SmartView 5.4

1 — Last update: 15 March 2023

Berlinger & Co. AG

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1. Home

SmartView Basic Business Logic

Shipment Monitoring Get detailed information about the temperature development during a shipment in order to support decision taking if actions are required. Key deliverables: • Creation of a shipment with comprehensive metadata • Association of temperature devices to a shipment • Upload of device data with e-mail notification highlighting number and details of excursions • Device PDF document includes temperature graph with device alarms converted to • SmartView excursions • Management of temperature excursions • Download of shipment PDF report including important information such as metadata, graph, • excursions, statistics, excursion management and measurements	**Create** your **Shipment** **Manage Excursions** in **SmartView**
Shipment Analysis and Attachment Upload Analyze multiple shipments in parallel to identify weak points and find levers to improve shipment quality. Key deliverables: • Access to shipment dashboard with easy-to-read graphs and pie charts • Customizable dashboards through the use of data filters • Creation of shipment analysis to analyze selected shipments in detail • Downloadable dashboard content as digital images or PDF files • Downloadable shipment analysis as a PDF report • Upload PDF files as attachments to shipments (limit on quantity) • Inclusion of a description for uploaded attachments • Deletion and replacement of attached documents	**Analytics Dashboards** with Downloads **Upload Files**

Facility Monitoring

Get notified a soon as temperature deviations occur in cold storage facilities so that

immediate actions can be taken.

Key deliverables:

- Creation of location with one or multiple sectors representing the storage facility
- Association of devices to sectors
- Definition of an event profile with threshold for warnings and alarms triggering
- notification and escalation notification recipients
- Definition of sector and device offline notification rules including notification recipients
- Notification recipients receive temperature graph, statistics, excursions and delivery
- rates of the devices
- Visualization through temperature graph, statistics, excursions and delivery rates of the
- devices
- Creation of a sector PDF report including graph, statistics and excursions

Event Profile with Thresholds for Warnings and Alarms

Associate Device to Sector
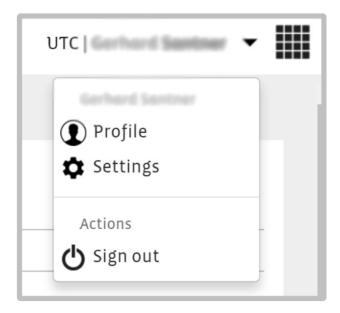
1.1. Overview

Dashboard

The SmartView home page contains a dashboard with a quick overview of the system status, provided in four main sections for two different applications.

User Configuration
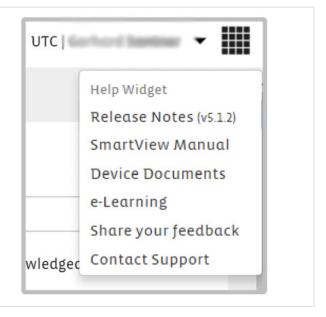
In the upper right corner, the dropdown menu can be found under the User Name, allowing you to configure your user account.
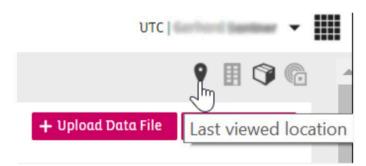
The option button in the upper right corner provides access to a number help widgets:

Help Widget
- Release Notes (v5.1.2)
- SmartView Manual
- Device Documents
- eLearning
- Share your feedback
- Contact Support

Quick Navigation Buttons

Four quick navigation buttons are added to the upper right corner of the smartview interface.
The last visited Location, Sector, Shipment and Device can be retrieved with these buttons.
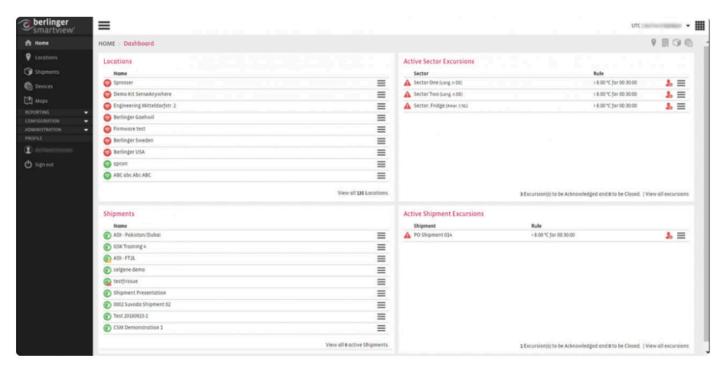
Dashboard of smartview

For **Facility Monitoring** the displayed sections will be:
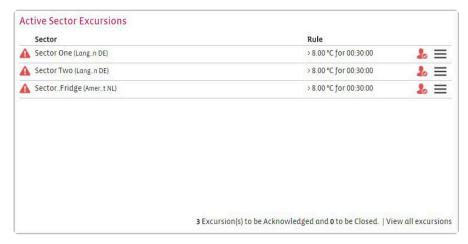
- Locations
- Active Sector Excursions

