



# **Wanesy Management Cockpit**

## ***Release note of version 4.6***

V1.0 – April 10th, 2024





## 1. New features

- a) Cellular information
- b) Gateway KPI – Backhaul consumption
- c) Gateway KPI – SF distribution
- d) Show & hide columns
- e) Enhanced user management
- f) Other features & improvements

## 2. Restrictions solved

## 3. Constraints and restrictions

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## 1. NEW FEATURES



- Adding **cellular information** in gateway overview:

- IMEI
- ICCID
- If a connection is established:
  - Attached Network (4G, 2G or LTE)
  - Signal strength (in percentage)
  - Mobile Country Code (MCC)
  - Mobile Network Code (MNC)
  - Access Point Name (APN)
  - Cell identifier
  - Location Area Code (LAC)

The screenshot displays the gateway overview interface with several panels. The 'General' panel shows the gateway is operational with EUI 7076FF0056050928, customer kpi-development, and public IP address 213.137.138.108. The 'Map' panel shows the gateway location with coordinates 48.152743, -1.5902576. The 'Health' panel shows CPU at 2%, RAM at 68%, and CPU temperature at 54°C. The 'Installed packages' panel lists basicstation, helium-gateway, kerlink-openvpn-secrets-pki2-56050928, and keros. The 'Cellular' panel (highlighted in red) shows IMEI 861536030196001, ICCID 8920801106543789301, and signal strength at 60%. The 'Gateway model' panel shows a Winnet iStation 868 MHz. A callout box with an exclamation mark states: 'The cellular information may take up to 48 hours to appear in the interface (corresponding to the delay of reporting by the gateway)'. A detailed view of the cellular information is shown in a separate panel (also highlighted in red) with the following data:

Field	Value
IMEI	861536030196001
ICCID	8920801106543789301
Attached network	4G
Signal strength	60 %
Mobile Country Code (MCC)	208
Mobile Network Code (MNC)	01
Access Point Name (APN)	orange
Cell identifier	518B
Location Area Code (LAC)	320F

- Adding **IMEI & ICCID** in gateways list, with filtering option:

