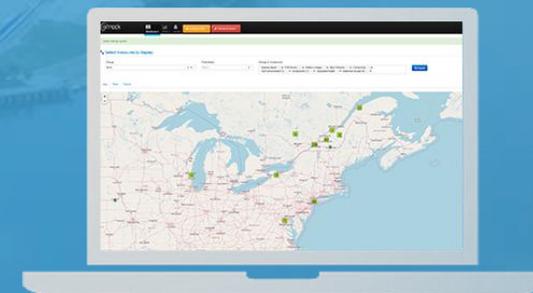


IJITRACK .COM

Monitoring and management
in real-time of your data



Basic training

Training summary

1. **Basic concepts**
2. Creating a customer account
3. Referencing a sensor
4. Data processing
5. Alarms
6. Questions
7. Practice

What is IJTRACK 2 ?

- Multi users Web-based software
- Data visualisation
- Definition of alarms
- Setting up filters
- Calculation on data

1. Basic concepts

1. The equipments

- Sensors or physical devices
- 3 types :
 - SANDARD DEVICES
 - SMS SENDER
 - DATA SENDER

1. Basic concepts

2. The measuring point

- Real world objects (like : Silo, Fridge, Case, Point 1, ...)
- Clients only see the objects and not the equipment
- Can be linked to a container (silo) and a content (flour, plastic balls)

1. Basic concepts

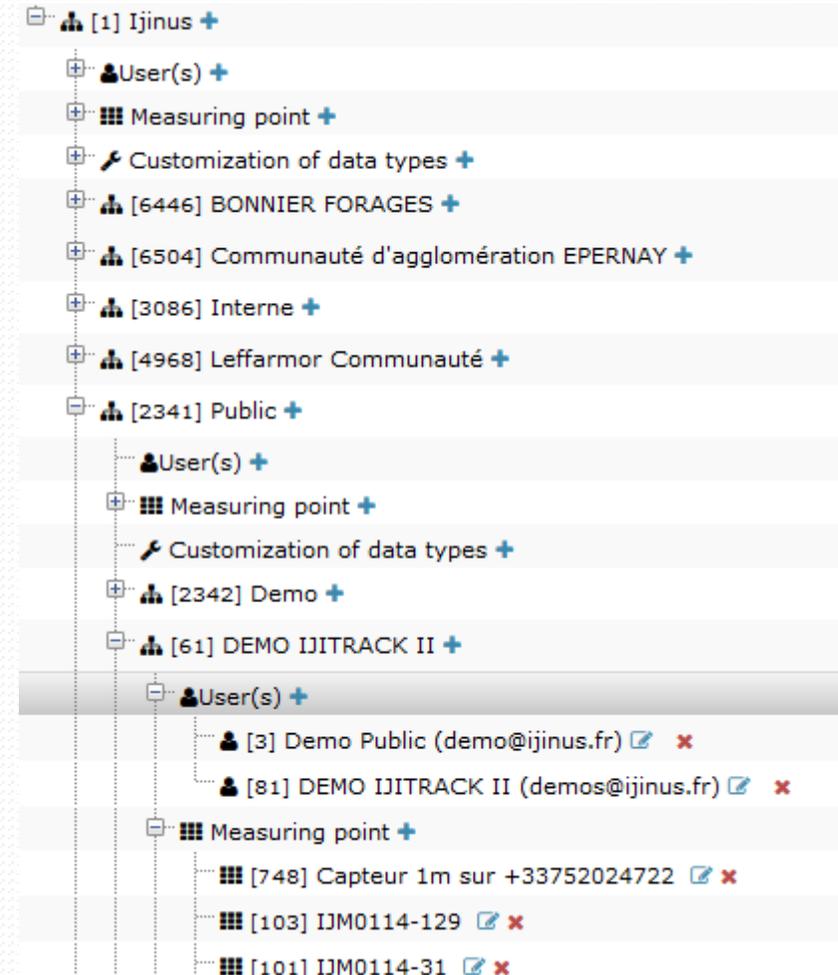
3. The measures

- Data collection with one type of data
- Three types of measurements:
 - Received data
 - Automatic calculated data
 - Calculated data

1. Basic concepts

4. Groups

- Hierarchical organisation, used to categorize and prioritize
- Represent clients, concepts, locations or sensor groupings



1. Basic concepts

5. Users

- Authorized persons to connect to IJITRACK via a login (e-mail address) and a password
- Three different roles:
 - Viewer
 - Editor
 - Admin

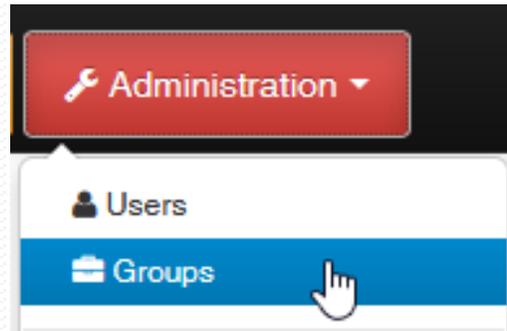
Training summary

1. Basic concepts
2. **Creating a customer account**
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2. Creating a customer account

1. Creation of a new group

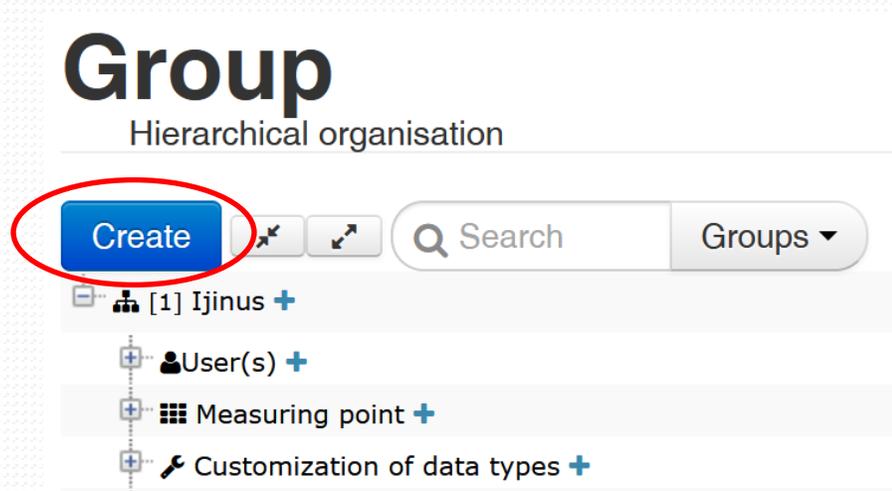
- You have to be administrator
- Go to Administration menu → Groups



2. Creating a customer account

1. Creation of a new group

- Click on the Create button



2. Creating a customer account

Group Creation

Hierarchical organisation

Name **Name of the group**

Required, Max length : 64, Min length : 3

Parent **Its parent group**

Time-zone

Set number of days of timeseries

Age limit of their data

Set device quota

Maximum of equipments

SMS account :

