



The DashBoard Role-Based Access Control Guide

For DashBoard v9.15 & Ross Platform Manager v1.6+



Ross Video©

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J. IR.ss

David Ross CEO, Ross Video dross@rossvideo.com

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DashBoard RBAC Guide

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To avoid the potential release of those substances into the environment and to diminish the need for the extraction of natural resources, Ross Video encourages you to use the appropriate take-back systems. These systems will reuse or recycle most of the materials from your end-of-life equipment in an environmentally friendly and health conscious manner.

The crossed-out wheeled bin symbol invites you to use these systems.



If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration.

You can also contact Ross Video for more information on the environmental performances of our products.

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Introduction

This chapter contains the following sections:

- Product Summary
- Features
- Functional Overview
- Applications
- Installation Overview
- Documentation Terms
- Documentation Conventions
- Contacting Technical Support

Overview

This chapter provides an introduction to the benefits of using the Ross Platform Manager to provide Role-Based Access Control (RBAC) within the DashBoard software application, and includes general information on functions and possible applications.

The Ross Platform Manager and appropriate licenses must be purchased to use Role-Based Access Control and other User Rights Management features described below.

Product Summary

The DashBoard client has the ability to detect devices on a subnet and can enable complete control of all settings on all devices. The DashBoard User Rights Management (URM) dialog is designed to enable administrators to assign and manage user permissions, and determine the level of access for those users. For example, one user is responsible for adjusting the network settings for one type of device, while another user manages the input and outputs of another device type.

***** Note: For more details on RPM capabilities, see the *Ross Platform Manager User Guide*.

Features

DashBoard offers the following features when combined with the Ross Platform Manager (RPM):

- Role-Based Access Control (RBAC) managed by RPM
- User Rights Management (URM) for DashBoard Connect / openGear device ecosystem
- LDAP Authentication
- ★ Note: Requires purchase of the RPM Server, software, and licenses for LDAP Authentication, and Role Based Access Control.

Functional Overview

Once the RPM Server has been added to DashBoard, and Role-Based Access Control permissions are configured, users must log in to the DashBoard client with a username and password before gaining access to the devices on their network. Access to devices is now configured using the options available in the DashBoard User Rights Management dialog.

You have the option of connecting to an external Lightweight Directory Access Protocol (LDAP) Server via the Ross Platform Manager (RPM) interface, or you can use either the RPM interface or DashBoard interface to configure users and roles.

Applications

You can see a diagram below of workflows where the Ross Platform Manager is used to provide authentication for DashBoard, to integrate existing user identity management systems and to provide secure a connection for supported Ross products and DashBoard Connect devices.



- **a.** DashBoard & RPM Adding an RPM node to the DashBoard tree allows administrators to require users to login to access DashBoard Connect devices. RPM is used for authentication.
- **b. RPM & Active Directory** You can integrate your existing user identity management system. RPM can retrieve users and roles from existing LDAP directories or provides the ability to configure Role-Based Access Control (RBAC) from either the RPM web-browser based interface or DashBoard Software Application interface.
- **c.** DashBoard Connect Devices & Supported Ross Products Once devices accessed through DashBoard are configured to require connection to an authenticated DashBoard instance, connection requests from unauthenticated sources are declined. DashBoard device permissions can be set to allow read, write, and/or upgrade permissions based on a user's assigned role.

Installation Overview

The <u>Managing Access Control in DashBoard</u> chapter will provides instructions for adding the RPM Server to DashBoard, and configuring RPM Server's default access control settings in the RPM web-based interface.

Documentation Terms

- All references to the **DFR-8300 series frame** also includes all version of the 10-slot and 20-slot frames and any available options.
- "Card" refers to openGear terminal devices within openGear frames, including all components and switches.
- "DashBoard window" refers to the main DashBoard client interface.
- "Device" refers to a product that can be monitored and controlled using DashBoard. Devices include NK routers, openGear cards, and DashBoard Connect devices.
- "Frame" refers to any openGear frame within your video system.
- "System" refers to the mix of interconnected production and terminal equipment in your environment.
- "Tree View" refers to the Basic Tree View and Advanced Tree View unless otherwise noted.
- "User" refers to the person who uses the DashBoard client.

