



Activity
Connecting with intelligence

Clean desk solution



QUICK STARTER GUIDE

REVISION 1.0
DECEMBER 2021

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1. INTRODUCTION

To maintain a healthy and organized life at work, a clean desk is a must, especially during a pandemic.

This **Clean desk solution**, powered by Strips & WMW, is an ideal to keep your workspace clean or notify the right people when it's not.

This tutorial provides you with the key steps to complete to get started with this solution.

- Step 1: Connect ThingPark Community to WMW application (section 3)
- Step 2: Activate your device on ThingPark Community (section 3.2)
- Step3 : Deploy your device.

2. WHAT DO YOU NEED TO GET STARTED ?

In order to complete this tutorial, you will need at least :

- The “Clean Desk Evaluation Kit” available on [ThingPark Market](#). This kit contains the required HW and SW parts to implement the solution:
 - 1 x Strips presence and its switch
 - 1x three-month access to the light version of WMW-HUB application.
- A [ThingPark Community](#) account with an active LoRaWAN™ gateway. If you don't have a gateway, you can purchase one on [ThingPark Market](#), ready to be activated on ThingPark Community.

3. CONNECT THINGPARK COMMUNITY TO WMW APPLICATION

Your ThingPark Community application are accessible through the following URL:

<https://community.thingpark.io/>

Once you log in, you should see a screen displaying the number of base stations and devices you've connected on this account as well as their status. No device or base station should be connected for now.

3.1 CREATE AN APPLICATION IN THINGPARK

Select “Application > Create” on the list on the left to create your WMW application, it is mandatory in order to send the device's messages to WMW; select the “https://” option.



CREATING AN APPLICATION IN 2 STEPS

Select an Application Type*

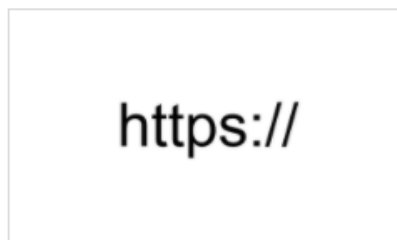
To route your devices uplinks and downlinks, select a type of application: either generic or hosted on an IoT platform for which you have an account.

Generic Application Azure IoT Hub IBM Watson IoT

Amazon AWS IoT MQTT ThingWorx

A few fields are to be filled in order to complete this operation:

- **Name:** Name of your application displayed in ThingPark Community
- **URL:** you **MUST** enter the following URL: <https://demo.api.wmw-hub.com/lora/store>
- **Content Type:** **DON'T CHANGE IT**
- **Additional information:** can be filled with useful information such as the device location.



Generic Application

Enables bidirectional messages between a device and an HTTPS application server.

[Change application type?](#)

Set Your Application*

Enter the values corresponding to your generic application parameters.

Name*

URL*

Content Type*

Tunnel Interface Authentication Key*

Additional Information

Now that you have set up the connection on the ThingPark side, we need to do the same on WMW side. Copy on a note the Tunnel Interface Authentication Key that you find above when you are creating the WMW application.

Click on "Create" to finish the creation of this side of the connection and go in your list of application. There, you will have to also copy the ID of your connector on your side note.



Activity					
Connections					
Dashboard	CONNECTIONS				
Base Stations	https://	TpxDev connector	TWA_100002164.1105.AS	26	...
Devices	https://	Vertical M2M	TWA_100002164.1120.AS	5	...
Connections	https://	Mydevices	TWA_100002164.1132.AS	3	...
List	https://	ADA IoT platform	TWA_100002164.1228.AS	6	...
Create	https://	WMW	TWA_100002164.1267.AS	6	...
Manage	TPX	Opinum Datahub	TWA_100002164.1462.AS	3	...
	https://	Favendo Commander	TWA_100002164.2089.AS	1	...

Let's input those information in WMW : log in your account and on the top right, select the "Details" tab, if you scroll down a bit, you will find the "Connection" section.

A few fields are to be filled in this section in order to complete this operation:

- **Network:** You **MUST** choose "Thingpark dx-api with extra authentication + uplink security"
- **AS ID:** Paste the ID you copied earlier (it begins with TWA).
- **AS key:** Paste the key you copied when you were creating the connection of ThingPark side.
- **Tunnel interface domain:** Paste the domain your connector is on without the https:// part.

