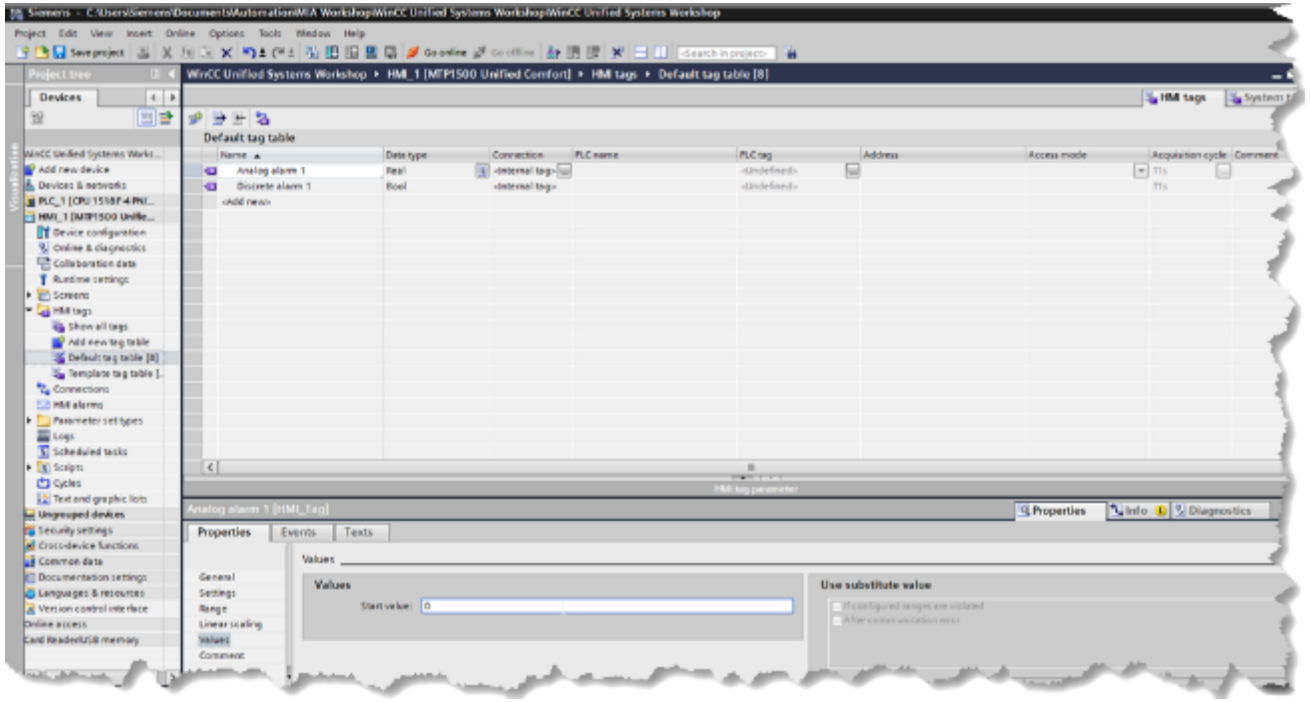
WinCC Unified Alarming

www.usa.siemens.com/wincc-unified

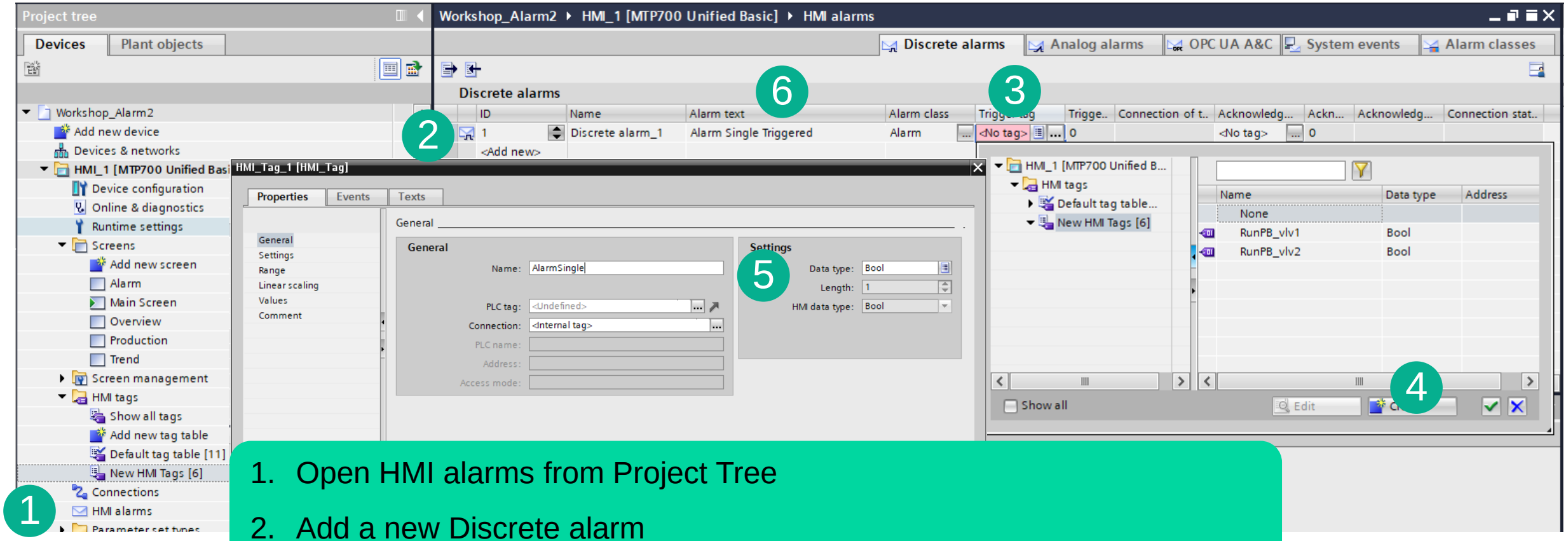
SIMATIC WinCC Unified
Hands On: Analog and Discrete Alarms

