

User Guide

# Philips Outdoor Multisensor app



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### **1** Introduction

The Philips Outdoor Multisensor mobile application (App) is required for commissioning and configuring the LRI8135/00 Philips Outdoor Multisensor (OMS). A mobile phone with the App provides access to Multisensors in a network and embedded firmware for over-the-air firmware updates.

A direct radio communication connection is used to connect the mobile phone (Mobile App) with the OMS. The radio has a range of 70 m.

The creation of the network is done locally using a direct radio communication connection and the Philips Outdoor Multisensor Mobile app in all option deployments, standalone and connected.

The Outdoor Multisensor App is compatible with Android version 10 and above. To check your Android phone version: 1 Open your phone's Settings app.

- Near the bottom, tap About phone and then select
   Software information.
- 3 Find your "Android version," "Android security update," and "Build number."

The Outdoor Multisensor Mobile App is compatible with Bluetooth version (phone) 5.0 and above. To check your Bluetooth phone version:

1 Install the AIDA64 App from the Google Play Store.

2 Go to the system and scroll down to find the Bluetooth version.

#### Note

A phone's Bluetooth version cannot be upgraded to a newer version because the phone's wireless radio is part of the SoC (System-on-a-Chip) and is part of your device's hardware.

#### Note

See Known issues with specific phones for additional compatibility information.

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# 2 App download

The Philips Outdoor Multisensor App from Signify Netherlands B. V. is freely available for Android devices running Android version 10.0 or higher from the Google Play Store.



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gnify Netherlands BV			
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This app is available fo	r vour device		
a ma opp is available to	1001 00100		
			_
Outdoor Sensor Configurator Wirelessly connect	Motion-based light on demand	C Configuration C	Organize devices with groups
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Wirelessly connect		Question made Protocol 3	
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Wirelessly connect to sensor devices	on demand	Record Control 1 Record Control 1 Record Control Control 1 Record Control Cont	With groups

Figure 1: Philips Outdoor Multisensor App on Google Play Store

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### 3 Standalone and connected systems

Philips Outdoor Multisensors can operate standalone in a local operating lighting system, using radio mesh technology, for light-on-demand applications, see figure 2.

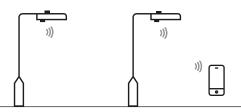


Figure 2: Standalone operation, local operating lighting system

The lighting system can also operate connected to Interact City through DALI using certified D4i Type A Outdoor Luminaire Controllers or OLCs (LLC785x, LLC781x, LLC745x), see figure 3.

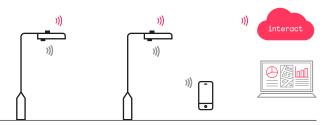


Figure 3: Connected operation, connected to Interact City

The Multisensor operates as a motion sensor, according to IEC 62386 Part 303. It sends commands to the OLC (Outdoor Luminaire Controller).

Interact City is designed to bring together connected lighting systems and the data that those systems collect.

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# 3.1 Application menu for standalone or connected operation

The Outdoor Multisensor mobile application discovers if the Multisensor is installed standalone or connected, providing a different configuration menu.

Multisensor	App connected menu	App standalone menu
Operating Mode	No (motion only)	Yes (Motion, Photocell, or both)
Light on level (%)	Yes (default 100%)*	Yes (default 100%)
Hold time (seconds)	Yes (default 5 minutes)	Yes (default 5 minutes)
Background (%)	No (Interact City calendar)	Yes (default 50%)
Cut-off time (seconds)	No (Interact City calendar)	Yes (default Disabled)
Direction	Yes (default Approaching)	Yes (default Approaching)
Sensitivity (dB)	Yes (default HIGH)	Yes (default HIGH)
Fade Time (seconds)	Yes (default No fade) **	Yes (default No fade)
Immunity	Yes (default Low)	Yes (default Low)
Photocell	No	Yes
Blink (Status LED/luminaire)	Yes	Yes

Table 1: Application menu for standalone or connected operation

#### Notes

- In standalone deployments, the fade time, hold time and Ligh ON level can be modified to any value.
- (\*) The Light ON level in connected basic is fixed to 100%. While in connected advance it can be modified from Interact City.
- (\*\*) The fade time in connected basic is fixed to 0 seconds. While in connected advanced it can be modified from Interact City.
- The recommended minimum hold time to display the switching points on Interact City is 5 minutes.
- Light on demand parameters in connected advance, must be configured from Interact City.
- Before adding devices to a project or group, Blink can be used to locate a Multisensor or to validate a group (group blink). Blink will turn on/off the luminaire and/ or the Multisensor status LED four times in the 20 s.

For further information about commissioning, sensor parameters details and uses cases, refer to the *Commissioning Guide* and the *System Guide*. .....

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#### 3.1.1 Outdoor Multisensor Standalone

In standalone deployment, only two use cases are possible: light on demand and dusk to dawn (photocell), and selection and configuration via the operating mode.

Within standalone deployments the App is used for commissioning, network configuration, and firmware updates of the Outdoor Multisensor.

#### 3.1.2 Outdoor Multisensor Connected Basic

The Operating mode of the Outdoor Multisensor cannot be changed in the App. In a Connected Basic deployment, only light on demand use case is possible, since the OMS photocell is disabled and applies the switching regime configured on Interact City.

While on Interact City, it is possible to visualize the switch log points related to Motion Triggers.

Within connected basic deployments the App is used for commissioning, network configuration, and firmware updates of the Outdoor Multisensor.

The Light-on level due to motion is fixed to 100% by the OLC, cut-off, Background level, and Fade time is not used, instead, the light is following the configuration and calendar defined in Interact City.