Don't forget to turn on the "use uplink security" option.

Connectivity Input the info required for WMW to send downlink messages to your devices

Network
 Thingpark tunnel interface + uplink security

AS ID *
 TWA_100002164.1267.AS

AS key

Tunnel interface domain (ex. iot.thingpark.com) *
 community.thingpark.io

Use uplink security
 yes

3.2 CREATE A DEVICE IN THINGPARK

Now that you have your application, you can add your device on ThingPark too. Go to "Device > Create" on the list on the left, if Sensative is in the list of the device manufacturers, select it, if it's not, select "View more manufacturers".



Provide information about your device to create and register it in your IoT network.

Select Your Device Manufacturer*

 Generic	 Abeeway	 Elsys
 Adeunis	 Sensing Labs	 View More Manufacturers

Once again, you will have to fill field to create your device:

- **Model:** Choose a Multi-Sensor that correspond to your region (AS923 correspond to Asia, AU is for Australia, ETSI is for Europe and FCC is for the United-States).
- **Name:** The name your device will have in ThingPark Community.
- **DevEUI, AppEUI and AppKey:** Codes you should have received with your device.

Select the application you created for WMW; it should have a green dot showing that it's working well.

Leave the mode to "No location" and click on "Save" finalize the operation.

Activity

Devices Search

Dashboard	<p>Sensitive IoT solution provider Change manufacturer?</p> <p>Enter Your Device Information*</p> <p>Model* ⓘ <input type="text" value="Strips Multi-sensor us915"/> <input type="text" value="Strips Multi-sensor eu868"/> <input type="text" value="Strips PRESENCE"/> ✓</p> <p>DevEUI* ⓘ <input type="text" value="70-B3-D5-2C-10-01-AC-6A"/> ✓</p> <p>Activation mode* ⓘ <input type="text" value="Over-the-Air Activation (OTAA) with local Join Server"/></p> <p>JoinEUI (AppEUI) ⓘ <input type="text" value="70-B8-E5-2C-20-51-86-A0"/> ✓</p> <p>AppKey* ⓘ <input type="text" value="00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00"/></p>
Base Stations	
Devices	
List	
Create	
Import	
Drivers	
Connections	
Alarms	
Manage	
Settings	



4. STARTING UP YOUR DEVICE

To start up the device you need to follow the magnet procedure indicated on the following page: [strips manual](#). You just need to hold one of the magnets that is fixed on the device next to the round part of the device three times; you should see the LEDs blink in green indicating that it is working.

To configure your device, you can use the [lora config tool](#) that Strips developed for their devices. Once you have generated your payload, you can create a downlink to your device by clicking on the arrow on the top right of your device page on the ThingPark user interface.

The screenshot shows the 'Strips Presence' device configuration page in the ThingPark interface. The left sidebar contains navigation options: Dashboard, Base Stations, Devices (selected), List, Strips Presence, Create, Import, Drivers, Connections, Alarms, Manage, and Settings. The main content area is divided into 'INFORMATION' and 'STATUS' sections.

INFORMATION:

- Name: Strips Presence
- Tags: (empty field)
- Manufacturer: Sensitive
- Model: Strips Multi-sensor
- DevAddr: 05-C1-CD-0F
- DevEUI: 70-B3-D5-2C-00-01-AC-6E
- Activation mode: Over-the-Air Activation (OTAA) with local Join Server

STATUS:

- Connection: ACTIVE CLASS A
- Power Source: Battery 100%
- Last Uplink: Today - 09:44:54
- Last Downlink: Today - 09:44:55
- Packets for the last 24 hours: 10
- Roaming: OFF

CONNECTIONS:

- TpxDev connector
- WMW
- TPX MQTT

5. LOGIN TO WMW

Using the credentials you received through email, you can access to WMW-Light on the following URL:

<https://demo.wmw-hub.com/en/login>

Since you already have provisioned your device on ThingPark Community, the main step that should be left will be to add the device on WMW. Click on “Asset” then “Disinfect Desk management” and then “Dashboard”. An empty page should appear since you have no device added yet. Click on the big green + to add an asset for your device.