Allowed number of SMS

SMS remaining

Remaining number of SMS

SMS available

-1 to use the SMS account of the parent, Required

2. Creating a customer account

1. Creation of a new group

Postal Address

Street

Street (continued)

Postal code

Max length : 10

City

Country

France

Required

Phone

Mobile phone

Geolocation information

Latitude

49.4404602051

Max value : 90, Min value : -90

Longitude

1.0939657688

Max value : 180, Min value : -180

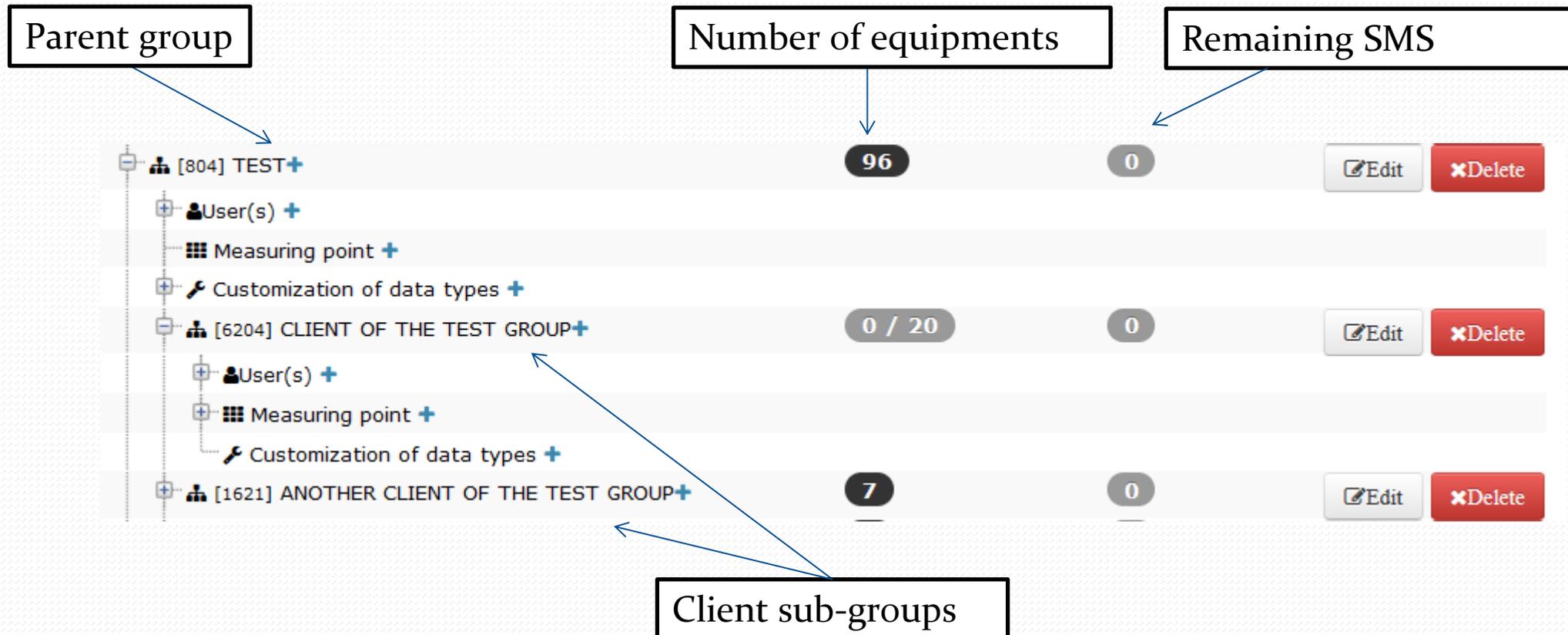
Calculate

Save

Cancel

2. Creating a customer account

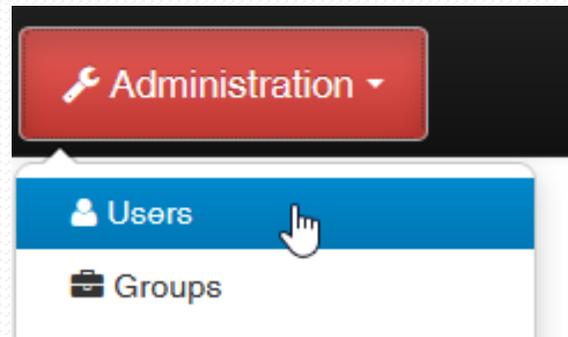
1. Creation of a new group



2. Creating a customer account

2. Creation of a user

- You have to be administrator
- Go to Administration → User(s) and click on Create



User(s)

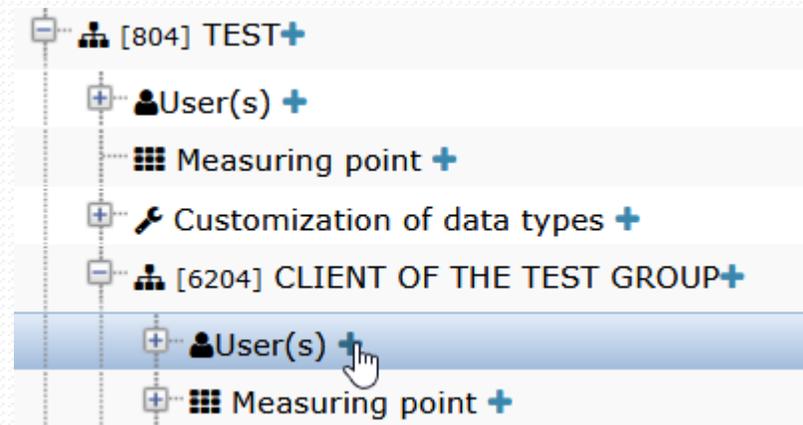
Create



2. Creating a customer account

2. Creation of a user

- User attached to a single account
- Click the symbole « + » next to the user icon of the group or sub-groups



2. Creating a customer account

2. Creation of a user

User(s) Creation

Name

Required, Max length : 64

State Active

Active account until

Email **e-mail used as Login**

Required

Password **Define a password**

Max length : 16, Min length : 6

Password confirmation

Max length : 16, Min length : 6

Extra groups

Lang

Time-zone

Interface

Role

Required

2. Creating a customer account

2. Creation of a user

Viewer, Editor, Admin

Lang	Time-zone	Interface	Role
English	Europe/Paris	1. Basic	viewer
Required			
Extra emails (to send alarms)			
<input type="text"/>			
Use comma "," as separator			
Phones (to send SMS)			
<input type="text"/>			
Use comma "," as separator			

International format (+33 ...)

Training summary

1. Basic concepts
2. Creating a customer account
3. **Referencing a sensor**
4. Data processing
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3. Referencing a sensor using Wiji App

Operating procedure for the installation of a sensor on your ljitrack.com account

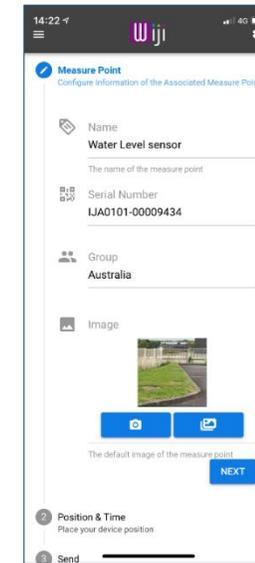
First step : download the App



Make sure that the sensors has already sent data to IJITRACK, at least once.
Otherwise, use the "Force data retrieval" button in the software Avelour to do so.

