.

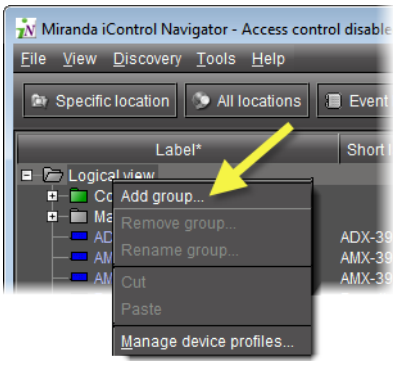
Managing Device Groups

With RCP-200 Navigator, you can create as many device groups as necessary for your system, and then place the various devices into the appropriate groups. A device can only be a member of one group.

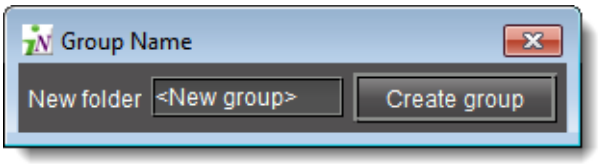
Creating Groups

To create a group

1. In Navigator, click **Logical view**.
2. Right-click the location for the new group (the root folder, or another folder within the hierarchical structure) and then click **Add Group**.



The **Group name** window appears.



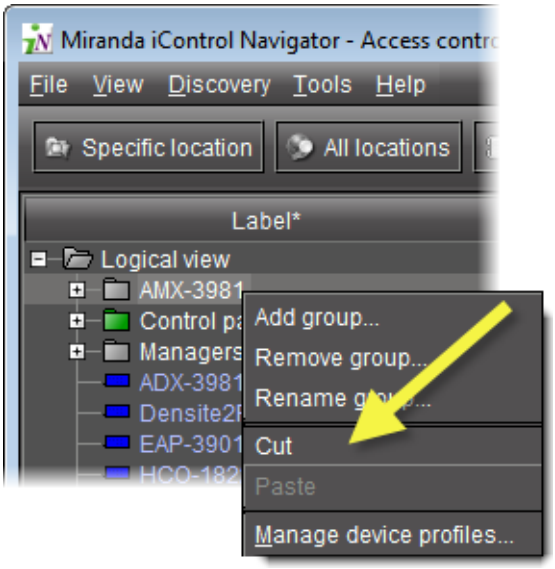
3. Type a name for the group (e.g. `satellite` or `remote`), and then click **Create Group**.

The group appears as a new folder in the chosen location.

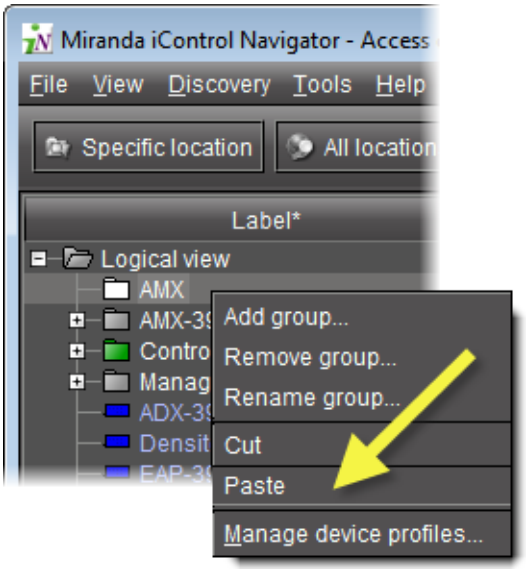
Moving Groups

To move a group

1. In Navigator, right-click the group you wish to move, and then click **Cut**.



2. Right-click the destination folder, and then click **Paste**.



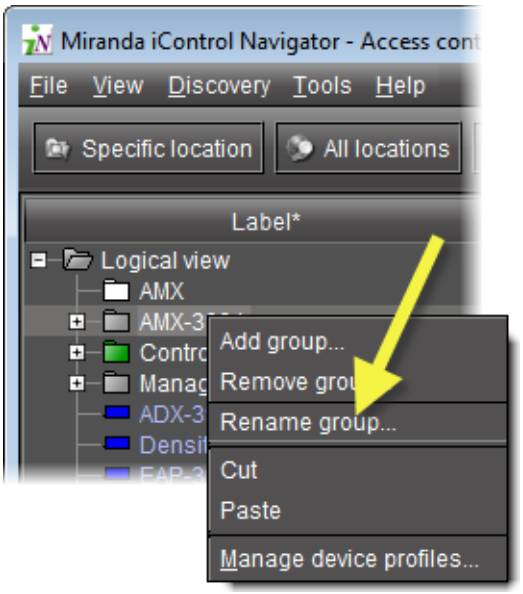
The group appears as a new folder in the chosen location.

