AlarmAreas Control Reference

Show alarm areas and states visually.

Reference **Controls** **Viewer** AlarmAreas

The graphical component AlarmAreas reflects the logical areas defined in the Areas configuration interface in the Alarms module. AlarmAreas refer to the feature that allows grouping alarms by logical areas for enhanced management. This enables collective acknowledgment, enables/disables functions across areas, and offers real-time monitoring via a graphical tree view. Configuration involves defining logical areas and offers functionalities like filtering by sub-areas and facilitating comprehensive alarm management and analysis.

Requirements
Configuration
Runtime Execution

Requirements

To use this control, you must define alarm areas on the Alarms/Areas. This component is Portable. It runs both on Windows (WPF) and on Web Pages hosted in any platform.

Configuration

Alarms Areas focus on the organizational aspects of alarms, providing tools to manage alarms' hierarchical arrangement and visual representation. They allow users to refresh the structure view, add new folders to the hierarchy, rename existing elements, or remove them altogether, ensuring a streamlined approach to alarm organization.

Read more about Alarm Areas.

1. Go to **Displays / Draw**.
2. On the Components Panel, select **Modules**, then **AlarmAreas.**
3. Click or drag-and-drop it on the Drawing area to use it.
4. Double-click the component to open the configuration window.

AlarmAreas settings	
Field	**Description**
Control Name	Defines the name used to refer to the object in the code.
Binding	Sets the binding mode for the component. The options are: 1. **TwoWay:** Enables bi-directional data flow between the source and target properties. Changes in the source property update the target property, and vice versa. 2. **OneWay:** Allows the source property to automatically update the target property, creating a one-directional data flow. 3. **OneWayToSource:** Allows the target property to update the source property, creating a reverse one-directional data flow.
SelectedArea	Specifies the area selected within the alarm settings.

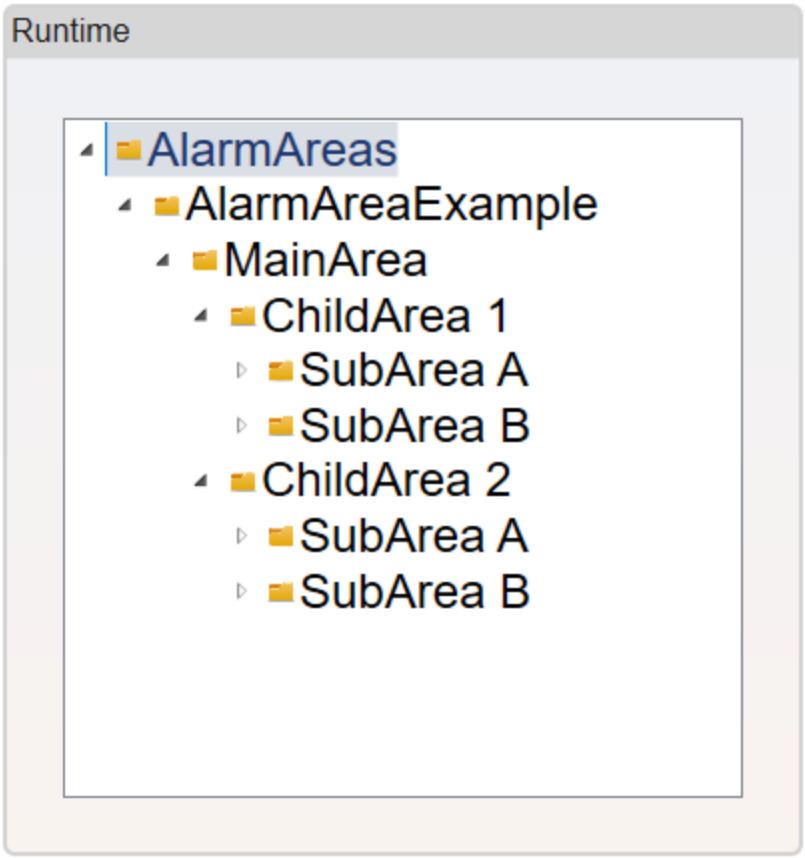
Runtime Execution

At runtime, the graphical component AlarmAreas displays the logical areas defined in the Areas configuration interface in the Alarms module. Users can interact with the AlarmAreas component to monitor and manage alarms in real-time. The component provides a graphical tree view that reflects the hierarchical structure of the defined logical areas.

For example, if an alarm is triggered in the “Production Line 1” area, it will appear in the corresponding node of the tree view. Users can acknowledge this alarm directly from the AlarmAreas interface, which will update the status of the alarm across all linked displays. Additionally, if there are multiple alarms within “Production Line 1”, users can acknowledge them collectively, streamlining the management process.

The AlarmAreas component also allows users to enable or disable specific functions across different areas. For instance, if maintenance is scheduled for “Production Line 2,” users can disable alarms for that area to prevent unnecessary alerts. The filtering functionality enables users to focus on specific sub-areas, providing a detailed view of the alarms and facilitating comprehensive analysis.

Overall, the AlarmAreas component dynamically updates to show the current status of alarms, ensuring that users can respond promptly to any issues that arise and maintain efficient alarm management.



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