3. Referencing a sensor using Wiji App

Open the App, scan the QR code from the label of the sensor



1. Connect to your account using same user/pass as your Ijitrack account.
2. Choose from the main screen the option : « Configure Device ». The camera of your phone opens, you can scan the QR code on the label of your sensor or logger.
3. Complete the whole procedure, and click the blue button to upload configuration:



3. Referencing a sensor using wizard

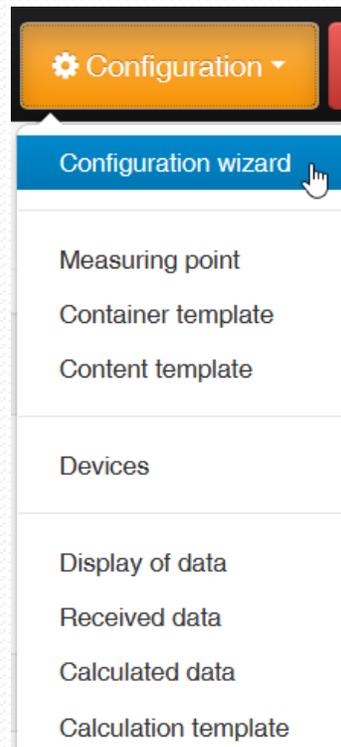
1. Configuration wizard

- Powerful tool to automatically integrate a product into IJITRACK
- Requirements for use:
 - Product not already listed in Ijitrack or inactive
 - Data already sent to IJITRACK
 - You know the sim card number (SMS) or its SN (FTP)

3. Referencing a sensor

1. Configuration wizard

- Go to Configuration → Configuration wizard



3. Referencing a sensor

1. Configuration wizard

Type the 4 last digit of the SN

Configuration wizard

2243



Select all

Order by : [Name](#) [Serial number](#)