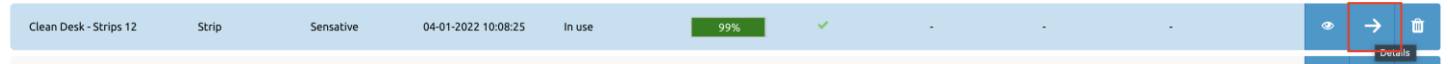
The screenshot shows the WMW-Light user interface. The top navigation bar includes: WMW, Locations, Users, Overview, Asset, Alarms, and My details. The 'Disinfect Desk management' section is active, showing a dropdown menu with the following options: Dashboard, Event/alarm notifications, Maintenance, Types, Groups, and Setup. A large green '+' button is visible in the bottom right corner of the interface.



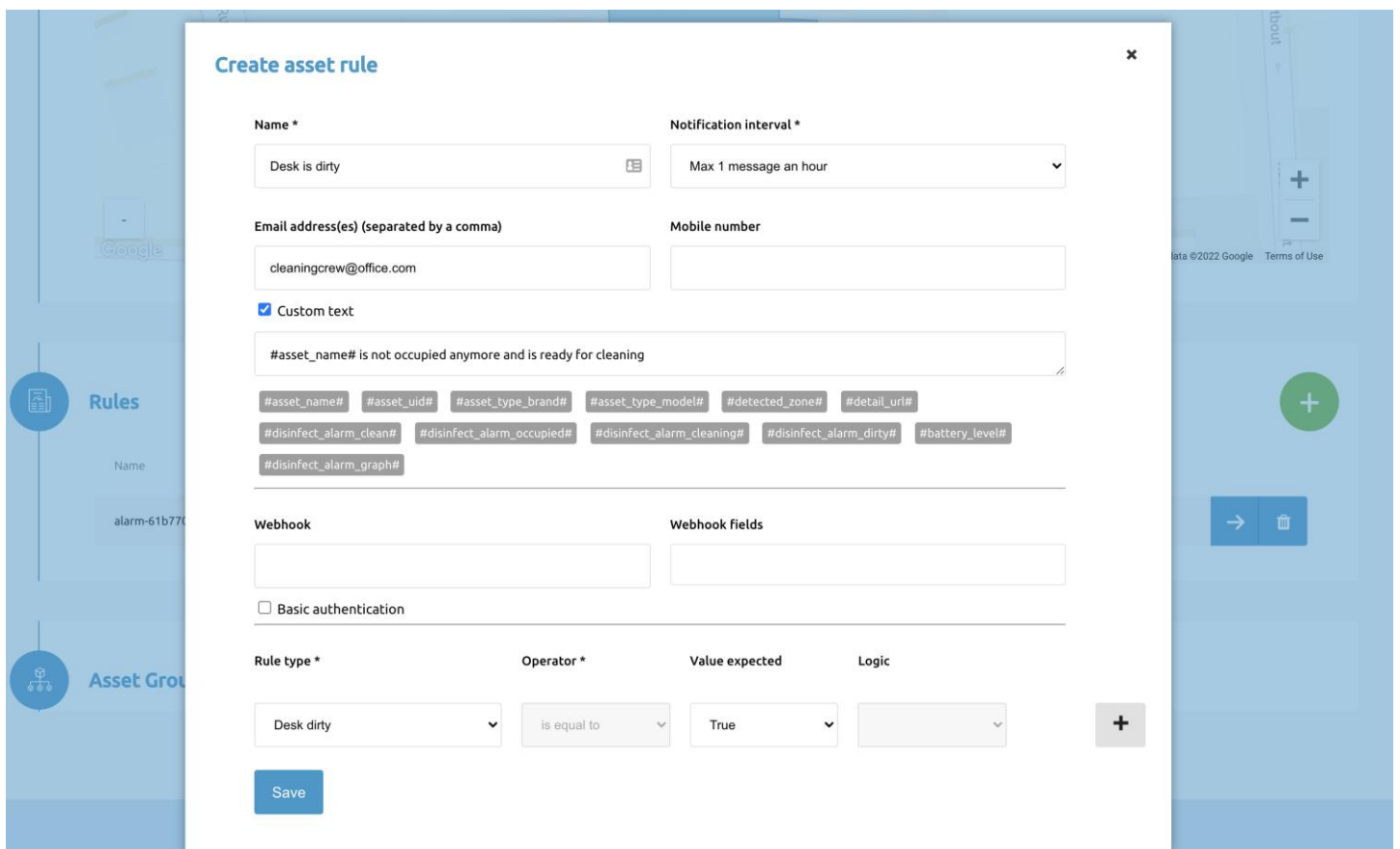
Give your asset a name and enter the device DevEUI in the field “Unique device identifier”. You must select or create an asset type in order to create your asset; once you are done, click on “Save” and your asset, with device should appear on the dashboard.