For **Shipment Monitoring** the displayed sections will be:

- Shipments
- Active Shipment Excursions

Note: The visibility depends on the application that SmartView is used for and on the user permission level.
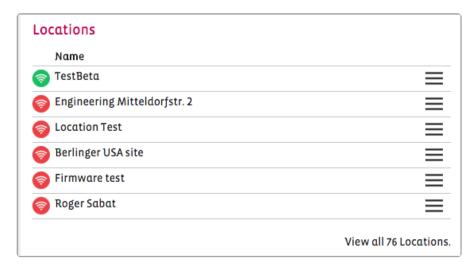
Active Sector Excursions:

The Sector Excursions box provides a short overview of all active excursions related to the defined sectors. These excursions indicate alert situation in a location, e.g. the temperature in a cold room has exceeded a user-defined threshold and is still ongoing. By clicking on an individual excursion, you can navigate to the screen to view additional detail information about the excursion.

Active Shipment Excursions

Shipment	Rule		
⚠ PO Shipment 014	› 8.00 °C for 00:30:00		☰

1 Excursion(s) to be Acknowledged and 0 to be Closed. | View all excursions
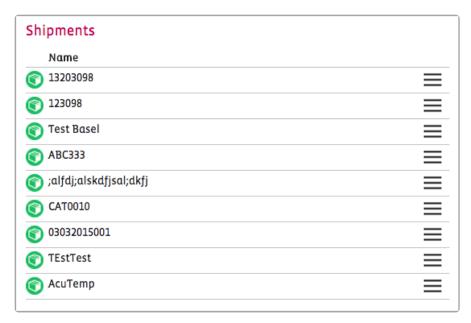
Active Shipment Excursions:

The Shipment Excursions box provides a quick overview of all active excursions related to shipments. These excursions indicate the alert situation during shipments, e.g. the temperature from a shipment has exceeded a user-defined threshold and is still ongoing. By clicking on an individual excursion, you can navigate to the screen to view additional detailed information about the excursion.

Locations

	Name	
🟢	TestBeta	☰
🔴	Engineering Mitteldorfstr. 2	☰
🔴	Location Test	☰
🔴	Berlinger USA site	☰
🔴	Firmware test	☰
🔴	Roger Sabat	☰

View all 76 Locations.

Locations:
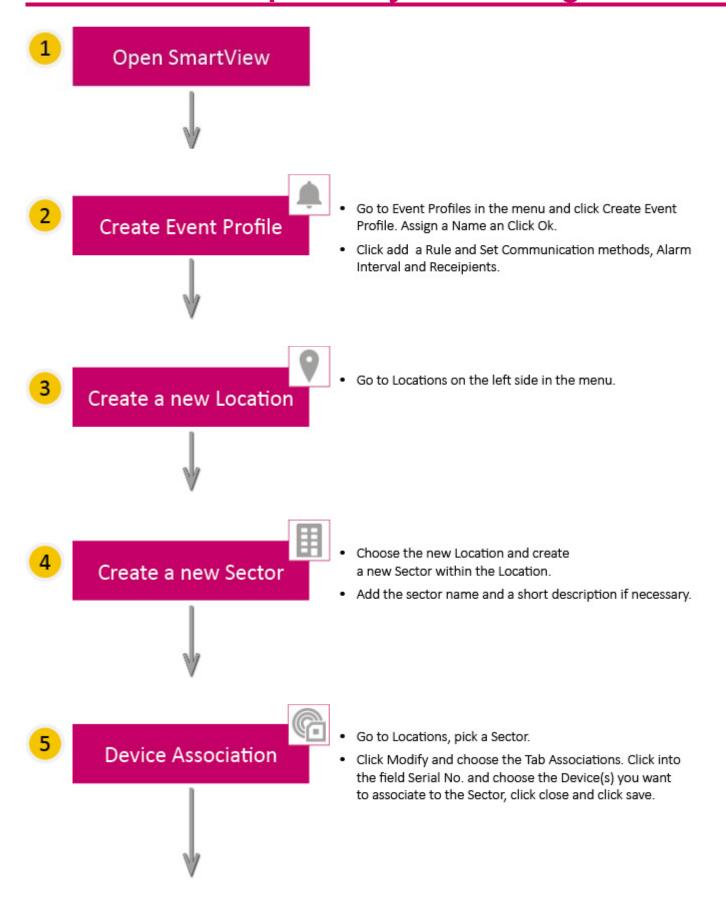
The Locations box provides a quick overview of the network locations that are included in the SmartView installation. The status of the location is provided by an icon. By clicking on an individual location, you can navigate to the detailed screen view of the location. By clicking on the "View all Locations" you will navigate to the Location Overview.

