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Connecting Visionaries in Radiation Safety, Science and Industry

MIRION
Connect **24**
Annual Users' Conference

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MIRION
TECHNOLOGIES



AIM SCS

System Configuration and Administration

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Mirion Connect | Annual Users' Conference 2024

Dallas, Texas

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- Dallas, TX [Carrollton]
- 8 years in Nuclear Industry
- Tester, PEL, Functional Manager
- M.S. Computer Science

Course Objective

In this course you will learn to:

- Define User Roles
- Assign Permissions to Roles
- Configure the system to enforce authorization requirements
- Configure a Workstation
- Create and Assign Workstation Groups
- Create Geographic Partitions
- Configure Multiplicity

System Configuration and Admin Training

AGENDA

- Global Settings Menu
 - Roles and Permissions
 - Geographic Partitions
 - Authorizations
- Control Settings Menu
 - Workstation Groups
 - Workstations
- Multiplicity

Global Settings



Role Based Access Control

What Can Be Done

- Define a Role
- Define the role's permissions
- Define the role's Workstation access
- Assign Role to a User

Real Life Application

- Badging Workstation
 - Role is assigned to user who works in badging office
 - Role restricts users access to alarm summary
 - Role allows users to access Iris enrollment

User Management

Role Definitions

Roles are defined in Global Settings > User Management > Roles.

- To Add a new role:

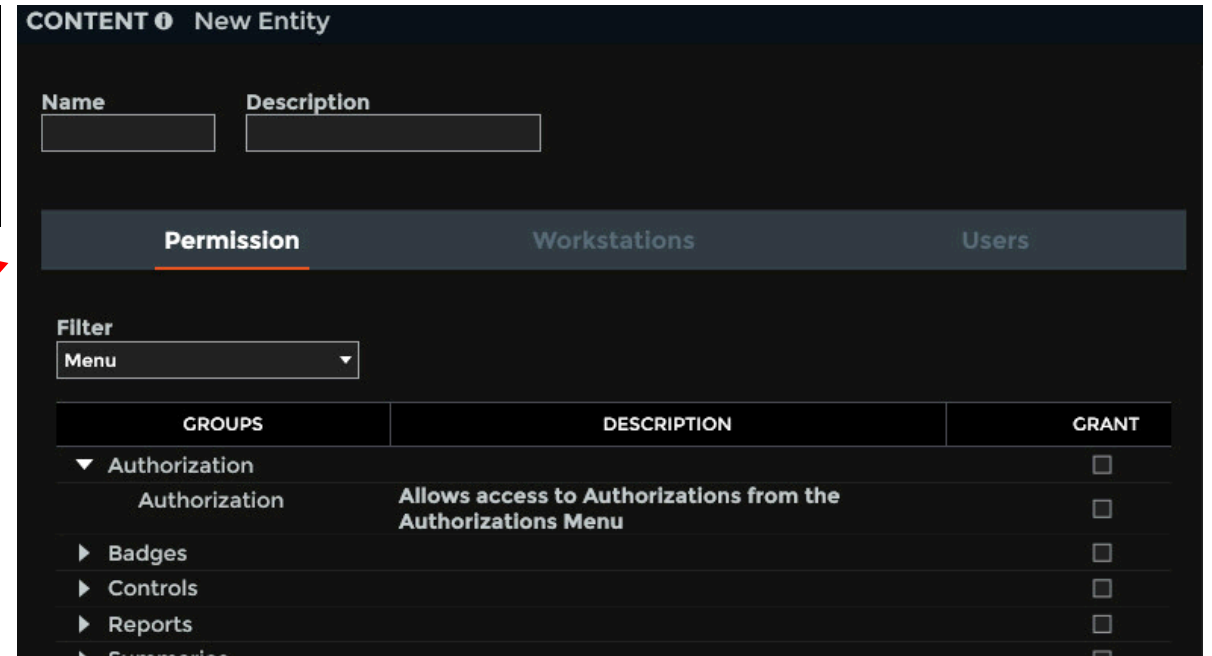
1. Click + (Add).
2. Select User Management
3. Select Roles



Type
User Management
User Management
Roles

Tabs

Filters



CONTENT ⓘ New Entity

Name Description

Permission Workstations Users

Filter
Menu

GROUPS	DESCRIPTION	GRANT
▼ Authorization		<input type="checkbox"/>
Authorization	Allows access to Authorizations from the Authorizations Menu	<input type="checkbox"/>
▶ Badges		<input type="checkbox"/>
▶ Controls		<input type="checkbox"/>
▶ Reports		<input type="checkbox"/>
▶ Summaries		<input type="checkbox"/>

User Management

User Roles - Permissions

On the Permissions tab, select Functional, Menu, or Windows from the Filter drop-down.

Set the check box in the Grant column to enable an item for this Role.