10003 - VSL 05 NB

Mode

New



Serial number

IJA0101-0002243

Group

TEST GROUP > CLIENT OF THE TEST GROUP



Name

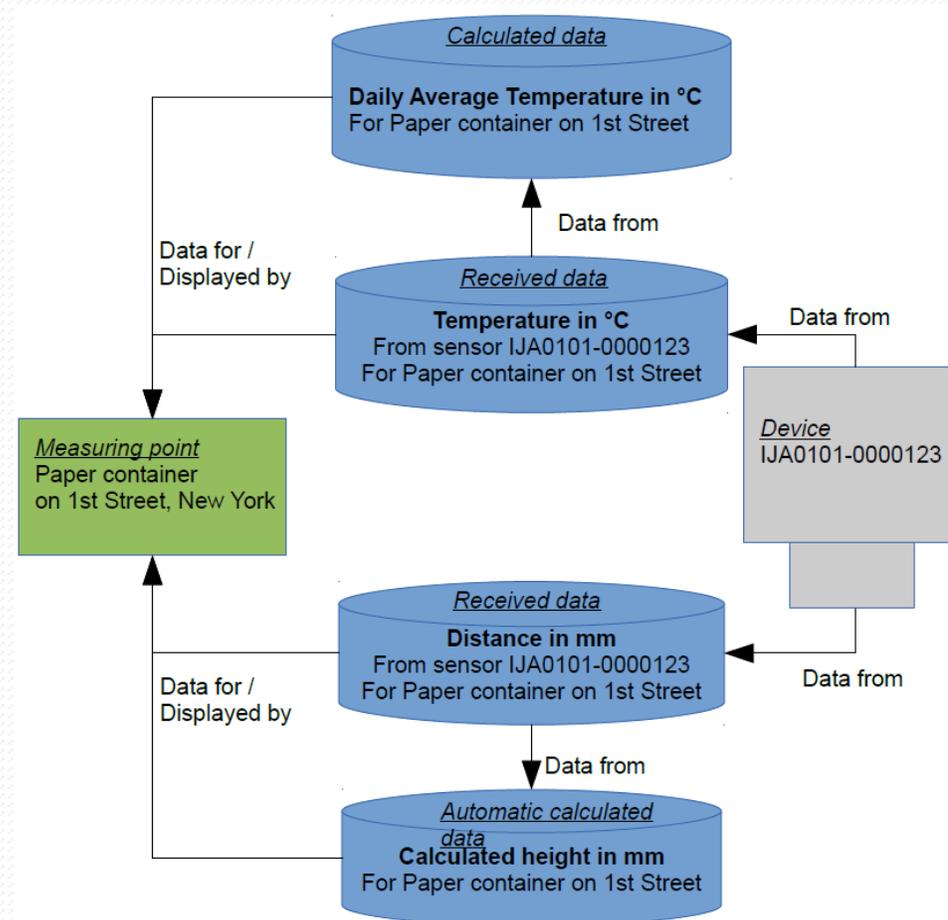
2243 - NB1



Advanced

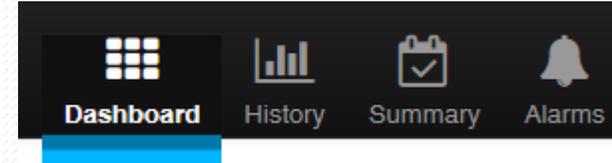
3. Referencing a sensor

1. Configuration wizard



3. Referencing a sensor

2. Dashboard

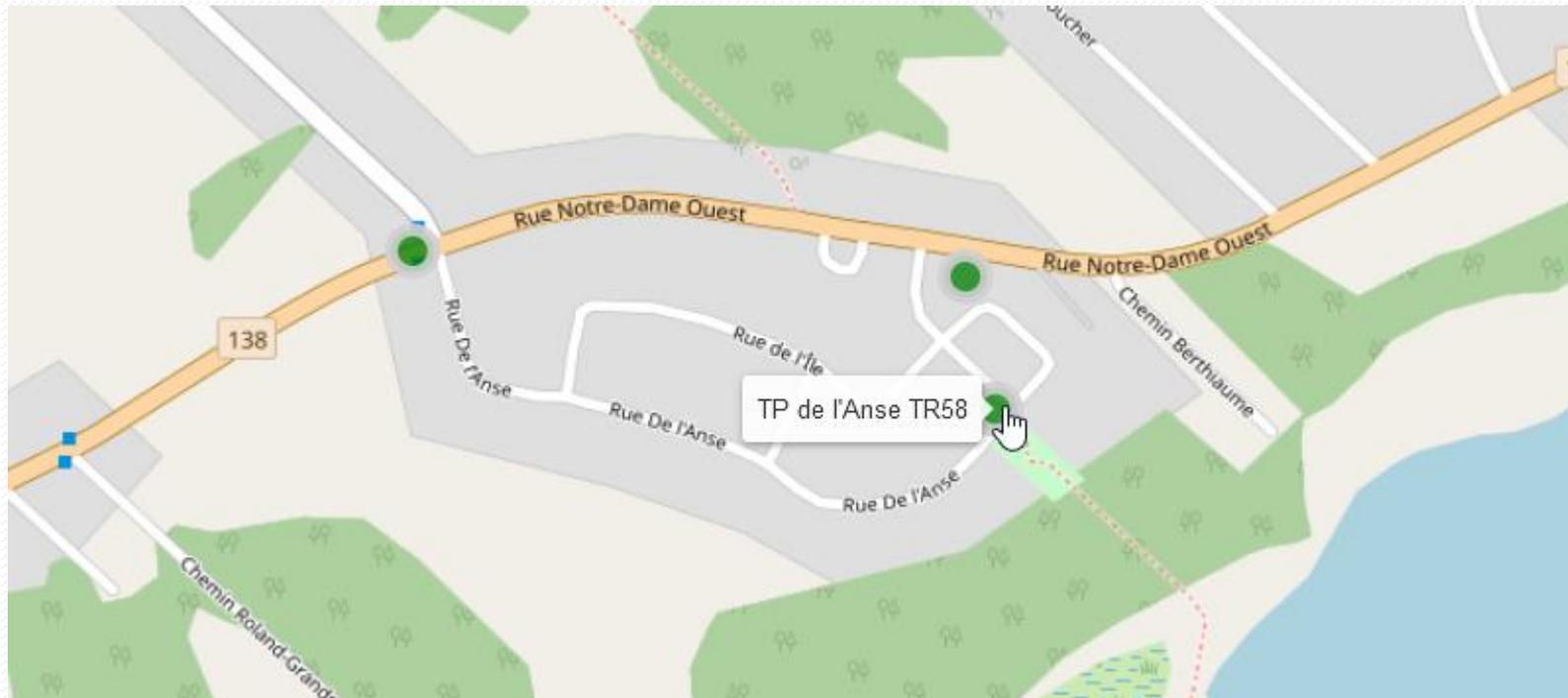


- Shows data of measuring points according to the selected groups and data type
- Three viewing modes :
 - Map
 - Table
 - Objets

3. Referencing a sensor

2. Dashboard

- Presentation in the form of a map



3. Referencing a sensor

2. Dashboard

- Presentation in the form of a table

Objet	Contenant(s)	Contenu(s)	Date	Batterie	Courant
Conductivité Entrée STEP			16h07	3,45 V	
Piezzo Poste Jean Moulin			16h28	3,45 V	5,74 mA 
Piezzometre Ti Lanouan			31/12/2016, 12:40:00	3,35 V 	7,72 mA
Pinces ampéro Poste Jean Moulin			16h27	3,30 V	

3. Referencing a sensor

2. Dashboard

- Presentation in the form of Measuring point



3. Referencing a sensor

2. Dashboard

- Possibility to filter according to their group, content and data type

^ Select measures to display

Group
DEMO IJITRACK II x

Data type
Calculated weight on Calculated volume on Calculated height x
Battery voltage x GSM Power x Measure temperature x

Q Search

3. Referencing a sensor

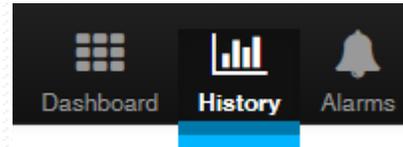
2. Dashboard

- Possibility to search for a product, to adjust the number of items per page, to edit data types and to display several measures in the history.



3. Referencing a sensor

3. History



- Allows you to display a graph or a table of values concerning one or more measurements (7 at max) between two dates.
- Selection possible by group, content, object and measurement family

^ Select measures to display

Group
Client Group x ▼

Data type
Calculated weight on Calculated volume on Calculated height x
Battery voltage x GSM Power x Measure temperature x

Search

3. Referencing a sensor

3. History

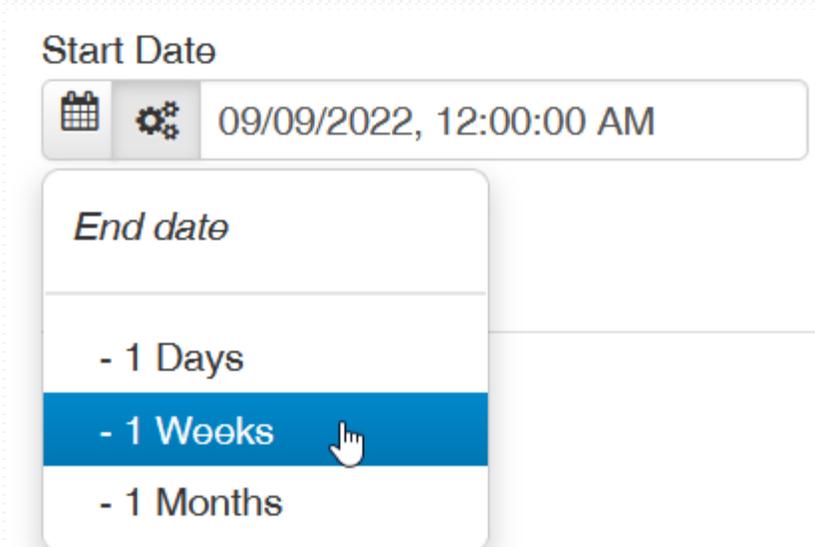
- Selection of start and end dates via calendar or tool below