The Hold time, Sensitivity, and Direction, can be changed in the App .

#### 3.1.3 Outdoor Multisensor Connected Advance

The connected advance proposition enables all sensor data of the Outdoor Multisensor into Interact City. The different sensing modalities can be enabled per project (Interact City site).

- 1 Light on Demand
- 2 Safety Notification (tilt and impact)
- 3 Ambient Noise
- 4 Ambient Temperature

The App is used for network configuration only.

For further details about the Outdoor Multisensor Connected Advance proposition, refer to the *Interact City online help* and the *System Guide*.

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### 4 Account and Login

The Philips Outdoor Multisensor mobile App is registered as an Interact application. Thus, when downloading or starting the App, you must first click "Start with Interact" to log in.

An Interact account shall be created if the user does not have an Interact account Service Tag for Instance.



Figure 4: Interact Login start screen

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# 4.1 Login process when the user does not have an Interact account

- 1 Enter your email and press Create your account.
- 2 You will be redirected to the **Create your account** page, where you can introduce your credentials and press **Create Account**, and you will receive an email to activate the account.
- 3 Accept the Interact Terms of Software Service (ToSS) once the account is activated.

X ⊕ c.iotplatform.signify.com/upl < :	← ⊕ Interact ounts.sec.iotplatform.signify.com/ι < ∶	× ↔ c.iotplatform.signify.com/upl < :	← A Interact ounts.sec.iotplatform.signify.com/L < :
	interact	interact	interact
interact	Create your account To continue to interact  First Name Last name X		Interact Account Terms of Use The creation and your access to and use of your Interact Account is subject to your acceptance of our Interact Account Terms of Use (the "ToU").
	Create a password	Check your inbox	You can read and download our ToU here.
Enter your email To continue to Philips Outdoor Sensor Configurator 🚳	Repeat password	You will receive an email to with the link to create your account	Please note: if you decline, we will not create your Interact Account:
🖬 metadat rijigmali omj	Language		I accept the ToU
	English-US -		I decline the ToU
Next	Country		Your personal data will be processed in
Create an account	United States 👻		accordance with our Privacy Notice.
	Continue		
	III O <		III O <

Figure 5: Login process when the user does not have an Interact account

#### Note

Notice that the Interact ToSS is different from the Outdoor Multisensor mobile App. The user must sign the App ToSS when using the App for the first time.

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# 4.2 Login process when the user has an Interact account

If the user already has an Interact account, the user can use those credentials to access the App.

- 1 Enter your email and press Next.
- 2 Introduce your password and press Login.

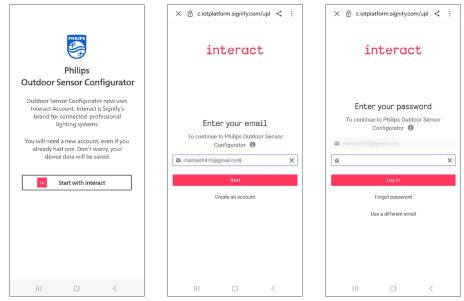


Figure 6: Login process when the user has an Interact account

#### Note

The user must accept the App ToSS to start using it for the first time.

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### **5 Opening screen: Projects, Profiles, and More**

After logging in, the app will automatically go to the opening screen.

The opening screen has three tabs: *Projects, Profiles,* and *More*.

By default, the **Projects** tab is selected on the opening screen.

#### Projects

Use the Projects tab to

- Create a New Project,
- Select, Import, or Edit (delete) a project, or
- *Scan* devices in range (un-commissioned or devices belonging to the active project)

The active project appears in **bold**.

#### Profiles

*Profiles* are used to manage the motion and photocell configurations of a Multisensor quickly. Use the **Profiles** tab to *Create, import, export,* or *edit* a profile.

#### More tab

Use the **More** tab to Log out, view the app version, and read the terms and conditions.



Figure 7: Projects screen

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# 6 Commissioning

An out-of-the-box Outdoor Multisensor is not commissioned, meaning it is not assigned to any project. If a Multisensor is not assigned to any project, it can be accessed by any user using the App.

Commissioning is the first important step after physical installation and is used to claim and group Outdoor Multisensors.

Once a Multisensor is commissioned, it can be accessed only by the phone used for commissioning. Other users will not have access to this Multisensor and will find this device as 'Already claimed'.

Refer to the *Commissioning Guide* for further reference.

#### G Note

When commissioning is done, export the project for backup, meaning an encrypted and password-protected file is created and stored in an email. If the phone used for commissioning gets lost or broken, but a project has been exported, the project can be restored on a new phone by importing this project.

If project export is not done and the phone used for commissioning gets lost or broken, then access to the Multisensors in this project is lost! In this case, a Signify representative must be involved to reset the devices!

Project export and import can also be used to transfer a project and ownership from one user to another or to give other users access to Multisensors in a project.

#### Note

Project/network changes are not synchronized in the cloud; hence, commissioning is done by one phone, not multiple phones.

#### G Note

Make sure that all Multisensors are in range and powered during commissioning.

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#### 6.1 Projects

On the Projects screen, tap **New project** to create a new project.

A new window allows giving a name to the new project.

Tap on a project name to select it and make it active.

The new project will appear in bold (name) on the project list that appears on the Projects page.

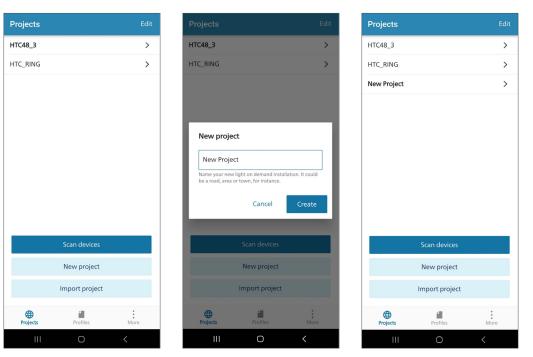


Figure 8: Create a new project

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#### 6.1.1 Project structure

The project screen provides an overview of the project.

