

Linked conditions

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Introduction

In order to create a condition that depends on more than one module, the installer has two options. One is to use flags. The second option is to create linked conditions.

A linked condition allows some action to be triggered if condition A (main) is triggered, but only if condition B (linked) is active.

Configuration in Ampio Designer

In the *LOGIC* tab, create the main condition according to the required logic. Then, select the cog icon on the right and click the *Add linked* button.

M-SERV-s	× Flag	≎ 🚺 15. 🗸 🗷 🗙 Simple	⇒	M-SERV-s	× Inputs & outputs	0 Output 5. X 🕂 🗙	Simple	0 Tog	gle 0	≥ 2
#		Event		Actor	Output type	Output numbers	Delete	Add linked	Add description	

Then, in the line below, select on what condition the link is to apply - only binary values (having state 0 or 1) will be visible in the list.

	M-SERV-s	× Flag	≎ 🚺 15. 🗸 🖌 →	 Simple →
\mathscr{O}	M-SERV-s	× Flag	≎ 🗄 30. ♦	Active

Once all the desired conditions have been set, click 'Save'.

Configuration in the Smart Home Configurator*.

*from January 2024, the Smart Home Configurator software is no longer being developed. It is recommended to use it only in substantiated instances.

From the list of devices, select a device that you want to control and open the Device configurator.

😽 Am	ipio SmartH	ome device	configurator ver. 5.0.0.5317								- 🗆 X	
File D	evice Proj	ect Utils	Language									
List of	online devie	es:			-		Your so	ftware is	up to	date	Remote Support - download	d
Sea	rch below:				Search column:	Device nam	ne	\sim	٠	1	Q Search for descriptions	
On	MAC	Local	▲ Туре	Name			Pcb	Soft		I		
1	16	1	U010 M-SERV-s v3 (0.0.0.0)				6	11513		:		
2	4868	B4	U011 M-DOT-9				10	10226			Device monitor	
3	F	F	U025 UNI-MODBUS				7	5107		•	0 2	
											The sector matter	
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											*** ***	
											Network monitor	
											Q	
											Eind devices	
											Debugger:	
4										>	Ampio SmartHome device configurator ver. 5.0.0.5317 Interface recognized Device programming result 0000000F Software upload error	
	1%	PCB: 2 S	SOFT: 321 SN: D30997RS (0,16kbps	0,5% Max: 7	(,17kbps 24,4%)						l	

Then, open Linked conditions.

8	Conf	iguration w	indow of ac	tuating device								_		×
List	ofonli	ne devices:	Dev	vice configuration- Type	: U025 -U	INI-MODBUS	, MAC 0000	0F,						
	Search	for devices	:			Search column:	Device na	ne	~ 🖡 🕇					
0	n	MAC	Local	▲ Туре	Name			Pcb	Soft	Buffer	U/Temp	Pps	Prot.	Status
1		16	1	U010 M-SERV-s v3 (0.0.0.0)				6	11513	2560	12,8V	0,4	23	
2	_	4868	B4	U011 M-DOT-9				10	10226	1024	19,7V	0,2	19	
3		F	F	U025 UNI-MODBUS				7	5107	4096	10,2V	0,3	23	
<													1-	>
			device: UNI-				💥 Add o	ondition fro	m event		Add condition from	device	30	ait: <u>C</u> ondition
0		MAC	Type	Name Co	andition						Function		R	Eunction
-			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								1 diretion		Depe	endencies
<		Download	from dev	A Send to device		arameters	📩 Save to Fi	le	Open from	n file	C Linked conditio	ns	>	Up Down Test Delete
[0%	Device m	nemory usage									Ē	Сору

From the dropdown list on top, select the module that will serve as an additional source in your condition and click Add.

000001¦M	SERV- ¦				\sim	🖳 Add	📝 Edit			
Dn ID	MAC	Type	Name ked condition	Condition			-		×	Delete
		000000 16\00000	016 U010 M-SERV-s v3 No choice	×		✓ Accept	×	Cancel	~	
Dow	nload from the c	levice	Send to device				Open	Save	1	X Close

Next, choose the source type (from what information will the condition be created).