Start Date

09/09/2022, 12:00:00 AM

End date

- 1 Days
- 1 Weeks**
- 1 Months

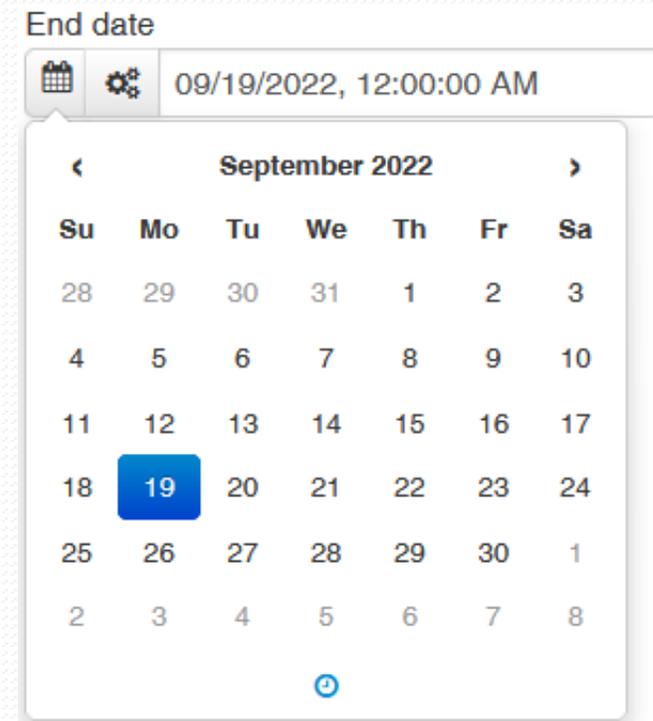


End date

09/19/2022, 12:00:00 AM

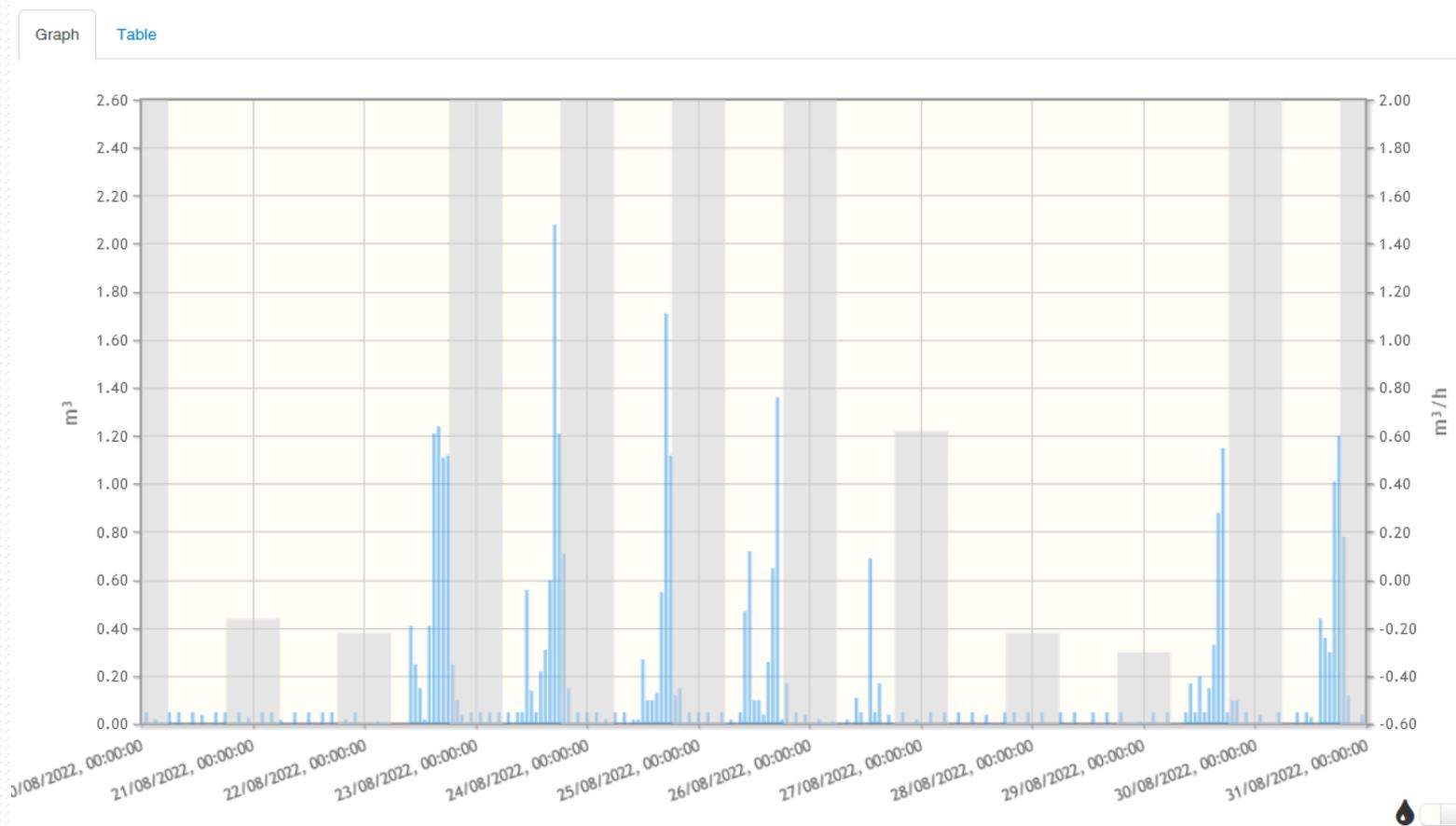
September 2022

Su	Mo	Tu	We	Th	Fr	Sa
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8



3. Referencing a sensor

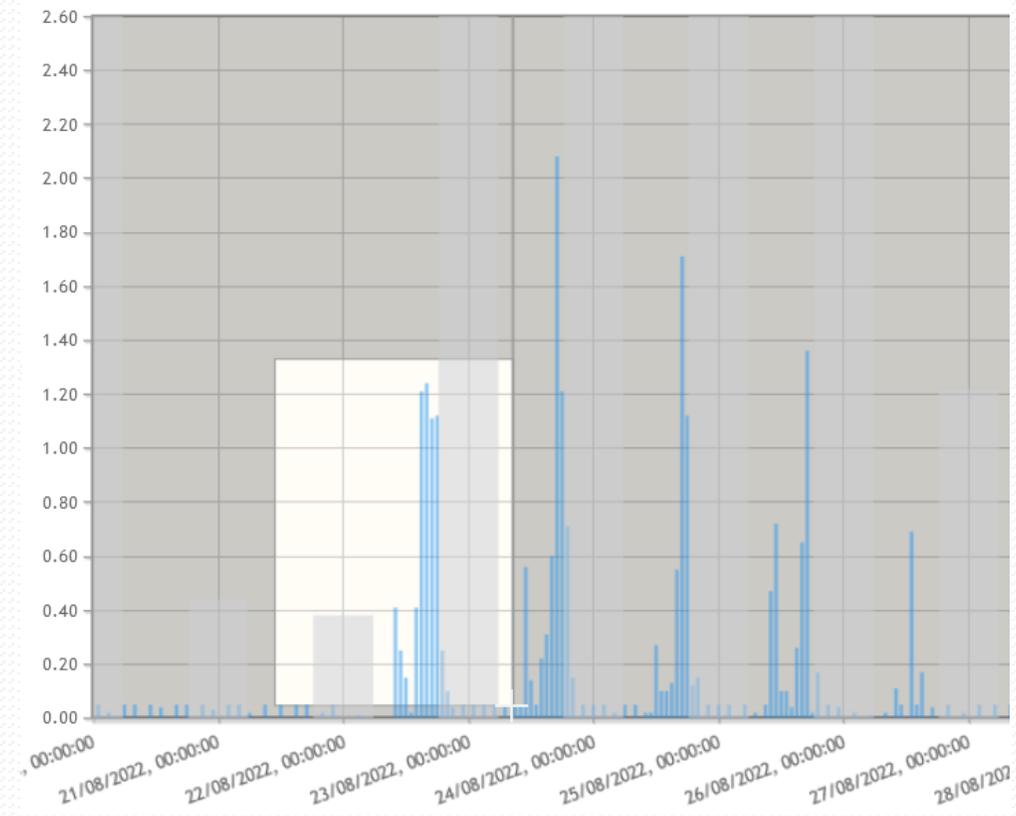
3. History



3. Referencing a sensor

3. History

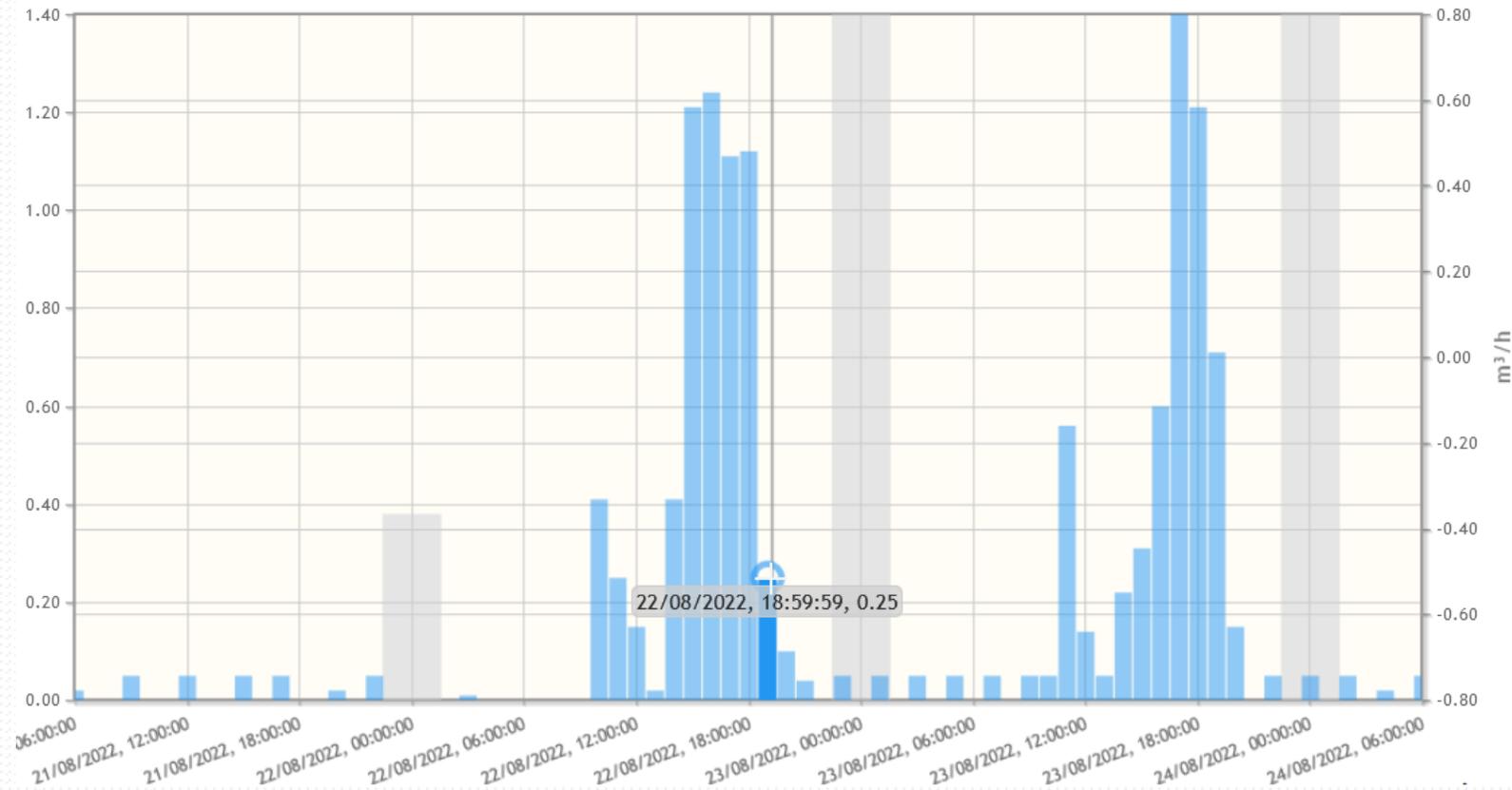
- You can zoom in into the graph



3. Referencing a sensor

3. History

- Check data, its date, on mouse-over the graph



3. Referencing a sensor

3. History

The screenshot displays the Ijitrack application interface. At the top, there is a navigation bar with the Ijitrack logo, a 'Dashboard' button, a 'History' button (which is active), an 'Alarms' button, and a 'Configuration' button. A user profile 'Demo Public' is visible in the top right corner.

Below the navigation bar, there are date selection fields for 'Start Date' (08/23/2010, 12:00:00 AM) and 'End date' (09/07/2022, 12:00:00 AM), along with a 'Search' button. Below these are tabs for 'Graph' and 'Table', with 'Table' selected.

The main content area shows a table of sensor measurements. The table has columns for Date, Content(s), Measuring point, Data, and Value. The data is as follows:

Date	Content(s)	Measuring point	Data	Value
06/14/2022, 06:00:00 PM	ALIMENT 2 0.7t/m³	PIZIEUX B	Calculated weight on Calculated volume on Calculated height	1.58 t
06/14/2022, 05:00:00 PM	ALIMENT 2 0.7t/m³	PIZIEUX B	Calculated weight on Calculated volume on Calculated height	1.56 t