You can pick its position if it does not return it by itself, and if everything goes well, the information of your device should appear as the payloads are transmitted.

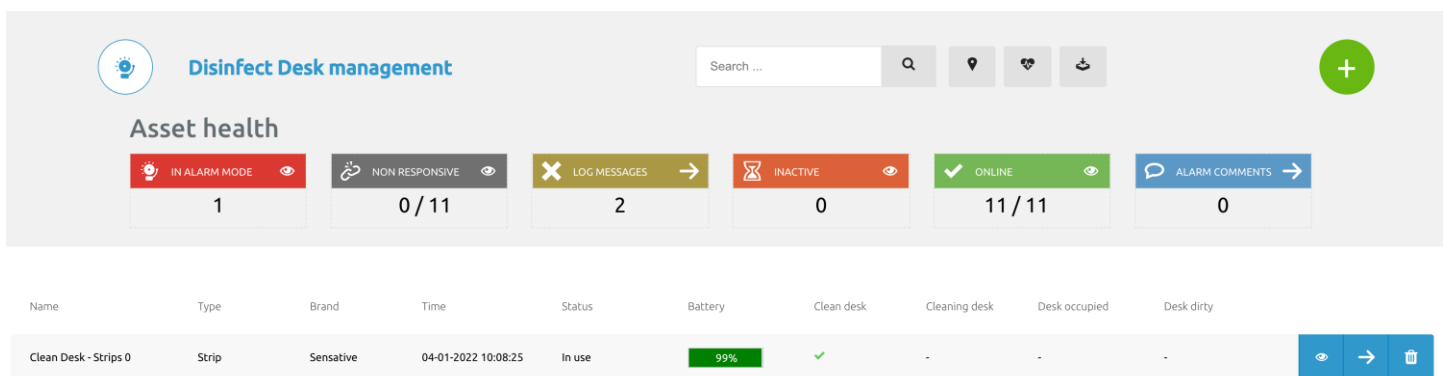
If you want to add alarms to your device, return to the dashboard page and click on the arrow next to the asset.



Click on the small pen in the top right corner to edit your device, scroll down to find the “Rule” section, and click on the big green +. There you can add and edit your alarms to send emails or create webhooks depending on the measures your device transmits.



You will find the information displayed by the device on the dashboard of the corresponding application.





And if you want more extensive information, click on the arrow at the end of the line of the asset, this will bring you to the “Asset Details’ where you’ll be able to view more information.

Within the Asset Details you will first find a picture – if uploaded upon asset creation, the latest message received and the current location of the device (manually selected upon adding the asset, if a location has been created)

Asset Details

Clean Desk - Strips 0

Brand	Sensitive	Type	Strip
Status	In use	Date of first use	30-11-2021
Maintenance schedule	Never	Next maintenance date	-
External reference	-		

Time
04-01-2022 10:08:25

Battery
99%

Clean desk
✓

Cleaning desk
-

Desk occupied
-

Desk dirty
-

Current location

WMW Map WMW Simple Map Hybrid

Map showing a floor plan with a location pin.

Below you can view historical messages received in a list with a date picker where you can select your range, and a historical graph of the states for that range – please note graph is not final and is subject to change.



✉

Status messages

⏪

29-12-2021 0:00 To 04-01-2022 23:59

⏩

📄

Time	Battery	Clean desk	Cleaning desk	Desk occupied	Desk dirty
04-01-2022 10:08:25	-	-	-	-	-
03-01-2022 10:08:30	99%	✓	-	-	-
03-01-2022 10:06:22	99%	-	✓	-	-
03-01-2022 09:44:58	-	-	-	-	-
02-01-2022 09:45:03	-	-	-	-	-
01-01-2022 09:45:08	-	-	-	-	-
31-12-2021 09:45:09	-	-	-	-	-
30-12-2021 09:45:14	-	-	-	-	-
29-12-2021 09:45:24	-	-	-	-	-

Desk disinfect state

All results
▼

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