H A N D S O N



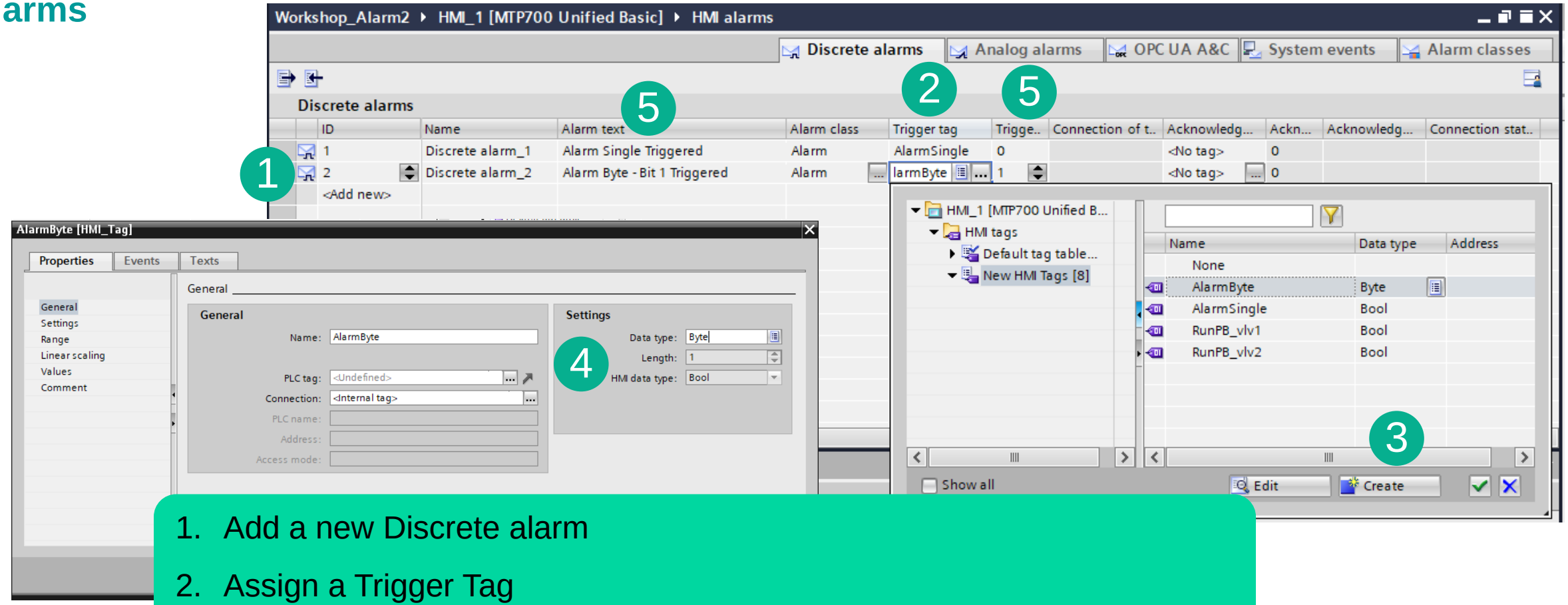
1. Configure an analog and discrete alarm tag
2. Place I/O field on the screen and connect it to the variable to force them
3. Add an alarm Control to a screen
4. Download the Runtime
5. Trigger the alarm

SIMATIC WinCC Unified Alarms



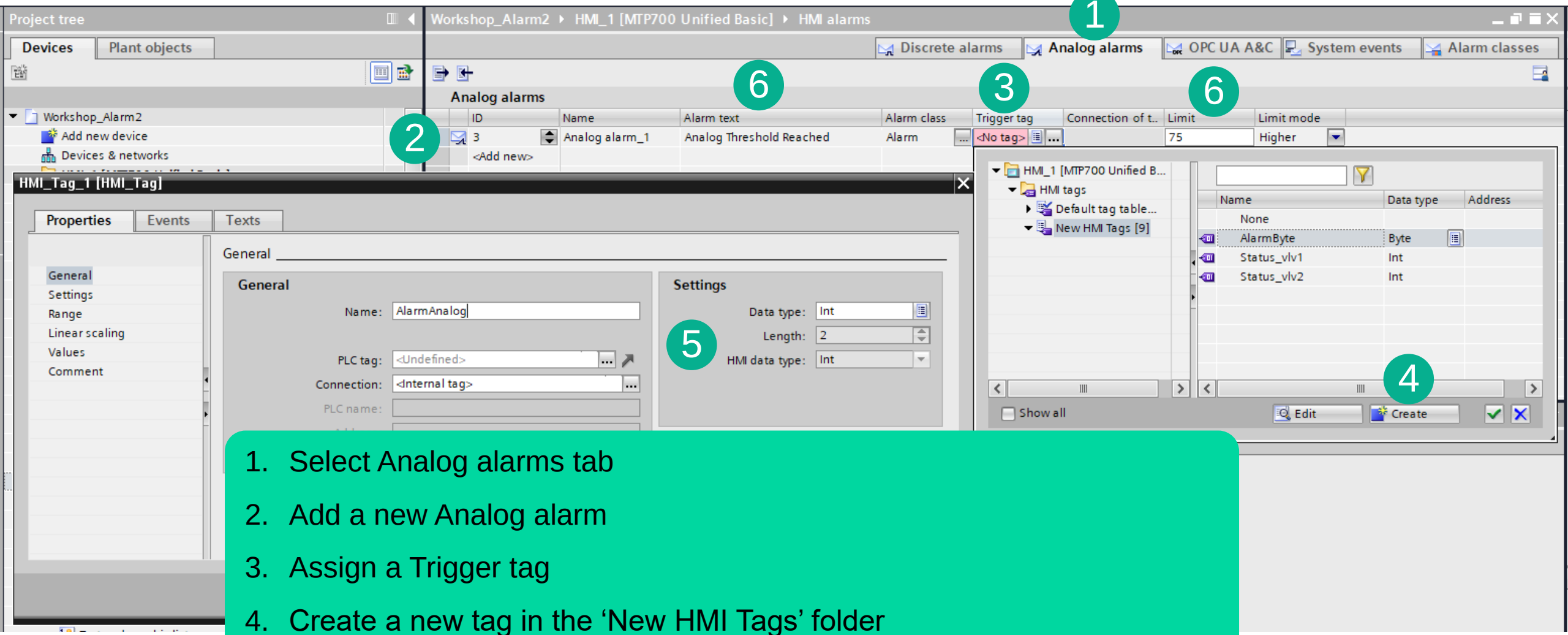
1. Open HMI alarms from Project Tree
2. Add a new Discrete alarm
3. Assign a Trigger Tag
4. Create a new Tag, place it in the ‘New HMI Tags’ folder
5. Name tag as shown – use Data type ‘Bool’
6. Add alarm text as shown

SIMATIC WinCC Unified
Alarms



1. Add a new Discrete alarm
2. Assign a Trigger Tag
3. Create a new Tag, place it in the ‘New HMI Tags’ folder
4. Name tag as shown – use Data type ‘Byte’
5. Add alarm text as shown – Change Trigger Bit = 1