Renaming Groups

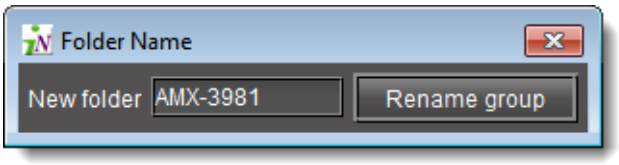
To rename a group

1. In Navigator, select the group folder you wish to rename.

2. Right-click the group folder and then click **Rename group**.



The **Folder Name** window appears.



Folder Name window

3. Type a new name for the group, and then click **Rename group**.

   The new group name appears for the chosen folder.

Removing Groups

To remove a group

1. In Navigator, expand the group folder you wish to remove.
2. Remove all devices from the group folder by dragging them to another folder or to the root of the folder structure (only empty groups can be removed).
3. Right-click the empty group folder, and then click **Remove group**.
4. When prompted to confirm the removal, click **Yes**.

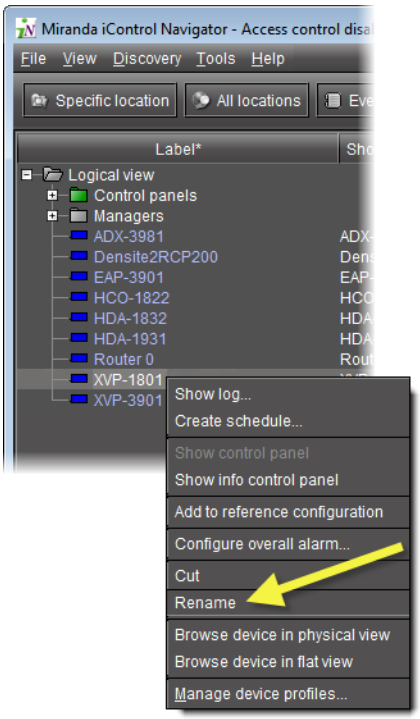
   The group no longer appears in Navigator.

Editing Densité Card Metadata

To edit a card's metadata

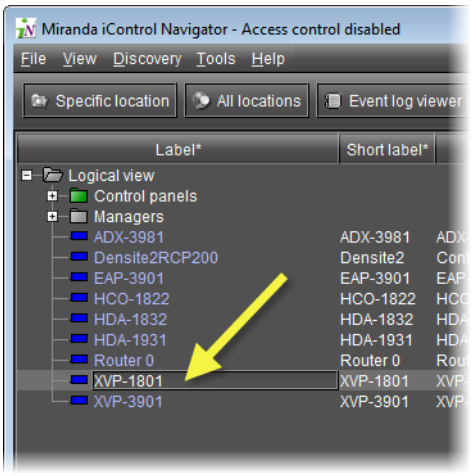
1. In Navigator, locate the row corresponding to the card whose metadata you would like to edit.

2. In the row corresponding to this card, find the column corresponding to the metadata you would like to change.
3. At the intersection of the row and column identified in step 2, right-click and then click **Rename**.



> **Note:** You may only rename the **Label**, **Short label**, **Type**, **Comments**, and **Source ID** metadata.

4. Type the desired text in the selected cell.



5. When you have finished typing, click anywhere in Navigator to commit the change.

Adding Cards to the Reference Configuration

The reference configuration (see page 9) is a way to keep track of cards or groups of cards important to your setup.

To add a card to the reference configuration

- In Navigator, right-click the card you wish to add, and then click **Add to reference configuration**.

  The phrase **In Ref. Configuration** appears in the **Config status** column.

> **Note:** If this card is physically removed from its slot, the card name remains in the **Label** column, along with the phrase **Missing from slot**.

Removing Cards from the Reference Configuration

To remove a card from a reference configuration

- In Navigator, right-click the card you wish to remove, and then click **Remove from reference configuration**.

  The phrase **Not In Ref. Configuration** appears in the **Config Status** column.

Contact Us

Grass Valley Technical Support

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To obtain a local phone number for the support center nearest you, please consult the *Contact Us* section of Grass Valley's web site (`www.grassvalley.com`).

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