

# Automation, on demand lock activation / deactivation code in combination with time profiles and other access methods

This FAQ shows you how to create automation to be able to activate the switch by special code for certain amount of time.

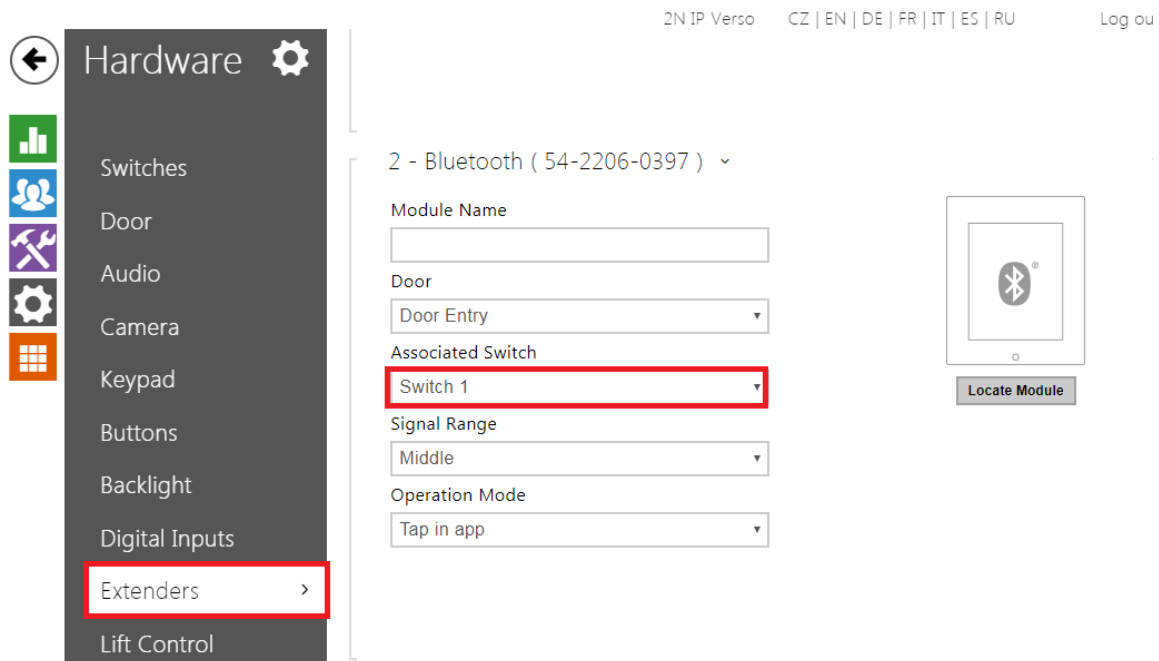


## Requirements

- Be able to open door by special code - door will remain open until deactivation code will be used
- While time profile is used - activation / deactivation code does not have any effect
- While time profile is used - user can access the building and can also use his access methods - intercom will signalise that the door is open only - door remain open until the time profile is active
- While activation code is used - door is open until the deactivation code is used or activation timeout expires
- While activation code is used - user can access by using any access method - intercom will signalise that the door is open only - door remains open until the deactivation code is used or activation timeout expires
- While activation code is not used - user can use any access method and the door remains open based on delay object in automation (default value is 5s) and will be closed after the timeout

## Settings pre-requisites:

It is necessary to associate switch with the bluetooth, RFID, or fingerprint modules in case that these access methods will be used. In this example bluetooth module is used and it is necessary to associate module to a specific switch. In this example switch 1 is used.



The screenshot shows the 'Hardware' settings page in the 2N IP Verso web interface. The left sidebar contains a menu with options: Switches, Door, Audio, Camera, Keypad, Buttons, Backlight, Digital Inputs, Extenders (highlighted with a red box), and Lift Control. The main content area shows settings for a Bluetooth module (ID: 54-2206-0397). The 'Associated Switch' dropdown menu is highlighted with a red box and set to 'Switch 1'. Other settings include 'Module Name' (empty), 'Door' (Door Entry), 'Signal Range' (Middle), and 'Operation Mode' (Tap in app). A 'Locate Module' button is visible next to a Bluetooth icon.