🖂 Editing a lin	ked condition				—		×
00000016\0000	0016 U010 M-SERV-s v3						
Negation	Binary input 🛛 🗸	1 stair	sensor				\sim
	No choice						
	Binary input			4 A		Connel	
	Binary output			Accept	~	Cancel	
	Binary flag						

Select a number (e.g. input or flag number) and, optionally, tick whether the information should be negated. Then click *Accept*.

💏 Editing a linked condition					-	×
00000016\0000016 U010 M-SERV-s v3	ł					
Negation Binary input	~	1 2 3 4 5 6 7	stair sensor			~

Once all linked conditions are established, click Send to device.

00001¦M-	SERV-			~	🔍 Add 🛛 🖉	Edit	
0	MAC 1	Type U010 M-SERV-s v3	Name	Condition Bin. input 1 (stair sensor)			Delete
🔁 Down	load from the	device	🐔 Send to device		Copen	E Save	× Close

After creating a regular condition in the configurator, go to Dependencies.



Select a dependency from the list and click Add.

💏 Condition link list - Window version: 5.0.0.4111		_		×
Selecting an item to bind:				
0	1 (stair s 🗸 🖳 Add		🗙 Del	ete
0	: 1 (stair sens			
Selecting a logical operation in the list: All of them 🗸 🗸	🗸 Accept	×	Close	
		~		

For all the dependencies, you can also choose options All of them (AND) or Any of (OR), and confirm by clicking Accept.

Selecting an item to bind: Ø ¦ MAC Local: 00000001 ¦ ! Bin. input 1 (stair s > Add Delete On D Condition On D Condition Selecting a logical operation in the list: All of them All of them All of them	*	Cor	ndition l	ink list - Window version: 5.0.0.411	1						-	-		х
Ø ! MAC Local: 00000001 ! ! Bin. input 1 (stair s v) On D Condition On D Condition Selecting a logical operation in the list: All of them All of them	Sele	ecting	g an item	to bind:										
On D Condition Image: Selecting a logical operation in the list: All of them All of them ✓ All of them ✓	0		MAC L	ocal: 00000001 ¦		Bin.	input 1	l (stai	n s v	🔤 🖳 Ada	ł		🗙 Del	ete
Selecting a logical operation in the list: All of them	0	n	ID	Condition										
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All of them				Selecting a logical operation in the list:	All of them		\sim		 Image: A second s	Accept		×	Close	
	_	_			All of them Any of				_				_	

In the conditions window you will then see a condition with a circles number, which stands for the number of dependencies.

💏 Cor	figuration	vindow of a	tuating device								-		×
List of or	line devices:	Dev	vice configuration- Typ	e: U025-UNI-	MODBUS, N	4AC 00000F	,						
Searc	h for device	s:		Sei	arch column:	Device name		~ 🌷 🚹					
On	MAC	Local	▲ Type	Name			Pcb	Soft	Buffer	U/Temp	Pps	Prot.	Status
1	16	1	U010 M-SERV-s v3 (0.0.0.0)				6	11513	2560	12,8V	0,4	23	
2	4868	B4	U011 M-DOT-9				10	10226	1024	19,7V	0,2	19	
3	F	F	U025 UNI-MODBUS				7	5107	4096	10,2V	0,3	23	
List of d	conditions fo	device: UNI-	MODBUS, MAC 00000F			X Add cond	ition fro	om event		Add condition from	device	Re-f	> edit: <u>C</u> ondition
On	MAC	Туре	Name	Condition				Function					Function
1 🗸	1	U010 M-SEP	RV-s v3	[0F] AND Binary VO I	n:T1(stair sensor) Basic	1	Binary flag: 7 Ba	sic Toggle			Dep	endencies
				A list of bou Ø ¦ MAC Loc	nd dependenc al: 00000001	ies, with a :	logic	al operation	All of them: Bin. input	1 (stair senso	or)		▲ Up Down
<												>	lest
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	0%	Device m	nemory usage										

The condition must, naturally, be sent to the device. From now on, for the condition to be met, linked information must also be active.

The logic saved in Dependencies must be activated first, if you want the condition to be performed immediately. Otherwise, it can be performed even with a couple of seconds' delay. Only when the Dependency is *Active* (logical status 1), will the logic of the main condition be checked.