

Technical Issue Notification

TECHNICAL SUPPORT P/N TIN00023

EST4: N Var functionality in rule scripts

Introduction

This Technical Issue Notification is to inform you that the Edwards business is aware of an issue with N Variables.

Currently when writing rules in the 4-CU which contain N Variables can result in those rules not capturing all devices within the specified range, when the device type is not specified on the input side of the rule.

Issue

N Variable objects are not being found when a rule is written to include devices within the specified numerical value range

When using the N Variable feature in the EST4 4-CU there are times based on how the rule is formatted, it will not capture devices in the rule. During these scenarios the "Input/Output Objects Rules Report" may incorrectly show that the input and output objects are being pulled from the actual rule. The examples below show the issue being present and what you are likely to encounter.

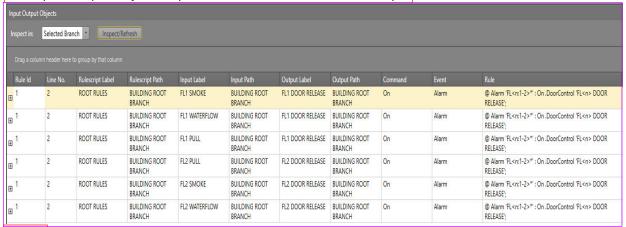
Example numbered list:

- Device type not specified with issue present.
 - Rule Example:

//FLOOR ALARM DOOR RELEASE

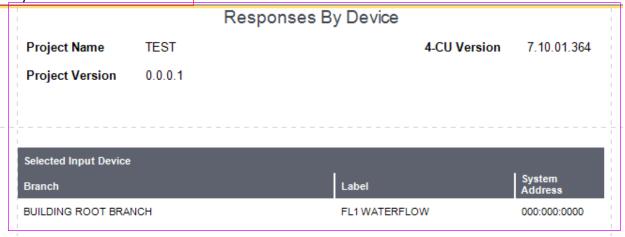
@ Alarm 'FL 22*' : On .DoorControl 'FL 1 DOOR RELEASE';

The Input/Output Objects Report for the Door Release rule example:



- (FIG.1)

- In Fig. 1 above notice that a check of the Input/Output Objects report shows Input devices on Floors 1&2 turning On the Door Release relays for Floors 1&2.
- In Fig.2 below running the Responses by Device Report for the Floor 1 Waterflow, only has one line. The Input device is listed but no Output devices. Based on this report we can now see that Door Release relay on Floor 1 will not activate.



(Fig.2)

Solution

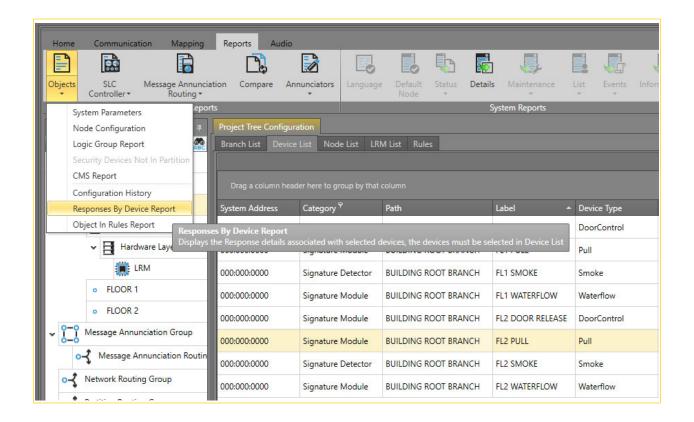
The technical issue is still under investigation and the Edwards business will provide you with a solution once the issue is resolved.

Run the Responses by Device Report in the 4-CU to verify that the rulescripts is working as intended.

How to run the Responses by Device Report:

- 1. Select an object in your branch, can be a smoke, heat, etc.
- 2. Go to the Objects button on the ribbon bar in the top left.
- 3. Select Responses by Device Report in the drop down and let the report run, picture below.