Filter

Select status  Gateway EUI  Name  Description

Select backhaul  Select a group  **IMEI**  **ICCID**

Actions in progress

SEARCH

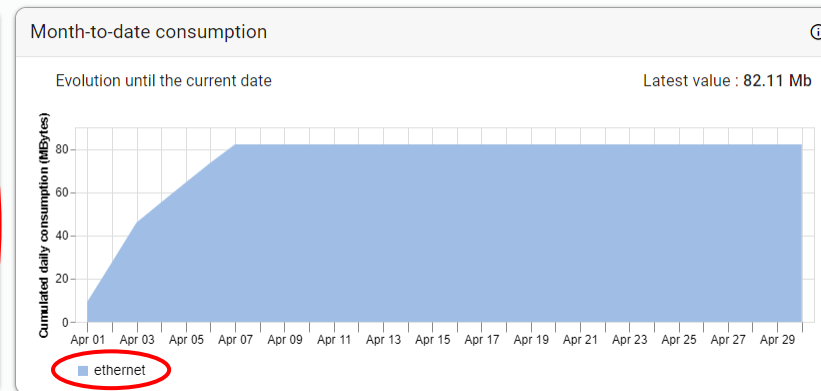
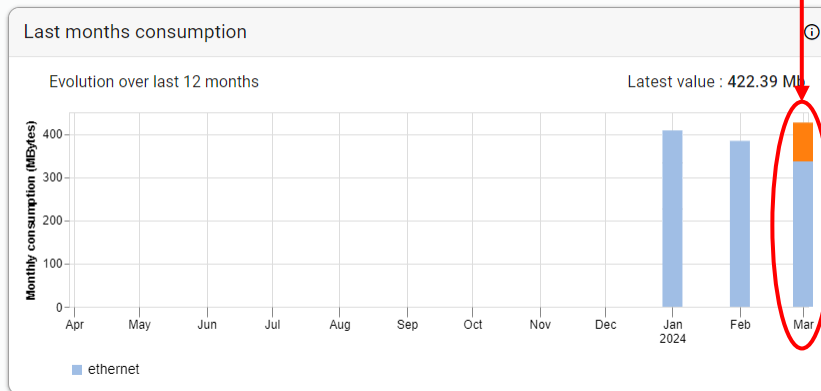
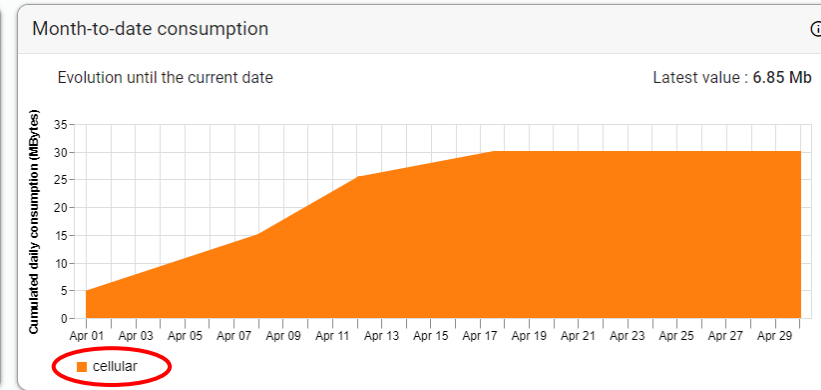
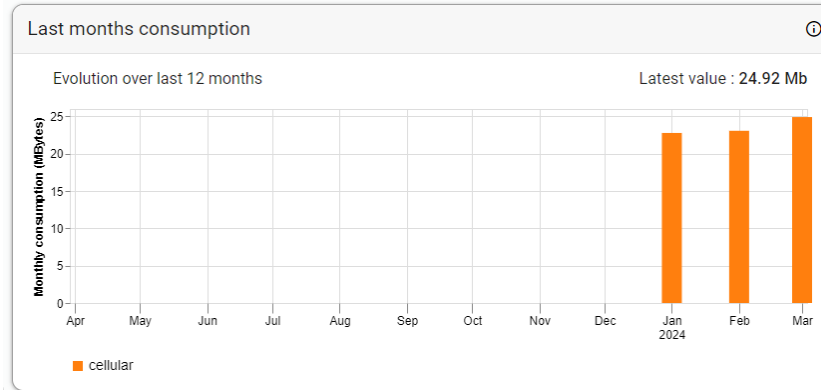
Gateways

Status ⓘ	Gateway EUI	Name	Description	Backhaul	IMEI	ICCID	Groups	Actions
OPERATIONAL	7076FF0056050928	7076FF0056050928	7076FF0056050928	Ethernet	867698041777544	-	kpi-group1-all	
OPERATIONAL	7076FF00640401C8	7076FF00640401C8	7076FF00640401C8	Ethernet	867698043514234	89331042150196769505	kpi-group1-all	
OPERATIONAL	7076FF007804003A	7076FF007804003A	7076FF007804003A	Ethernet	-	-	kpi-group1-all	
OPERATIONAL	7076FF007F030024	7076FF007F030024	7076FF007F030024	Cellular	359205102491810	89320420000008900217	kpi-group1-all	
UNKNOWN	7276FF00390405AF	7276FF00390405AF	7276FF00390405AF	-	-	-	kpi-group1-all	
UNREACHABLE	7276FF00440707A6	7276FF00440707A6	7276FF00440707A6	WiFi	-	-	kpi-group1-all	

