



## OVERVIEW

The Alarm Notification Router is a high-end management interface designed for WinCC Unified SCADA systems to dynamically direct process alerts to the correct personnel based on active work shifts. Visually, it features a modern industrial dashboard with clear status indicators, personnel cards, and a dedicated sidebar showing the currently active routing target in real-time. The control provides a live overview of all available supervisors and technicians, automatically highlighting the person currently on shift while allowing operators to manually override the selection for emergency handovers. Engineers can fully customize the visual identity of the control by adjusting background colors and titles, and can choose between automated time-based themes or a fixed dark/light mode for low-light control room environments. Integration is seamless through WinCC

**backgroundColor**

Color

Default: 4278853402

Main background color of the control container.

**title**

String

Default: Alarm Notification Router

Main header title text.

**subtitle**

String

Default: Live Shift-Based Routing Active

Status text shown below the main title.

**routingModeLabel**

String

Default: Routing Mode

Label for the Auto/Manual routing toggle.

**targetPanelTitle**

String

Default: Active Routing Target

Header for the sidebar info panel.

**confirmButtonText**

String

Default: APPLY CHANGES

Text for the primary action button in the settings overlay.

**cancelButtonText**

String

Default: CANCEL

Text for the secondary/dismiss button in the settings overlay.

**exportButtonText**

String

Default: EXPORT TSV

Label for the TSV export action button.

**importButtonText**

String

Default: IMPORT TSV

*Label for the TSV import action button.*

**tsvMatrixLabel**

String

Default: Contact & Shift Matrix (TSV)

*Header label for the TSV editor area.*

**autoSelectByShift**

Boolean

Default: true

*If true, the routing target is automatically selected based on system hour.*

**themeControlMode**

String

Default: auto

*Defines how theme is selected: 'auto' (time-based) or 'manual'.*

**manualTheme**

String

Default: dark

*The active theme when themeControlMode is 'manual'. Options: 'light', 'dark'.*

**systemHour**

Number

Default: 12

*The current hour (0-23) used for shift calculations.*

**selectedEmail**

String

*The email address of the currently active or manually selected contact.*

## contacts

Array<Object:Contact>

Default: [{"name":"Alex Rivera","email":"a.rivera@industrial.com","role"...

*List of personnel and their shift schedules.*

## EVENTS

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### SelectionChanged

Args: email: String

*Fired when the active recipient changes due to shift time or manual selection*

### ThemeChanged

Args: theme: String

*Fired when the visual theme switches between light and dark*

### Confirmed

Args: email: String

*Fired when the user explicitly confirms a manual selection*

## METHODS

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### setMode()

Params: mode: String

*Sets the routing mode to 'auto' or 'manual'.*

### **toggleTheme()**

*Toggles between light and dark mode manually.*

### **openSettings()**

*Opens the configuration overlay programmatically.*

### **setSystemHour()**

Params: hour: Number

*Programmatically update the hour to sync with WinCC Unified system time*

### **exportData()**

*Triggers the TSV export process.*

### **selectEmail()**

Params: email: String

*Programmatically select a contact by their email address*

### **setThemeMode()**

Params: mode: String

*Set the theme control logic to 'auto' or 'manual'*

## INSTALLATION - WinCC Unified (TIA Portal)

### 1 Extract Package

Extract the ZIP file to access the {E732E129-2A14-4F1B-9319-FBA8D44E2B60}.zip control file and documentation.

### 2 Copy to Folder

Copy {E732E129-2A14-4F1B-9319-FBA8D44E2B60}.zip to <project>/UserFiles/CustomControls/ or C:\Program Files\Siemens\Automation\Portal VXX\Data\Hmi\CustomControls\ depending on if you want the Control to be locally only in a project or globally for all the projects. If you have the CWC in the TIA PORTAL folder and not the Project folder, bear

### 3 Open TIA Portal

Launch TIA Portal and open your WinCC Unified project with a screen.

### 4 Refresh Controls

Click the blue Update icon in "Tools > My Controls" palette. Wait for "All objects are up to date" message.

### 5 Use Control

Drag control from My Controls to screen. Configure properties in Inspector, events in Events tab.

#### NOTES (WinCC Unified):

- TIA Portal automatically transfers controls when loading to Operator Panel.

## INSTALLATION - WinCC V8 and above

### 1 Extract Package

Extract the ZIP file to access the {E732E129-2A14-4F1B-9319-FBA8D44E2B60}.zip control file and documentation.

### 2 Open Project Folder

Open your WinCC project directory in Windows Explorer.

### 3 Create Folder

Navigate to "GraCS" subfolder and create "CustomWebControls" folder if it does not exist.

### 4 Copy Control

Place {E732E129-2A14-4F1B-9319-FBA8D44E2B60}.zip in CustomWebControls folder. Alternative: C:\Program Files

### 5 Use in Graphics Designer

Control appears in Controls tab. Drag to picture, configure Object properties and Events.

#### NOTES (WinCC V8):

- Deployment for WinCC/WebNavigator and WinCC/WebUX is automatic.
- Controls tab updates automatically when files are placed in CustomWebControls folder.

## DISCLAIMER & LEGAL NOTICE

### AI-GENERATED CONTENT

This Custom Web Control was generated using AI technology. The generated code may contain errors. Test and validate all functionality before production deployment.

### THIRD-PARTY LIBRARIES:

This control may use external libraries that have their own licensing terms. Some libraries may not permit commercial use without proper licensing. The integrator must review all library attributions and ensure compliance with applicable licenses before commercial deployment.

### EXTERNAL LIBRARIES USED:

- tailwindcss
- papaparse