Permission			Workstations	Users
Filter				
Menu				
GROUPS	DESCRIPTION		GRANT	
▼ Authorization			<input type="checkbox"/>	
Authorization	Allows access to Authorizations from the Authorizations Menu		<input type="checkbox"/>	
▶ Badges			<input type="checkbox"/>	
▶ Controls			<input type="checkbox"/>	
▶ Reports			<input type="checkbox"/>	

Permission			Workstations	Users
Filter				
Functional				
GROUPS	DESCRIPTION		GRANT	
▼ Access Control			<input type="checkbox"/>	
Control Door	Ability to control the lock position on any door		<input type="checkbox"/>	
Control Gates	Ability to control the lock position on any gates		<input type="checkbox"/>	
Control Turnstile	Ability to control the lock position on any turnstile		<input type="checkbox"/>	
▶ Alarm Event			<input type="checkbox"/>	
▶ Authorizations			<input type="checkbox"/>	

Permission			Workstations	Users
Filter				
Window				
GROUPS	DESCRIPTION		GRANT	
▼ Authorization			<input type="checkbox"/>	
Manage All Approvals	Allows access to Accept/Reject any Authorization Requests accept the operator themself		<input type="checkbox"/>	
▼ Badges			<input type="checkbox"/>	
Delete	Allows access to delete Badges		<input type="checkbox"/>	
Insert	Allows access to Insert Badges		<input type="checkbox"/>	
Set Access Date	Allows user to reset access date		<input type="checkbox"/>	
Update	Allows access to update Badges		<input type="checkbox"/>	
▶ Badge Settings			<input type="checkbox"/>	

User Management

User Roles – Workstations

On the **Workstations** tab, settings define which workstation the user with the role assignment can access.

CONTENT ⓘ New Entity

Name

Description

Permission

Workstations

GROUPS	DESCRIPTION	GRANT
▼ CAS		<input type="checkbox"/>
CAS 1	CAS Workstation 1	<input type="checkbox"/>
CAS 2	CAS Workstation 2	<input type="checkbox"/>
CAS VIDEO 1	CAS Video 1	<input type="checkbox"/>
▶ HOST		<input type="checkbox"/>
▶ SAS		<input type="checkbox"/>

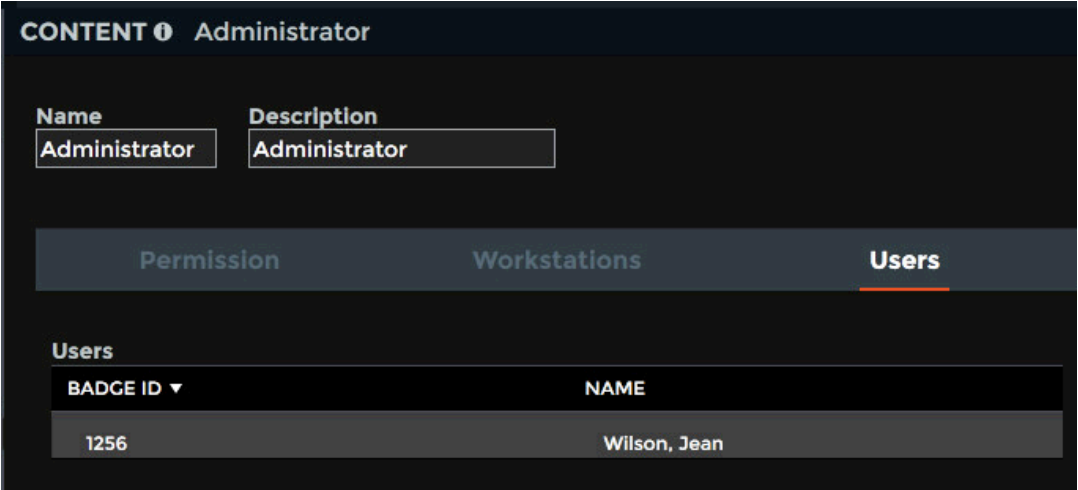
User Management

Roles – Assigning User

On the **Users** Tab, valid badges in the system can be assigned roles.

This tab contains all users assigned to the role displayed in the **Name** field. If none are assigned, the **Users** field remains blank.

This is a quick way to see everyone assigned to a given role.



Geographic Partitions

Geographic Partitions

What Can Be Done

- Identify functional areas for inclusion of an activity.
- Identify functional areas for exclusion of an activity.

Real Life Applications

- Task Prompt: A scheduled task prompt operator to print Daily Guard Log @3p daily in CAS only.
- Alarm Settings: All alarms assigned to CAS will only display on workstation in CAS.
- Duress Settings: Host is not configured to go into Duress when SAS or CAS is in Duress.