Items per page: 25 1-6 of 6

# NEW FEATURES / Gateway KPIs – Backhaul consumption

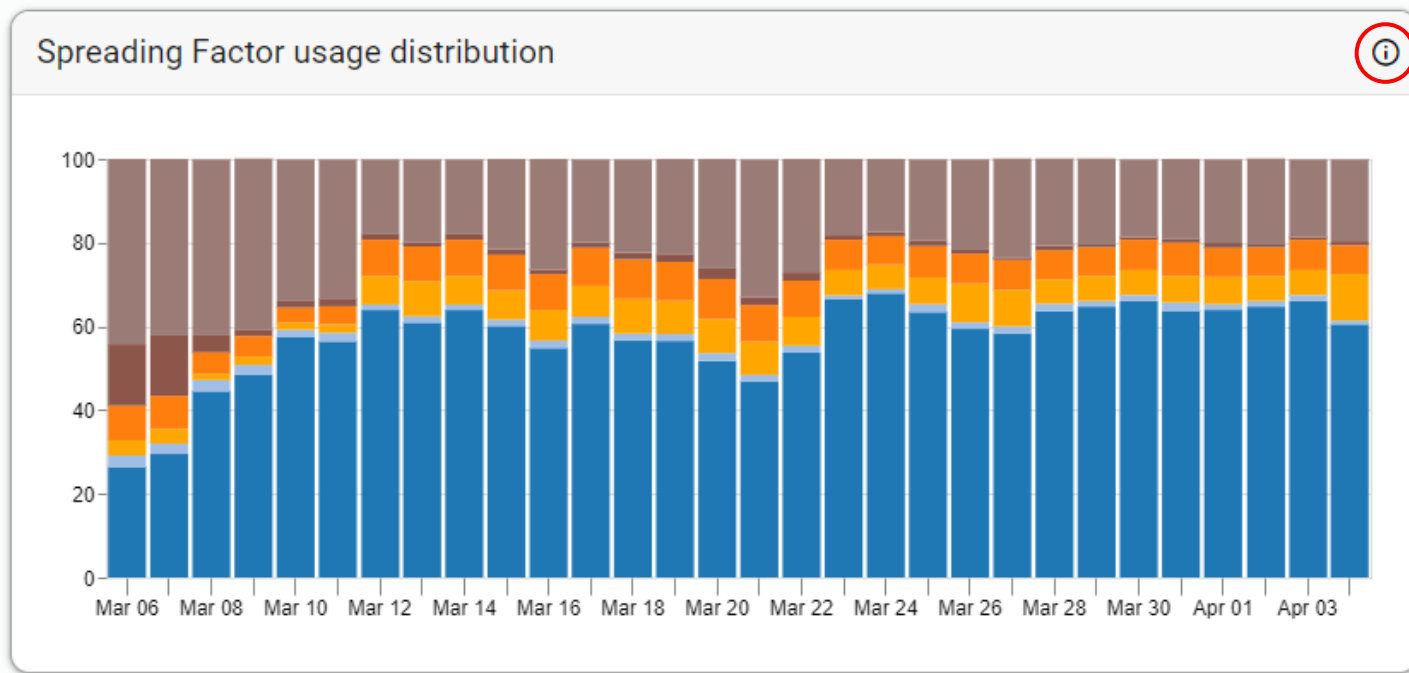
- New KPIs in [Backhaul KPI dashboard]:
  - Last 12 months consumption, in Mbytes per backhaul type
  - Month-to-date consumption, in Mbytes per backhaul type



! The backhaul consumption is based on information reported by the gateway, both downloaded and uploaded data are counted

! There is one specific color per backhaul (cellular, ethernet or wifi)  
If the gateway used different backhails over the month, the consumptions are summed

- New KPI in [LoRAWAN KPI dashboard]:
  - Spreading Factor usage distribution over the last 30 days



Spreading Factor usage distribution

This graph represents the distribution of the Spreading Factor (SF) used by the end-devices to communicate over the previous days.

- LoRa modulation has a total of 6 Spreading Factors from SF7 to SF12, which allow a trade-off between transmission rate, Time-On-Air, sensitivity range and battery life.
- Lower Spreading Factors ensure higher transmission rate and battery life, but lower sensitivity, Time-On-Air and range.
- Higher Spreading Factors increase sensitivity, Time-On-Air and range but result in longer active time for the radio transceivers and so shorter battery life for the end-devices.

Legend :

- SF 7
- SF 8
- SF 9
- SF 10
- SF 11
- SF 12

# NEW FEATURES / Show & hide columns

- Adding option to show/hide columns in gateways, groups, customers and users tables:

The image displays two screenshots of a 'Gateways' table interface. The top screenshot shows the table with columns: Status, Gateway EUI, Name, Description, Backhaul, Groups, and Actions. A 'Show / Hide columns' modal is open, with the 'IMEI' and 'ICCID' toggles turned off. The bottom screenshot shows the same table with 'IMEI' and 'ICCID' columns visible and highlighted by a red box. The modal is also shown with 'IMEI' and 'ICCID' toggles turned on. Red arrows indicate the interaction flow from the table's column menu icon to the modal and then to the specific column toggles.