06/14/2022, 04:00:00 PM	ALIMENT 2 0.7t/m³	PIZIEUX B	Calculated weight on Calculated volume on Calculated height	2.04 t
06/14/2022, 03:00:00 PM	ALIMENT 2 0.7t/m³	PIZIEUX B	Calculated weight on Calculated volume on Calculated height	2.03 t
06/14/2022, 02:00:00 PM	ALIMENT 2 0.7t/m³	PIZIEUX B	Calculated weight on Calculated	2.04 t

Below the table, there is a 'Display the item 1 to 10 on 2,888 elements' message and a dropdown for 'Items per page' set to 10. To the right of the table, there is a sidebar titled 'Displayed measurement(s)' with an 'Edit' button. The sidebar shows two measurement entries: 'PIZIEUX B' and 'PIZIEUX D', both with a value of 't' and a description 'Calculated weight on Calculated volume on Calculated height'. At the bottom of the sidebar, there are 'Export' buttons for 'CSV' and 'Excel'.

3. Referencing a sensor

3. History

Modify the displayed measures

Displayed measurement color

Export the displayed data

Displayed measurement(s)

Edit

t PIZIEUX B
Calculated weight on Calculated volume on
Calculated height

‡ PIZIEUX-D
Calculated weight on Calculated volume on
Calculated height

Export: CSV Excel

Hidden measures

Remove

Export to CSV

Export to Excel

Data type

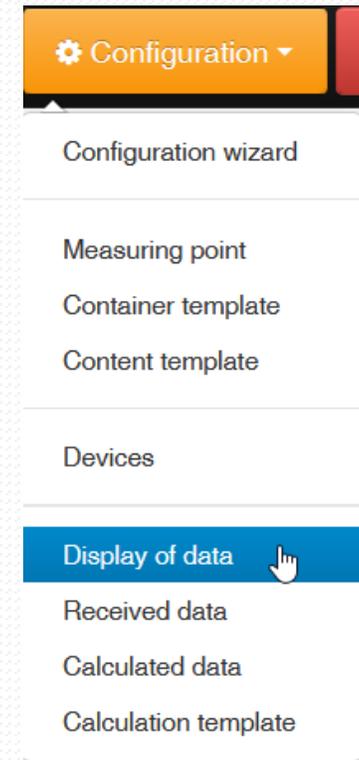
Training summary

1. Basic concepts
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5. Data processing

1. Modification of units and data display

- Modification via data types
- Changing few settings
 - Unit
 - Name
 - required level
 - Rounding on unit
 - Display