Shipments

Name	
13203098	☰
123098	☰
Test Basel	☰
ABC333	☰
;alfdj;alskdfjsal;dkfj	☰
CAT0010	☰
03032015001	☰
TEstTest	☰
AcuTemp	☰

Shipments:

The Shipment box provides a quick overview of the latest active shipments. By clicking on an individual shipment, you can easily navigate to the screen to view detail information about the shipment.
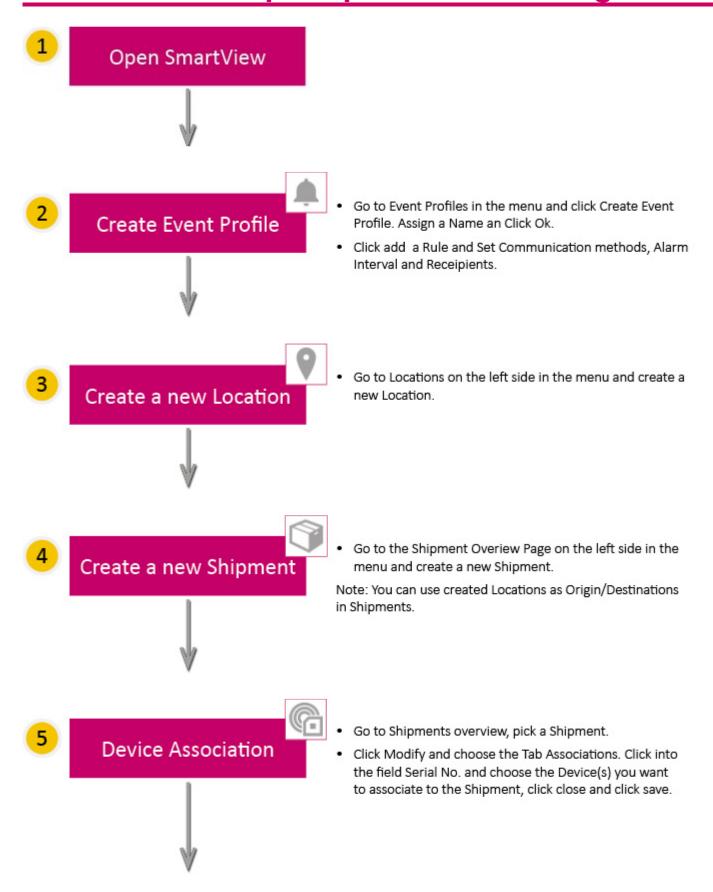
1.2. Quick Set Up Facility Monitoring

1 Open SmartView

2 Create Event Profile

- Go to Event Profiles in the menu and click Create Event Profile. Assign a Name an Click Ok.
- Click add a Rule and Set Communication methods, Alarm Interval and Receipients.

3 Create a new Location

- Go to Locations on the left side in the menu.

4 Create a new Sector

- Choose the new Location and create a new Sector within the Location.
- Add the sector name and a short description if necessary.

5 Device Association

- Go to Locations, pick a Sector.
- Click Modify and choose the Tab Associations. Click into the field Serial No. and choose the Device(s) you want to associate to the Sector, click close and click save.

6 **Activate Event Profile** 🔔

- Go to Locations, pick a Sector.
- Click Modify and choose the Tab Event. Enable Monitoring and select a predefined Event Profile.

1.3. Quick Set Up Shipment Monitoring

1 Open SmartView

2 Create Event Profile 🔔

- Go to Event Profiles in the menu and click Create Event Profile. Assign a Name an Click Ok.
- Click add a Rule and Set Communication methods, Alarm Interval and Receipients.

3 Create a new Location 📍

- Go to Locations on the left side in the menu and create a new Location.

4 Create a new Shipment 📦

- Go to the Shipment Overiew Page on the left side in the menu and create a new Shipment.

Note: You can use created Locations as Origin/Destinations in Shipments.

5 Device Association

- Go to Shipments overview, pick a Shipment.
- Click Modify and choose the Tab Associations. Click into the field Serial No. and choose the Device(s) you want to associate to the Shipment, click close and click save.

6   **Activate Event Profile** 🔔

- Go to Shipments overview, pick a Shipment.
- Click Modify and choose the Tab Event. Enable Monitoring and select a predefined Event Profile.

2. Signing in
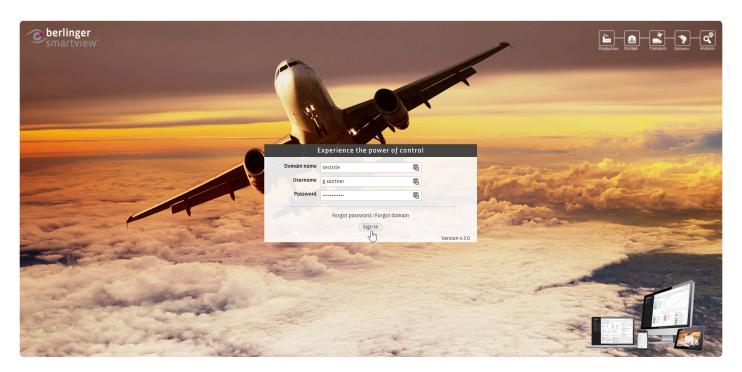
To access the smartview web-application please start your web browser, and enter the following URL or click directly on the link below:

https://smartview.berlinger.com

Note: it might be that the URL is different due to user customisation.