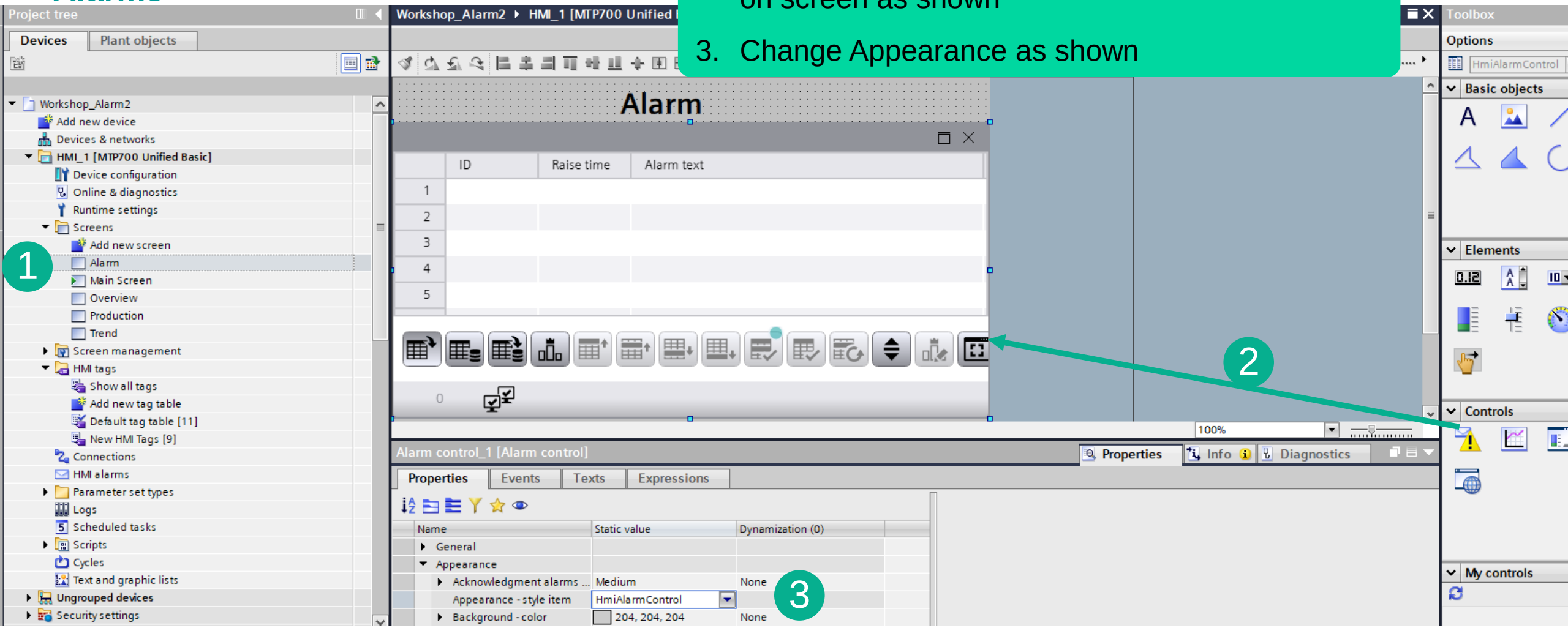
SIMATIC WinCC Unified Alarms



1. Select Analog alarms tab
2. Add a new Analog alarm
3. Assign a Trigger tag
4. Create a new tag in the ‘New HMI Tags’ folder
5. Add tag as shown
6. Add alarm text as shown, change limit as shown

SIMATIC WinCC Unified Alarms

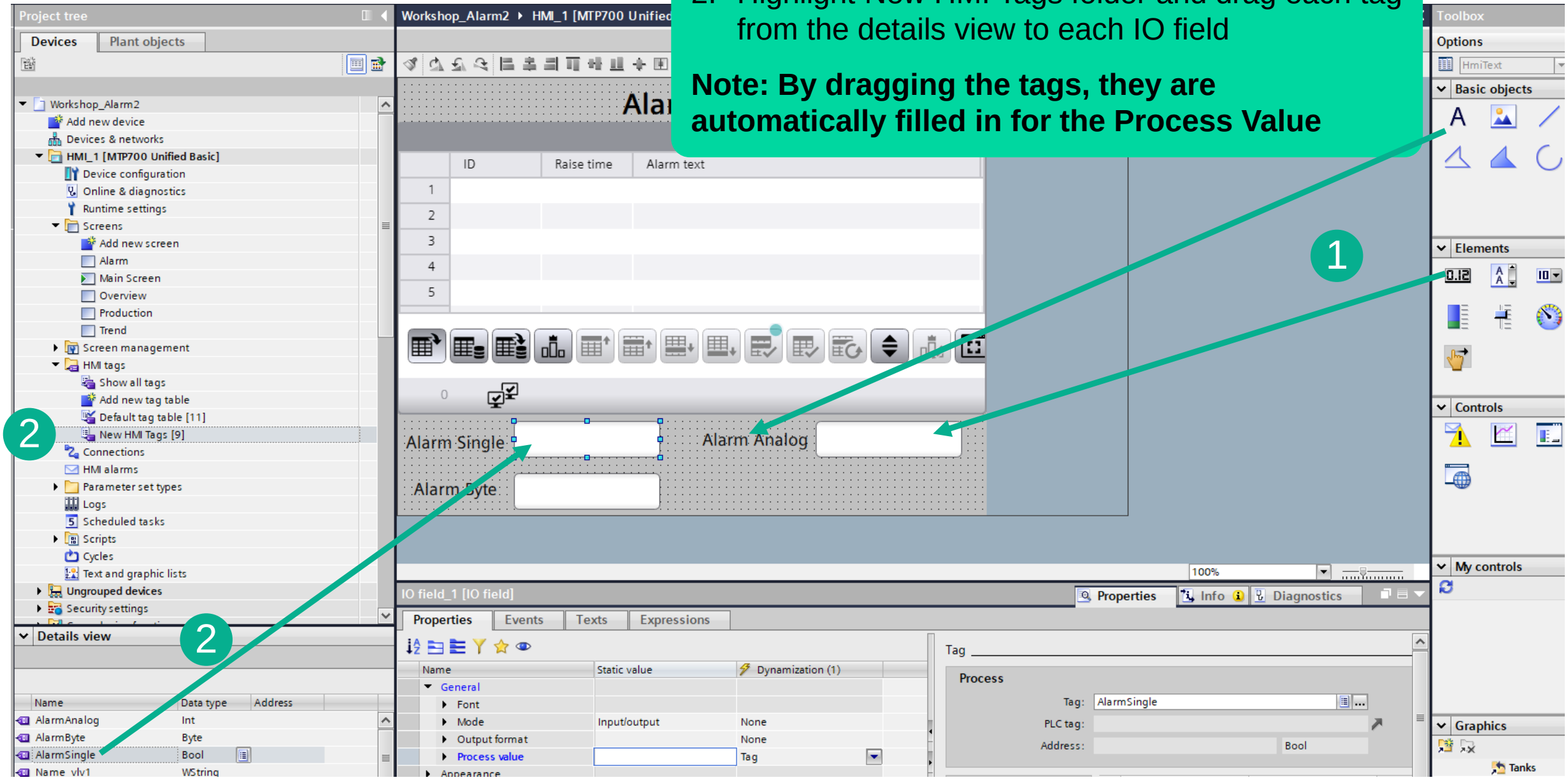
1. Open Alarm screen
2. Drag Alarm view from Controls Toolbox as place on screen as shown
3. Change Appearance as shown