Status	Gateway EUI	Name	Description	Backhaul	Groups	Actions
OPERATIONAL	7076FF0056050928	7076FF0056050928	7076FF0056050928	Ethernet	kpi-group1-all	[Edit] [Delete]
OPERATIONAL	7076FF00640401C8	7076FF00640401C8	7076FF00640401C8	Ethernet	kpi-group1-all	[Edit] [Delete]
OPERATIONAL	7076FF007804003A	7076FF007804003A	7076FF007804003A	Ethernet	kpi-group1-all	[Edit] [Delete]
OPERATIONAL	7076FF007F030024	7076FF007F030024	7076FF007F030024	Cellular	kpi-group1-all	[Edit] [Delete]
UNKNOWN	7276FF00390405AF	7276FF00390405AF	7276FF00390405AF	-	kpi-group1-all	[Edit] [Delete]
UNREACHABLE	7276FF00440707A6	7276FF00440707A6	7276FF00440707A6	WiFi	kpi-group1-all	[Edit] [Delete]

Status	Gateway EUI	Name	Description	Backhaul	IMEI	ICCID	Groups	Actions
OPERATIONAL	7076FF0056050928	7076FF0056050928	7076FF0056050928	Ethernet	867698041777544	-	kpi-group1-all	[Edit] [Delete]
OPERATIONAL	7076FF00640401C8	7076FF00640401C8	7076FF00640401C8	Ethernet	867698043514234	89331042150196769505	kpi-group1-all	[Edit] [Delete]
OPERATIONAL	7076FF007804003A	7076FF007804003A	7076FF007804003A	Ethernet	-	-	kpi-group1-all	[Edit] [Delete]
OPERATIONAL	7076FF007F030024	7076FF007F030024	7076FF007F030024	Cellular	359205102491810	8932042000008900217	kpi-group1-all	[Edit] [Delete]
UNKNOWN	7276FF00390405AF	7276FF00390405AF	7276FF00390405AF	-	-	-	kpi-group1-all	[Edit] [Delete]
UNREACHABLE	7276FF00440707A6	7276FF00440707A6	7276FF00440707A6	WiFi	-	-	kpi-group1-all	[Edit] [Delete]

- Configuration is saved all along the validity of the session



# NEW FEATURES / Enhanced user management

- Adding an option to enable/disable a user account:

Update user \* required

E-Mail


Select a customer \*  Select a role \*

[Current customers & roles](#)


Customer-PTA	SERVICE_ADMINISTRATOR
Customer-PTA	CUSTOMER_ADMINISTRATOR

**VALIDATE** **CANCEL**

**Active account**  Enabled

User 

E-mail:	<input type="text"/>						
Creation date:	2023-09-13 09:55:37						
Last update:	2023-11-02 16:03:10						
Status:	<b>CONFIRMED</b>						
Active account:	<input checked="" type="checkbox"/> Enabled						
Assigned roles:	<table><thead><tr><th>Customer</th><th>Role</th></tr></thead><tbody><tr><td>Customer-PTA</td><td>SERVICE_ADMINISTRATOR</td></tr><tr><td>Customer-PTA</td><td>CUSTOMER_ADMINISTRATOR</td></tr></tbody></table>	Customer	Role	Customer-PTA	SERVICE_ADMINISTRATOR	Customer-PTA	CUSTOMER_ADMINISTRATOR
Customer	Role						
Customer-PTA	SERVICE_ADMINISTRATOR						
Customer-PTA	CUSTOMER_ADMINISTRATOR						