Switch 1 has following parameters:

- Switch mode: Monostable
- Switch-on duration: 5s
- Controlled output: None
- HTTP switch-on command: <https://<IP address of the intercom>/enu/trigger/<keyword>>

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Hardware

Switches

Door

Audio

Camera

Keypad

Buttons

Backlight

Digital Inputs

Extenders

Lift Control

Switch 1 Switch 2 Switch 3 Switch 4 Advanced

Controlled Output: None

Output Type: Normal

Time Profile: [not used]

Test the switch

Activation Codes

	CODE	ACCESSIBILITY	TIME PROFILE
1	4800	Keypad, DTMF	[not used]
2		Keypad, DTMF	[not used]

Distinguish on/off codes

Extended Activation

State Signaling

Synchronization

HTTP Commands

Switch-On Command: <https://192.168.1.131/enu/>

Switch-Off Command

Username

Password



#### Example

Note: In this example the http command looks like this: <https://192.168.1.131/enu/trigger/open> where:

- 192.168.1.131 - is the IP address of the intercom (loopback address 127.0.0.1 can be also used)
- open - keyword used in the automation event HttpTrigger

Notice that the Switch 1 does not control any output. To be able to met all requirements described at the beginning of the article, it is necessary to control the outputs via Automation. Switch 1 is used only to transfer the information about the activation of the switch to the Automation function. Switch 1 can be activated by the bluetooth, RFID card, fingerprint or by numeric code defined in the global switch codes of the Switch 1.

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Hardware

Door Entry Rules Exit Rules

Door Lock ▾  
Assigned Switch **Switch 2** ▾

Door Open Sensor ▾  
Assigned Input None ▾  
Input Mode Non Inverted ▾  
Unauthorized Door Open Detection   
Door Open Too Long Detection   
Maximum Door Open Time 60 [s]

REX Button ▾  
Assigned Input None ▾  
Input Mode Non Inverted ▾

Genetec Synergis >

It is necessary to configure Door section and assign the switch, which will be used, to the controlled output and door. Switch 2 is used in this example.

Switch 2 parameters:

- Switch mode - Bistable
- Controlled output - Output 1

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Switch 1 **Switch 2** Switch 3 Switch 4 Advanced

Hardware

- Switches >
- Door
- Audio
- Camera
- Keypad
- Buttons
- Backlight
- Digital Inputs
- Extenders
- Lift Control

Switch Enabled

Basic Settings ▾

Switch Mode **Bistable** ▾

Switch-On Duration 5 [s]

Controlled Output **Output 1** ▾

Output Type Normal ▾

Time Profile  [not used] ▾

**Test the switch**

Activation Codes ▾

CODE	ACCESSIBILITY	TIME PROFILE
1	Keypad, DTMF ▾	<input checked="" type="radio"/> [not used] ▾ <input type="radio"/>