Documentation Conventions

Special text formats are used in this guide to identify parts of the user interface, text that a user must enter, or a sequence of menus and sub-menus that must be followed to reach a particular command.

Interface Elements

Bold text is used to identify a user interface element such as a dialog box, menu item, or button. For example:

In the Media Manager Client, click Channel 1 the Channels section.

User Entered Text

Courier text is used to identify text that a user must enter. For example:

In the File Name box, enter Channel01.property.

Referenced Guides

Italic text is used to identify the titles of referenced guides, manuals, or documents. For example:

DashBoard Server and User Rights Management User's Guide

Menu Sequences

Menu arrows are used in procedures to identify a sequence of menu items that you must follow. For example, if a step reads "Server > Save As," you would click the Server menu and then click Save As.

Interface Navigation

Navigation procedures assume that you are running Microsoft® Windows®. If you are running Mac® OS or Linux® Fedora®, menu names and options may differ.

Important Instructions

Star icons are used to identify important instructions or features. For example:

Contact your I.T. Department if you experience communication issues with DashBoard and are running anti-virus software.

Getting Help

To access the built-in Help system, click Help in the main toolbar.

Alternatively a user can press F1 to open **Dynamic Help**. The user can then click on areas of the window to display corresponding help information.

The DashBoard User Guide is also supplied as a print-ready PDF file on the Ross Video website.

Contacting Technical Support

At Ross Video, we take pride in the quality of our products, but if problems occur, help is as close as the nearest telephone.

Our 24-hour Hot Line service ensures you have access to technical expertise around the clock. After-sales service and technical support is provided directly by Ross Video personnel. During business hours (Eastern Time), technical support personnel are available by telephone. After hours and on weekends, a direct emergency technical support phone line is available. If the technical support person who is on call does not answer this line immediately, a voice message can be left and the call will be returned shortly. This team of highly trained staff is available to react to any problem and to do whatever is necessary to ensure customer satisfaction.

- Technical Support: (+1) 613-652-4886
- After Hours Emergency: (+1) 613-349-0006
- E-mail: techsupport@rossvideo.com
- Website: http://www.rossvideo.com

Managing Access Control in DashBoard

The Ross Platform Manager (RPM) can be used to manage Role-Based Access Control (RBAC) in the Ross facility control system, DashBoard. An RPM server can manage access to other components in the DashBoard device tree, including DashBoard Connect/openGear devices and device pages. RPM supports configuring users and roles natively, or it can sync with an existing Lightweight Directory Access Protocol (LDAP) directory server. This chapter provides steps for managing access control in DashBoard, and assumes that user roles and groups have already been configured using RPM or an LDAP directory server that RPM is connected to.

★ To use RBAC in DashBoard, an RPM license for RBAC must be purchased and activated. To acquire the appropriate licenses, please contact a representative from Ross Video Technical Support.

This chapter discusses the following topics:

- Before You Begin
- Configure Permissions in RPM
- Adding the RPM Server to DashBoard
- Apply RBAC Permissions in DashBoard
- Login Settings in DashBoard
- Enabling a DashBoard connection to RPM over HTTPS (only for an RPM Server secured via HTTPS)

Before You Begin

This guide assumes that RPM has already been purchased through Ross Video Technical Support and that the required Role Based Access Control license and, if required, LDAP Authentication license have been purchased. You can find the contact information for Ross Video Technical Support in the **Welcome > Contact Us** tab of this manual.

Configure Permissions in RPM

You can configure the default access control permissions and name for the Ross Platform Manager Server in the RPM web interface. RPM can be configured to provide a default permission level for users, to provide access or deny permission. Once it has been configured on the RPM side, an administrator can set up customized role-based access (RBAC) permissions for each DashBoard component.