Global Settings cont'd

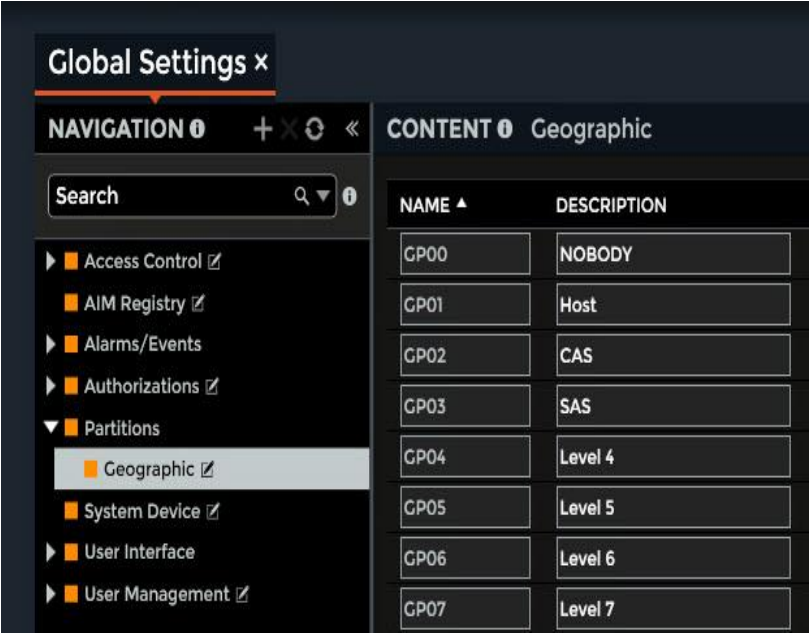
GEOGRAPHIC PARTITIONS

Geographic Partitions identify functional areas (e.g. CAS, SAS):

- Control who views cameras.
- Where task prompts issue.
- What workstations go into Duress.

Open **Partitions > Geographic**.

The **CONTENT** pane lists Partitions with **Name** and **Description**.



The screenshot shows the 'Global Settings' window with the 'NAVIGATION' pane on the left and the 'CONTENT' pane on the right. The 'NAVIGATION' pane has a search bar and a list of settings including 'Access Control', 'AIM Registry', 'Alarms/Events', 'Authorizations', 'Partitions', 'Geographic', 'System Device', 'User Interface', and 'User Management'. The 'Geographic' setting is selected. The 'CONTENT' pane shows a table of Geographic Partitions with columns 'NAME' and 'DESCRIPTION'.

NAME	DESCRIPTION
GP00	NOBODY
GP01	Host
GP02	CAS
GP03	SAS
GP04	Level 4
GP05	Level 5
GP06	Level 6
GP07	Level 7

Authorizations (Concurrence)

Authorizations (Concurrency)

What Can Be Done

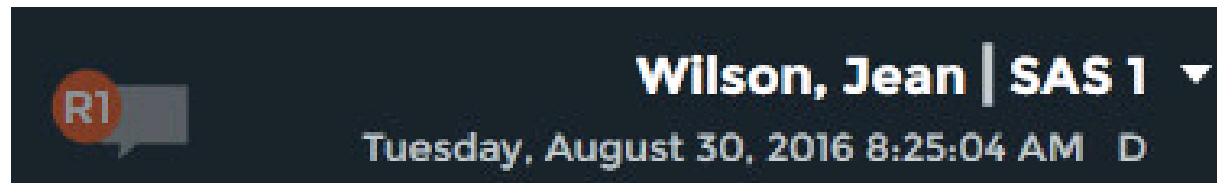
- Enforce a consensus to occur before Badge, Data, and Operator Control functions can be completed.
- If Global Override is in place, authorization is not required.

Real Life Applications

- Change Device Modes: CP Mode Change –Offline/Secure
- Manual Failover
- Modifying a Badge
 - Changing a Badge from Visitor to Employee
- Clearing an Alarm

Authorizations

- Authorizations enforce a second user to approve actions initiated by another user at another workstation.
- Workstations receive an Authorization request:
 - Flashing icon
 - Audible tone
- Authorizations can be overridden on a system level (Global Override).



Authorizations

Authorizations have several levels. Badges, Data, and Operator Controls authorizations also identify which **Workstation** is the Primary or Secondary approver and by which **Functions** require authorization.

Global Settings

NAVIGATION ⓘ

Search

Access Control ✓

Alarms/Events

Authorizations ✓

Groups

Badges ✓

Data ✓

Operator Controls ✓

Partitions

User Interface

User Management ✓

CONTENT ⓘ Badges

Group Settings

Group

Badges

Type

Workstation

Expiration Interval

600

Sec

☐ Approve If Primary and Secondary are Unavailable

☒ Alarm on expiration

☒ Alarm on rejection

☒ Generate an event only on rejection

Workstations ⓘ

Functions ⓘ

Requesting Workstation

CAS 2

→

Approving Workstation(s)

GROUPS	DESCRIPTION	PRIMARY	ALTERNATE
CAS		<input type="checkbox"/>	<input type="checkbox"/>
HOST		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Workstations

Functions ⓘ

GROUPS	DESCRIPTION	REQUIRED AUTHORIZATION
▼ Badges		
Change to Employee	Changes from Visitor to Employee	<input type="checkbox"/>
Change to Visitor	Changes from Employee to Visitor	<input checked="" type="checkbox"/>
Enroll Hand Template	Initiates the HCU Enrollment	<input type="checkbox"/>
Request Authorization	Requests the Badge be validated for use	<input type="checkbox"/>
Set PIN	Create New Badge	<input checked="" type="checkbox"/>

Authorizations

Approving Workstations

Workstations can be set to approve Authorization requests.