Distinguish on/off codes

Extended Activation ▾

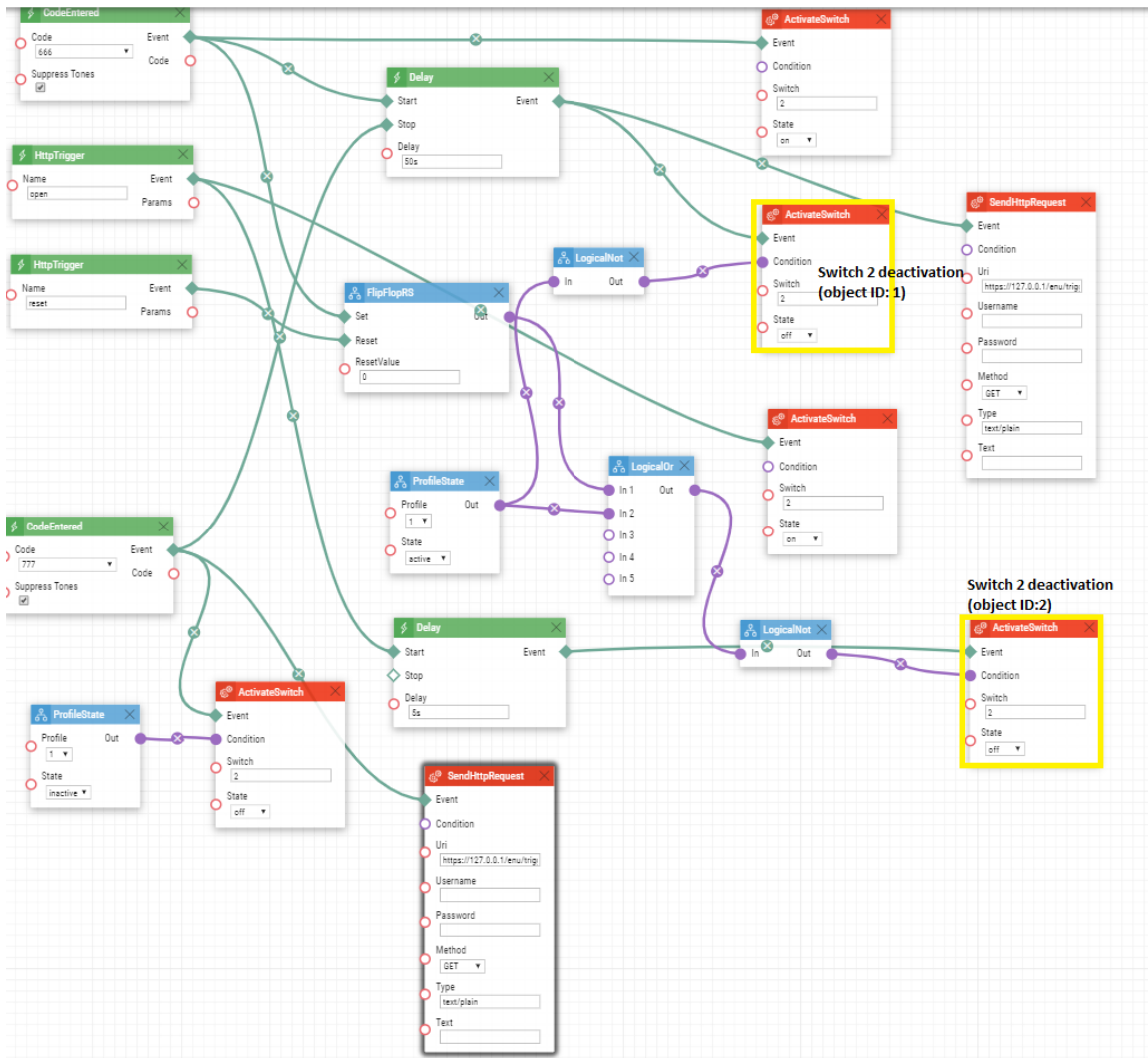
Activation by Call Disabled ▾

Activation by Quick Dial Button [not used] ▾

Activation by Time Profile  **[1] Working Hours** ▾

Switch 2 is set to control the output. Notice that the switch mode is in Bistable mode - this is crucial to ensure that the Switch 2 remains activated during the time specified in the Automation function. If the time profile has to be used, it has to be applied on the Switch 2.

## Automation function:



## How it works:

1. If the 666 code is entered - Switch 2 will be activated and also Delay for 50s will be activated. This delay can be modified and it determines the time which the Switch 2 will be active during. Also FlipFlopRS is set to 1 to save the info that code 666 has been used. Once the timeout expires, Switch 2 is deactivated - if the time profile is not active. HTTP command with "reset" keyword is sent to reset FlipFlopRS to 0. Switch 2 deactivation related to 666 activation code is highlighted on the picture as object with ID 1.
2. If code 777 is used - the Switch 2 is deactivated (if the time profile is not active) and HTTP command to loopback address is sent with the keyword "reset" - this will reset FlipFlopRS to 0.
3. If any access method associated with Switch 1 is used, then the Switch 1 will send the HTTP command with the keyword "open". Based on this keyword, the Switch 2 is activated and after 5s timeout the Switch 2 is deactivated, if the condition is met. Switch 2 deactivation is highlighted on the picture as object with ID 2.

Conditions and logic description:

Time profile	state of FlipFlopRS	Object ID 1 condition state	Object ID 2 condition state
1	0	0	0
1	1	0	0

0	0	1	1
0	1	0	1

Automation file can be downloaded [HERE](#) .

Note: All commands used in the Automation section are deeply described in our 2N® IP Intercom Automation manual where are also some examples. This manual is available on our web pages:

<https://wiki.2n.cz/hip/auto/latest/en>

More information:

- [2N® IP Intercoms \(official 2N web\)](#)