Configuration	
🏧 📮 🏟 📑 🍇 🗖 🦉	
Access Control Configuration	
Server Name	
The value here will be displayed in the DashBoard device tree	RPM Server
Default Permission Setting	
Deny	

Figure 2.1 An RPM Server is displayed in the RPM web-based interface with default permissions set to deny

To configure the default access control permissions in RPM

1. Log in to your Ross Platform Manager interface as a system administrator or root user.



- 2. On the main toolbar, click the Configuration icon. If the Configuration icon is not visible, you are not an administrator and cannot configure the server.
- **3.** On the **Configuration** window toolbar, click the **Second Access Control** icon.

The Access Control panel opens.

4. For the RPM Server Name, enter a meaningful name. For example RPM Server - Deny or RPM Server - FullAccess.

- 5. For the Default Permissions settings, select one of the following:
 - > Allow Select this as the default setting to allow users full access to components in the DashBoard tree.
 - > Deny Select this as the default setting to deny users access to components in the DashBoard tree.

Note: A user with admin rights can then configure custom role-based access control at a later point from within the DashBoard application, to allow or deny access to specific components in DashBoard.

To change the RPM server name displayed in DashBoard

To help keep track of the default access control settings for the RPM server, you may wish to add a meaningful name for the server.

- 1. Log in to your Ross Platform Manager interface as a system administrator.
- 2. On the main toolbar, click the Configuration icon. If the Configuration icon is not visible, you are not an administrator and cannot configure the server.

The Configuration window opens.

3. On the Configuration window toolbar, click the 🔜 Access Control icon.

The Access Control panel opens.

- **4.** For the RPM **Server Name**, enter a meaningful name. This is the name that will be displayed for the RPM Server when you add the RPM server to DashBoard.
- 5. Click Apply Changes > OK.

Adding the RPM Server to DashBoard

You can use the RPM Server to enforce RBAC for Ross Video's open source facility control system, DashBoard.

To add the RPM Server to DashBoard

The RPM Server must be added to the DashBoard device tree to apply RBAC.

★ You must download a version of DashBoard that supports RBAC features. Currently DashBoard v9.4 and later support RBAC using RPM v1.6 or later.

You can download the latest version of DashBoard from the Ross Video website:

- > https://www.rossvideo.com/support/software-downloads/dashboard/
- 1. To add the RPM Server in DashBoard, open the DashBoard software application, and from the **Basic Tree** View toolbar, click the plus icon.
- Important: If the RPM Server has been configured to deny access by default, then once you have completed the wizard steps below, then DashBoard will require you to login as a user with an admin role to access DashBoard resources. The default admin role will have access to all resources, but if you sign in as a user without the correct permissions then you may be locked out of resources.

DashBoard Beta by Ross Vide	0	
File Edit Layouts Views Wind	ow Help	
🔛 🖳 😰 🖿 💌 🖪 PanelBui	lder Edit Mode 🛛 🕏 Switchboard 🗣 Global Labels	
✿ Basic Tree View ×		
Filter:	New -	o ×
	Select Equipment or Service Type to Add	
	Wizards:	
	type filter text	
	> 🗁 Cameras	^
	Bookmark Manual Connection	
	New CustomPanel File	
		, v
	< Back Next > Finish	Cancel

- 2. Select General > Manual Connection as the type and click Next.
- **3.** Add the fully qualified server name, click **Detect Frame Information** and once the information populates click **Finish**.

Manuall	y Detect Device						×
Manually I This wizard automatica	Manually Detect Device This wizard can be used to manually add supported devices that were not automatically detected by DashBoard						
IP Address:	srvotto		o.com			Detect S	Settings
Attribute	Value						
	< Back	Ne	xt >	Finish		Cano	el

The RPM Server appears on the left, in the DashBoard tree view.



A prompt will appear that requires you to log in to DashBoard.

4. Login with the admin credentials that you created in RPM.

🔟 Login to) DashBoard	×
Login to	DashBoard	29
Please e	nter your username and password to continue.	-/
Username:	alice	
Password:	•••••	
Server:	Access Control (10.64.180.134:80:rpmserver:Access Control)	✓ Refresh
	OK Default User C	Change Password

Tip: If you do not have the correct permissions, you will see a prompt appear:

🧾 Insuff	ficient Rights	X
1	The current user does not have sufficient rights to open the user rights administration diale Please sign in as a different user and try again.	og.
	ОК	

Tip: If the user is not set to "active" in the RPM user settings, you will see a prompt appear:

🔟 Inval	id Login	×
	User account disabled.	
		ОК

Once you have successfully logged in, you can go to the next steps to learn how to apply RBAC permissions in DashBoard, or you can apply permissions in RPM.