You will be redirected to the User Sign in page of smartview.
To sign in, enter the appropriate Domain (personalised for your company), your Username and Password to the according fields and press the 'Sign in' button.

Session Timeout:

User will be automatically logged out of the system after 25 min. of inactivity.

Note: If you are accessing smartView via a different URL, it can be that the Domain field will not be visible due to the automatic detection by smartview based on a visited URL.
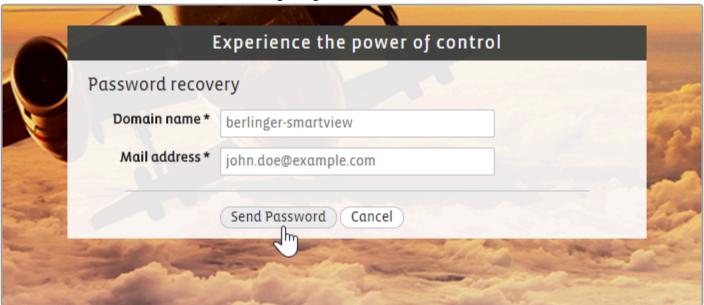
2.1. Forgot Password

You can recover your password using your email and domain (optional) in case you have forgotten your password.

A password-reset link will be sent to the your email address. You can use the link within 48 hours of period before it expires, to re-set his password.

If the smartview site is accessed via a private label (e.g. https://smartview.berlinger.com/login) then you do not need to provide domain information to recover the password.

Click on the **Forgot your password?** link on the login screen which will lead you to the **Forgot Your Password** screen as shown in the following image:
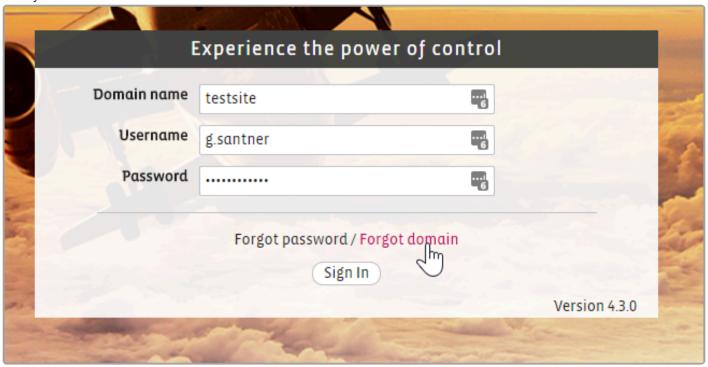
Click **Send Password** to recover your password again.

Forgot Domain

2.2. Forgot Domain

In case you have forgotten your Domain name click on the **Forgot your domain?** link shown on the login screen above.
Your Email client opens and you can send an email to the Berlinger support team. You will then be provided with your domain name.

In order to recover your account, enter your E-mail address and Domain name and press the 'Recover Account' button. An email with the instructions to reset the password will be sent.
Follow the instructions in the e-mail to reset your password.
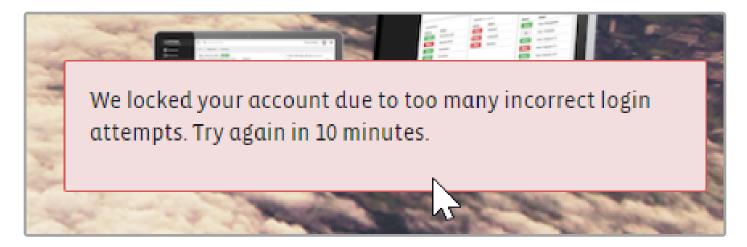
>> Failed Login Attempts
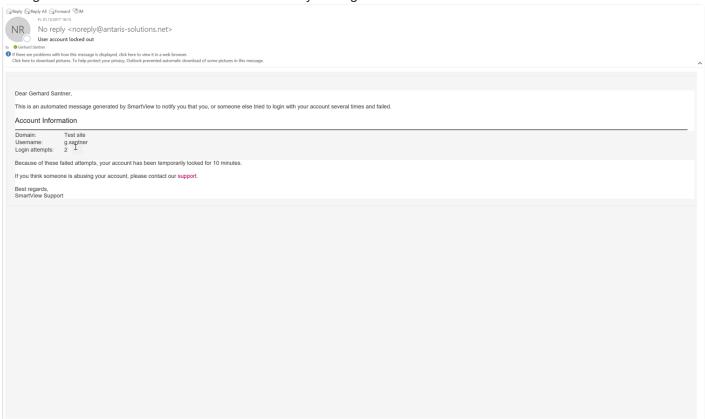
2.3. Failed Login Attempts

Your administrator hast set up the number of log in attempts for your account.
After the defined number of incorrect login attempts your account will be blocked for a certain time (between 5 and 60 min.).
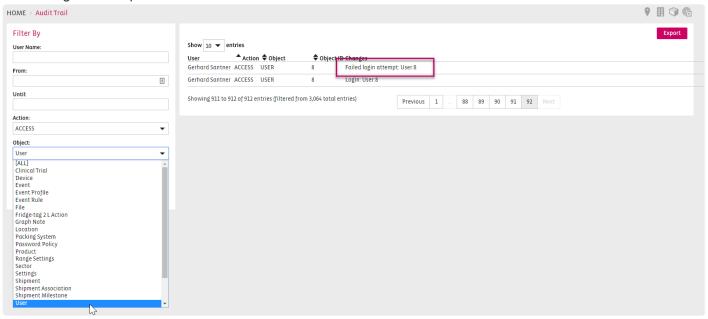
You get also an email with the notification that your login tries have failed several times.