1. Open **Global Settings > Authorizations > Groups**
2. Select the Authorization Type.
3. In the **CONTENT** pane, select from the **Requesting Workstation** drop-down.
4. Under **Approving Workstation(s)**, set **Primary** and **Alternate** as needed.
5. Click **Save Changes**.

Global Settings ×

NAVIGATION ⓘ + × <

Search ⓘ

- Access Control ⓘ
- Alarms/Events
- Authorizations ⓘ
 - Groups**
 - Badges** ⓘ
 - Data ⓘ
 - Operator Controls ⓘ
 - Partitions
 - User Interface
 - User Management ⓘ

CONTENT ⓘ Badges ⓘ

Group Settings

Group: Badges Type: Workstation Expiration Interval: 60 Sec

☐ Approve If Primary and Secondary are Unavailable ☒ Alarm on expiration ☒ Alarm on rejection

☒ Generate an event only on rejection

Workstations ⓘ **Functions** ⓘ



Requesting Workstation: CAS 1

Approving Workstation(s)

GROUPS	DESCRIPTION	PRIMARY	ALTERNATE
▼ CAS			
CAS 1		<input checked="" type="checkbox"/>	<input type="checkbox"/>
▶ HOST		<input type="checkbox"/>	<input type="checkbox"/>
▶ SAS		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Authorizations

When an action requiring Authorization occurs, icons display on the workstation where the action occurred and on Workstations configured to approve the authorization request.

- Requesting Workstation 
- Authorizing Workstation 

Double-click the icon for the Authorizations tab.



Authorizations

AUTHORIZATIONS TAB

The Authorizations tab is typically opened from the Requesting Authorization icon, but can also be opened from the Main Menu.

- The **NAVIGATION** pane lists Authorization Requests.
- The **CONTENT** pane displays information on the request

The screenshot displays the 'Authorizations' tab interface. The left pane, titled 'NAVIGATION', contains a search bar and a table of authorization requests. The right pane, titled 'CONTENT', shows detailed information for a specific request.

NAVIGATION Pane:

Action	From	ID
▼ Requested		
Alarm Clear	SAS 1	Host A

CONTENT Pane: Requested for AlarmClear on Host A

Alarm(s) Information:

State	Date/Time ▼	ID	Descrip
CONC. EXPIRED	8/25/2016 7:05:25 AM D	Host A	Alarm C

Action Information:

Dispatch	Cause
	Intrusion
Cure	Comment
CCTV Assessment	

Authorizations

The **DETAILS** pane displays **Approve** and **Reject** buttons, a **Requestor Information** area, further information, and links to support the request.

The screenshot displays the 'Authorizations' interface with the 'DETAILS' pane active for a 'Pending for Badge Modified on 6359' request. The interface is divided into three main sections: NAVIGATION, CONTENT, and DETAILS.

NAVIGATION: Includes a search bar and a table with columns 'Action', 'From', and 'ID'. The 'Badges' section is expanded, showing a row for 'Modified' with 'CAS 1' and '6359'.

CONTENT: Contains 'Badge General Information' and 'Updated Information'.

Badge General Information:

- First Name: BFN6359
- Middle Initial: F
- Last Name: HLN6359
- Personal Identification: *****
- Badge ID: 6359
- Card Number: 6359
- Transition Card Number: [Empty]
- Status: [Red X icon]
- Current Sector: PA

Updated Information:

INPUT FIELD	OLD VALUE	NEW VALUE
General Information		
Middle Initial	z	F
Access		
Primary		
Level 1	Allow	Restricted
Level 2	Allow	Restricted

DETAILS: Contains 'Approve' and 'Reject' buttons, 'Requester Information', 'BADGES', 'WorkStation' (CAS 1), 'Role' (Administrator), 'Name' (Empty), 'Action' (Modified), 'Time of Request' (8/11/2016 8:07:52 AM D), 'Remaining Time' (Empty), and 'Authorizing Workstations' (ADMIN WS, CAS 1, CAS 2).

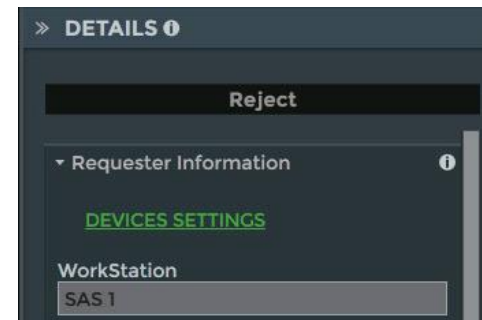
Authorizations

Reject an Authorization

An Authorization Request can be rejected.
by the User who initiated the action.

1. Open Authorizations (Pending icon, main menu).
2. Click **Reject**.

Note: There is no **Approve** button – the User who generates an authorization request is unable to approve their own request.