< HTC48_4_0test	Export
About this project	>
Groups (1)	
New group	
Group 1	>
Devices (3)	
Add devices	
F0:82:C0:F4:A0:A5	>
F0:82:C0:F5:75:A7	>
F0:82:C0:F7:78:7A	>
Configure devices	
III O	<

Figure 9: Project structure

On *About this project* you can rename the project and change the project password (for exporting the project). Provides the date and time stamp when the project was created. It also allows to *Delete project* from the App.

#### Note

Delete will remove the project from the mobile App, and access to the devices will be lost. Before deleting a project, use Export project. The export file is required to regain access to the devices.

#### Attention

Notice that 'non-empty projects' project must be exported. After that, it can be deleted from the Mobile App.

#### G Note

Export project is not required if all devices have been removed from the project.

**Groups** allow access to the groups and create new ones. Refer to Add devices to a project for a detailed description.

**Devices**, allows to add devices to the group, and access to the added devices to the project. Refer to Groups for detailed description.

**Configure devices**, allows to configure the radar sensor parameters and the photocell. Refer to Configure devices for detailed description.

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#### 6.2 Add devices to a project

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In the commissioning process, the crucial step is adding a Multisensor to a project, as outlined in the *Commissioning Guide*. Outdoor Multisensors can be networked via a local radio mesh for light-on-demand applications. This grouping benefits standalone and connected operations, allowing areas or roads to be lit upon motion detection.

On your selected project screen tap **Add devices** to scan for Outdoor Multisensors in range and tap **Add device** to add a Multisensor to the project.

#### Note

Blink may be used to localize the device to be added to the project.

Next, accept or provide a new device name and press save.

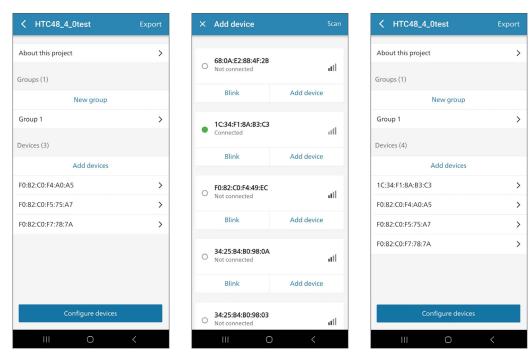


Figure 10: Add devices to a project.

#### Note

- A device can only be part of one project. If a device is part of another project, you will be informed when scanning the device by saying, "Already claimed".
- Access to a device with only one Mobile APP from one phone.

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#### 6.2.1 Blink devices

Before adding devices, you can tap **Blink** to locate a Multisensor. *Blink* turns on/off the luminaire, and the Multisensor status LED four times in 20 s.

#### 6.2.2 Remove devices from a project

On your selected project screen, tap on the device that should be deleted.

On *About this device*, tap on **Remove from Network**, and the device will be removed from your project.

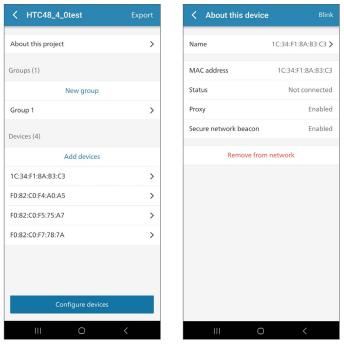


Figure 11: Remove a device from a project

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#### 6.3 Groups

After a Multisensor is added to a project, it can be added to a group using the mobile App.

#### 6.3.1 Create a group

Tap **New group** to create a new group, provide a new group name and press Create.

< HTC48_4_0test	Export	< HTC48_4_0test	Export	< HTC48_4_0test	
About this project	>	About this project	>	About this project	
Groups (1)		Groups (1)		Groups (2)	
New group		New group		New group	
Group 1	>	Group 1	>	Group 1	
Devices (4)		New group	- L	Group 2	
Add devices		Group 2	×	Devices (4)	
1C:34:F1:8A:B3:C3	>	Minimum 5 characters		Add devices	
F0:82:C0:F4:A0:A5	>	Cancel	Create	1C:34:F1:8A:B3:C3	
F0:82:C0:F5:75:A7	>	F0:82:C0:F5:75:A7	>	F0:82:C0:F4:A0:A5	
F0:82:C0:F7:78:7A	>	F0:82:C0:F7:78:7A	>	F0:82:C0:F5:75:A7	
				F0:82:C0:F7:78:7A	
Configure devices		Configure devices		Configure devices	5
III O	<	O	<	III O	<

Figure 12: Create a new group

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#### 6.3.2 About this group, rename or delete

On your selected project screen, tap on a group from the list below *New Group*.

On About this group you can modify the group name.

Tap on **Delete group** to remove the group from the project.

#### Note To delete a group, first remove all devices from the project.

Below *Devices* are displayed the list of devices that belong to the group.

✓ HTC48_4_0test	Export	Coroup 1	Blink	< About this gr	oup
About this project	>	About this group	>	Name	Grou
Groups (2)		Devices	1	Dele	ete group
New group		F0:82:C0:F4:A0:A5	>		
Group 1	>	F0:82:C0:F7:78:7A	>		
Group 2	>	F0:82:C0:F5:75:A7	>		
Devices (4)		Add devices			
Add devices					
1C:34:F1:8A:B3:C3	>				
F0:82:C0:F4:A0:A5	>				
F0:82:C0:F5:75:A7	>				
F0:82:C0:F7:78:7A	>				
Configure devices					
III O	<	III O	<		0 <

Figure 13: About this group, rename or delete

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6.3.3 Add devices to a group

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On your selected project screen, tap on a group to add devices.

