

1. Introduction

This document is dedicated to the **ADS-260**, a Sigfox end node that is designed for IoT telemetry applications. It is a battery powered device that can also power sensors. The unit incorporates a Radiocrafts RC1682-SIG (EU/CE) or RC1692HP-SIG (USA FCC /AU/NZ/LATIN AMERICA) Sigfox module that features a unique device ID and PAC code.

In order to realize a Sigfox telemetry system in the context of this document there are some prerequisites,

- PC or laptop with MS Windows
- Internet access
- Recent web browser (Edge, Chrome, Firefox, Safari)
- A valid Sigfox account to the Sigfox Backend and a registered device to the backend.

A valid Sigfox account to the Sigfox Backend and a registered device to the backend is needed. The Sigfox backend is used to manage transmitted data and to configure means to relay data to a front end.

This document describes in brief how to,

- use the Sigfox backend system
- connect devices to Infinite's cloud platform the WaT (web aided telemetry)
- use Losant as a front end system

2. Sigfox Backend

The devices must be registered to the Sigfox backend in order to communicate through the Sigfox Network. The Sigfox backend, allows users to manage devices and view the data they transmit.

In brief we show below as a reference the basic steps that must be taken in the Sigfox Backend.

After having an account created log in to the backend. https://backend.sigfox.com/

If you have already taken the steps below please omit them and continue with the next ones.

Create Device Type

A Device type is a group of devices. It allows to gather devices and define common means to process the data they transmit.

Device type notion:

- Set of devices with the same behavior
- Linked to a single order (same subscription levels and duration)
- Belongs to a unique group
- Callback availability to retrieve messages

Y sigfox	DEVICE DEVICE TYPE	USER GROUP			≜A0® ↔
LIST	Device type - List	_			New
DEVICES BEING REGISTERED					
GEOLOCATION PAYLOAD	Name			Group	Select a group
	Include sub groups			Display type	v
			0		P P RESET FILTER
	Count:1/1				0
			page 1		4
		Des	ription Display type Group	Keep alive Name	

- 1. Click on New button in Device type tab.
- 2. Select a group.



,	Select a group			ж
Include sub gr			Search	
	CORP_SD_Support	,		RESET

3. Enter device type information.

Device type name	Device type - New Device type Information Neme	
Enable/disable Subscription automatic renewal for all devices		ve configuration Select a contract
Direct => Downlink data sent by the backend Callback => Downlink data sent through callback	Contract Contract ServiceDesk (9 tokens left, geoloc yes) v if we fail to call one of your callbacks, an email will be sent Alert email	Email address configured for callback failure
Downlink data sent in DIRECT mode	Downfilm data Dennifilm mode DIFECT Expression must either include hexadecimal encoded bytes (ex Downfilm data in hexa [tagafd0000(pssd] O	a a a a a a a a a a a a a a a a a a a
	Peykead tilsglay Display cu Select below the most withit parshig mode for Peyload persing [Regular (raw payload) ~]	stomization (Data decoding)

Manage Devices

A device has a unique Identifier called Device ID. It is also related to another unique number called PAC (Porting Authorization Code). The PAC proves the ownership of a device (ownership title) and only the current device owner knows it.

The ID-PAC couple is mandatory for device registration or transfer. As soon as the device is registered or transferred, the PAC will change (one-time only code).

Device - List	New News	series Edit series Transfer series	Replace series Delete series
Id	Ly Aver	age SNR (all)	50 dB
State All	* Last see	en from date	
Count : 1 / 1	•		RESET FILTER
Average Rssi Average SNR (page 1	Id 🔷 Last seen 🔷 Name 着	Token state



Select a way to register/manage devices

- 1. New : register devices one by one
- 2. New series : register batch of devices
- 3. Edit series : edit device information
- 4. Transfer series : move devices from device types (same or different contract)
- 5. Replace series : replace a broken device by a new
- 6. Delete series : batch of devices deletion
- 1. If New has been chosen
 - Select a group to register the device.

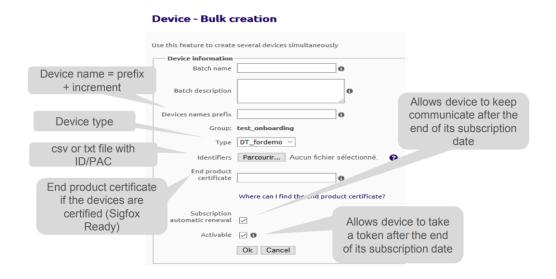
Device -	Liet	New Newseries E	dit series Transfe
Device			
	Select a group		×
		Search	
	CORP_SD_Support		0

• Enter device information.

	Device - New		
	Device information		Device ID
PAC Device location for			End product certificate if the device is certified (Sigfox Ready)
static devices		Where can I find the end product certificate	
	Type Lat (-90° to +90°)	Keyapp ETSI V	Select a Device Type
	Lng (-180° to +180°) Map	0.0 Locate on map Ok Cancel	(*) PAC and product certificate are provided by the device reseller

2. If New series has been chosen





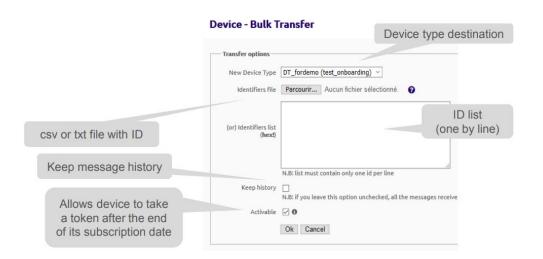
3. If Edit series has been chosen.

- 4. If Transfer series has been chosen
 - Select the destination group.

Device -	List	New Newser	ies Edit series Trans
	Select a group		ж
		Search	
	CORP_SD_Support		
Count:1/1			

• Enter transfer information.





5. If Replace series has been chosen

Device - Bulk replacement

Use this feature to transf	er information from several devices to others simultaneously	
Devices	Browse ?	
	Ok Cancel	
	csv or txt file with old o	dev

csv or txt file with old devices (faulty or stolen for instance) and new devices

6. If Delete series has been chosen

elete options Identifiers file Choisir un fi	chier Aucun fichier choisi	
Format of the file to choose		
The format of the file has to be J per line : one device identifier (h		
Example file :	csv or txt file with identifier only	(hex) to be
0017B46C 0017B46D	deleted	
0017B46E 0017B470 0017B470 0017B471 0017B472 0017B473		
(or) Identifiers list (hexl)	OR en	ter the list of devices you want to delete in this field
N B' list must	contain only one id per line	
N.D. USC HIGSC		



Check device messages

1. Go to Device tab.



2. Select a device by clicking on the ID.

Communication status	Device type	Id 🗘	Last seen	÷	Name	Token state
•	TestSD	77FFF	2019-02-20 12	2:54:33	00077FFF	

3. Go to the message tab.



4. Send a message and check that the message has been received by the backend.

0	9 30
	0

Callbacks

The Sigfox Cloud can automatically forward some events using Callback services. Callback services send custom request named "Callback" containing your device(s) data, along with other variables, to a given server/platform.