User 

E-mail:	<input type="text"/>						
Creation date:	2023-09-13 09:55:37						
Last update:	2024-04-04 13:35:08						
Status:	<b>CONFIRMED</b>						
Active account:	<input type="checkbox"/> Disabled						
Assigned roles:	<table><thead><tr><th>Customer</th><th>Role</th></tr></thead><tbody><tr><td>Customer-PTA</td><td>SERVICE_ADMINISTRATOR</td></tr><tr><td>Customer-PTA</td><td>CUSTOMER_ADMINISTRATOR</td></tr></tbody></table>	Customer	Role	Customer-PTA	SERVICE_ADMINISTRATOR	Customer-PTA	CUSTOMER_ADMINISTRATOR
Customer	Role						
Customer-PTA	SERVICE_ADMINISTRATOR						
Customer-PTA	CUSTOMER_ADMINISTRATOR						

# NEW FEATURES / Enhanced user management

- Adding additional information on user in gateway overview and list:

- Creation and last update dates
- Status
- Active account (enabled/disabled)

User 

E-mail: example.mail@kerlink.com








Creation date: 2024-02-07 12:11:19


Last update: 2024-02-07 12:11:19

Status: **FORCE CHANGE PASSWORD** [RESEND ACTIVATION EMAIL](#)

Active account: ✔ Enabled

Assigned roles: Customer  
Role: PLATFORM\_ADMINISTRATOR

Users 							
E-mail	Creation date	Last update	Customer	Role	Status	Active account	Actions
	2023-09-13 09:55:37	2024-04-04 13:36:32	Customer-PTA Customer-PTA	SERVICE_ADMINISTRATOR CUSTOMER_ADMINISTRATOR	<b>CONFIRMED</b>	<span>✔</span>	 
	2024-03-28 15:04:38	2024-03-28 15:05:49	Customer-PTA	CHANNEL_ADMINISTRATOR	<b>CONFIRMED</b>	<span>✔</span>	 

Items per page: 25  |< < 1 > >|

- Main statuses are as follows:

- Account not yet confirmed → **FORCE CHANGE PASSWORD**
- Account confirmed (temporary password changed to permanent one) → **CONFIRMED**

- Improvements of filtering options for users table:

- E-mail
- Status
- Active account (enabled/disabled)
- Role PLATFORM\_ADMINISTRATOR

Select a filtering option

- E-mail
- Status
- Active account
- Role

Select a customer \*

All customers

Filter

Select a filtering option

SEARCH

ADD USER

Filter

Select a filtering option

Active account

SEARCH

Select an account status

- Enabled
- Disabled

! Filtering options are only available for "All customers", no filtering is possible if a customer is selected

Only one filtering option can be used at a time

- Possibility to resend activation email for a user whose account has not been confirmed before the expiration of the temporary password (i.e. in status **FORCE CHANGE PASSWORD**):

Users						
E-mail	Customer	Role	Status	Active account	Actions	
example.mail@kerlink.com	-	PLATFORM_ADMINISTRATOR	<b>FORCE CHANGE PASSWORD</b>			