Press Add devices to scan for devices in range.

A new screen will list the devices in range, tap on **Add** on a device. First, the App will connect to the devices, and press **Add** on the pop up message to confirm.

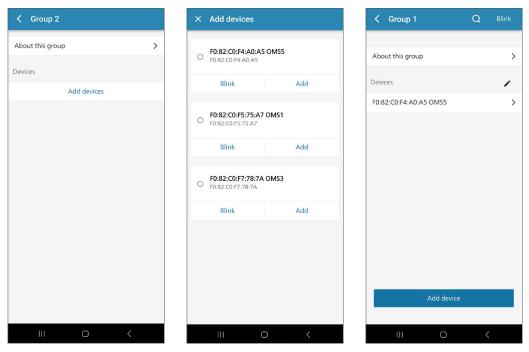


Figure 14: Adding devices to a group.

#### Notes

- If a Multisensor belongs to more than group, means that is an overlapping node.
- A Multisensor can be part of multiple groups but can only be part of only one project.

#### 6.3.4 Group Blink

Tap group on the top righ corner of the group screen to identify all luminaires in the group. The luminaires will blink four times.

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#### 6.3.5 Remove devices from a group

Tap on the group that should be removed. First, ensure that the group is empty.

Tap on each device to remove it from that network, on about each device.

If a device belongs to more groups, the devices will be removed from the group that is removed, and not from the rest.

>

it in Nearby

:B3:C3 >

K HTC48_4_0test	Export	Coroup 2	Blink	< 1C:34:F1:8A	:B3:C3
bout this project	>	About this group	>	About this device	
pups (2)		Devices		Groups	
New g	Iroup	1C:34:F1:8A:B3:C3	>	Group 2	
oup 1	>	Add devie	ces	To configure this device or i devices then access it from	update its firmware there.
pup 2	>				
ices (4)					
Add de	evices				
34:F1:8A:B3:C3	>				
32:C0:F4:A0:A5	>				
82:C0:F5:75:A7	>				
82:C0:F7:78:7A	>				
III O	) <	III O	<	111	0
About this devic	e Blinking	About this device	Blink	< About this d	evice
About this devic		About this device Name	Blink 1C:34:F1:8A:B3:C3 <b>&gt;</b>	About this d Name	evice
About this devic me XC address	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3	C About this device Name MAC address	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3	About this d Name MAC address	evice 1C:34:
About this devic me IC address tus	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected	About this device Name	Blink 1C:34:F1:8A:B3:C3 <b>&gt;</b>	About this d Name MAC address Status	
About this device me (C address tus xy	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to</li> </ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected	About this d Name MAC address Status Proxy	evice 1C:34: 1C:3
About this device me AC address tus tus vxy uure network beacon	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	C About this device Name MAC address Status	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected one or more	About this d Name MAC address Status	evice 1C:34: 1C:3
About this device me (C address tus xy	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to groups</li> <li>Removing this node from recommended before pristil do you want to remusili do you want you you you you you you you you you you</li></ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected one or more mi it's groups is roceeding.	About this d Name MAC address Status Proxy Remove device	evice 10:34: 10:3 10:3 83:C3 node w the HTC48_4.
About this device me (C address tus xy ure network beacon	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to groups</li> <li>Removing this node from precommended before print of the period of the period</li></ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected one or more mi it's groups is roceeding.	About this d     Name     MAC address     Status     Proxy     Remove device     The 1C:34:F1:8A:     longer belong to     Network network	evice 10:34: 10:3 10:3 10:3 83:03 node w B3:03 node w H83:03 node w the HTC48_4, c or any of its s
About this device me AC address atus cure network beacon	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to groups</li> <li>Removing this node from precommended before predimended before predimended</li></ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected one or more mit's groups is roceeding. ove node from	About this d     Name     MAC address     Status     Proxy     Remove device     The 1C:34:F1:8A:     longer belong to     Network network	evice 10:34: 10:3 10:3 10:3 83:03 node w B3:03 node w H83:03 node w the HTC48_4, c or any of its s
About this device me AC address atus cure network beacon	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to groups</li> <li>Removing this node from precommended before pressil do you want to remethis project?</li> </ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected one or more mit's groups is roceeding. ove node from	About this d     Name     MAC address     Status     Proxy     Remove device     The 1C:34:F1:8A:     longer belong to     Network network	evice 10:34: 10:3 10:3 10:3 83:03 node w B3:03 node w H83:03 node w the HTC48_4, c or any of its s
About this device ame AC address atus cxy cure network beacon	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to groups</li> <li>Removing this node from precommended before pressil do you want to remethis project?</li> </ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected one or more mit's groups is roceeding. ove node from	About this d     Name     MAC address     Status     Proxy     Remove device     The 1C:34:F1:8A:     longer belong to     Network network	evice 10:34: 10:3 10:3 10:3 83:03 node w B3:03 node w H83:03 node w the HTC48_4, c or any of its s
About this device ame AC address atus oxy cure network beacon	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to groups</li> <li>Removing this node from precommended before pressil do you want to remethis project?</li> </ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected one or more mit's groups is roceeding. ove node from	About this d     Name     MAC address     Status     Proxy     Remove device     The 1C:34:F1:8A:     longer belong to     Network network	evice 1C:34: 1C:3 R3:C3 node w the HTC48_4, s or any of its s
About this device me AC address atus cure network beacon	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to groups</li> <li>Removing this node from precommended before pressil do you want to remethis project?</li> </ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected one or more mit's groups is roceeding. ove node from	About this d     Name     MAC address     Status     Proxy     Remove device     The 1C:34:F1:8A:     longer belong to     Network network	evice 10:34: 10:3 10:3 10:3 10:3 8 8 3:03 node w 8 8 3:03 node w 10:4 8 4 0 0 10:5 10:5 10:5 10:5 10:5 10:5 10:5
About this device ame AC address atus oxy cure network beacon	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to groups</li> <li>Removing this node from precommended before pressil do you want to remethis project?</li> </ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected one or more mit's groups is roceeding. ove node from	About this d     Name     MAC address     Status     Proxy     Remove device     The 1C:34:F1:8A:     longer belong to     Network network	evice 10:34: 10:3 10:3 10:3 83:03 node w B3:03 node w H83:03 node w the HTC48_4, c or any of its s