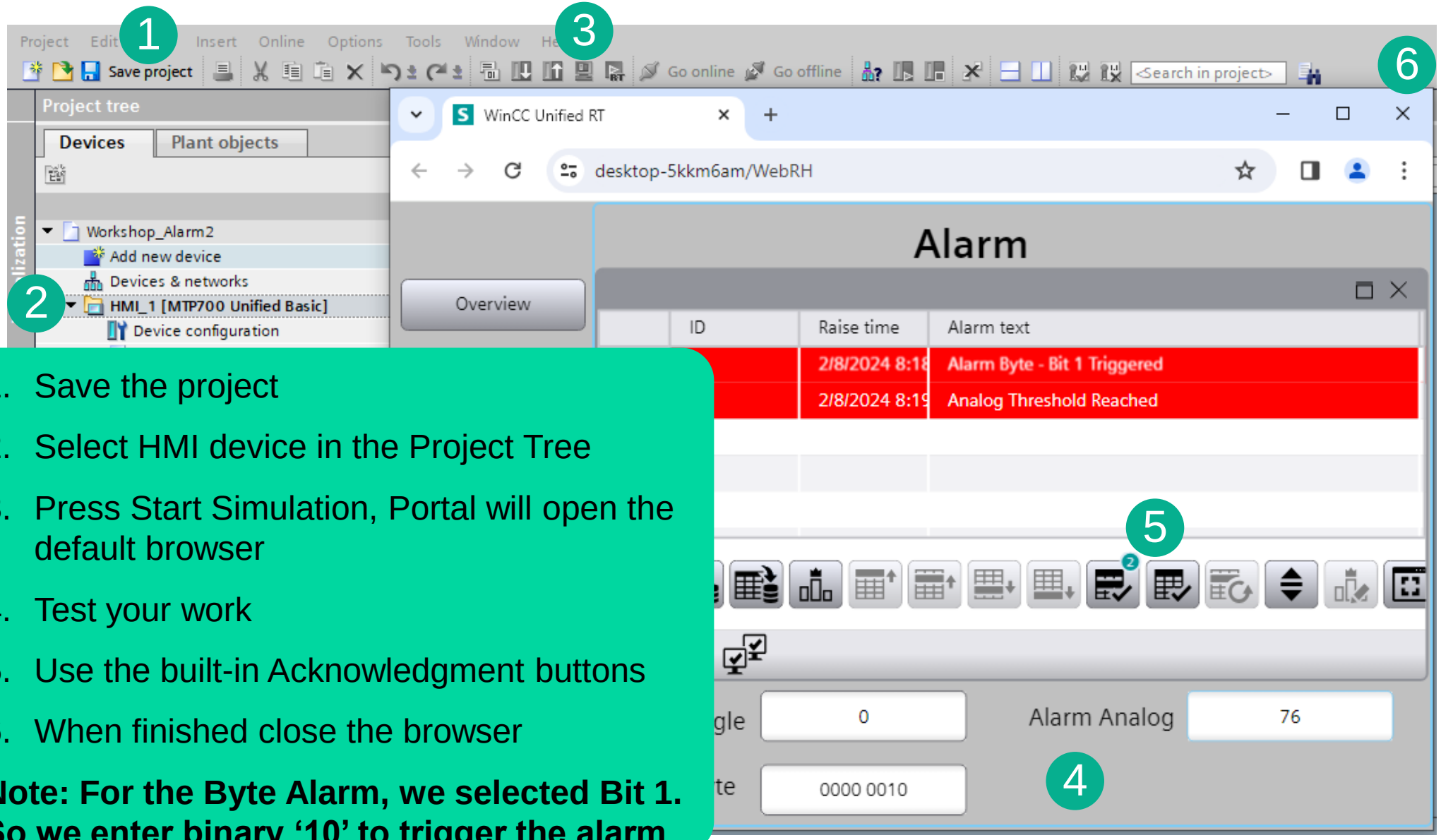
SIMATIC WinCC Unified Alarms

1. Drag Text and IO fields as shown for each tag as shown
2. Highlight New HMI Tags folder and drag each tag from the details view to each IO field

Note: By dragging the tags, they are automatically filled in for the Process Value