Control Settings



Control Settings

What Can Be Done

- Define a workstation's accessibility.
- Define a workstation's display settings.
- Define and assign a workstation's group.

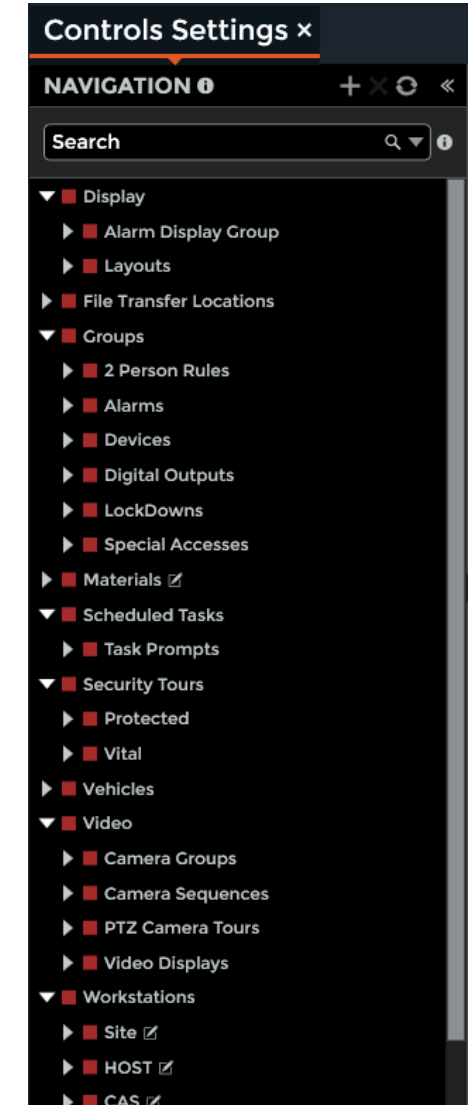
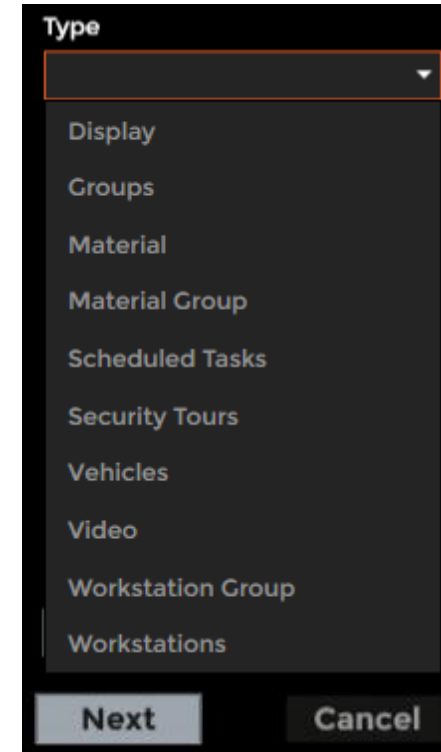
Real Life Application

- Workstation can be configured to require a log on card reader.
- Alarm Summary on a workstation can be filtered by Type.

Controls Settings Overview

Controls Settings defines:

- Display
- Groups
- Material
- Material Group
- Scheduled Tasks
- Security Tours
- Vehicles
- Video
- Workstation Group
- Workstations



Workstation Groups

Workstation Groups

Creating a Workstation Group

- Workstation Groups divide workstations into groups (e.g, CAS, SAS).
- Workstations are automatically added to the Site Workstation Group.

To add a new Workstation Group:

1. Click **+** (**Add**).
2. From the **Type** drop-down, select **Workstation Group**.
3. Enter the **Name** and **Description**.
4. Click **Save Changes**.

The new Workstation Group lists under Workstations in the **NAVIGATION** pane.

Workstation

Workstations

Configuring a Workstation

Workstations are defined under **Controls Settings > Workstations**.

- The following items can be configured:
 - Group
 - Sector
 - Enrolling Biometrics
 - Accessibility
 - Display Settings
 - Alarm Summary

The screenshot displays the 'Controls Settings' window with the 'Workstations' tab selected. The main content area shows the configuration for a workstation named 'CAS ADMIN1'. The configuration is organized into several sections: 'Name', 'Description', 'Machine Name', 'Group', 'Sector', 'Enrolling HGU', 'Enrolling IrisScan', 'Current User', 'Type', and 'CAT Card Reader'. Below these are three main sections: 'ACCESSIBILITY' with checkboxes for 'Log on card reader required', 'Log on sector check required', 'Auto log off when operator leaves', 'Prevent log off at this console', and 'Enable Session Timeout'; 'DISPLAY SETTINGS' with dropdowns for 'Display Location' and 'Display Control'; and 'ALARM SUMMARY' with dropdowns for 'Default Grouping' and 'Default Filtering'. On the right side, there is a 'DETAILS' panel with buttons for 'Save Changes', 'Cancel', 'Workstation Control', 'REMOTE LOG OFF', and 'REMOVE FROM DUESS'. Below these are sections for 'Workstation Status' (showing 'Disconnected'), 'Mode' (set to 'Secure'), 'Workstation Geographic Partitions', 'Alarm Settings' (set to 'CAS'), 'Task Prompt Settings' (set to 'NOBODY'), 'Duress Settings' (set to 'CAS'), and 'Maintenance Log'.