Figure 15: Remove devices from a group.

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Next, to remove an empty group, tap on **About this group** and select **Delete group**.

Press **Remove** to remove the group from your project structure.

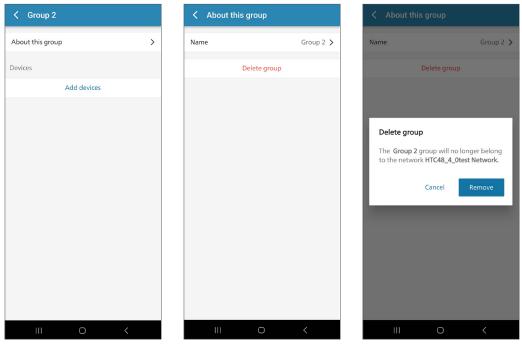


Figure 16: Remove an empty group.

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#### 6.4 Projects export and import

When commissioning is done, export the project for backup, meaning an encrypted and password-protected file is created and stored in an email.

bout this project	>	About this group	>	About this device	
roups (2)		Devices	,	Groups	
New g	Iroup	1C:34:F1:8A:B3:C3	>	Group 2	
Group 1	>	Add devi	ces	To configure this device or up devices then access it from the	date its firmware, find it in Nearb
Group 2	>			devices then access it from the	ne.
evices (4)					
Add de	evices				
C:34:F1:8A:B3:C3	>				
0:82:C0:F4:A0:A5	>				
0:82:C0:F5:75:A7	>				
F0:82:C0:F7:78:7A	>				
III C		III O	K Blink	III	O <
< About this devic					<b>rice</b> Blir
< About this devic	e Blinking	About this device	Blink	< About this dev	<b>/ice</b> Blin 1C:34:F1:8A:B3:C3
< About this device Name MAC address	e Blinking 1C:34:F1:8A:B3:C3 >	About this device           Name	Blink 1C:34:F1:8A:B3:C3 <b>&gt;</b>	About this dev Name	
About this devic	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3	C About this device Name MAC address Status	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected	About this dev Name MAC address	vice Blin 1C:34:F1:8A:B3:C3 1C:34:F1:8A:B3:C3
About this device           Name           MAC address           Status           Proxy	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> </ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected	About this dev Name MAC address Status	vice Blin 1C:34:F1:8A:83:C3 1C:34:F1:8A:83:C Connecter
< About this device Name VAC address Status Proxy	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to</li> </ul>	Blink 10:34:F1:8A:B3:C3 > 10:34:F1:8A:B3:C3 Connected one or more m it's groups is roceeding.	About this dev Name MAC address Status Proxy	vice Blin 1C:34:F1:8A:B3:C3 1C:34:F1:8A:B3:C Connecte Enable :C3 node will no te HTC48_4_0test
< About this device Name VAC address Status Proxy Secure network beacon	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to groups</li> <li>Removing this node from p Still do you want to rem</li> </ul>	Blink 10:34:F1:8A:B3:C3 > 10:34:F1:8A:B3:C3 Connected one or more m it's groups is roceeding.	About this dev Name MAC address Status Proxy Remove device? The 1C:34:F1:8A:B3 longer belong to th	vice Blin 1C:34:F1:8A:83:C3 1C:34:F1:8A:83:C Connecter Enables :C3 node will no te HTC48_4_0test or any of its groups.
< About this device Name VAC address Status Proxy Secure network beacon	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to groups</li> <li>Removing this node from p still do you want to rem this project?</li> </ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected one or more mit's groups is roceeding: ove node from	About this dev Name MAC address Status Proxy Remove device? The 1C:34:F1:8A:B3 longer belong to th Network network of	vice Blin 1C:34:F1:8A:B3:C3 1C:34:F1:8A:B3:C Connecter Enables :C3 node will no te HTC48_4_Otest or any of its groups.
< About this device Name VAC address Status Proxy Secure network beacon	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to groups</li> <li>Removing this node from p still do you want to rem this project?</li> </ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected one or more mit's groups is roceeding: ove node from	About this dev Name MAC address Status Proxy Remove device? The 1C:34:F1:8A:B3 longer belong to th Network network of	vice Blin 1C:34:F1:8A:B3:C3 1C:34:F1:8A:B3:C Connecter Enables :C3 node will no te HTC48_4_Otest or any of its groups.
<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>Proxy</li> <li>Secure network beacon</li> </ul>	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to groups</li> <li>Removing this node from p still do you want to rem this project?</li> </ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected one or more mit's groups is roceeding: ove node from	About this dev Name MAC address Status Proxy Remove device? The 1C:34:F1:8A:B3 longer belong to th Network network of	vice Blin 1C:34:F1:8A:B3:C3 1C:34:F1:8A:B3:C Connecter Enables :C3 node will no te HTC48_4_Otest or any of its groups.
< About this device Name WAC address Status Proxy Secure network beacon	e Blinking 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected Enabled Enabled	<ul> <li>About this device</li> <li>Name</li> <li>MAC address</li> <li>Status</li> <li>This node belongs to groups</li> <li>Removing this node from p still do you want to rem this project?</li> </ul>	Blink 1C:34:F1:8A:B3:C3 > 1C:34:F1:8A:B3:C3 Connected one or more mit's groups is roceeding: ove node from	About this dev Name MAC address Status Proxy Remove device? The 1C:34:F1:8A:B3 longer belong to th Network network of	vice Blin 1C:34:F1:8A:B3:C3 1C:34:F1:8A:B3:C Connecter Enables :C3 node will no te HTC48_4_Otest or any of its groups.