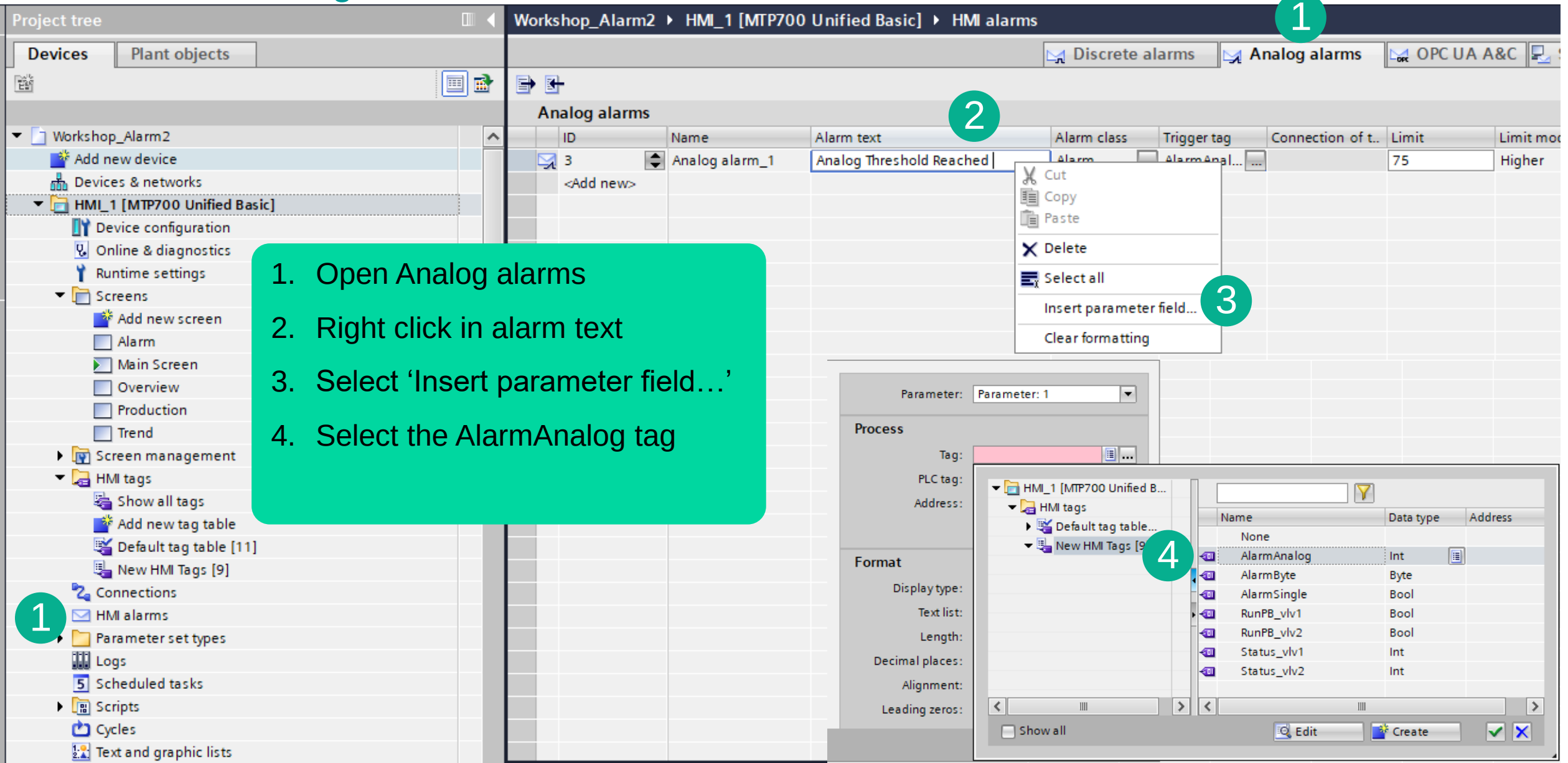
SIMATIC WinCC Unified Alarms



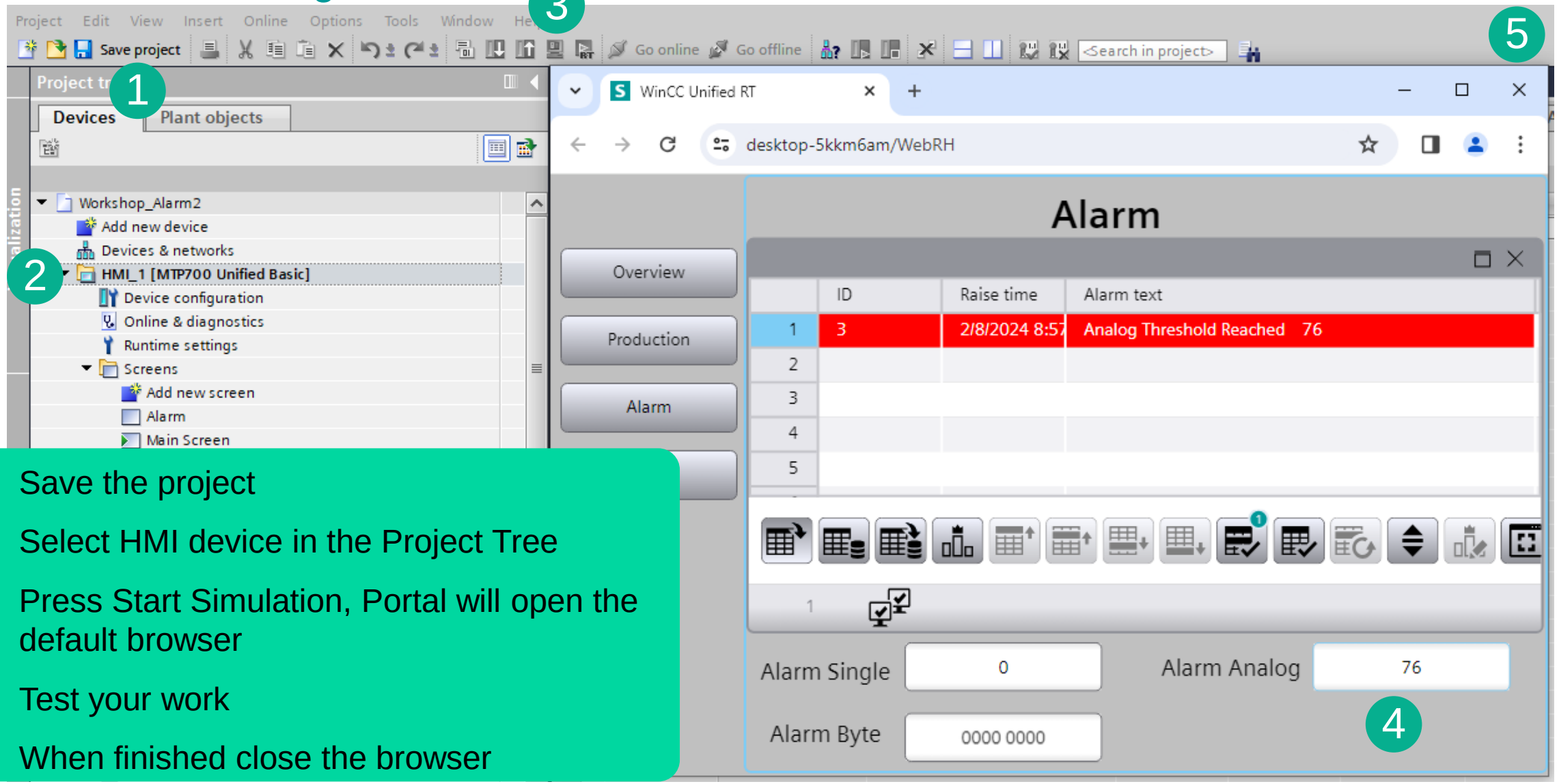
1. Save the project
2. Select HMI device in the Project Tree
3. Press Start Simulation, Portal will open the default browser
4. Test your work
5. Use the built-in Acknowledgment buttons
6. When finished close the browser

Note: For the Byte Alarm, we selected Bit 1. So we enter binary ‘10’ to trigger the alarm

SIMATIC WinCC Unified
Alarms – Add a tag to the Alarm Text



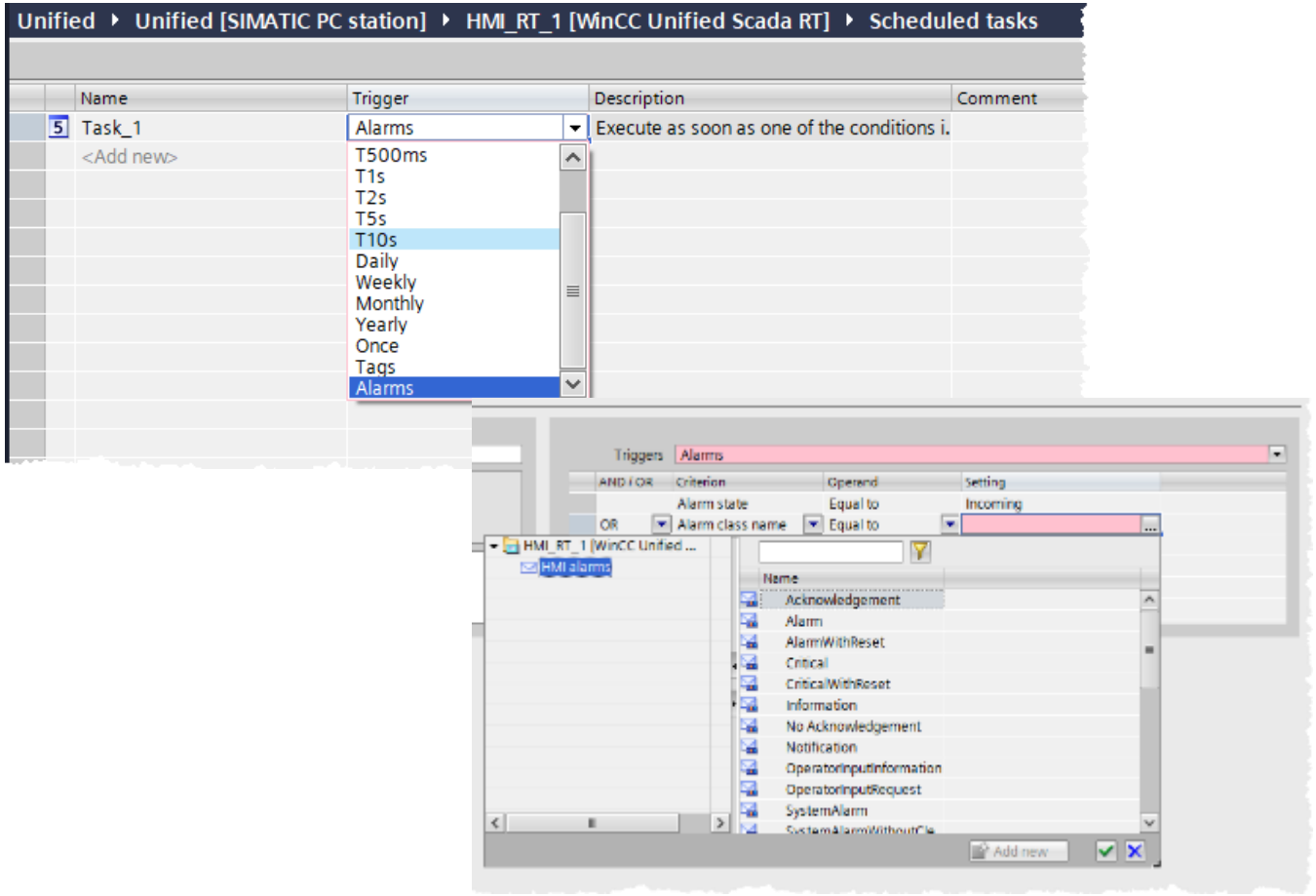
SIMATIC WinCC Unified
Alarms – Add a tag to the Alarm Text