Apply RBAC Permissions in DashBoard

You can configure user permissions and assign roles in either the DashBoard or RPM interface, however you can only apply RBAC permissions to access DashBoard equipment, and devices from the DashBoard interface.

To create or edit a user in DashBoard

1. From the DashBoard tree view, expand the RPM Server node to view the Access Control and Roles sub-nodes. Double-click on the **Roles** node to open the **Configure User Rights** dialog.



The Configure User Rights dialog opens.

2. You can proceed to configure User Rights and Permissions

Tonfigure User Rights		- 🗆 X
Configure User Rights		
 This dialog allows administrate various devices. 	ors to configure device rights for var	rious users and user/group rights for
Roles Users	Properties	
		Active ^
alice	Domain:	Local
& New User	Username:	Bob
	Password:	•••••
	First Name:	Bob
	Last Name:	Hubble
Create User	Title:	Software Developer
	Deserves	×
Refresh		Apply
	~	OK Cancel

3. Click the Users tab, and click the Create User button. Upon first use, the Properties tab on the right will display a blank "New User' profile that is ready to be filled in, but typically a prompt will appear to request the

User Name.

Configure User Rights Configure User Rights Note: Changes to permissions	take effect the next time the user	− □ ×
Roles Users	Properties	
		Active ^
alice	Domain:	Local
Bob Hubble (Bob)	Username:	Bob
	Password:	•••••
	First Name:	Bob
	Last Name:	Hubble
Create User	Title:	Software Developer
	Deserves	×
Refresh		Apply
	-	OK Cancel

- **4.** Add the appropriate user information (required fields are identified with an asterisk *):
 - > Domain
 - > Username*
 - > Password*
 - > First Name
 - > Last Name
 - > Title
 - > Department
 - > Email
 - > Phone
 - > Mobile

Click the Apply button.

The new user should now appear in the list under the Users tab, as shown:

Configure User Rights		- 0	×
Configure User Rights			20
Note: Changes to permissions	take effect the next time the us	ser signs in.	
Roles Users	Properties		
		Active	^
alice	Domain:	Local	
Bob Hubble (Bob)	Username:	Bob	
	Password:	•••••	
	First Name:	Bob	
	Last Name:	Hubble	
Create User	Title:	Software Developer	
	D		~
Refresh		App	ly
	-	OK Cano	el

5. Click OK.

To delete a user in DashBoard

*** Important**: Before you try to delete a user, ensure that you have removed any assigned roles first.

- 1. From the **Configure User Rights** dialog, click the **Users** tab, and type the name of the user you wish to remove in the search filter.
- 2. Right-click on the user you wish to delete and select **Delete User Account**.

Configure User Rights			_		×
Configure User Rights Å Note: Changes to permissions	take effect the next time t	he user signs in.			82
Roles Users	Properties				
		Active			^
alice	Domain:	Local			
Bob Hubble (Bob)	ne:	Bob			
	Password:	•••••			
	First Name:	Bob			
	Last Name:	Hubble			
Create User	Title:	Software Develope	er		
	D				×
Refresh				Арр	bly
	-	ОК		Can	cel

3. Click OK to confirm that you wish to permanently delete the user.

🔟 Dele	te User		×
?	Are you sure you want to permanently delete test?		
		ОК	Cancel

The user account will no longer work when the user next attempts to sign in.

To create and assign a role in DashBoard

1. From the **Configure User Rights** dialog, click the **Roles** tab, select **Create Role**.

Configure User Rights					_		×
Configure User Rights Mote: Changes to permissions tagged	ake effect the next	t time the use	er signs in.			1	32
Roles Users	Properties Per	rmissions					
	Domain:		Local				
Image: Second	Name: Users assigned alice Add User	I to this role	DashBoard Active Administr Remotely ser	Default Role ative Assignable			
Refresh						Арр	ly
				OK		Cano	el

An Enter Role name prompt will appear.