Figure 17: Project (export) sharing steps

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In case the phone used for commissioning gets lost or broken, but a project has been exported, the project can be restored on a new phone by importing this project.

If project export is not done and the phone used for commissioning gets lost or broken, then also access to the Multisensors in this project is lost! In this case, a Signify representative needs to be involved to reset the devices!

Project export and import can also be used to transfer a project and ownership from one user to another or to give other users access to Multisensors in a project.

#### Note

Project/network changes are not synchronized in the cloud; hence commissioning is done by one phone, not multiple phones.

#### Note

Make sure that all Multisensors are in range and powered during commissioning.

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## 7 Configure devices

Configure devices refers to configuring the radar sensor parameters for motion detection and the photocell.

#### 7.1 Out-of-the-box configuration

Table 2 shows the Out-of-the-box configuration of the Outdoor Multisensor.

Application Firmware version	4.1	4.0 & 3.9	3.8	3.7
Operating mode	Photocell and motion	Photocell and motion	Photocell and motion	Photocell and motion
Motion				
Light-on level	100%	100%	100%	100%
Hold time	5 minutes	5 minutes	5 minutes	5 minutes
Background level	50%	50%	10%	10%
Cut off	Disabled	Disabled	5 minutes	5 minutes
Direction	Approaching	Approaching	Approaching	Approaching
Sensitivity	HIGH	34 dB	34 dB	34 dB
Fade time	No fade	No fade	No fade	No fade
Immunity	LOW	N/A	N/A	N/A
Photocell				
Hysteresis	50 lx	50 lx	50 lx	50 lx
Switching level	90 lx	90 lx	90 lx	90 lx

Table 2: Out-of-the-box configuration of an Outdoor Multisensor

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#### 7.2 Un-commissioned devices

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A factory-new Outdoor Multisensor is not part of any network and can be accessed and configured by any app user.

Tap **Configure devices** on the *Projects* tab to scan for *un-commissioned* or *project* Outdoor Multisensors in range.

#### Note

Outdoor Multisensors that are part of the active project appear in the scan list.

Tap **Access** to a Multisensor (○ = 'not connected', • 'connected').

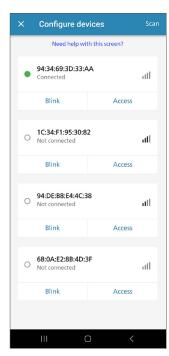


Figure 18: Configure devices

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#### 7.3 Commissioned devices

A commissioned Outdoor Multisensor is part of a network and can only be accessed by the phone used to create the network or by a phone that imported its network. Other users see this Multisensor as 'Already claimed'.

×	Configure dev	vices	
	Need help wit	th this screen?	
0	94:34:69:3D:33:A Not connected	A	all
0	<b>94:34:69:5D:9A:4</b> Not connected	12	at
	Blink	Access	
0	94:DE:B8:E4:4C:3 Not connected	8	all
	Blink	Access	
	(	> <	

Figure 19: Commissioned devices - "Already claimed"

Tap **Configure devices** in a project to scan for *active project* Outdoor Multisensors in range.

#### Note

Make sure that all Multisensors are in range and powered during commissioning.

#### Тар

- About this device to find information about this device
- Configuration
  - To configure Motion parameters
  - To configure Photocell parameters
  - Load, export or create a profile
  - Operating mode to change the operating mode to:
    - Photocell
    - Motion
    - Photocell & motion
- Firmware update to install new device firmware over-the-air
  - Application firmware update
  - Radio firmware update
- Disconnect device to disconnect from a Multisensor

F0:82:C0:F7:78:7A	
About this device	>
Configuration	>
Application Firmware	4.1 >
Radio Firmware	3.7 >
Disconnect device	
To view and manage the groups of this device Projects tab.	
III O	<

Figure 20: Menu when connected to a device via the App

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#### 7.4 Operating mode

Three operating modes can be selected via the mobile App.

<b>C</b> onfiguration		× Operating mode	
Operating mode Photocell & me	otion >	Photocell	(
Motion	>	Motion	(
Photocell	>	Photocell & motion	•
Apply profile			
Create profile			
III O <		III C	) <

Figure 21: Operating mode (Standalone)

#### 7.4.1 Photocell

The device controls the light using the daylight sensor only.

The light is turned on/off in case the switching level is crossed.

#### 7.4.2 Motion

The device controls the light using the motion sensor only.

The light is turned on to the Light-on level in case motion is detected.

#### 7.4.3 Photocell & motion

The device controls the light using the daylight and motion sensors.

The light turns on to the Light-on level if the switching level is crossed and motion is detected.

#### Note

In connected deployments, the Outdoor Multisensor photocell is disabled and applies the switching regime selected on the Interact City application.