Items per page: 25 |< < 1 > >|

### User

**E-mail:** example.mail@kerlink.com

**Creation date:** 2024-02-07 12:11:19

**Last update:** 2024-02-07 12:11:19

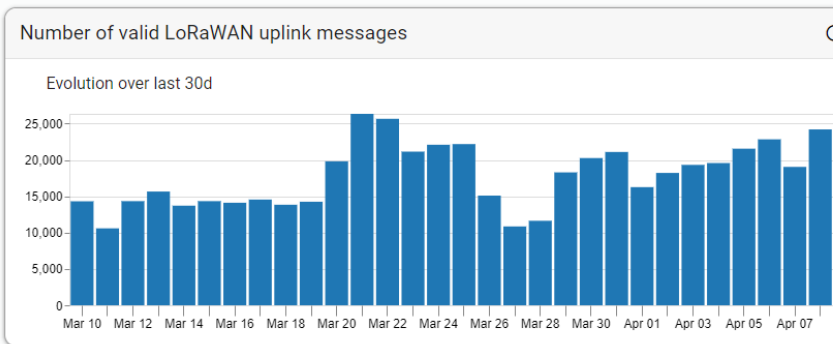
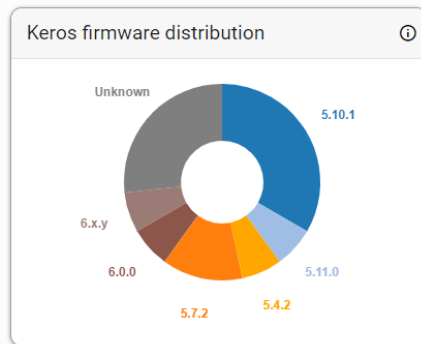
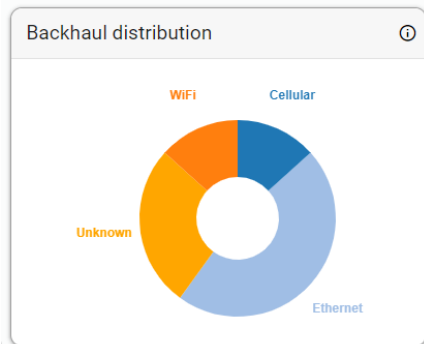
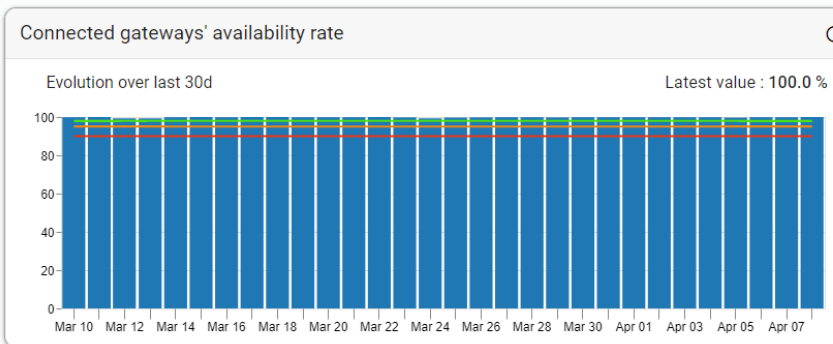
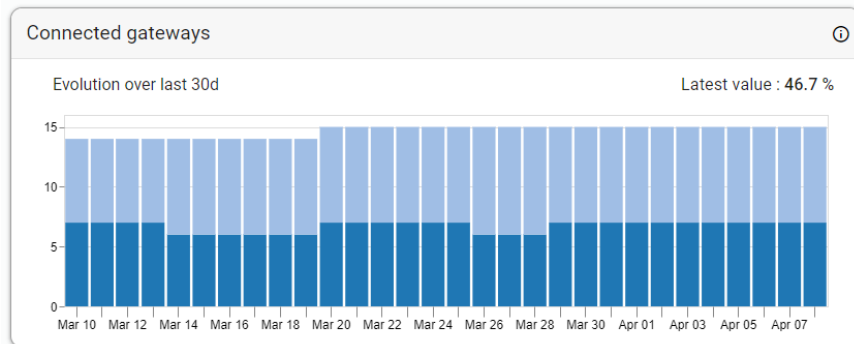
**Status:** **FORCE CHANGE PASSWORD** **RESEND ACTIVATION EMAIL**

**Active account:** Enabled

**Assigned roles:**

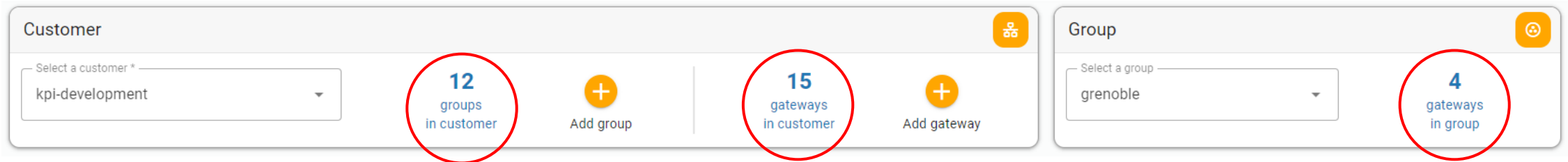
Customer	Role
-	PLATFORM_ADMINISTRATOR

- Enhanced session token management:
  - Access token configured to 30 minutes
  - Refresh token configured to 14 days
- New graphic charter for KPI graphs:



- **Other UI improvements:**

- **Rework top of home page (access to list by clicking on number, no more view list button):**