2. Enter a meaningful Role name.

🔟 Enter Role name	×	
Role name:		
Software Dev - DashBoard Team		
	OK Cancel	

- 3. Configure the Role Properties and Permissions under each respective tab, as shown below:
 - Properties tab:

Configure User Rights				-		
Configure User Rights Note: Changes to permissions ta	ake effect the	next time the u	ser signs in.		62	
Roles Users	Properties	Permissions				
	Domain:		Local			
Iccalrole7 Iccalrole8 Iccalrole9 Software Dev - Dash Iccalrole7 Iccalrole8 Iccalrole9 Software Dev - Dash Iccalrole7 Iccalrole9 Iccalrol9 Iccalrol9	Name: Users assigr Add Use	ned to this role	Software Dev - Das Active Administrative Remotely Assigna	hBoard Team		
Refresh					Apply	ĺ
				ОК	Cancel	

- > **Domain** This field is not editable, and displays whether the role was created locally or via LDAP Active Directory.
- > Active Required for active users. Check this box to deactivate a user account.
- > Administrative Check this box to provide administrative permissions.
- > **Remotely Assignable** Check this box to allow the role to be edited in the RPM web-based interface.

- > Add User Add any users you wish to assign this role to.
- Role Permissions tab:

Configure User Rights			-		×
Configure User Rights					0
 This dialog allows administrator various devices. 	s to configure device rights for various users and	user/gro	up right	s for 🌌	1
Roles Users	Properties Permissions				
	Only devices with settings				
localrole6 localrole7 localrole7 localrole8 localrole9 localrole9	✓ □ openGear Frames *Ultritouch				
Software Dev Dash	Property	Allow	Deny	Inherit	^
~	*read	~			
< >	*write	~			
Create Role	*upgrade				~
Refresh				Apply	
		ОК		Cancel	

- > Only devices with settings Check this box to constrain permissions to the devices listed here. The devices you see here have already been added to DashBoard and appear in the Tree View. You must then select Allow, Deny or Inherit to set permissions for each device or sub node for different access user permission levels (read, write or upgrade).
 - Allow Check this box to allow access to the selected device.
 - **Deny** Check this box to deny access to the selected device.
 - Inherit Check this box to inherit the settings from the "parent" device.
- > Apply— Click this button when complete.
- **4.** After your changes have been applied, go back to the **Users** tab to confirm that the appropriate users now have the role assigned under **Properties > Local Roles**.

Configure User Rights		_		×
Configure User Rights A Note: Changes to permissions	take effect the next time the user signs in.		2	22
Roles Users	Properties Phone: Mobile: Data scienced to this uses			^
	Local Roles LDAP Roles			
Create User				~
Refresh			Apply	
	ОК		Cance	I

For more information on configuring users and roles, see the Ross Platform Manager User Guide chapters:

- > Configuring User Permissions
- > Configuring LDAP Authentication

Login Settings in DashBoard

The default Login Settings can be configured in DashBoard.

To Change the Default Login Settings in DashBoard

Users can change the default login settings in their DashBoard **Preferences** from the DashBoard top menu, under **Window > Preferences > Login Settings**.

- To open the DashBoard Preferences pane, go to the top menu and select Window > Preferences > Login Settings.
- 2. Ensure the appropriate **Data Source** is selected for the RPM Server, and then choose from the following Login Settings:
 - > Remember nothing
 - > Remember last user ID
 - > Sign me in automatically
- **3.** You can also adjust the default Timeout of 20 minutes to your preferred value.
- 4. Apply your new settings or click **Restore Default** to return to the original DashBoard default settings.

Enabling a DashBoard connection to RPM over HTTPS

You can secure the Ross Platform Manager (RPM) server with HTTP Secure (HTTPS) to allow the client and server to first establish a secure encrypted channel over Secure Socket Layers (SSL). This is recommended for enhanced security and to ensure that the RPM web-based interface always displays the appropriate security certificate to indicate that it is from a trusted organization.