Depending on callback service a callback is triggered by a specific event occurring on Sigfox Cloud.



Sigfox Cloud provides 2 main categories of Callbacks services:

- Data and Service Callback services triggered by a network event (device message or device communication behavior). Those callback services are configured at device type level.
- Event Callback service triggered by an event on the device's entity (its lifecycle, communication status, and subscription) and configured at group level

The available Callbacks services are listed below. All Callbacks services are optional, so subscribe to those that are most relevant for the experience you are trying to create. Multiple callbacks for the same service is allowed, but Sigfox might restrict this possibility in case of abuse.



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Callback	service	Description	Trigger
DATA	Uplink	Send Uplink Message Received event	Reception of the first frame
	BIDIR	Send uplink Message Received and return downlink message	
SERVICE	STATUS	Send device battery and temperature information received for modules allowing Out-Of-Band status messages.	
	ACKNOWLEDGE	Send the network acknowledgment confirming the downlink message emission.	
	REPEATER	service messages (battery, number of repeated messages,) only applicable for repeater devices.	
	DATA ADVANCED	 Send Uplink Message Received with enriched data: Connectivity Metadata (Link Quality Indicator and country of sending) Geolocation Metadata (Latitude, Longitude, radius, and source - Contract option required) Network Metadata (Base station Id, RSSI per duplicates - contract option required) 	25 seconds after Reception of the first frame
	ERROR	Send an alert when a device does not comply with the keepalive delay set at device type level.	DeviceType Setting
EVENT	Device events	Send alerts that are triggered upon event occurrence	Event base

You can configure a callback service to forward events directly to your servers using either Custom callbacks, or callbacks for one of the 4 platforms integrated with Sigfox's backend.



Custom callback creation

The configuration of callbacks is done in the device type page for Data, Service, and Error callback service. With following procedure

- 1. Click on the Device type tab.
- 2. Click on the name of the device type that you want to create your callback for.
- 3. Click on Callbacks on the left-hand side menu.
- 4. Click on the New button, located on the upper-right part of the screen.
- 5. Choose Custom Callback.
- 6. Set your Custom Callback.

M sigfox	DEVICE DEVICE TYPE USER GROUP BILLING	40 🗭
INFORMATION	Device type Callback new	
LOCATION		
ASSOCIATED DEVICES	Callbacks	
DEVICES BEING REGISTERED	Channel URL V	
STATISTICS	Custom payload config	0
EVENT CONFIGURATION	comg	U
CALLBACKS	URL syntax: http://host/path?id=(device)&time={time}&key1={var1}&key2={var2} Available variables: device, time, data, seqNumber, deviceTypeId Custom variables:	
BULK OPERATIONS	Uri pattern	
	Use HTTP Method GET	
	Send SNI 🧹 (Server Name Indication) for SSL/TLS connections	
	Headers header value	
	Ok Cancel	

Callback type

Callbacks can be of three types: Data, Service, and Error.



Callback type		Description
	UPLINK	Send uplink messages to a customer platform.
DATA	BIDIR	Send uplink messages to a customer platform and waits for a downlink message from the same platform.
	STATUS	To retrieve device battery and temperature information provided by service messages (e.g. keep- alive messages).
	ACKNOWLEDGE	To retrieve the network acknowledgement, confirming the downlink message transmission.
SERVICE	DATA_ADVANCED	To retrieve optional data, such as geolocation, as well as metadata information. The list of available variables is displayed on the backend upon creation. Some variables are computed over the different base stations which received the messages. This callback is therefore delayed by approximately 30s.
	ERROR	In case of communication failure, it informs on whether it is a device issue (based on the keep- alive value defined in the device edition page) or a network issue
	EVENT	To be alerted upon device event occurrence. This can be configured at the Group, Device Type or Device level.

Data callbacks are the most immediate use of Callbacks when approaching Sigfox data retrieval. You can create an uplink or a bidirectional callback:

- UPLINK: Used to deliver uplink messages to a customer platform.
- BIDIR: Same as the UPLINK type and includes a downlink payload processing.

Channel

Choose communication means.

URL: to push the data to a single URL destination.

- BATCH_URL: This option pushes the data transmitted by devices within a 1 second time period.
- EMAIL: to get the callback data in your email address.

Custom payload configuration

This option allows the user to decode the payload in distinct, simple variables within the Backend GUI.

Note that the custom payload has only a few available types and cannot distinguish different frames format types: all frames will be split the same way.

For more information, please click on the question mark icon in the Backend GUI callback creation page.



URL pattern

Define the HTTP request to be pushed to your server, including available variables. An example is displayed in the GUI.

Displaying a specific port is supported for the URL channel, as follows:

 Add variable as path parameter : https://my_server_address.com:port_number/{variable}/path

• Add variable as request parameter :

https://my_server_address.com:port_number/path?var={variable}

HTTP method

Three HTTP methods can be used:

- GET
- POST
- PUT

SSL/TLS configuration

It is highly recommended to enable the Server Name Indication (SNI) to specify the target domain at the beginning of the SSL/TLS handshake process. As this option is transparent if TLS is not used (regular HTTP URLs), you should let this option checked unless very specific cases.

SNI

Note that the SNI option is enabled by default when a callback is created.

Navigate to <u>https://support.sigfox.com/docs/</u> for more detailed instructions.



3. Configuring the ADS-260 unit

The ADS-260 needs to be configured with the,

- Unique ID per device
- One property title for each one: PAC (Porting Authorization Code)

The way to enter the unit setup mode is the following:

- 1. Install the USB driver on a PC.
- 2. Connect the USB port to a PC. The Status LED is lighting for 2 sec.
- 3. Put a Jumper on JMP1. The Status LED starts blinking, indicating setup mode. Program execution is suspended.