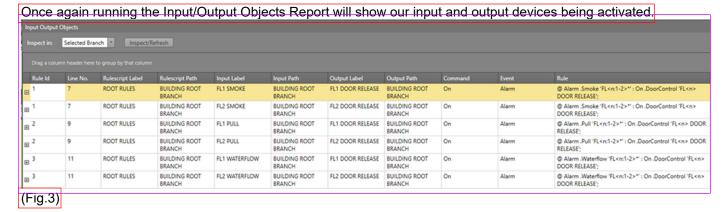
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Adding the Device type into the rulescript will prevent the issue. In the rules example below we are using the same rule script shown in the Issue section but have edited the rules to include the device types.

- Rule Example:
 - //FLOOR ALARM DOOR RELEASE SPECIFYING INPUT EVENT BY DEVICE TYPE
 - @ Alarm .Smoke 'FL≤n:1-2>*' : On .DoorControl 'FL≤n> DOOR RELEASE';
 - @ Alarm .Pull 'FL<n:1-2>*' : On .DoorControl 'FL<n> DOOR RELEASE';
 - @ Alarm .Waterflow 'FL <n:1-2>*' : On .DoorControl 'FL <n> DOOR RELEASE';

Input/Output Objects Report:



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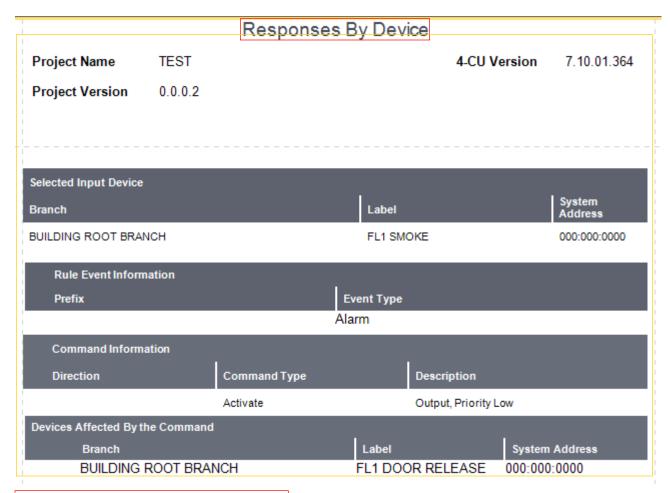
Responses by Device Report with Device types in rule shows the input and output devices:

Figures 4,5 &6 below now show the door relays as part of the rule script when running the Response by Device report..

Responses By Device								
Project Name	TEST		4-CU \	Version 7.10.01.364				
Project Version	0.0.0.2							
1								
Selected Input Device								
Branch		Lab	el	System Address				
BUILDING ROOT BRANCH		FL1	PULL	000:000:0000				
Rule Event Information								
Prefix		Event Ty	ре					
Alarm								
Command Inform	ation							
Direction	Comma	nd Type	Description					
	Activate		Output, Priority Low					
Devices Affected By the Command								
Branch		Labe		System Address				
BUILDING ROOT BRANCH		FL1 [OOR RELEASE	000:000:0000				

(Fig.4 Response report for Pull)

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(Fig.5 Response by Device Report for Smoke)

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Responses By Device								
Project Name	TEST			4-CU Version	7.10.01.364			
Project Version	0.0.0.1							
1 1 1								
Selected Input Device								
Branch			Label		System Address			
BUILDING ROOT BRANCH			FL1 WATERFLOW		000:000:0000			
Rule Event Inform	nation							
Prefix		E	vent Type					
Alarm								
Command Inform	ation							
Direction	Со	mmand Type	Desc	ription				
 	Act	tivate	Output, Priority Low					
Devices Affected By the	he Command							
Branch			Label		n Address			
BUILDING ROOT BRANCH			FL1 DOOR RELEASE 000:000:0000					

(Fig.6 Response by Device Report for Waterflow)

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