A Ross commissioner sets up the RPM server with secure HTTPS certificate. This chapter assumes that the RPM web-based interface uses a trusted certificate, and provides details on how to import the server certificate into DashBoard's list of trusted security certificates.

These procedures are tested and shown using the latest Chrome Browser (version 98.0.4758.81).

★ Important: If you wish DashBoard to communicate with an RPM server that has been secured via HTTPS, it is required that you complete the steps below to enable a secured connection to RPM before adding the RPM server to DashBoard.

To enable a DashBoard connection to RPM over HTTPS

You will download the exported RPM server certificate, .CER file from the Chrome browser and import the RPM server's trusted CA certificate to store it in DashBoard's list of trusted security certificates.

1. Open the web browser, in this case Google Chrome, and navigate to the HTTPS version of the Ross Platform Manager address. For example, https://srvottdash01.rossvideo.com.



2. Click on the "Secured" lock icon that appears in front of the RPM interface's URL in the Chrome browser.



3. Click Connection is secure > Certificate is valid. The Certificate dialog opens.



4. Confirm that the certificate statements are correct and valid, and click the **Details** tab.



5. Select Copy to File, and the Certificate Export Wizard appears. Set the following:



a. In the Certificate Export Wizard, to start the process click **Next**.

b. For the Export File Format, select the Base-64 encoded X.509 (.CER) and click Next.

xport File F Certificat	ormat es can be exported in a variety of file formats.
Select th	e format you want to use:
	R encoded binary X.509 (.CER)
🔘 Ba	se-64 encoded X.509 (.CER)
00	yptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)] Include all certificates in the certification path if possible
O Pe	rsonal Information Exchange - PKCS #12 (.PFX) Include all certificates in the certification path if possible
	Delete the private key if the export is successful
	Export all extended properties
	Enable certificate privacy
Ом	icrosoft Serialized Certificate Store (.SST)

c. For the File to Export, click **Browse...**, choose the file directory, and then enter the name for the exported .CER file.

Take note of the directory that you choose to save the .CER file to (in this case C:\Users\krobinson\srvottdashcent06.cer)

Click Save.

🚱 Save As						×
← → ∽ ↑ 🖡	« Local Disk (C:) > Users > krobinson	ٽ ~	,∕⊃ Sea	arch kro	binson	
Organize • Nev	v folder					
> 🖺 Documents				^	Name	^
> 🖊 Downloads					android	
> 🎝 Music					.config	
> 📧 Pictures					.eclipse	
> 🔡 Videos					ldealC2019.3 .	
> 🐛 Local Disk (C:)	1				.oracle_jre_usa	a
> 🐟 company (\\ro	ossvideo.com) (G:)				swt	
> 🕩 Network					Contacts	~
				~ <	>	
File name:	srvottdashcent06					\sim
Save as type:	Base64 Encoded X.509 (*.cer)					\sim
 Hide Folders 			Sav	re	Cancel]

- **d.** To complete the Certificate Export Wizard, click **Finish**. A popup will indicate that the certificate was successfully imported.
- e. Click OK.
- 6. Now that you have the location of the .CER file noted down, locate the directory path that you installed DashBoard in. Typically DashBoard is installed in the C Drive: C:\DashBoard\.

In this example the following values are used:

- > Exported server certificate C:\Users\krobinson\srvottdashcent06.cer
- > **DashBoard installation folder** C:\DashBoard\
- 7. Open the Command Line Interface (CLI) and run the following command:

 \star Make sure to modify the example paths to match your own settings.

Example

```
keytool -keystore "C:\DashBoard\jre\lib\security\cacerts" -import
-alias rpm -file "C:\Users\krobinson\srvottdashcent06.cer"
-trustcacerts -storepass changeit
```

8. Click **Yes** when prompted.

You can now proceed to add your HTTPS enabled RPM Server to DashBoard to use RBAC functionality.

For More Information on...

• Adding the RPM Server to DashBoard