

Technical Issue Notification

TECHNICAL SUPPORT P/N TIN00023

EST4: N Var functionality in rule scripts²

Introduction 3

This Technical Issue Notification is to inform you that the Edwards business is aware of an issue with N Variables. 4 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.

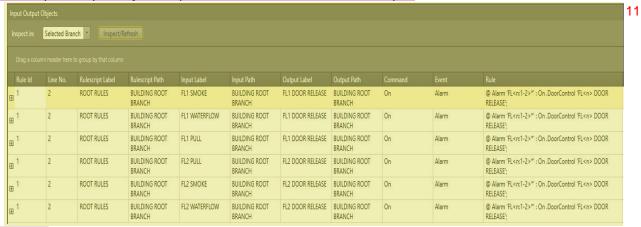
Issue 5

N Variable objects are not being found when a rule is written to include devices within the specified 6 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 7 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: 8

- Device type not specified with issue present.
 Rule Example:
 //FLOOR ALARM DOOR RELEASE
 @ Alarm 'FL<n:1-2>*' : On .DoorControl 'FL<n> DOOR RELEASE';
 - The Input/Output Objects Report for the Door Release rule example: 10



- (FIG.1) 12

- In Fig. 1 above notice that a check of the Input/Output Objects report shows Input devices on Floors 1&2 1 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 2 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 4

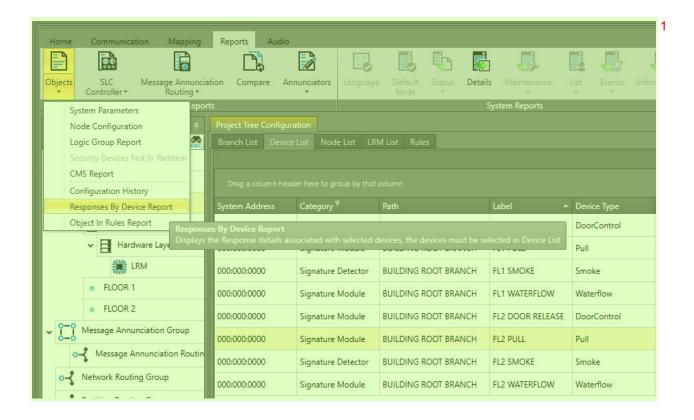
The technical issue is still under investigation and the Edwards business will provide you with a solution once the 5 issue is resolved.

8

Run the Responses by Device Report in the 4-CU to verify that the rulescripts is working as intended. 6

How to run the Responses by Device Report: 7

- 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.



Adding the Device type into the rulescript will prevent the issue. In the rules example below we are using the 2 same rule script shown in the Issue section but have edited the rules to include the device types.

- Rule Example: 3

 //FLOOR ALARM DOOR RELEASE SPECIFYING INPUT EVENT BY DEVICE TYPE

 (a) Alarm .Smoke 'FL<n:1-2>*' : On .DoorControl 'FL<n> DOOR RELEASE';
 - @ Alarm .Pull 'FL<n:1-2>*' : On .DoorControl 'FL<n> DOOR RELEASE'; 5
 - @ Alarm .Waterflow 'FL<n:1-2>*' : On .DoorControl 'FL<n> DOOR RELEASE'; 6

Input/Output Objects Report:

Once again running the Input/Output Objects Report will show our input and output devices being activated. 7 Selected Branch * Inspect/Ref FL1 DOOR RELEASE ROOT RULES BUILDING ROOT FL2 SMOKE **BUILDING ROOT** FL2 DOOR RELEASE BUILDING ROOT Alarm Alarm .Smoke 'FL<n:1-2>*' : On .DoorControl 'FL<n:
 DOOR RELEASE';
</p> ROOT RULES BUILDING ROOT FL1 PULL **BUILDING ROOT** FL1 DOOR RELEASE BUILDING ROOT @ Alarm .Pull 'FL<n:1-2>*' : On .DoorControl 'FL<n> DOOR ROOT RULES FL2 PULL **BUILDING ROOT** FL2 DOOR RELEASE BUILDING ROOT BRANCH ROOT RULES **BUILDING ROOT** FL1 WATERFLOW **BUILDING ROOT** FL1 DOOR RELEASE BUILDING ROOT @ Alarm .Waterflow 'FL<n:1-2>*' : On .DoorControl 'FL<n> Alarm .Waterflow 'FL<n:1-2>*': On .DoorControl 'FL<n>
 DOOR RELEASE': ROOT RULES BUILDING ROOT FL2 WATERFLOW BUILDING ROOT FL2 DOOR RELEASE BUILDING ROOT

(Fig.3) 8

Responses by Device Report with Device types in rule shows the input and output devices: 1

Figures 4,5 &6 below now show the door relays as part of the rule script when running the Response by Device 2 report..

Responses By Device							
Project Name	TEST			4-CU V	ersion	7.10.01.364	
Project Version	0.0.0.2						
Selected Input Device							I
Branch			Label			System Address	ı
BUILDING ROOT BRANCH		FL1 PULL	FL1 PULL		000:000:0000		
Rule Event Inform	nation						1
Prefix			Event Type				ı
			Alarm				
Command Inform	ation						ı
Direction		Command Type		Description			I
1 1 1		Activate	Output, Priority Low				
Devices Affected By the	he Command						
Branch			Label			Address	
BUILDING ROOT BRANCH			FL1 DOOF	R RELEASE	000:000:	0000	

(Fig.4 Response report for Pull) 4

I .		Responses By De	VICE 1		
Project Name	TEST		4-CU Ver	rsion 7.10.01.364	
Froject Name	ILSI		4-C0 Vei	7.10.01.304	
Project Version	0.0.0.2				
Selected Input Device					
Branch		Label		System Address	
BUILDING ROOT BRAN	СН	FL1 S	MOKE	000:000:0000	
Rule Event Inform	ation				
Prefix		Event Typ	е		
		Alarm			
Command Informa	tion				
Direction	Com	nmand Type	Description		
	Activ	ate	Output, Priority Low		
Devices Affected By th	e Command				
Branch		Label		System Address	

(Fig.5 Response by Device Report for Smoke) 3

Responses By Device 1						
Project Name	TEST			4-CU Version	7.10.01.364	
	0.0.0.1					
Project Version	0.0.0.1					
Selected Input Device						
Branch			Label		System Address	
BUILDING ROOT BRANCH		FL1 WATERFI	FL1 WATERFLOW			
Rule Event Inform	ation					
Prefix	iation		Event Type		1	
FIGUX			Alarm			
Command Informa	ation					
	ation		1			
Direction		Command Type	Des	cription		
		Activate	Output, Priority Low			
Devices Affected By the	ne Command				1	
Branch			Label	Systen	n Address	
BUILDING I	ROOT BRAN	ICH	FL1 DOOR RELEASE 000:000:0000			

(Fig.6 Response by Device Report for Waterflow) 3