

# **Buzzer notifications in M-DOT modules**

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## Introduction

The sound signals of the M-DOT modules can be used not only in response to the pressing of touch fields, but also, for example, as a response to the pressing of an intercom. It is only necessary to know the API functions of the respective intercom and to configure the connection in the Ampio application.

# **Configuration in Ampio Designer**

Conditions triggering the sound signal can be created in the *Conditions* sub-tab of the respective device serving as an actuator or in the *LOGIC* tab.

#### Sound signal in response to a condition

To generate a sound based on the signals from the Ampio modules, a typical condition is created. Select the M-DOT device in which you want to generate a sound and select the *Buzzer* function with the selected tone and duration.

| #   | TRIGGERS         | OUTPUT TYPE | INPUT NUMBERS     | FUNCTION          | OUTPUT TYP      | E OUTPUT | NUMBERS            | FUNCTION |                    | ТҮРЕ          |       |
|-----|------------------|-------------|-------------------|-------------------|-----------------|----------|--------------------|----------|--------------------|---------------|-------|
| Ø   | Create condition |             |                   | <b></b>           | Create function |          |                    |          |                    | - 🕞 Con       | ıfirm |
| ≎ 🛆 | M-SERV-s         | × Flag      | ≎ 🗄 8.8 🖌 × 🕀 🔹 ≻ | Simple $\Diamond$ | → Buzzer        | ¢ [1. x  | ¢ Si               | mple     | 0 On<br>T:6        | ¢ 💿           | 2 @ < |
| _   |                  |             |                   | Ungrou            | ped (0) 🗸       |          | (j)<br>Tone (1-32) |          | (i)<br>Duration ti | me (0.1-25.5) |       |
|     |                  |             |                   |                   |                 |          | 6                  |          | 0.5                |               |       |

#### Sound notifications in M-DOT - intercom

The configuration of IP intercoms is described in the tutorial Audio connection with an intercom via SIP. Once the intercom is configured, by creating a condition from an event, you can switch on the corresponding audio signal.

Create an *Event* and select the corresponding pre-assigned event.

| #          | TRIGGERS           | OUTPUT TYPE | INPUT NUMBERS | FUNCTION |     | OUTPUT TYPE     | OUTPUT N | UMBERS | FUNCTION |      | TYPE      |       |                  |
|------------|--------------------|-------------|---------------|----------|-----|-----------------|----------|--------|----------|------|-----------|-------|------------------|
| $\bigcirc$ | Create condition - |             |               | <u> </u> | Cre | eate function — |          |        |          | _    | - (8)     | ) Con | ıfirm            |
| î 🛆        | 23: Ring           |             |               | ٢        | ÷   | Buzzer          | 0 I.X    | ≎ Sii  | mple     | 0 On | ;         |       | <b>2</b>         |
|            |                    |             |               |          |     |                 |          |        |          |      | T:6 B:0.5 |       | $\triangleright$ |

# **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.

### Creating conditions in the configurator

In order to generate a sound based on signals sent by Ampio modules, you need to create a standard condition. Select the M-DOT device, which you wish to emit a sound and enter its *Device configurator*.

| 1 | 🖲 An   | npio SmartH | lome devid         | e configurator ver. 5.0.0.6865 |      |                |           |     |        |      | _                  |              | ×          |
|---|--------|-------------|--------------------|--------------------------------|------|----------------|-----------|-----|--------|------|--------------------|--------------|------------|
| I | ile [  | Device Pro  | ject <u>U</u> tils | Language Connection            |      |                |           |     |        |      |                    |              |            |
|   | ist of | online devi | ices:              |                                |      | _              |           |     |        | Yo   | our softwar        | e is up to   | date       |
|   | Sea    | arch below: |                    |                                |      | Search column: | Device na | me  | $\sim$ | ۰ ال | <b>\$</b>          | Search for o | descriptio |
|   | On     | MAC         | Local              | ▲ Туре                         | Name |                |           | Pcb | Soft   |      |                    |              |            |
|   | 1      | F6C2        | 1                  | U010 M-SERV-s (192.168.1.44)   |      |                |           | 9   | 11537  |      | <                  | Þ            |            |
|   | 2      | 4868        | B4                 | U011 M-DOT-9                   |      |                |           | 10  | 10226  |      | <u>D</u> evice     | monitor      |            |
|   | 3      | D13         | D13                | U017 M-LED-1                   | LED  |                |           | 3   | 10056  |      |                    | ø            |            |
|   |        |             |                    |                                |      |                |           |     |        |      | Device <u>c</u> or | infiguration |            |