1. Save the project
2. Select HMI device in the Project Tree
3. Press Start Simulation, Portal will open the default browser
4. Test your work
5. When finished close the browser

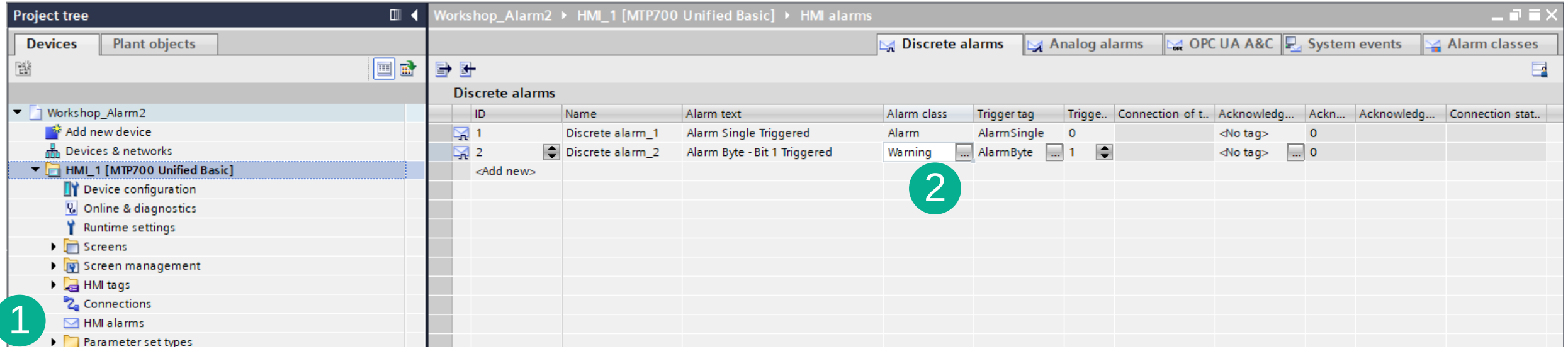
SIMATIC WinCC Unified
Trigger Events by Alarms

H A N D S O N



1. Create a scheduled task
2. Use as trigger “Alarms”
3. Combine some Criteria
4. Trigger the Event during Runtime

SIMATIC WinCC Unified
Trigger Events by Alarms



1. Open HMI alarms
2. Change Alarm class of ID 2 to ‘warning’ as shown

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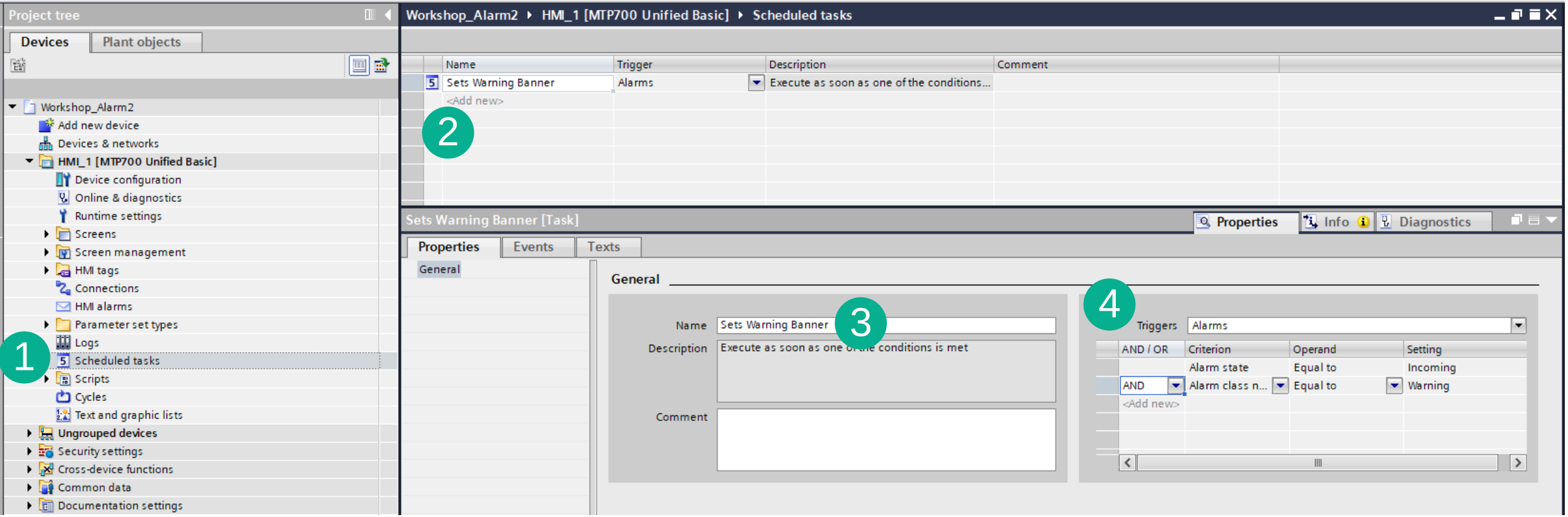
Trigger Events by Alarms



1. Open Scheduled tasks
2. Add a new task
3. Rename task as shown
4. Set Trigger type and add conditions as shown

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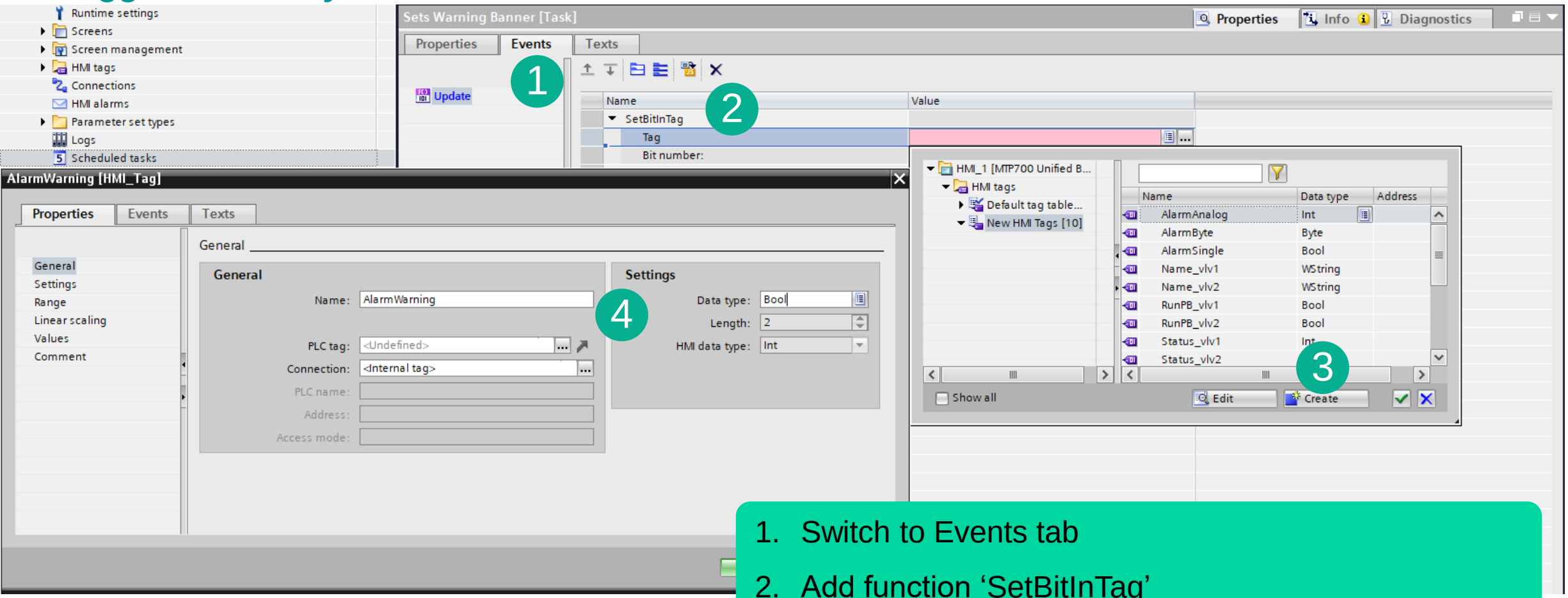
Trigger Events by Alarms