< Conf	iguration	
Tilt and impa	ct	>
Motion		>
	Apply profile	
	Create profile	
111	Ο	<

Figure 22: Operating mode (Connected)

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#### 7.5 Configuration

#### 7.5.1 Motion

Tap Configuration, next Motion to change the motion parameters of the Multisensor. See figure 23.

Configuration		× Motion		< Advanced	
Operating mode Photocell &	motion >	Light-on level		Sensitivity	High (Default) 🔰
			80%	Direction	Approaching >
Motion	>	Hold time	05 min 00 sec	Immunity	High >
Photocell	>	The light will go to backgro	und level after 05 min 00 sec. Help	Fade time	No fade 🗲
Apply profile		Background level			
Create profile			50%		
		Cut off	Disabled >		
		Light will turn off after 0 ho	ur 0 min. <u>Help</u>		
		Advanced	>		
	/	111	$\cap$		$\circ$

Figure 23: Motion parameters (Standalone)

#### Light-on level

After the motion is detected, the luminaire fades to Light-on level, and the hold timer starts. If the motion is detected before the hold time has elapsed, the luminaire remains at the Light-on level.

#### Hold time

The Hold time determines how long the light remains at the *Light-on level* in case motion is not detected.

#### Note

If motion is detected and the light is at the Light-on level, the hold timer restarts.

#### Background level

When the light is at the Light-on level and motion is not detected, and the Hold time has elapsed, the luminaire fades down to the Background level.

#### B Note

The Background level shall always be lower than the Light-on level.

If the Background level is set to 0 or the Cut-off is set to Immediately, the luminaire switches off after the hold time.

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#### Cut-off

*Cut-off* determines how long the light remains at the Background level in case motion is not detected. That is, how long the lights will remain at the background level before turning off.

- If the *Cut-off* is set to **Disabled**, the luminaire will remain at the Background level when motion is not detected.
- If the *Cut-off* is set to **After a while**, the light will switch off after the *Cut-off* time.
- If the Cut-off is set to Immediately, the light will turn off.

#### Note

- If the *Background level* is set to 0% using the slider, then the *Cut-off* is automatically set to *Immediately*.
- If the Background level is a light level between 1% and 100% then the *Cut-off* remains on *Disabled* or *After a while* depending on what the user has selected.

Notice that the duration of the Background level is determined by the specified cut-off time.

#### Fade time

Fade time is used to set the fade time for all light transitions.

#### Note

- The fade time in connected basic is fixed to 0 seconds.
- The fade time in connected advance, can be set from Interact City UI, when the light on demand sensing modality is enabled.

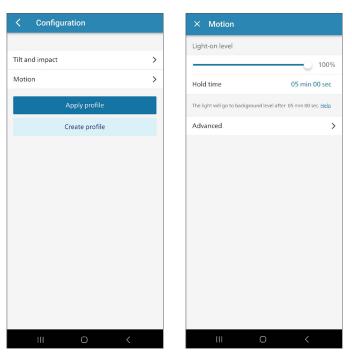


Figure 24: Motion parameters (Connected)

#### Sensitivity

The Sensitivity parameter is used to adjust the degree of response of the radar sensor to an incoming signal. Thus, adjusts the direct range of the motion sensor.

#### Note

#### The Sensitivity generally does not need to be changed.

The radar sensor Sensitivity parameter can be configured on the App for standalone and connected basic deployments and from Interact City applications for connected advance deployments when the Light on Demand sensing modality is enabled for that site.

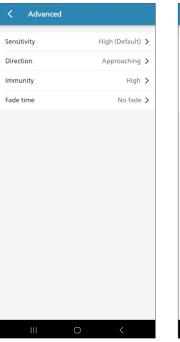
Access a device and tap on Configuration.

Tap **Motion**, and then tap on **Advanced**. *Direction* is an advanced radar parameter.

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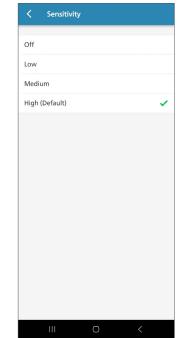


Figure 25: Motion – Sensitivity parameter

Four options are possible:

- OFF disables the motion detection.
- LOW helps to reduce the incoming signal of big objects in motion.
- MED helps to reduce the incoming signal, adjusting the range by approximately 45%.
- HIGH is the normal operation and default setting. This value generally does not need to be changed unless a specific application in the field requires it.

Refer to the Outdoor Multisensor application and commissioning for further reference.

#### Direction

Direction is used to set the behaviour with respect to the direction of a movement in the front of the motion sensor, see figure 26. Options are Approaching, Receding, and Any. When set to Any, the motion sensors react to both Approaching and Receding.





Receding

Figure 26: Direction motion detection

Access a device and tap on Configuration.

Tap **Motion**, and then tap on **Advanced**. *Direction* is an advanced radar parameter.

Sensitivity	High (Default)	>	pproaching
Direction	Approaching		eceding
mmunity	High		ny
Fade time	No fade	>	nly objects moving toward the sensor can be detected <u>Help</u>

Figure 27: Motion – Direction parameter

Refer to the Outdoor Multisensor application and commissioning for further reference.

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#### Immunity

The immunity parameter helps to minimize false motion triggers due to constant motion events in the environment, such as wind, rain, wind, insects or vibrations.

#### Access a device and tap on **Configuration**.

Tap **Motion**, and then tap on **Advanced**. *Immunity* is an advanced radar parameter.