Then, select to which module the M-DOT should react (here, also an M-DOT module).

| 2   | Con     | figuration w  | indow of a  | ctuating device              |        |                          |             |     |                |               | _ |          | ×      |
|-----|---------|---------------|-------------|------------------------------|--------|--------------------------|-------------|-----|----------------|---------------|---|----------|--------|
| Lis | t of on | ine devices:  | De          | vice configuration- Type:    | U011-M | I-DOT-9, MAC 00          | 4868,       |     |                |               |   |          |        |
|     | Seard   | h for devices | :           |                              |        | Search column:           | Device name |     | ~ 🎝 🕇          |               |   |          |        |
|     | On      | MAC           | Local       | ▲ Type                       | Name   |                          |             | Pcb | Soft           | Buffer        |   | U/Temp   |        |
|     | 1       | F6C2          | 1           | U010 M-SERV-s (192.168.1.44) |        |                          |             | 9   | 11537          | 16384         |   | 12,2V 29 | 9°C    |
|     | 2       | 4868          | B4          | U011 M-DOT-9                 |        |                          |             | 10  | 10226          | 1024          |   | 19,8V    |        |
|     | 3       | D13           | D13         | U017 M-LED-1                 | LED    |                          |             | 3   | 10056          | 1024          |   | 12,7V    |        |
|     |         |               |             |                              |        |                          |             |     |                |               |   |          |        |
|     | ¢       |               |             |                              |        |                          |             |     |                |               |   |          | >      |
| L   | stofo   | onditions for | device: M-D | OT-9, MAC 004868             | ×.     | Add condition from event |             |     | 🥄 Add conditio | on from devic | e | Re-edit: | dition |

Select the input signal to which you want a reaction.

| The condition-MAC:<br>The definition of | ne condition-MAC: 00004868/LOC: 000000B4 ver: 5.0.0.6865<br>The definition of forcing information. Warning!!! in this window, we only mark what we want to respond to. |                           |                         |                     |                           |  |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------|---------------------|---------------------------|--|
| Inputs/Outputs                          | 🙃 Multitouch 📘 Fla                                                                                                                                                     | gs Bin 👃 DS 18B20         |                         |                     |                           |  |
| Inputs:                                 |                                                                                                                                                                        |                           | Outputs:                |                     |                           |  |
| > 1 Desc.<br>Act<br>4 Desc.             | 2 Desc. Act 5 Desc.                                                                                                                                                    | 3 Desc.<br>Act<br>6 Desc. | > 1 Desc.  Act  4 Desc. | 2 Desc. Act 5 Desc. | 3 Desc.<br>Act<br>6 Desc. |  |
| Act     Desc.     Act                   | Act B Desc. Act Act                                                                                                                                                    | Act     Desc.     Act     | Act     Desc.     Act   | Act B Desc. Act Act | 9 Desc.                   |  |

In the end, choose which buzzing sound must be played.