1. Switch to Events tab
2. Add function ‘SetBitInTag’
3. Create a tag
4. Fill in tag setting as shown – **Note: Bool**

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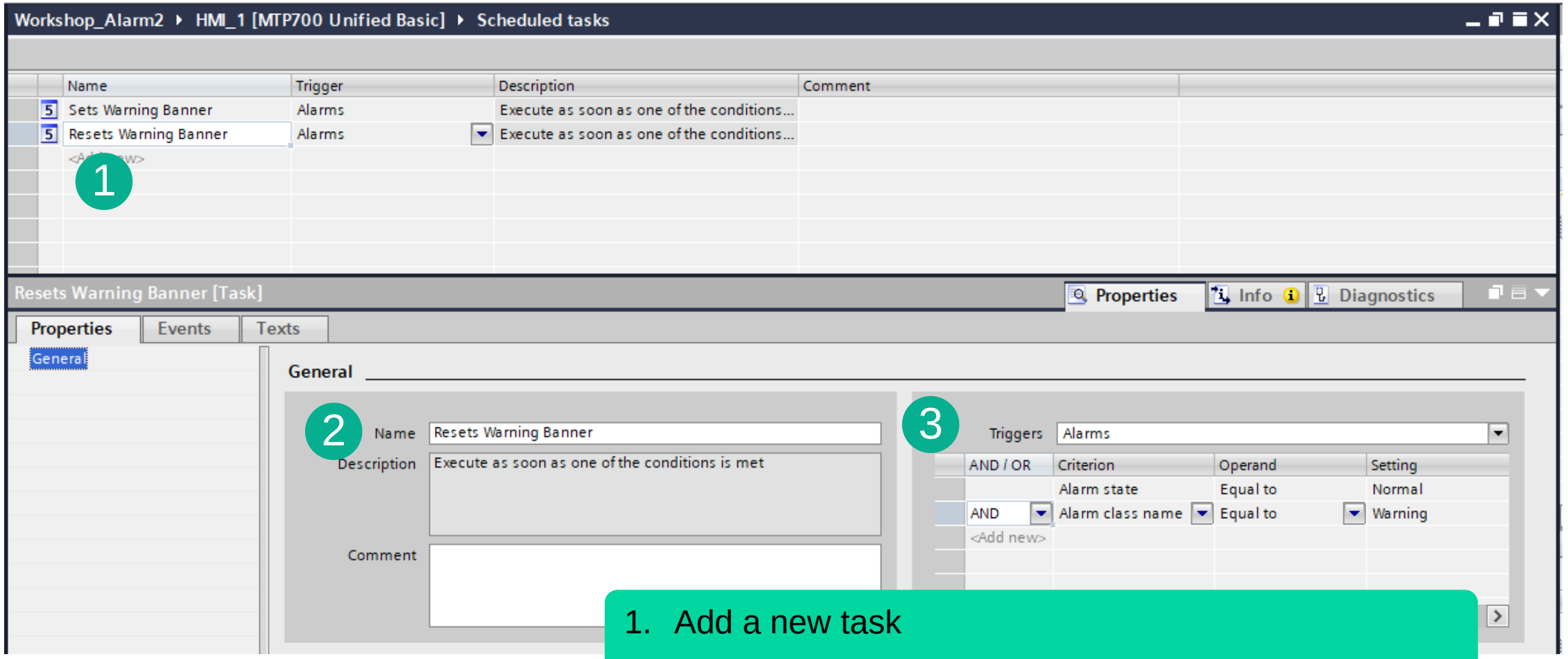
Trigger Events by Alarms



1. Add a new task
2. Rename task as shown
3. Set Trigger type and add conditions as shown

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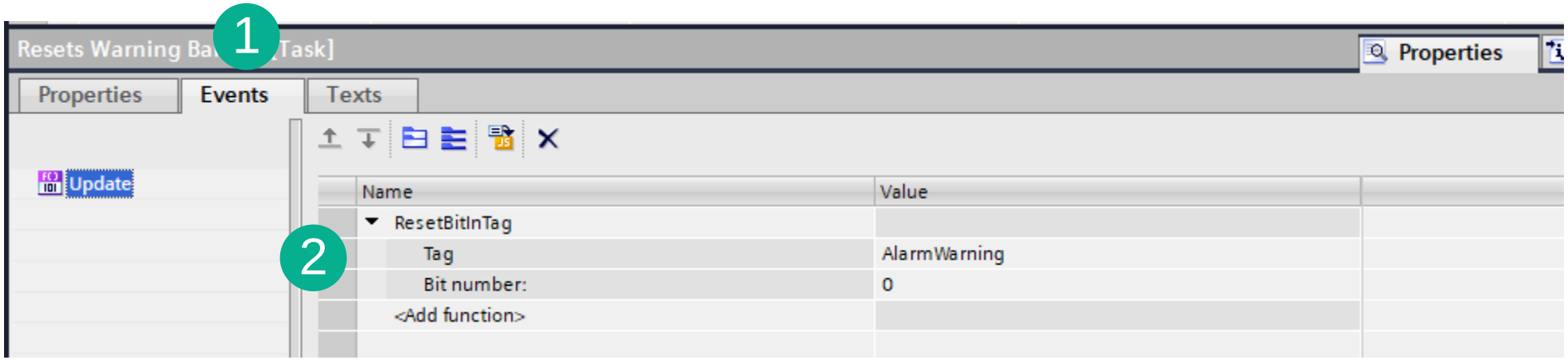
Trigger Events by Alarms