If you have forgotten your password or your domain please refer to Forgot Password, Forgot Domain.

Failed Log in Attempts documented in Audit Trail

Failed Log In Attempts will also be documented in the Audit Trail.
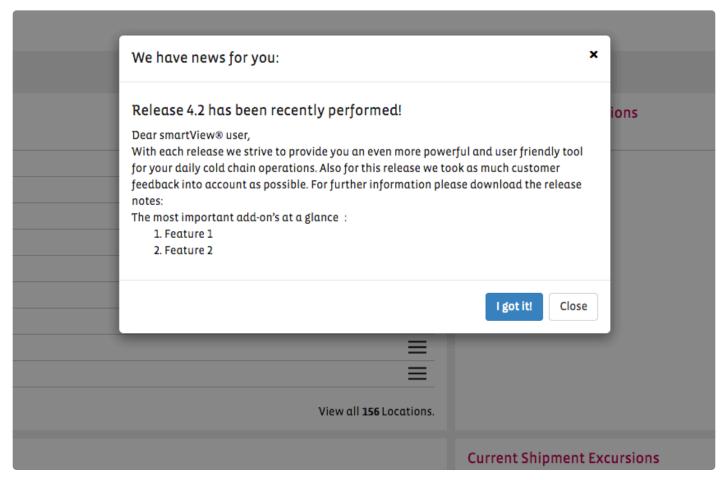
>> Information Window

2.4. Information Window
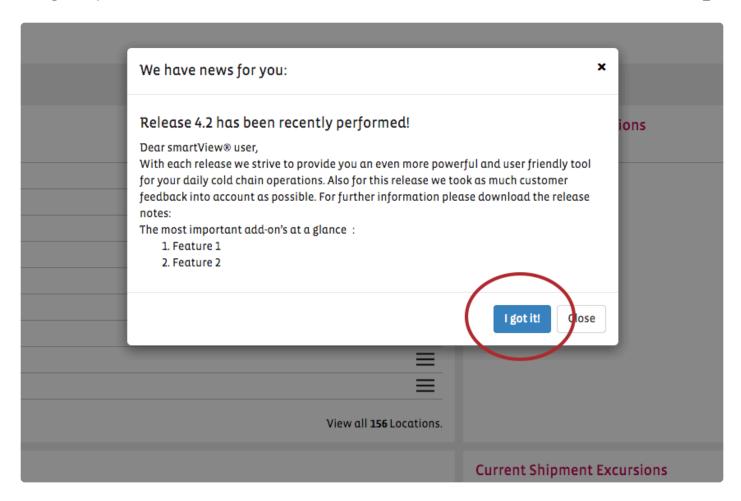
Information about upcoming updates

Beside e-mail information the smartview user will be informed with a pop up window after successful log in about new releases and other important information.

By clicking the "**I got it**" button the window will dissapear and not come again when you log in again.

We have news for you: ✖

Release 4.2 has been recently performed!

Dear smartView® user,
With each release we strive to provide you an even more powerful and user friendly tool for your daily cold chain operations. Also for this release we took as much customer feedback into account as possible. For further information please download the release notes:
The most important add-on's at a glance :
    1. Feature 1
    2. Feature 2

I got it!   Close

View all **156** Locations.

Current Shipment Excursions

✱ If the window is just closed the information will come up again with your next log in.

>> Signing in

3. General
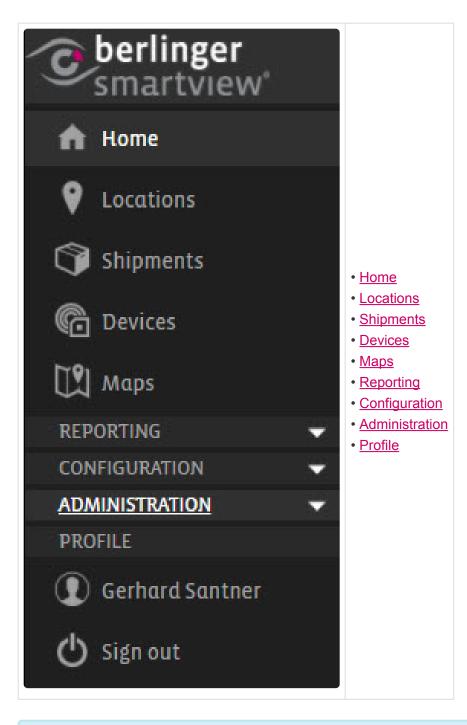
The topic General consits of the following content: 1

- The description of the smartview main menu, the use and meaning of icons and buttons.
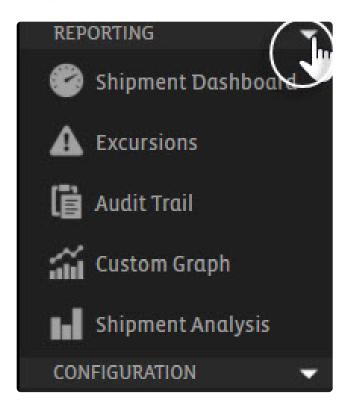
3.1. Main Menu