5. Data processing

1. Changing the units and display

Display of data depending on the user group

Group
ljinus x ▾ Ok

4/532 < >

(fusionné) Batterie ljinus

Visible Required level
3. Expert x ▾

Name
(fusionné) Batterie en

Unit and rounding

Unit of Measure
V x ▾

Rounding on unit
 Default 0.01

View in percent if possible

Default min. and max. value

Default min. value
 Default 0.1

Default max. value
 Default 0.1

Views

Item view
Horizontal bar x ▾

Chart view
Line x ▾

5. Data processing

1. Change of unit and their display

Unit and rounding

Unit of Measure

m

Rounding on unit



Default

0.01

View in percent if possible



Default min. and max. value

Default min. value



Default

0.1

Default max. value



Default

0.1

Views

Item view

Horizontal bar

Chart view

Line

Item view

Horizontal bar

Horizontal bar

Vertical bar

Check

Button on/off

Simple

Line

Line + upward trend

Line + downward trend

Bar

Stick

Step Line

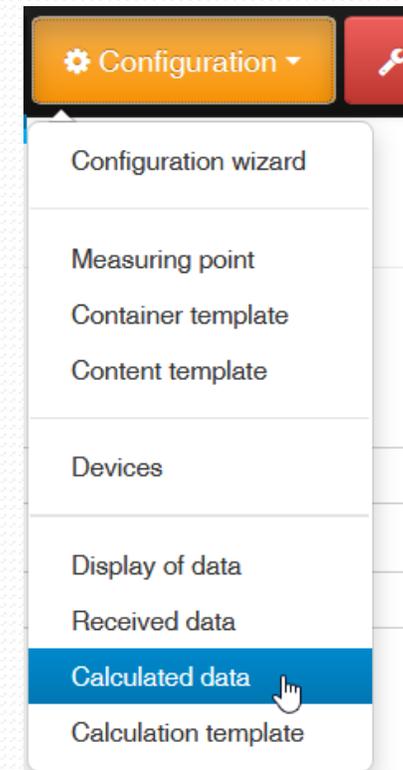
Step Line before

Line

5. Data processing

2. Creation of calculated data

- Modification via filters on the data
- Possibility to apply filters
 - Advanced calculation
 - Delegate
 - Box plot filter
 - Sliding statistics
 - Union of data
 - Calculated data with template
 - Statistics over a period



5. Data processing

2. Creation of calculated data

Delegate a measure

Type of measurement :
Delegate

Original data :

Group : Ijinus > Public > DEMO IJTRACK II
ENVIRONNEMENT > River Application

Measuring point : IJA0101-2336 US Sensor

Select Original data

Measuring point
Select...

Data type
--- Automatic ---

Color Description

Save Cancel

5. Data processing

2. Creation of calculated data

Data Creation

Type of measurement : **Statistics over a period**

Calculation type
Maximum

Required

Original data :
Group : ljinus > Dunkerque
Measuring point : 01 LNU Dunkerque (IA0102-336)

Period: 1 Hours
Show incomplete periods: no

Period offset: Default

Hour filter:
Only local hour after: Default
Only local hour before: Default

Position of result in the period: End of Period
Measuring point: Default

Data type: --- Automatic ---
Color: 

Save Cancel

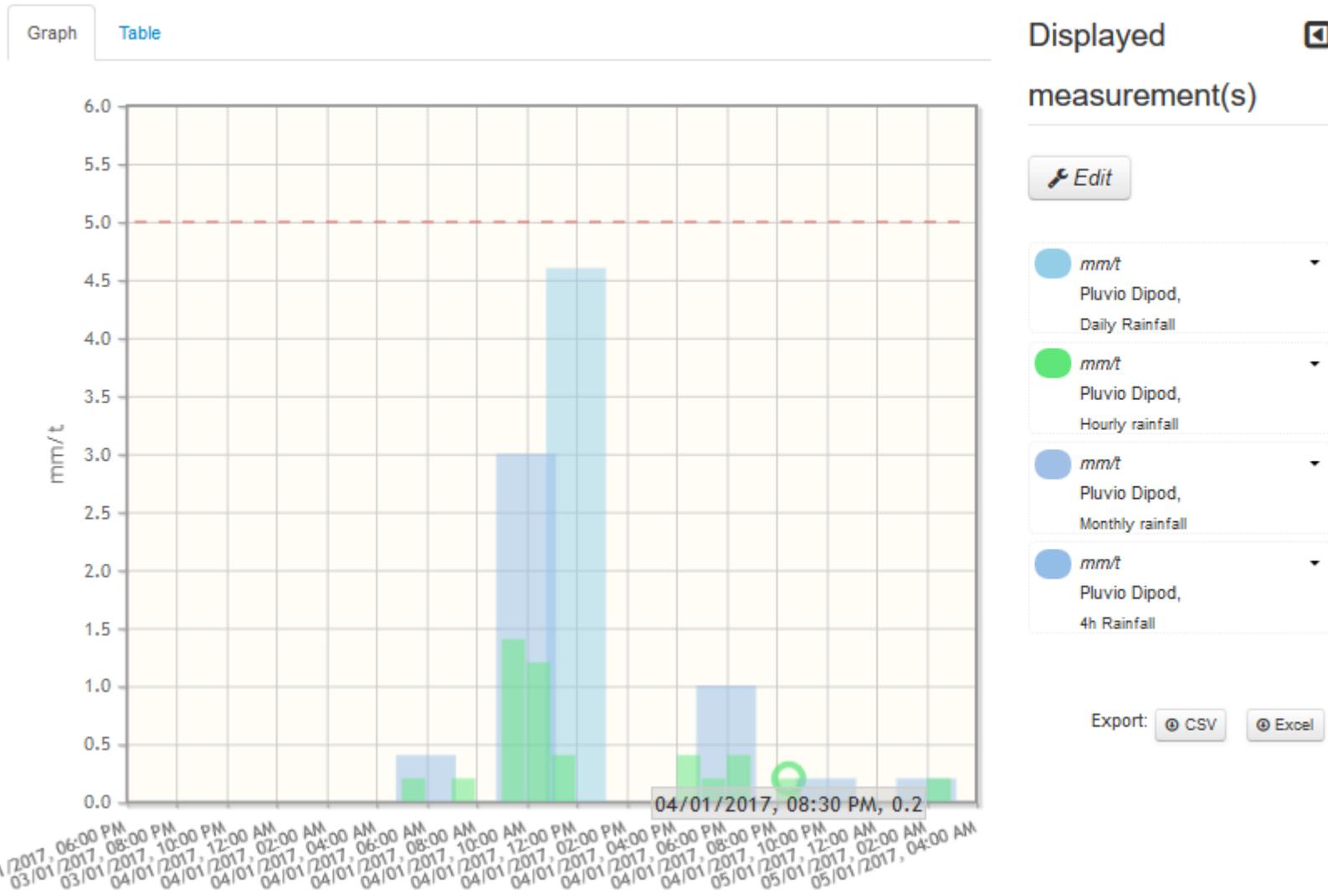
Calculation type options: Maximum, Average, Minimum, Standard deviation, Sum, Counting, Variance, Median (First), Median (Average)