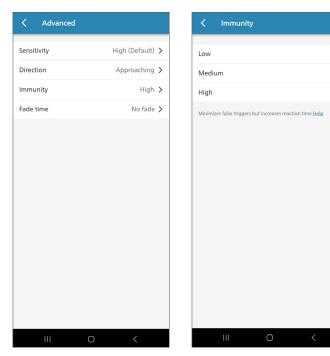


Figure 28: Motion - Immunity filter

On the Mobile App, you can choose between the three options:

- LOW Select this option when your application requires a short reaction time. Less immune to false triggers.
- MED A balance between reaction time and false trigger reduction.
- HIGH Minimizes false triggers but increases reaction time.

Refer to the Outdoor Multisensor application and commissioning for further reference.

#### 7.5.2 Photocell

The photocell is intended for standalone deployments with a continuous grid to avoid turning the lights on during the day.

Tap **Configuration** and then **Photocell** to change the photocell parameters of the Multisensor, see figure 29.

Hysteresis	
	50
Hysteresis prevents un response to transient	nnecessary luminaire on/off cycling in light conditions.
Switch-On level	
0	90
Switch-on level define luminaire.	es the lux threshold used to switch-on the
Switch-Off level	590
Switch-off level defin luminaire.	es the lux threshold used to switch-off the
Lux	4140
The lux levels are valie bottom of a luminaire	d when the Multi-sensor is installed at the e.

Figure 29: Photocell parameters

#### Switching level

In *Photocell* mode, the luminaire will turn on/off if the ambient light is lower/higher than the *Switching level*.

#### Hysteresis

*Hysteresis* prevents light cycling if the luminaire is turned on/off.

Since the Multisensor is mounted at the bottom of a luminaire, the photocell might see a part of the electrical light. *Hysteresis* creates a second switching level that needs to be crossed before the luminaire can be turned off/on again. The hysteresis value must be lower than the *Switching level*.

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#### 7.5.3 Profiles

When connected to a Multisensor, a profile can quickly apply a known configuration to an Outdoor Multisensor. Use the **Profiles** tab to create, modify or import a profile. See figure 29.

#### Тар

- New profile to create a profile
- Import to import a profile from another phone
- Profile name to select a profile
  - About this profile to rename or delete a profile
  - Motion to change the parameters in this profile
  - **Photocell** to change the parameters in this profile
  - Export to export a profile via email
  - **Duplicate** profile to create a profile copy which can be renamed and modified
- Sort to sort the profile list (name, date, etc.)

Projects		Edit
Project 1		>
ecundaria p	project	>
Project 3		>
Project 4		>
MyProject		>
SCEWC 2023		>
HTC48_4_0te	est	>
SSE Perth		>
	Scan devices New project	
	Import project	
Projects	Import project	More

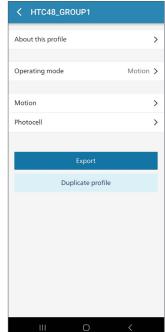


Figure 30: Profiles

#### G Note

- The default profile cannot be deleted, exported or duplicated.
- Profiles are not exported when you export a project. Use export profiles to export the profiles of your project.

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### 8 Firmware updates

The *Firmware update* is used to update the application firmware of the Multisensor.

- Outdoor Multisensor Standalone via the Mobile APP
- Outdoor Multisensor Connected Basic via the Mobile APP
- Outdoor Multisensor Connected Advance OTA to the OLC (Outdoor Luminaire Controller) and via DALI to the Multisensor, pushed by Interact City backend.

The Outdoor Multisensor hosts two firmware versions, one for the application and a second one for the local radio.

Application firmware version	Radio firmware version	Outdoor Multisensor SKU	
4.1	3.7	TBD	
4.0	3.7	108341209	
3.9	3.7	108341209	
3.8	3.6	108261532	
3.7	3.5	108309610	

Table 3: OMS firmware versions and SKUs

The radio firmware can be upgraded to version 3.7 after upgrading the application firmware to the latest version. The Mobile App is backwards compatible with all firmware versions.

#### Note

The latest firmware is embedded in the latest Mobile App version.

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### 9 More

The More tab is used to

- Logout
- About this App
- Delete account

In About this App, the user can find

- Privacy notice
- Terms and conditions
- Product security
- Open-source licenses

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# **10** App releases and system limitations

Philips Outdoor Multisensor App	Version 5.0.0	Version 4.0.1				
Projects						
Projects / App	10	10				
Groups / Project	200	200				
Sensors / Project	512	512				
Profile						
Operating mode part of the profile	No	No				
Apply profile to a group	Yes	No				
Rename Multisensor in a project	No	No				
Firmware						
Embedded firmware in the App	Yes	Yes				
Update a group of Multisensors	No	No				
Miscellaneous						
Multisensor name displayed in scan list	No	No				
Motion speed filter (bicycles, cars, pedestrians)	No	No				
Immunity filter	Yes	No				
SNB enablement	Yes	Yes				

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# **11** Known issues with specific phones

#### 11.1 Huawei mobile phones

Reported by Huawei and from the field by OMS mobile application users.

#### Issue reported by OMS mobile App users

OMS firmware updates takes longer than expected.

#### Reported by Huawei

Poor connection when using the Wi-Fi and the Bluetooth at the same time.

- **Cause**: When using the Wi-Fi and the Bluetooth at the same time, the phone can fail to connect to the wireless network, the network speed can be too slow or you may experience audio issues during a Bluetooth call.
- **Reasons**: This is due to the fact that both the Wi-Fi and the Bluetooth modules of your HUAWEI phone share the same 2.4 GHz frequency band and they interfere with each other when enabled at the same time.
- **Solution**: For the OMS commissioning when using a Huawei phone, ensure that the Wi-Fi is disabled. Only enable the Bluetooth.
- See https://consumer.huawei.com/uk/support/content/ en-gb00423553/

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