There are two ways to program the unit:

- Connecting the unit to a PC and using a terminal program to pass the ASCII commands to the unit, according to the scheme: "Command, Parameters <CR>". The terminal settings should be: Baud rate: 115200 bps, Data bits: 8, Parity: none, Stop bits: 1, Flow control: none.
- 2. Connecting the unit to a PC and using the WA Manager software. This is the most convenient way. The Device ID, which is necessary for connecting the unit to the Sigfox network, is automatically read during downloading the parameter file to the device. The Device ID is also printed on a label in the device interior.

nfiguration	14 of 38		بے 🔇 ?
eral Analog	Inputs Counters SDI-12	MODBUS Data Transmission	
ti,	S/N 240	Type ADS-260	Firmware Version 2.6
Device Iden	tification		
Device nam	ne ADS-260		
Device ID	001C9176		PAC 6883768E3DB85984
Comments			EXPORT
Comments TEST UNIT			EXPORT



For sensor configuration, transmission rates, battery life and all the functions of the ADS-260 please consult the device manual.

Removing the Jumper at JMP1 will exit the configuration mode and set the device in operation mode.

4. Configuring an ADS-260 with Infinite's cloud applications.

Infinite offers a variety of cloud applications to manage and visualise device data. These include

• The WaT (web aided telemetry platform). Accessible at

www.cloud-telemetry.com

• The WaT Eye (live weather data dashboard). Accessible at

http://91.138.204.120:14616/

• The WaT smart applications for IOs and Android phones and tablets.

The only perquisite for an ADS-260 to be recognized automatically by the above applications is to configure at the device parameters, at the Descr field, the Device ID.



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	Alarm Events Alarm Messages	Alarm AC	- 1	Autonomous lew horizons in off-grid tr Leam mu File Archives TCF	ore.	Up to 10 years maintenance-free operation infinite
		Alarm AC	CK Status GPS	File Archives TCF		
cipienta (I Weath	ler.		Accines Dilling	Log Out (sgal)
	r aan maaady a	Heath	ici .			App Store Google
Parameters	Alarming Map Cha	rt Digita	Analog Output Counte	ers SDI RS-485		
t Save C	Jancel					
				Other		
	507		Version			
ne	ADS-260 SIG1		UID			
icr			SID			
one Number	000F4xxxxxx		Verbose Response			
e	ADS-26x	~	Merge Alarms			
int	Infinite LTD	~	Avail SMS Alarm Limit			
	· Anti-					
tus	 Inactive 					
w In Tree	O No		Retry Delay (Sec)			
			Status Msg Period (Min)			
			Status Idle Time			
Format						
eck GSM						
aracter Set			Last Alarm Value Check			
		-	L.	ogging		
nments						
	t Save C me ne kur one Number re e tus wu in Tree	Kane Main 507 507 ne ADS-260 Sto11 cr 00074xxxxxx met ADS-262 sto11 one Number 00074xxxxxx e ADS-262 sto11 ntt Infinite LTD tury Active win Tree No Databal Databal			Main Other 507 Version 507 Version cor 500 cor 500 e ADS-260 SIG1 UID e ADS-260 Version e ADS-262 Version e ADS-262 Version infinite_ITD Version Merge Alarms e Active SMG Counter Preset infinite_ITD Version Retries w in Tree Vers Retry cleay (Sec) No Status Sidi Time Petal Famat Format Petal	Main Other 507 Version 607 Viro ne ADS-250 501 UiD one Number 000F4xxxxx Verbose Response e ADS-25x Merge Alarms ent Infinite LTD Avail SMS Alarm Linit a Active SMS Counter Preset uin Tree Vers No Status May Period (Merg) Format Detail

5. Losant Enterprise IoT platform

An example integration to a 3rd party cloud platform will be given to demonstrate the capabilities of the ADS-260 Sigfox unit. For this demonstration the Losant platform was chosen.

Losant is an easy to use, modern, and powerful Enterprise IoT platform designed to allow rapid build of real time connected solutions.

It is an application enablement platform which allows enterprises to effectively build applications that securely scale to millions of devices. With real-time stream processing and batch processing capabilities, users can create dynamic experiences and perform complex analytics.

5.1 Create Application

A free user account with Losant is required. An account can be created at <u>www.losant.com</u>

After creating an account, the user will be prompted to create an application. Select "Add Application" to create a new application.



ly Sandbox		Add Application
	WELCOME TO YOUR SANDBOX This is your personal development sandbox. It is a fully functional environment that allows you to learn and experiment with the Losant platform at no cost.	
	New to Losant? We recommend following the UDSANT WALKTHROUGH C	
	Ready to go? Start building now.	
	Experience Losant in action. SCHEDULE A DEMO	

Select the "Blank Application" template.

	•	. 101	•	
			175,3	<u>ri</u>
Blank Application	Asset Tracker Monitors real-time geolocati shock for multiple asset trac			Monitor valiability and historical corporate huddle rooms.
	anoce for multiple asset the	-	occupancy data for c	
-		4.9		-

Provide a name and an optional description for the application and then select "Create Application".



Application Name	
e.g. My Great Application	
Description	
e.g. My new application description	
	,

5.2 Create Webhook for Sigfox Callback

The easiest way to communicate between Sigfox and other services is to use a callback. Callbacks allow Sigfox to send any information reported by a device to another service using a webhook.

Select "Webhook" from the Application Menu.

Sigfox_test from Hy Sandbox	Webhook > New Webhook
Q, Search (no+t)	NEW WEBHOOK
	After you create your new webhook, you will be assigned a unique URL for making your requests.
Overview	Webhook Name
▲ Events	e.g. My Great Webbook
VICES	
 Devices 	VERIFICATION
	Some webhook providers require the endpoint to be verified. Losant will automatically respond to
Device Recipes	verification requests for the following providers. If you are attempting to use a webhook provider that requires verification and is not listed below, please let us know.
TA DURCES	🖲 No Verification 🔿 Alexa 🔿 Facebook Messenger 🔿 Fitbit 🔿 Twillo
🗄 Data Tables	a second s
, Webhooks	Ventication Code Template
f Integrations	e.g. [[globafs.webhnok/verify]]
TA VIBUALIZATION	Response Code
E Dashboards	200
) Data Explorer	
] Notebooks	BASIC AUTH
THE VORVELOV ENDINE	You can optionally choose to require basic auth for requests against this webhook.
S- Workflows	Basic Auth Usemanne Template
I Custom Nodes	e.g. [[globals.username]]
mana	Basic Auth Password Template
) Overview	e.g. [[globals.password]]]
6 Edit	
15 Users & Groups	CUSTOM REPLIES ()
") Files	You can optionally choose to configure this webhook to wait for a reply from a workflow. When checked, this means that when a request is made against this webhook, the request will wait for a Webhook: Reply node
Domains & Slugs	to be executed in a workflow for the particular request, and that reply will be returned. If no workflow
⁷ Versions	provides a reply within 30 seconds, the request will be timed out.
	Wait for reply from workflow
TT2H05	
 Application Info 	
API Tokens	Create Webhook Cancel
Charles Accelerate	

Name the Webhook and press the "Create Webhook" button. . After that a URL will



appear.