Multiplicity



Multiplicity Configuration



Multiplicity

What Can Be Done

- Control Secondary workstations from the Primary workstations.
- Use indicators to identify the workstation under control.

Real Life Application

- From an Operator WS a user can assess an alarm, review associated graphic, select and review the device, and select a new camera to view on the Video Wall.

Multiplicity

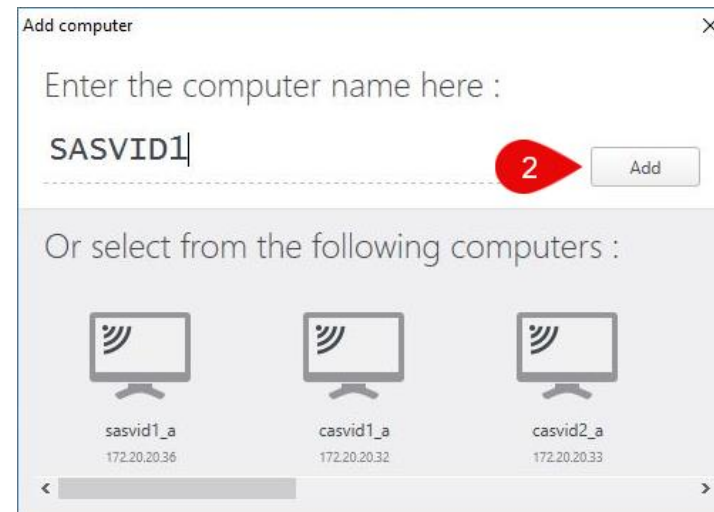
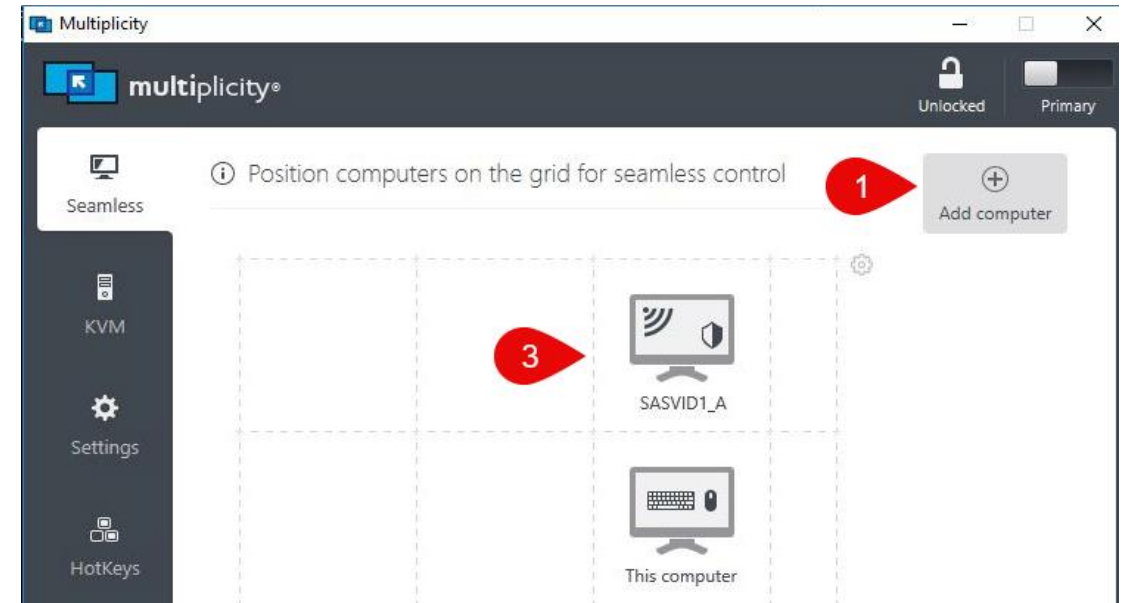


Multiplicity Configuration

Define Secondary Computers

Define Secondary Computers (AIM Display's) to be controlled by the Primary (AIM GUI's)