1. Switch to Events tab
2. Add function ‘ResetBitInTag, set value as shown

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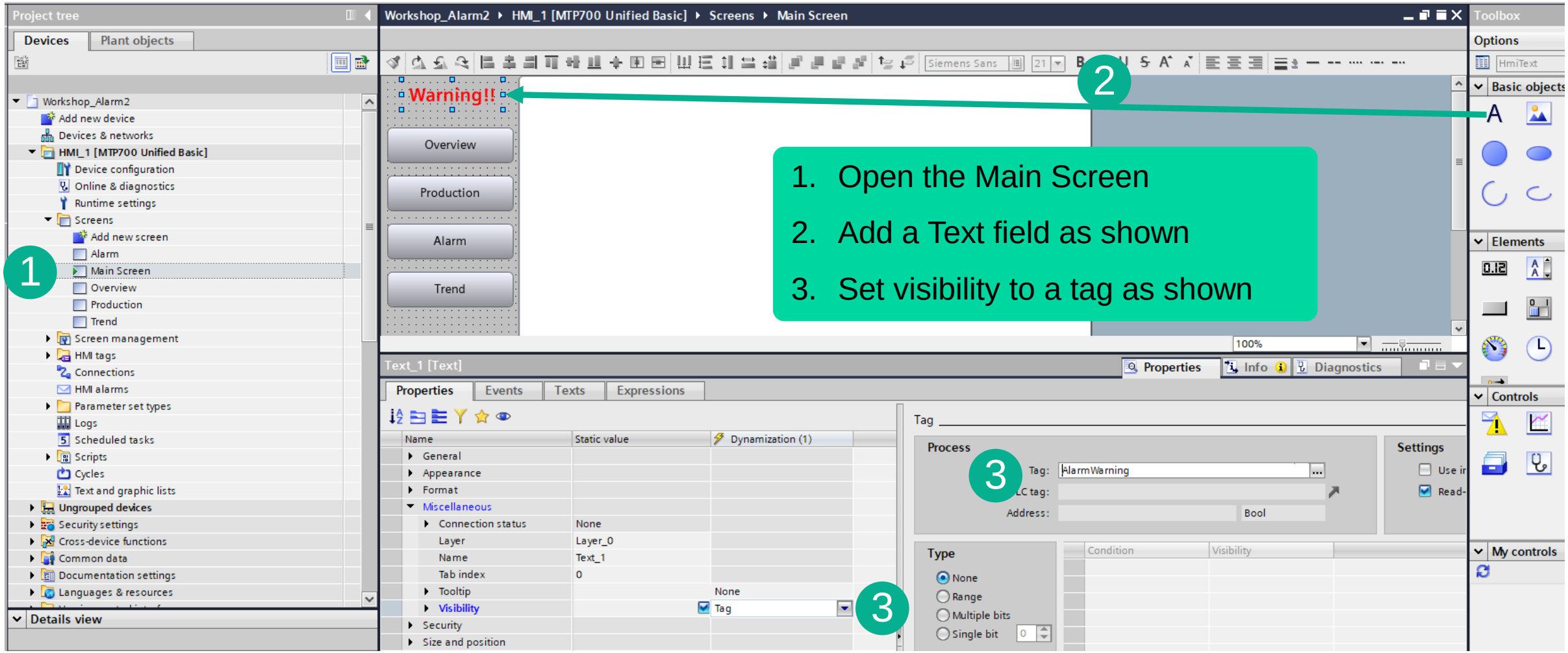
Trigger Events by Alarms



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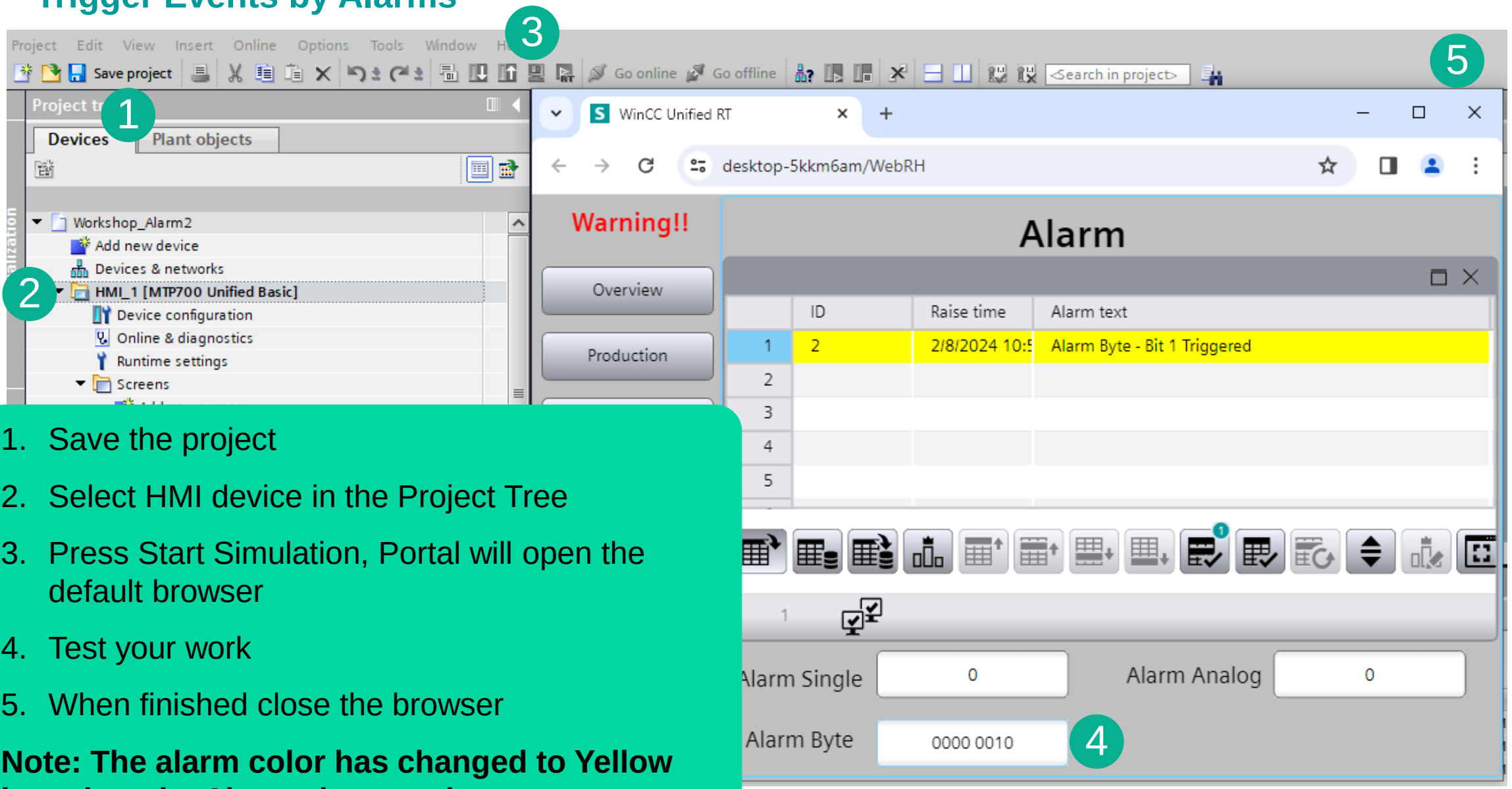
Trigger Events by Alarms



1. Save the project
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Note: The alarm color has changed to Yellow based on the Alarm class settings

WinCC Unified Workshop

Siemens Industries Inc
Digital Industries
Factory Automation
Visualization

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