Period offset options: Custom, 0 weeks, 0 days, 0 h, 0 mn

Position of result in the period options: End of Period, Begin of period, End of Period, Middle of period

Period options: Hours, minutes, Days, Weeks, Months, Hours

5. Data processing

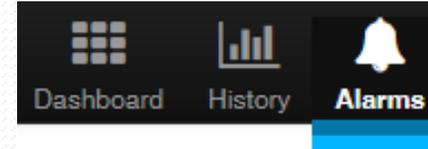


Training summary

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5. Alarms

1. Creation of alarms



- Applies to the current user by default
- Four types of alarms :
 - No data
 - Minimum value
 - Maximum value
 - Variation

5. Alarms

1. Creation of alarms

Maximum value
Minimum value
No data
Variation

Alarm settings No data - Creation

Alarm state: Active

Range: For One device

Field device / sensor: IJA0101-00003346

Maximum time without sending data: 0 weeks 1 days 0 h 1 mn

Required

Sending alarms

send Email Dont send SMS

Recall frequency: No Recall

Advanced

Owner: CPS (CPS)

Required

Name: Default

Validation path form alarms: Warning (Warning)

Required

Recall frequency: Custom 2 h 0 mn 0 s

Save Cancel

Range

For One device

For One device

For All devices

Field device / sensor

3346

IJA0101-00003346

IJA0101-00003346

IJA0101-00003346

IJA0101-3346 (+33752033136)

Capteur 1 sur IJA0101-3346 (+33752033136)

Capteur 2 sur IJA0101-3346 (+33752033136)

Recall frequency

Custom 2 h 0 mn 0 s

5. Alarms

1. Creation of alarms

- Maximum value
- Minimum value
- No data
- Variation

Alarm settings Maximum value - Creation Active

Range

For One device
For One device
For All devices

Range: For One measuring point

Data :
Group : Ijinus > Interne > Test
Measuring point : Search Measuring point
Select Data

Maximum:
Unit of Measure:
Value in percent: Beware, only data with a proper min/max can launch alerts

Required

Alert validation

Minimum number of values:
Minimum duration:

Sending alarms

send Email Dont send SMS
Recall frequency:

Advanced

Owner: Dominique Mahe (Ijinus)
Required

Name:

Validation path form alarms: Alarm (zonder validatie) (Alarm (zonder validatie))
Required

Q Displays [1 to 80] of 3765
Logger IJA0101-1115 - 8H, +33638051762, Material height
Logger IJA0101-1115 - 8H, +33638051762, Material height [1]
Logger IJA0101-1115 - 8H, +33638051762, Counter [2]
Logger IJA0101-1115 - 8H, +33638051762, Volume [2]
Logger IJA0101-1115 - 8H, +33638051762, Counter
Logger IJA0101-1115 - 8H, +33638051762, Volume
Logger IJA0101-1115 - 8H, +33638051762, Volume [3]
Logger IJA0101-1115 - 8H, +33638051762, Volume [1]
Logger IJA0101-1115 - 8H, +33638051762, Material height

5. Alarms

1. Creation of alarms

Alarm settings + -

- Maximum value
- Minimum value
- No data
- Variation 

Range

- For One device
- For One device
- For All devices

Alarm settings Variation - Creation

Alarm state
Active

Range: For One measuring

Data :

Group: Ijinus > Interne > Test

Measuring point: Search Measuring point

Select Data

Maximum variation:

Unit of Measure:

Value in percent: Beware, only data with a proper min/max can launch alerts

Variation calculation

With values since less than: 0 weeks 1 days 0 h 0 mn

Sending alarms

send Email Dont send SMS

Recall frequency: No Recall

Advanced

Owner: Dominique Mahe (Ijinus)

Name: Default

Validation path form alarms: Warning (Warning>Viewed>Validated)

Save Cancel

- Hauteur GSM (JA0101-00003503), Hauteur
- Hauteur GSM (JA0101-00003503), Débit
- Hauteur GSM (JA0101-00003503), Volume [1]
- Hauteur GSM (JA0101-00003503), Batterie
- Hauteur GSM (JA0101-00003503), Puissance GSM
- Hauteur GSM (JA0101-00003503), Batterie [1]
- Hauteur GSM (JA0101-00003503), Distance Brut
- Hauteur GSM (JA0101-00003503), Volume
- Ph + T°C (JA0101-00002243), Conductivité
- Ph + T°C (JA0101-00002243), Température de Mesure [3]
- Ph + T°C (JA0101-00002243), pH [3]

5. Alarms

2. Validating alarms

- Important step too-often neglected by clients
 - Allows to take into account the visualization of the alert
 - 3 states :
 - Warning
 - Viewed
 - Validated
- ! A new e-mail or SMS can only be sent if the previous alert has reached the Validated state !**

5. Alarms

2. Validation d'alarmes

Alarms

Alarm settings + -

My alarm

To validate

Type

Group

Including subgroups

Group of measures



Displays [1 to 10] of 70 10

User(s) ⇅	Start Date ⇅	End date ⇅	Alarm settings ⇅	Description ⇅	Step ⇅
Stad Roeselare (Stad Roeselare)	13/12/2016, 12:08:26 PM	14/12/2016, 11:58:26 PM	Geen data ontvangen van sensor sinds 1 dag	No data received from IJA0101-00006088 (Objet sur IJA0101-00006088) since 1 day .	Warning >
Stad Roeselare (Stad Roeselare)	18/11/2016, 08:40:00 AM	19/11/2016, 12:45:00 PM	450 mm alarm College	Value of Hoogtemeter College, Hauteur is above 450 mm.	< Validated
Stad Roeselare (Stad Roeselare)	18/11/2016, 08:40:00 AM	18/11/2016, 05:30:00 PM	900 mm alarm Colievijverbeek - De Ruitter	Value of Hoogtemeter De Ruitter, Hauteur is above 900 mm.	< Validated
Stad Roeselare (Stad Roeselare)	18/11/2016, 08:40:00 AM	18/11/2016, 05:30:00 PM	700 mm Alarm Colievijverbeek - De Ruitter	Value of Hoogtemeter De Ruitter, Hauteur is above 700 mm.	< Validated
Stad Roeselare (Stad Roeselare)	18/11/2016, 08:40:00 AM	19/11/2016, 09:35:00 AM	600 mm alarm College	Value of Hoogtemeter College, Hauteur is above 600 mm.	< Validated

Training summary

1. Basic concepts
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6. **Questions**
7. Practice

Training summary

1. Basic concepts
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6. Questions
7. **Practice**