Copy this URL.

sigfox_test from My Sandbox	Webhooks >		URL: https://triggers.losant.com/webhooks/Pase7kagh_ODraw_bTRg2v6k8k9yw0tR2y9jLjHH Cop
Q Search (-c+L)	Settings Test Workflows		
Overview			
▲ Events		EDITWEBHOOK	
NewICES		Webhook Name	
Devices			
OC: Access Keys		VERIFICATION	
Device Recipes		Some webhook providers require the endpoint to be verified. Losant will automatically resp	
GATA SOURCES		verification requests for the following providers. The verification code is templatable from y Globals. If you are attempting to use a webhook provider that requires verification and is no	
Data Tables		please let us know.	
🙏 Webhooks		No Verification O Alexa O Facebook Messenger O Fitbit O Twilio	
Integrations		Verification Code Template	
IATA VISUALIZATION		e.g. [[globals.webhookVerify]]	
Dashboards		Response Code	
Data Explorer		200	
Notebooks			
TEUR, VOHPLOV ENDINE		BASIC AUTH	
S. Workflows		You can optionally choose to require basic auth for requests against this webbook. These fire	elds are
Custom Nodes		templatable from your Application Globals.	
D-PERID-CE		Basis Auth Username Templaty	
© Overview		e.g. [[globals.username]]	
√ Edit		Sault Auth Papennel Template	
III. Users & Groups		e.g. [[gidbals.password]]	
Ties			
		custon KEPLIES (C)	
Domains & Slugs		You can optionally choose to configure this webhook to wait for a reply from a workflow. Wh	hen checked, this
P Versions		means that when a request is made against this webhook, the request will wait for a Webho to be executed in a workflow for the particular request, and that reply will be returned. If no	
E712x04		provides a reply within 30 seconds, the request will be timed out.	a mur kalom
 Application info 			
API Tokens		Wait for reply from workflow	
Data Archive			
Globals		Save Webbook Cancel Dele	te Webhook
Import / Export			

Navigate to Sigfox backend and select "Callbacks" from the Device Type Menu. Click on "New" button and select "Custom Callback".

Y sigfox	DEVICE DEVICE TYPE USER GROUP BILLING	۲
INFORMATION	Device type Here and the Callback	
LOCATION ASSOCIATED DEVICES	Create callbacks to connect Sigfox cloud to your server/platform. A callback is a custom http request containing your device(s) data, along with other variables, sent to a given server/platform when the aforesaid device(s) message is received b	
DEVICES BEING REGISTERED	Кабинали в а созын посртеднея соловнику учал чемсеру цара, вкогд имп ослет чанашер, зенс со в умен зе verplactorin иmен сле в олезако чемсеру неззадетя тесенео и Sigfox cloud.	y
EVENT CONFIGURATION	Custom callback Creates a new callback from Sigfox cloud to your own server. This is the "default" callback type.	
CALLBACKS BULK OPERATIONS	You can create a full custom request (http method, content type, headers, etc).	
DULK OF CRAITORS	AWS IoT AWS IoT is a managed cloud platform that lets connected devices easily and securely interact with cloud applications and other devices. AWS IoT can support billions of devices and trillions of messages, and can process and route those messages to AWS endpoints and to other devices reliably and securely.	
	AWS Kinesis	

Fill the "Url pattern" gap with the URL that you copied before and adjust all the settings as shown in the image below.



Y sigfox	DEVICE DEVICE TYPE USER GROUP BILLING	
INFORMATION	Device type	
LOCATION		
ASSOCIATED DEVICES	Callbacks	
DEVICES BEING REGISTERED	Channel URL V	
STATISTICS	Custom payload config	
EVENT CONFIGURATION		
CALLBACKS	URL syntax: http://host/path?id={device}&time={time}&key1={var1}&key2={var2} Available variables: _Custom variables:	
BULK OPERATIONS	Url pattern https://triggers.losant.com/webhooks/4brJqcWA0Jo1SSu0E8MxPGngWUp-x1GB8_n	
	Use HTTP Method POST 🗸	
	Send SNI 🛛 (Server Name Indication) for SSL/TLS connections	
	Headers header value	
	Content type application/json	
	Body { "device" : "{device}", "time" : "{time}", "data" : "{data}", "seqNumber" : "{seqNumber}" }	

After that, click on "Ok" to save the callback.

5.3 Add the Device

Back to Losant, a device must be created to represent your Sigfox device. Select "Add Device" from the Application Overview page.

Test Ny Tanàna	Test D					
Q_ Search (n+t)	No opplication description pravided.			fait.	Application Log	a Gear
😁 Overvies	Search your application				No logs yet. Listening	
🛆 Events	DEVICES +	DAGHEGAROS	VOHIFLOVE			
Energy Devices fig: Access keys fig: Device Recipes Intro Exectly Device Technics Access to the technics Access to the technics Access to the technics Access to the technics	No Derifers Services represent the large in your application. Add Services	No Dashboards Buckbards shake the data in you application. And flashboard	En Workfows No Workfows Nachburs with the full power of post of Add Barchburs	pikalie.		
Integrations Integrations Integrations Integrations Integrations Integrations Integrations Integrations	Application README This is your application's README, written in Markdown. Feed multiple developers collaborating on a single applications, a p					
Notebooks	Application Overview Page					
∬- Workflows	Application Description: This should be a one- or two-sent about the application. Application Search: This search box can be used to quickly Recent Resources: These bits, which are under the search you were necently working on.	ence description of this application. This README is when find and navigate to any number of resources in this app	lication			

When creating the device, select "Standalone" as the Device Class.



Test from My Sandbax	Devices > New Device					
Q. Search (=+L)	Choose a type for your new device.					
Overview Cvocs Devices Cvocs Cvocs Cvocs Devices Devices Cvocss Cvocss Devices Devices Devices Devices Devices Dev	Choose which class of device you would like to create. While in m Standalone devices are ti of device within Losant. state. Through either an REST API or application or or may not represent a pi Choose Standalone ->	The most common type they report their own MGIT connection, the ordfores. They may hysical device.	be changed after creation, you site of the second s	Tty to Losant. They e commands on their	our needs for this device now and Bedge Compute Edge Compute devices ca without an internet com represent more powerful that can run an operating Limux. Choose Edge Compute	n run Edge Workflows ection. They typically hardware, devices ; system such as
A Webhooks integrations integrations its visue, IZATION Coshboards D Data Explorer Notebooks ISUA, volvor.inv (Notion)		commands through a		System Systems are a special of one operational unit. Aggregation of raw data devices. Choose System	evices that make up	

A device must be configured.