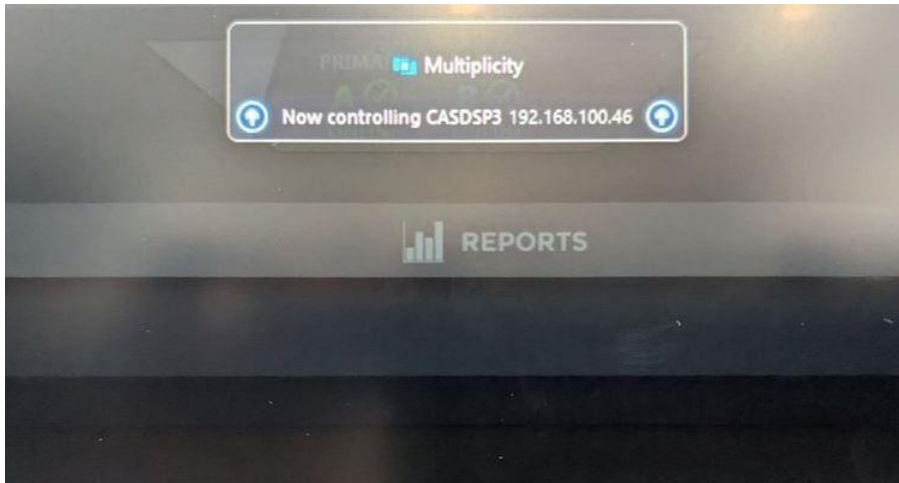
1. Click Add Computer
2. Input the Secondary computer name and click Add
3. Rearrange the computers to be in the correct order



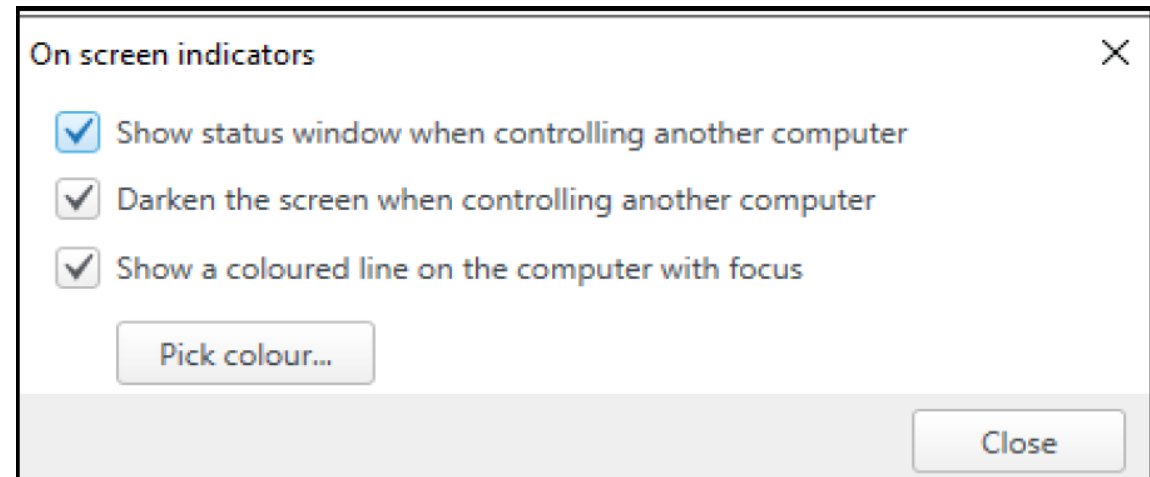
Multiplicity Configuration cont'd

Configure On Screen Indicators - Primary

- Configure On screen indicators
- Open the Settings tab and click the On Screen indicators button.



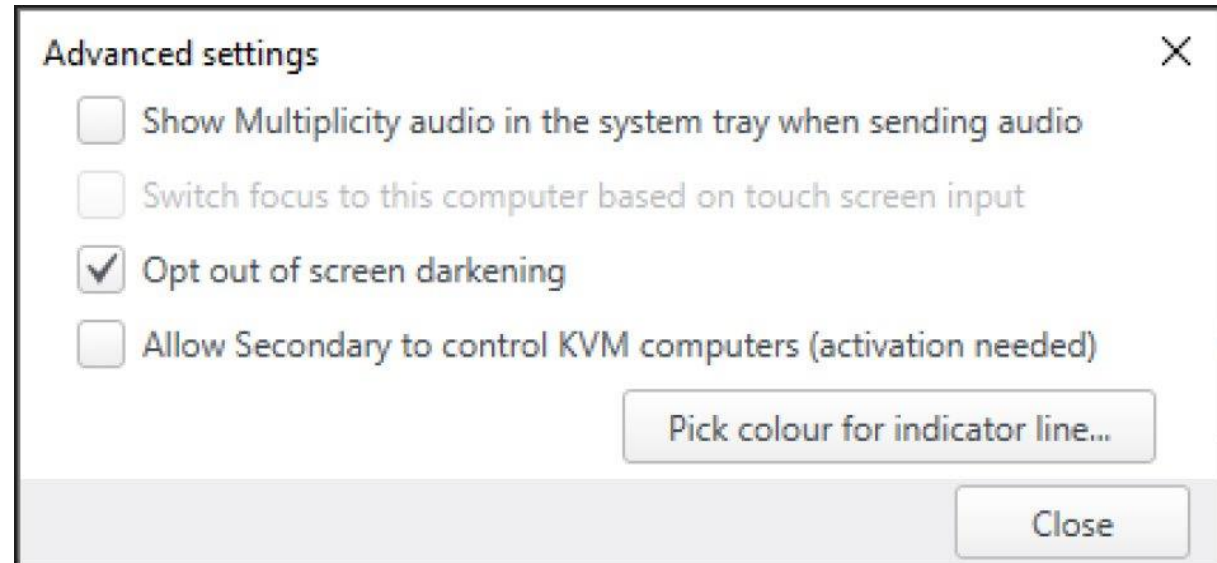
- On a Primary Workstation set the following options:
 - Show Status Window...
 - Darken the Screen..
 - Show a colored line..
 - Click the Pick color.. button and choose a color.