The following main menu items are available:

- Home
- Locations
- Shipments
- Devices
- Maps
- Reporting
- Configuration
- Administration
- Profile

✳ Not all menu options may be visible. The visibility depends on the user permission level.
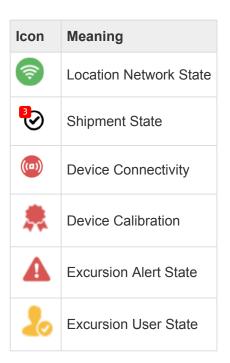
It is possible to hide/reveal some menu items which are not frequently used by users, by folding/unfolding the menu.

>> Use of Icons

3.2. Use of Icons

The following icons represent the major entities in the smartview application:

Icon	Meaning
	Location Network State
	Shipment State
	Device Connectivity
	Device Calibration
	Excursion Alert State
	Excursion User State

There are also a number of clickable icons to be identified in smartview:

Icon	Meaning
	Icon providing action options
	View more info icon

>> Use of Buttons

3.3. Use of Buttons

The use of buttons in smartview, enables you to perform certain actions:

Extract of examples for smartview buttos:

Button	Meaning	Usability
Create	**+ Create Shipment**	The create buttons allow you to create a specific entity
Upload Data Files	**+ Upload Data File**	Enables you to upload one ore more data files
PDF	**PDF**	Generates the Shipment PDF report
Modify	**✎ Modify**	Enables you to modify the details of a specific entity
Delete	**Delete**	Enables you to delete an entity
Toggle filters	**Toggle Filters**	Reveals and hides the sorting and filtering options
More options	**More Actions**	Provides additional options for the page

>> Main Menu

3.4. Glossary

Shipment The process of transferring a package from A to B can be stored in a shipment. You can think of transport by plane, truck, train, etc. During this transfer, the package will be monitored by multiple devices. The connection between devices and shipments can be made with ShipmentAssociations. A shipment can have an event profile assigned to monitor any discrepancies during transit.

SubShipment A sub-shipment is part of a larger shipment (master shipment) but can be used to split device monitoring/event profiling. You can, for example, have an "inside" and "outside" of a shipment, for monitoring inside a package and outside of a package.

Device A monitoring device which is capable of sampling temperature, humidity, light, shock or any other parameter. The data can be retrieved in multiple ways. This can either by pushed to our servers by the device itself or manually uploaded over API or through the SmartView portal.

ShipmentAssociation The link between a device and a shipment. This link contains information about the time this association was started and the time this associated ended. Any data that is coming in for that device during this period will be considered to belong to the related shipment.

Milestone A marker somewhere along the process that can indicate something special happening. (In case of a shipment it could mean that a shipment arrived at some stop-over station)

Event Profile A set of rules to monitor the data of the devices coming in. An event profile can be assigned to shipments and sectors. Any incoming data will be checked on the rules of the event profile. If it's exceeding any of those rules we will create an excursion and send an alarm (by email or SMS) to the configured users.

Excursion Whenever a violation of any of the defined event rules occurs we will create an excursion describing when a violation of that rule occurred. End users should take action based on these excursions by checking what is going on. After they checked they can either acknowledge or close an excursion by providing some information about what triggered this excursion and how it is resolved.

Root Cause A reason for why an excursion occurred. There can be various reasons why the excursion occurred, to streamline the way that excursions can be resolved we use root causes to determine what really triggered this excursion to happen.

Product A physical product that is being shipped. A product can have a set of stability rules containing alarm thresholds to determine if the product can still be used or not. This stability will be calculated against those rules, based on the samples of the connected devices (through shipment or sector associations). A product also can have storage conditions that should be met while transferring or storing this product. Those storage conditions should be seen as a global temperature range in which this product should be transferred/stored.

Storage Condition A range to define between which temperatures a product should be transferred or

stored. This range will be used in reports and graphs to indicate if a product has been outside of this 'safe' zone.

Customer This is the customer that a shipment is made for.

Location A physical location that is used to store packages. Each location consists of multiple sectors. Packages will mostly be stored for a longer time here.