- 1. Name the device anything you want.
- 2. Add a tag named "sigfox_ID" that holds the Sigfox ID of your device. This will be used later to look up the appropriate device based on incoming data from the Sigfox callback.
- 3. Add an attribute for each piece of data being pushed by the Sigfox callback.
- 4. Add custom attributes for each piece of data encoded in your device's data property. This data will be decoded in a later step and will be saved on more usable fields.

Keys may only contain uppe	rcase letters, lowercase letters, numbers, undersco	res (_) or hypnens (-).
sigfox_id	F4DDB	
Key	Value	
sigfox_id	F4DE9	
Key	Value	



he following attributes are currently configured for this device. These attributes can l	he deleted and
ptionally recreated, but know that doing so will delete all data associated with the a	ttribute.
	Expand Al
An device	×
An data	Ŧ
An time	Ŧ
Ae channel	
Aa sign	т
An seqNumber	т
∧∞ di	т
An temperature1	
Aa temperature2	

5.4 Workflow

Workflows help describe the logic for applications.

5.4.1 Create a Workflow

To create a workflow, select "Workflows" from the Application Menu. Then, select "Add Workflow."



Test from Ry Sendbox	Workflows O			Add Work
Search (-c=i.)	Workflows allow you to define the intell	igence behind your application.		
Dvervlew Events	Workflows provide a way to build complex business Compute devices and provide a seamless way to inte	logic using a drag-and-drop interface. Application Workflows can be tri grate data from local sources with your cloud application. Experience	iggered by a number of incoming messages and offer a wide range of data and thi Workflows handle requests to your Experience Endpoints, and are versioned with	ind-parity service integrations. Edge Workflows are deployed to Edge 3 the application Experience.
evices	APPLICATION WORKFLOWS ©			
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sian		2	THE REPORT OF A DESCRIPTION OF A DESCRIP	

Name the workflow and press the "Create Workflow" button.

	pusiness logic behind all parts of your IoT solution. This can include processing da , interfacing with your local equipment, or even backing your entire custom user
Workflow Name	
e.g. My Great Workfl	ow
Description	
Create Workflow	Cancel

After creation the workflow canvas is enabled.

5.4.2 Add a Webhook

Add a Webhook trigger node and a Debug node to verify that you are receiving information from Sigfox.

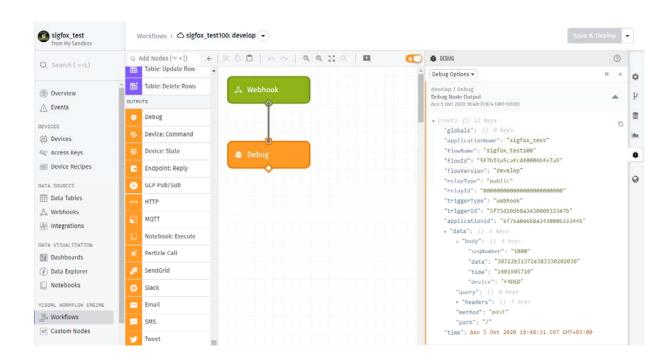


r ~ Q Q 🚼 Q 🖽 💭	Д WEBHOOK 📀
🛆 Webhook	The Webhook Trigger kicks off a workflow whenever a specific Losant web endpoint is hit.
	Label
· · · · · · · · · · · · · · · · · · ·	Webhook
	Add Description
	EXAMPLE PAYLOAD
	 ← (root) {} 10 keys
	"applicationId": "5f75a0e6b8a3430006333445"
	"applicationName": "sigfox_test"
	- "data": {} 5 keys
	"path": "/example/path"
	"method": "post"
	<pre>> "headers": {} 4 keys</pre>
	▶ "query": {} 1 key
	▶ "body": {} 2 keys
	"flowId": "5f7b2907b8a34300063339cf"
	"flowName": "fgdfgdg"
	СНООЅЕ НООК
	Select which of your application's webhooks you would like to trigger this workflow. If you need to create a new webhook, you can do so here.
	Webhook Name
	Sigfox_test 🗸
	https://triggers.losant.com/webhooks/4br/qcWA0Jo1SSu0E8MxPGngWUp-x1GB8_nlgs8t Copy

Select the webhook you created earlier from the dropdown. If it's the only one, it will be selected automatically.

After deploying this workflow, you should see the data that Sigfox is sending show up in the Debug tab (bottom-right corner).





There will be a lot of information on the payload, but what we care about will look something like the following:

```
"data" : {
    "body" : {
        "device" : "...",
        "time" : "...",
        "data" : "...",
        "seqNumber" : "...",
     }
}
```

This is what Losant calls the "payload". Workflows act on the payload as it flows through nodes. In the payload above, the Sigfox ID of this device is located on the data.body.device property.

The next thing we need to do is parse your specific data, which is located on the data.body.data property. What is in this field is entirely controlled by the users and what the Sigfox device reports. All of the other fields (device, time, seqNumber) are all sent by Sigfox itself.

Since this data could be anything, a Function node is needed to decode it.