Multiplicity Configuration

Configure On Screen Indicators - Secondary

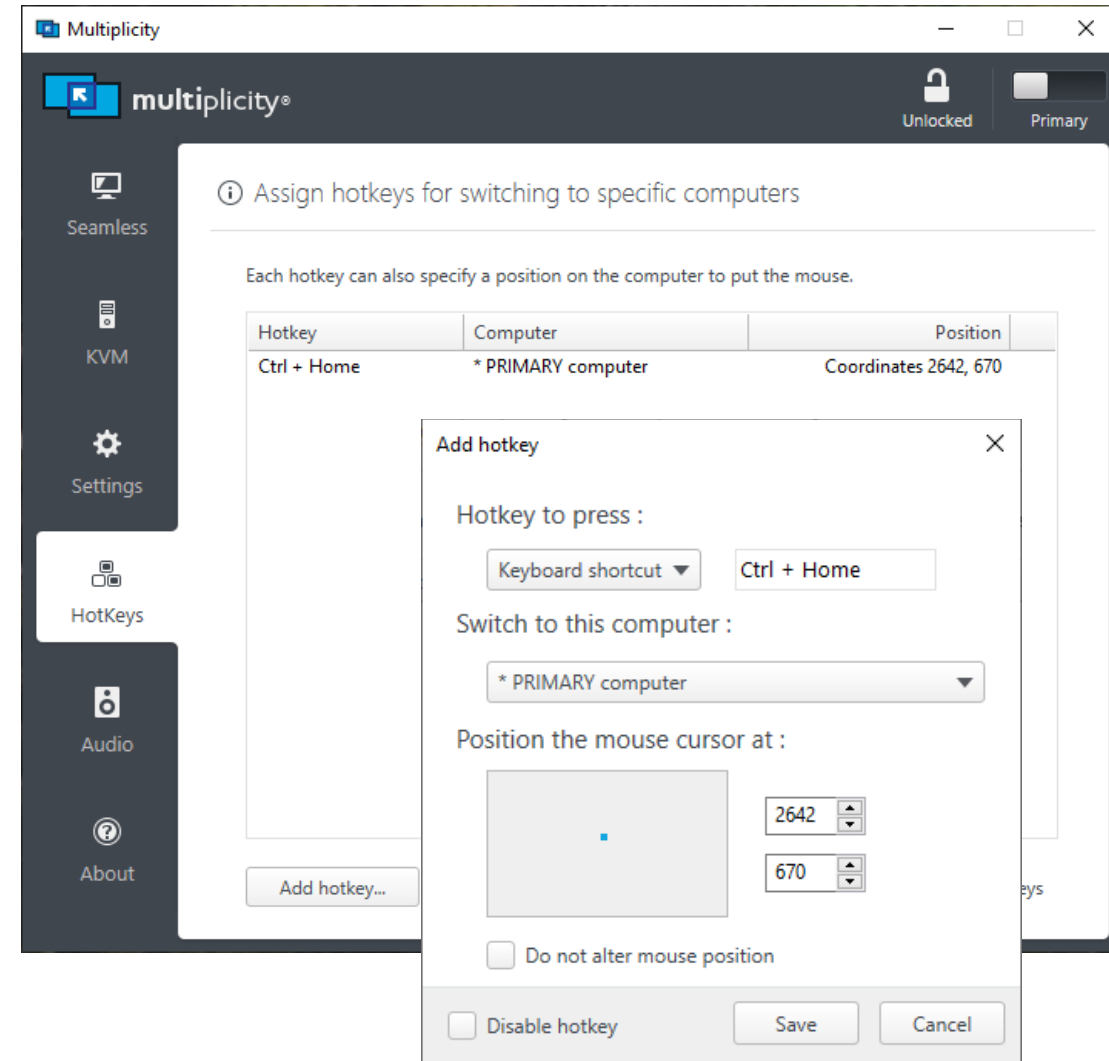
- On a Secondary Workstation, under the Control Tab in the **Advanced setting** set the following option:
 - Opt out of screen darkening
- Click **Pick color for indicator line** and select the same color used with the Primary



Multiplicity Configuration cont'd

Set Hotkeys

- Configured from the controlling workstation; usually an Operator Workstation:
 - Navigate to the **HotKeys** tab and select **Add hotkey...** The Add hotkey window displays.
 - In the Hotkey To Press drop down menu, select Keyboard shortcut.
 - Set the Keyboard shortcut to Ctrl + Home. This is done by pressing the hotkey sequence.
 - In the Switch to this Computer drop-down menu, set which computer the mouse cursor should return and the position on the screen.
 - Click **Save**.



Thank you