Sector The actual place in the location where this package is stored. There can be sectors containing different storage conditions like a very cold fridge and a room with ambient temperature. All those different sectors will be capable of storing and monitoring a different kind of packages. Also, these packages will be monitored by an event profile to notify about any discrepancies.
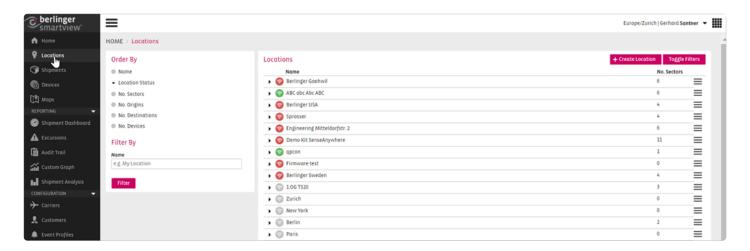
SectorAssociation To be able to monitor packages in a sector we will need devices being linked to a sector. That is where the SectorAssociation is used for. In a SectorAssociation, you can define the period a device is linked to a sector. All data from the device during this period will be used to monitor that specific sector.

4. Locations

The Locations screen provides an overview of all the Locations created in the system and indicates their network status (offline or online).

A **Location** can be:

- An Origin Location for one/more Shipments
- A Destination Location for one/more Shipments
- A Location with a monitoring network containing one/more Sectors

You can expand the bar of each particular location by clicking on the ▼ arrow to see additional information:
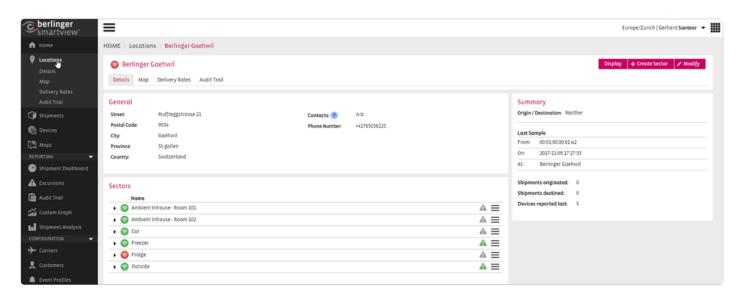
By clicking on the Location name, you will be redirected to the View page of that particular Location. In this screen, you will find the following information:

Address: address information that has been pre-defined for the Location.

Sector Overview: this sector overview provides a list of all the Sectors within the Location. The status is shown for each Sector, including the value and timestamp of the most recent measurement.

Summary: this section on the right side of the screen, displays the last measurement of a sensor from this location. It also shows information about the number of shipments originated/ destined to this location and

number of sensors reported from the location.
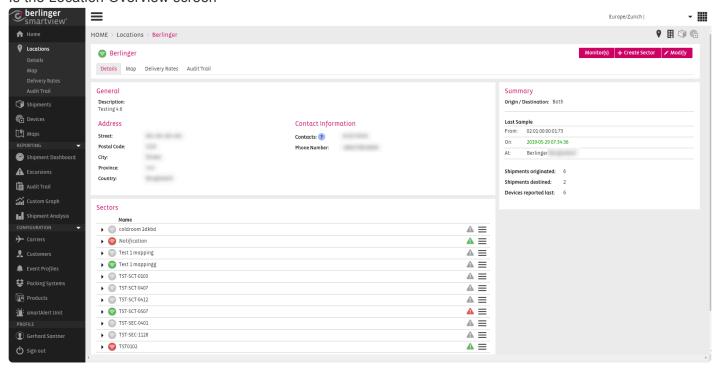
This page also provides a number of Tabs, which enable you to perform a number of actions:
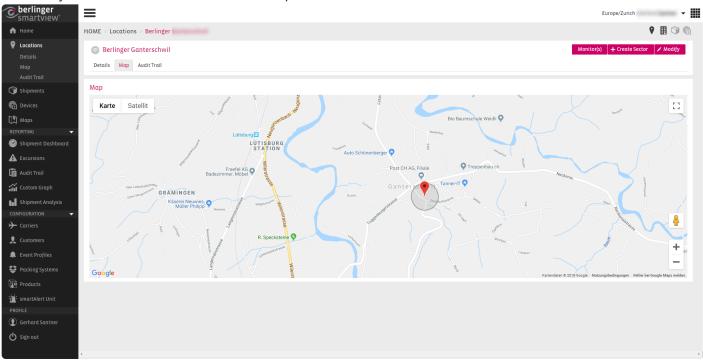
Details

Is the Location Overview screen

Map
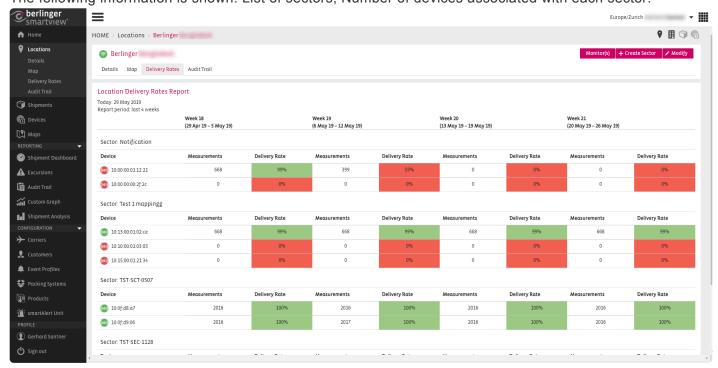
Enables you to view the Location on the Map.