5.4.3 Add a Function node

sigfox_test from My Sandbox	Workflows + 🛆 sigfox_te	est100: develop 🔹		Save &	Deploy	÷
Q. Search (mil)		- n a a a 11 a 🖂	Σ reaction O	0 06906	0	
	SAML: Login URL		The Function Node allows you to write normal Javascript code that manipulates the payload.	Debug Options +	H X	10
(1) Overview	SAML: Verify	A Webhook	Label	develop / Debug Debug Node Output Acu 5 Okr 2020 17/17/02227 GMT+03/00	- 1	P
A Events	Ly User: Create	I	Function	+ (rest) () 12 kgs		
SR Devices	2) User: Get		Note IDI Apliek.WY1	"globals": // # https "applicationname": "sigfox_test"	0	
G: Access Keys	🛫 User: Update		Add Description	"flowName": "sigfox_test100"		
de Device Recipes	2: User: Delete	Σ Function	CODE	"flowId": "5f7b23aScafc4f0006bf67aS" "flowVersion": "develop"		
DATA DOURCES	LIGIE		The payload will be accessible in the payload variable. If you return at any point with a value, that value is used as the new payload as the workflow continues	"relayType": "public" "relayId": "possessessessessessesses		9
🔲 Data Tables	array		executing, if you do not return a value, or you do not return at all, the value of the payload variable is used as the new payload, carrying forward any changes or	"triggerType": "webhook"		
人 Webhooks 研 integrations	Conditional		mutations.	"trigger1d": "5f75d20db8a343000633347b" "applicationId": "5f75a0e0b8a3430006333445"		
	CSV: Decode	O Debug	Function (awatering) (view Example) function hex_to_ascii(strl)	 "data": () & Reys "body": () & Reys 		
DATA VISUALIZATION	CSV: Encode		("query": () = keys		
(i) Data Explorer	O Date/Time		<pre>var hex = str1.toString(); var str = ``;</pre>	* "beaders": () # beys "method": "post"		
Notebooks	11 Delay		<pre>for (var n = 0; n < hex.length; n += 2) { str += String.fromCharCode(parseInt(hex.substr(n, 2), 1</pre>	"path": "/" "time": Asu 5 Oct 2020 17:17:07.000 GMT+03:00	e - 1	
VISUAL WORKFLOW ENGINE	E Function		return str;	develop / Debug	_	
3. Workflows	Generate ID		3	Debug Node Output Au 5 Oct 200 105:35.347 GMT-0100	× 1	
Entropy Custom Nodes	Geofence		enert stadan = "Classined date hads datel" enl(t/**):	develop / Debug		
EXPERIENCE () Overview	🔒 Hash			Debug Node Output dau 5 Okt 2020 17:05:07:209 GHT-03:00		
 Overview Edit 	+ HTML/XML Parser		Delete Node	develop / Debug		
ANN Users & Groups	D ISON: Decode			Debug Node Output Anii 5 Ori: 2020 12:00:31:524 GMT+03:00	÷	
🗁 Files	JSON: Encode		•	develop / Debug Debug Node Output		

In this example the data string is encoded as shown in the image below.

 30
 32
 2b
 36
 33
 2e
 39
 39
 38
 20
 20
 30

 Channel
 Sign
 Sensor Data
 DI

The code that has been used to decode it is the following.

```
function hex_to_ascii(str1)
 {
    var hex = str1.toString();
    var str = '';
    for (var n = 0; n < hex.length; n += 2) {
        str += String.fromCharCode(parseInt(hex.substr(n, 2), 16));
    }
    return str;
 }
const strArr = `${payload.data.body.data}`.split("");
var s={};
var i, i_length=12;
var a=[];
var temp={};
for (i=0; i<i_length; i++){</pre>
    a[i]=strArr[2*i]+strArr[2*i+1];
}
temp= a[0]+a[1];
s.channel = hex_to_ascii(temp);
s.sign = hex_to_ascii(a[2]);
temp= a[3]+a[4]+a[5]+a[6]+a[7]+a[8]+a[9]+a[10];
```

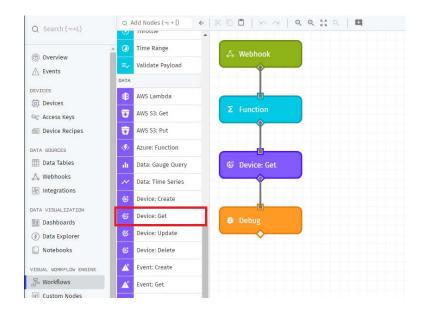


```
temp = hex_to_ascii(temp);
s.value = temp.replace(/\x20/g, "");
s.di = hex_to_ascii(a[11]);
if (s.sign === "-"){
    s.value *= (-1);
}
if (payload.data.body.device === "F4DDB"){
    payload.data.body.temperature1 = s.value;
}
if (payload.data.body.device === "F4DE9" ) {
    payload.data.body.temperature2 = s.value;
}
payload.data.body.channel = s.channel;
payload.data.body.di = s.di;
payload.data.body.sign = s.sign;
```

This function is decoding the channel, sign, temperature/humidity and the DI and putting the values back on the payload, next to all of the other fields at data.body.channel, data.body.sign, data.body.temperature/humidity and data.body.di.

5.4.4 Add a Get Device node

The next step is to look up the device based on the Sigfox ID, by using the Get Device node.



Select "Device: Get" node from the menu and adjust all the settings as shown below.



the Device. Cet Node activity of	
ne Device: Get Node retrieves on	e or more devices from your application.
Label	
Device: Get	
Node ID: FrqINAsmn8	
Add Description	
	QUERY METHOD
Find one or more devices by choo below.	ising a query method and entering search parameters
Find by	
Match Any Tags Query	
	CONFIGURATION
	h any tags. If a key is set without a value, any device th value will be returned. (And vice-versa for values set es are templatable.
Key Template	Value Template
sigfox_id	= {{data.body.device}}
Key Template	Value Template
	=
may also configure which results t	RESULTS CONFIGURATION evices if more than one device matches your query. You to return from your query by manipulating the per page e and results page are templatable.
may also configure which results t	evices if more than one device matches your query. You to return from your query by manipulating the per page e and results page are templatable. Sort Direction
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may also configure which results f and sort options. Results per page Sort Field Name Return multiple devices? Specify the payload path at which a single device, the result will be a specified below, or null if no dev the result will depend on if you ar if you also want to know the last or request that some or all of the mo	evices if more than one device matches your query. You to return from your query by manipulating the per page e and results page are templatable. Sort Direction RESULT RESULT RESULT RESULT RESULT Result of your query will be stored. If returning onl an object containing the device at the payload path vice is found. If returning multiple devices, the format of re including metadata in the result.
may also configure which results f and sort options. Results per page Sort Field Name Return multiple devices? Specify the payload path at which a single device, the result will be a specified below, or null if no det the result will depend on if you ar If you also want to know the last or request that some or all of the mo- will be placed on the property co	evices if more than one device matches your query. You to return from your query by manipulating the per page e and results page are templatable. Sort Direction RESULT RESULT RESULT RESULT RESULT Result of your query will be stored. If returning onl an object containing the device at the payload path vice is found. If returning multiple devices, the format of re including metadata in the result.
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may also configure which results f and sort options. Results per page Sort Field Name Return multiple devices? Specify the payload path at which a single device, the result will be a specified below, or null if no det the result will depend on if you ar If you also want to know the last r request that some or all of the mo- will be placed on the property co You may also opt to return the de Composite State To Include Include no attributes Select at least one	evices if more than one device matches your query. You to return from your query by manipulating the per page e and results page are templatable. Sort Direction Ascending RESULT n the result of your query will be stored. If returning onl an object containing the device at the payload path vice is found. If returning multiple devices, the format of re including metadata in the result. reported value for attributes on the device, you can ost recent composite state be included on the device (if mpositeState). vice's tags as an object instead of as the standard array



5.4.5 Add a Device State node

The last thing is to use a Device State node to save this data onto the device.