| Device reaction-MAC: 00003308/LOC: 00003308 asd v | ır: 5.0.0.6865                                     | X                                                                                                           |
|---------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Outputs I cons Blockade                           | 🖤 Highlight 🖤 Statuses 🎧 Brightness 🖤 LCD 📘 Binary | y flags F8 Lin. 8bit flags 👫 Lin. 16bit flags 📩 Events                                                      |
|                                                   |                                                    | Function:   Basic buzzer   Buzzer sequence   On   Pick the tone:   6.   Time of sound [0.01 - 2.55]s:   0,5 |
|                                                   |                                                    |                                                                                                             |
|                                                   | Get names                                          | ames Contirm X Close                                                                                        |

You can also create your own sound sequence.

| Function:               |         |       |
|-------------------------|---------|-------|
| Buzzer sequence         |         | ~     |
| Operation:              |         |       |
| On                      |         | ~     |
| Delay [0.01 - 655.35]s: | 0       |       |
|                         | No. 1   | No. 2 |
| Tone [031]:             | 6       | 6     |
| Speed [031]:            | 0       | 0     |
| Time [0655.35]s:        | 1       | 1     |
| Cycles count            | [0255]: | 2     |
|                         |         |       |
|                         |         |       |
|                         |         |       |
|                         |         |       |
|                         |         |       |
|                         |         |       |

Once the condition is ready, remember to send it to the device.

#### M-DOT's buzzer notifications - intercoms

Configuration of IP intercoms is described in detail in the Audio connection with an intercom via SIP guide. Having configured the intercom, you can add a chosen sound signal as a condition from an event.

Create a condition from event.

| List of<br>asd | f conditions f | or device: M-DOT-M6+ | , MAC 003308           |                                 | X Add condition from event      | - 🥄 A | dd condition from device | Re-edit:                 |
|----------------|----------------|----------------------|------------------------|---------------------------------|---------------------------------|-------|--------------------------|--------------------------|
|                |                |                      |                        |                                 |                                 |       |                          | Q Function               |
| On             | MAC            | Туре                 | Name                   | Condition                       |                                 |       | Function                 |                          |
| 1 🗸            | 3308           | U051 M-DOT-M6+       | asd                    | [0F] AND Binary I/O In:T6 Basic |                                 |       | Event Generation No. 22  | Dependencies             |
| ۲.             |                |                      |                        |                                 |                                 |       | >                        | ↓ Up<br>↓ Down<br>↓ Test |
| Ľ              | Downlos        | ad <u>f</u> rom dev  | Send <u>t</u> o device | e O Parameters                  | 📩 Save to File 🚺 Open from file | ¢     | Linked conditions        | Delete                   |
|                | 0%             | Device memory        | usage                  |                                 |                                 |       |                          |                          |

The next step is to select the last event on the list (event 255 or Intercom ringtone).

| Basic events 📘 Extended event | Analyze data definition   | Device data   |
|-------------------------------|---------------------------|---------------|
|                               | Type of logical operation | 1:            |
| power, backup 1               | ✓ AND                     | $\sim$        |
| ent no. 231                   | <u>^</u>                  |               |
| ent no. 232                   |                           |               |
| ent no. 233                   | Type and parameters of    | condition:    |
| ent no. 234                   |                           |               |
| ent no. 235                   | Single event occurence    | ~             |
| ent no. 237                   |                           |               |
| ent no. 238                   |                           |               |
| ent no. 239                   |                           |               |
| ent no. 240                   |                           |               |
| ent no. 241                   |                           |               |
| ent no. 242                   |                           |               |
| ent no. 243                   |                           |               |
| ent no. 244                   |                           |               |
| ent no. 245                   |                           |               |
| ent no. 240                   |                           |               |
| rver rupping                  |                           |               |
| connected from cloud          |                           |               |
| meone is at home              |                           |               |
| e house is empty              |                           |               |
| meone left home               |                           |               |
| meone entered home            | Cet names                 |               |
| ned in to the mobile app      | C Get names               | ✓ ×           |
| tercom ringtone               | ×                         |               |
|                               | Save names                | Confirm Class |

The remaining steps are identical to the ones described for the condition above. After sending the condition to the device, the activation of the intercom should result in a buzz from the M-DOT module.