- **Displaying a loader on button during API calls**
- **Change reboot icon to avoid confusion with table refresh icon**

- API documentation migrated to RapiDoc, for a more user-friendly interface and a better integration in UI:

API Documentation

## Wanesy Management Cockpit (WMC) API 1.6.0

OpenAPI schema

Expand all | Collapse all sections

### General

- GET /

### customers

- GET /customers
- POST /customers
- GET /customers/{customer\_id}
- PUT /customers/{customer\_id}
- DELETE /customers/{customer\_id}

### gateways

- GET /customers/{customer\_id}/gateways
- POST /customers/{customer\_id}/gateways
- GET /customers/{customer\_id}/gateways/{gw\_eui}
- PUT /customers/{customer\_id}/gateways/{gw\_eui}
- DELETE /customers/{customer\_id}/gateways/{gw\_eui}
- GET /customers/{customer\_id}/gateways/{gw\_eui}/health
- POST /customers/{customer\_id}/gateways/upload

#### GET /customers/{customer\_id}/gateways/{gw\_eui}/health

Get Vitals Gwid

Get vitals from a specific gateway.

OAuth (WMC-4)

#### REQUEST

##### PATH PARAMETERS

* customer_id integer	1	Min 0   Max 2147483646
* gw_eui string	7276FF0000000000	Pattern: [0-9a-fA-F](16)

Customer Id  
Examples: 1

Gateway EUI  
Examples: 7276FF0000000000

API Server <https://development.wmp4.wanesy.net/api/v1>

Authentication Required (None Applied)

FILL EXAMPLE CLEAR TRY

#### RESPONSE

200 404 422

Successful Response

EXAMPLE SCHEMA application/json

ResponseVitals

The response data for a gateway creation request.

Attributes: data (Vitals): The list of vitals by gateway.

```
{
  "data": {
    "gwEUI": "[0-9a-fA-F](16)$",
    "vitals": [
      {
        "name": "string",
        "value": 0,
        "date": "1970-01-01T00:00:00.000Z"
      }
    ]
  }
}
```

Copy

- Adding diagnostic information in “About” page:

The screenshot shows the 'About' page with several sections. The 'Diagnostic information' section is expanded, showing 'System and browser details' and 'User details'. Red boxes highlight these two sections, and red arrows point from the 'Diagnostic information' menu to them.

### System and browser details

Attributes	Value
OS	Windows 10
Screen resolution	1920x1080 px
Browser	Chrome 123.0.0.0
Browser resolution	1920x919 px
Browser zoom	100%
Locale	fr-FR

### User details

Attributes	Value
Cognito:groups	[ "WMP4:ROLE::PLATFORM_ADMINISTRATOR" ]
Iss	https://cognito-idp.eu-west-3.amazonaws.com/eu-west-3_GXLu6vAgk
Version	2
Client_id	6jvcb56jn5euohab31t50frdr6
Origin_jti	cdc1ef44-8c3e-44d9-9742-4c43ade3769c
Event_id	790c32c9-b02d-40cb-9b8a-768b8e65d7a0
Token_use	access
Scope	openid email
Auth_time	1712300753
Exp	1712651421
Iat	1712649621
Jti	f4bdefcc-68d2-4fc2-8193-9d802ee799b7
Username	f12bb7f2-402e-487e-aaa6-f2ac09eb6877



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## 2. RESTRICTIONS SOLVED



- The user name is not filled in the email sent in case of forgotten password **[SOLVED]**



### **3. CONSTRAINTS & RESTRICTIONS**



- **Specific constraint after deployment of Wanesy Management Cockpit v4.6:**
  - **All pending actions (software update, get logs and reboot) will be lost (i.e. moved to cancelled status), you will therefore have to reschedule them if necessary**
- **CSV template for gateways import is wrong with Firefox**
- **Minimal mode for get logs command is not available for gateways with KerOS 6 FW**
- **RSSI/SNR distribution graph is only available for last hour**
- **A relogin is necessary for the changes on the user's rights to be applied**
- **Feature for importing gateways by CSV file is limited to Kerlink team (no access for customer), please contact Kerlink support team if you need to declare many gateways**

# Thank you!



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