Select "Device State" node from the menu and adjust the settings.

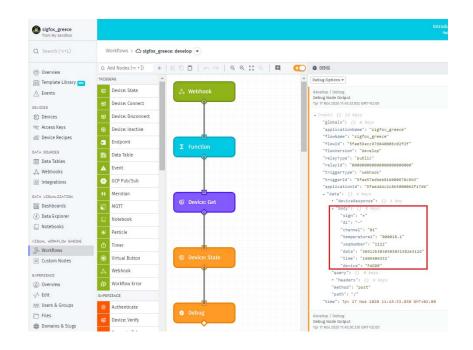
The Device: State Node allows	you to set the state of any device you've created.	
Label		
Device: State		
Node ID: vsTAVrUR1M		6
Add Description		
	DEVICE	
irst, choose a device whose s	tate we will set.	
 Select a specific device 		
Device ID		
Select one device		~
Use a Device ID specified on 1	the current payload	
Device ID JSON Path		
data.deviceResponse.id		
	STATE	
	d their values. Attributes that render to blank values will be ign	ored. You may reference
he state updates by payload p		ored. You may reference
the state updates by payload p Data Method	d their values. Attributes that render to blank values will be ign	iored. You may reference
he state updates by payload p	d their values. Attributes that render to blank values will be ign	oored. You may reference
the state updates by payload p Data Method Individual Fields	d their values. Attributes that render to blank values will be ign	ored. You may reference
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he state updates by payload j Data Method Individual Fields Attribute Attribute data	d their values. Attributes that render to blank values will be ign attr, ISON template or individual field input.	ored. You may reference
he state updates by payload j Data Method Individual Fields Attribute Attribute data	d their values. Attributes that render to blank values will be ign path, JSON template or individual field input.	ored. You may reference
he state updates by payload p bata Method Individual Fields Attribute channel data Attribute data device	d their values. Attributes that render to blank values will be ign path, JSON template or individual field input.	ored. You may reference
he state updates by payload j bata Mehod Individual Fields Attribute data Attribute device Attribute	d their values. Attributes that render to blank values will be ign ath, ISON template or individual field input. value [[data.body.channel]] value [[data.body.data]] value [[data.body.data]] value [[data.body.data]] value [[data.body.data]]	ored. You may reference
the state updates by payload plants webed Data webed Individual Fields Attribute channel data Attribute	d their values. Attributes that render to blank values will be ign path, JSON template or individual field input.	ored. You may reference
he state updates by payload j bota Method Individual Fields Attribute data attribute device datubute di	d their values. Attributes that render to blank values will be ign ath, ISON template or individual field input. Value [[data.body.channel]] Value [[data.body.data]] Value [[data.body.device]] Value	ored. You may reference
he state updates by payload j bota Method Individual Fields Attribute data attribute device datubute di	d their values. Attributes that render to blank values will be ign ath, JSON template or individual field input. Value [[data.body.channel]] Value [[data.body.data]] Value [[data.body.device]] Value [[data.body.di]]	ored. You may reference
the state updates by payload j bata Method Individual Fields Attribute data Attribute device di Attribute Attribute	d their values. Attributes that render to blank values will be ign path, ISON template or individual field input.	ored. You may reference



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temperature1	{{data.body.temperature1}}	
Attribute	Value	
time	{{data.body.time}}	
Attribute	Value	
temperature2	{{data.body.temperature2}}	
Attribute	Value	
e.g. sensorValue	e.g. {{data.foo}}	
payload is used, but can be chang Use the time of the current paylo		
Juse the time of the current paylo Use the time of the current paylo Use the current time Use the time at the specified pay Time Payload Path	t should be associated with this new state data. By default, the ed to either the current time or any time value on the payload ad	
 bayload is used, but can be chang Use the time of the current paylo Use the current time Use the time at the specified pay 	t should be associated with this new state data. By default, the ed to either the current time or any time value on the payload ad	
 ayload is used, but can be chang Use the time of the current paylo Use the current time Use the time at the specified pay Time Payload Path 	t should be associated with this new state data. By default, the ed to either the current time or any time value on the payload ad	
ayload is used, but can be chang but so the time of the current paylor current time current time current time current time the specified pay time Payload Path e.g. data.myTime Distributionally, you may store an obje	t should be associated with this new state data. By default, the ed to either the current time or any time value on the payload ad load path	
payload is used, but can be chang but so the time of the current paylo but so the time of the current paylo but so the time at the specified pay time Payload Path e.g. data.myTime Optionally, you may store an obje	t should be associated with this new state data. By default, the ed to either the current time or any time value on the payload ad load path	

After all this steps the workflow must look like the following image.



5.5 Create a Dashboard

A dashboard is made up of blocks. Each block offers a different way to present data. Create a new dashboard by selecting "Dashboards" from the application menu and then select "Add Dashboard".

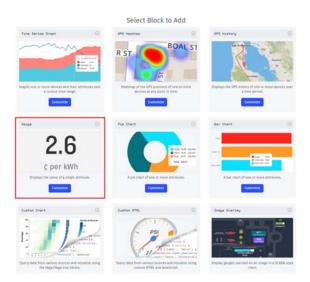


Est from Wy Sandbox	Dashboards ①		Add Deshboard
Q. Search (-s-i)	Titer		
Overview	Film Insults		0 itiems o
△ Events	Name 🕽		Public?
10.1288		No dashboards found.	
② Devices			
C Access Keys		Start visualizing your Things. ADD DASHEDARD	
dill Device Recipes			
DATA BOURCEN			
🔲 Data Tables			
A Webbooks			
E Integrations			
NUTA VIBALIATION			
E Dashboards			
(i) Data Explorer			
Notebooks			
VIDAN ADDRESS PRIDA			

Name the new dashboard and press "Create Dashboard" button.

	CREATE DASHBOARD
dashboard to get started.	graphs, events and devices across multiple applications. Name your
Dashboard Name	
e.g. My Great Dashboard	
Description	
Create Dashboard Cancel	

Select a block. For each block, you can configure what device state data to display within the block. For example select a Gauge Block.





	BLOCK OVERVIE	N	
	single attribute value aggregated e most recently received data. (\		
Block Header Text			
Temperature			
Block Description Text			
e.g. Monitors pressure a	nd temperature levels in Build	ling 8	
	DATA TYPE		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Choose whether you want th updated only with the rest o		me, or if the	data should be aggregated and/or
○ Live Stream			
	ring data from a single device per q	-	al data is not available. Block
will update auto	matically when new data is receive	d.	
Historical			
	ing data from multiple devices and	/or aggregati	ng points. Block will update
at the normal da	ishboard refresh rate.		
	DURATION		
Cauga blocks can aggregate	historical data or display the m	ost recently	received data. When displaying
	tion is aggregated together using		
	Duration		
	Last received data point		
	Last received data point		v
	BLOCK DATA		
or both. If the duration is se		oint and mo	a selection of devices, device tags, ore than one device is selected, the
or both. If the duration is se	lected as the most recent data p	oint and mo	
or both. If the duration is se aggregator is applied to the	lected as the most recent data p	oint and mo	
or both. If the duration is se aggregator is applied to the Device IDs / Tags	lected as the most recent data p	oint and mo	



				GAUGE S					
		ose your gauge type, o iber display rules.	optionally set a la			a default color a	nd set your		
		Gauge T	rmometer			~			
			monicer						
		Label				Color			
		-20			40				
		-20			40				
			play as percentag A value of 30 will di			max is 40.			
				NUMBER DISPL	LAY RULES				
	Prec	cision Type				Digits			
	S	ignificant Digits			~	4			
				DATA TRANSFO	RMATION				
	Opti	ionally, you may provi	de an expression	for transform	ing your raw data	before it appea	ars on the graph.		
		ression g. log({{value}})							
		following variables ar	e available for us	e within the e	woression-				
	val	ue - The raw data poi	nt's value.						
		e - Time of the data p . <variablename> - Va</variablename>							
	Ver			CONDITIONAL		e turning the s	record at		
	dan	may optionally chang gerous levels). The firs irn true , the default	st condition that r	eturns true					
	The	result returned from t centage as it relates to	the query is availa	able under th	e conditional vari	able {{value}}	, and value's		
	perc	entage as it relates to	o the denned min	and max is av	vallable under {{	percent}}.			
				Add Cond	lition				
		Save Block Can	cel Clone B	lock			Delete Block		
]						
sigfox_test	fgdfdgf							🕶 As of: Now 🗸 🙌 🛛	0 ¢
from My Sandbox								Add Block	1
Q Search (-e+L)	Temperature							Edit Settings	
Overview				40					
Events				1 - C				Generate Repor	t
EVICES				-20				Dark Theme	\bigcirc
賞: Devices								C Fullscreen	õ
Caress Keys			14	.2				. Dashbar d Contact	(11
Device Recipes			° (5 λεπτά πριν	> Dashboard Context	(Manage)
ATA SOURCES								No context define	Hd.
品 Webhooks								Add Context	
Integrations								<u></u>	
ATA VIBUALIZATION									
Dashboards									
(i) Data Explorer									

There is no limitation in the number of blocks that can be added.

The final dashboard of this project is the following.





5.6 Experiences

New application Experiences must first go through a short bootstrapping process before you starting to use the relative features.

5.6.1 Choose a Slug

	ience makes it easy to build cust ch experience includes custom us		
It will inc	way to get started is with an exa- clude an example user and a few by a workflow and rendered with	endpoints and views.	
To get st Experien	arted, give us your custom experi ice".	ence slug and click "C	reate My
Set your e	sperience slug		
https://	5e0e46c1a045a30006c4bd29	.onlosant.com	
This in	resources starter layouts and routes cludes everything you need to authent bootstrapping and build from scra to you to define your basic layouts, aut	atch	

By default, the application experience includes a slug that matches your application ID; this slug cannot be deleted. You can also enter a custom slug during the bootstrapping process.

Click on "Create My Experience".



5.6.2 Test your Experience

If you chose to create the sample resources, you'll receive instructions for testing your new endpoints and views.

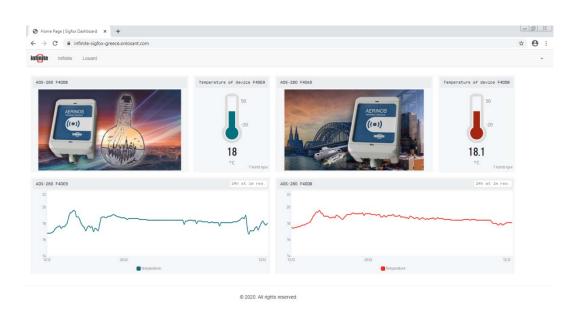
If you'd like to see a step-by-step guide for how to build this example, please if the Experience View Walkthrough. Visit your Experience at: https://5e0e3cb21e2d4c0006429c0c.on.losant.space/ Log in with these credentials:		me views, endpoints, workflows and users so you can test out ence. You may edit or delete these resources at any time.
https://5e0e3cb21e2d4c0006429c0c.on.losant.space/		
		Visit your Experience at:
Log in with these credentials:	https://	5e0e3cb21e2d4c0006429c0c.on.losant.space/
		Log in with these credentials:
Email: test.user.8bjjzomu87@example.com		Email: test.user.8bjjzomu87@example.com
Password: 8bjjzomu87		Password: 8bjjzomu87

Click the link provided on the summary screen, which should redirect you to your new login page.

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	Sign In	
	© 2020. All rights reserved.	

Sign in with the provided credentials and you will then see the placeholder home page. The page will look like that.





Try to log in to the page we created as an example for you to get a first impression of the result.

Navigate to,

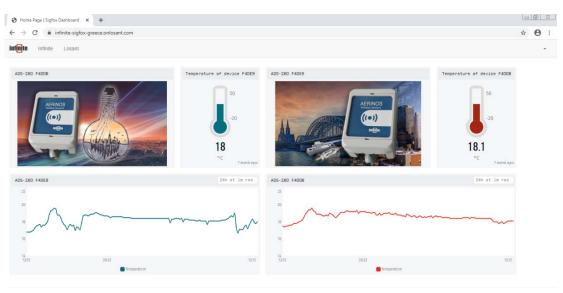
https://infinite-sigfox-greece.onlosant.com

To log in, type "guest@infinite.com" for the email address and "Infinite" for the password.

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	Email address	
	guest@infinite.com	
	Password	
	Sign In	
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When you successfully log in, you will see the below home page.





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Infinite Informatics, Ltd

1, Valaoritou Street GR-54626 Thessaloniki, Greece Phone: +30-2310-553545 E: info@indinf.gr W: www.infinite.com.gr