Delivery Rates
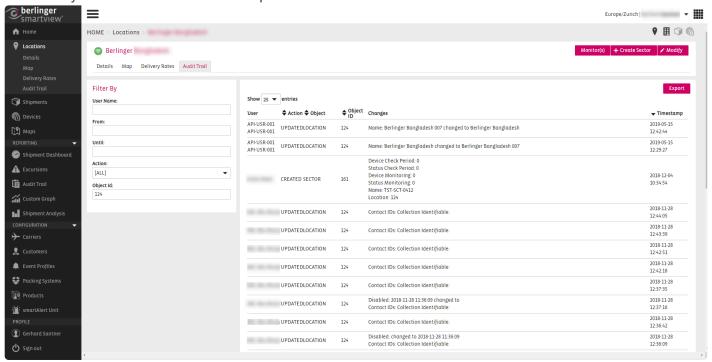
To monitor the performance of the wireless network a new Tab (Delivery Rates) to the location screen was added.

The following information is shown: List of sectors, Number of devices associated with each sector.

Audit Trail

Redirects you to the audit trail for this specific Location.

Monitors(s)

Enables the overview of all the sectors and received values in a format which can be displayed on big screens.
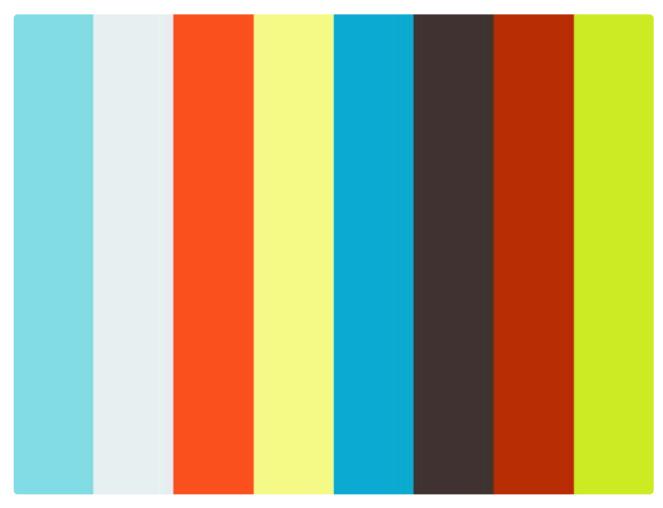
4.1. Location Icons

Icon	Meaning	Description
	Not monitored	Location is not being monitored
	Online	Network at Location is on-line, which means that data is currently be received in SmartView.
	Offline	Network at Location is offline, which means no data received for at least one hour.

4.2. Managing Locations

Create Location

To create a Location, click on the Locations tab in the main menu. This button provides you with an overview of all the existing locations in smartview.
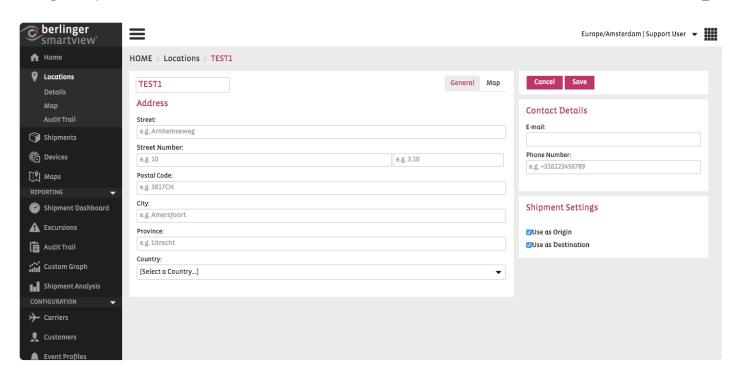
https://player.vimeo.com/video/178154041

Click on the **+ Create Location** button and choose a name for your Location.

After creating a Location, you can define optional detailed information for it, such as address, email, contact and exact position (i.e. longitude and latitude information) of the Location. Further on, if you are using SmartView for shipment monitoring, then you have the option to configure a Location to be used as an Origin and/or Destination for shipments.

Note: Provide the email address of the person responsible for the Location (e.g Location Manager). If the Network Monitoring functionality is turned on for your site, the system will use the email address to notify you in case the network of the location is found offline for more than an hour.

If you are using the SmartView for Shipment Monitoring then you will see the Shipment Settings section in the Edit Location screen (as shown in the above image). This section allows you to mark a Location for the usage of Origin and/or Destination.

If you want a Location to be used as Origins of Shipment then check the box **Use as Origin**.
If you want a Location to be used as Destinations of Shipment then check the box **Use as Destination**.
To use a Location for Origins and Destinations then check both of the options.

Modify Location

To modify a Location, click on the Modify button in the right corner.
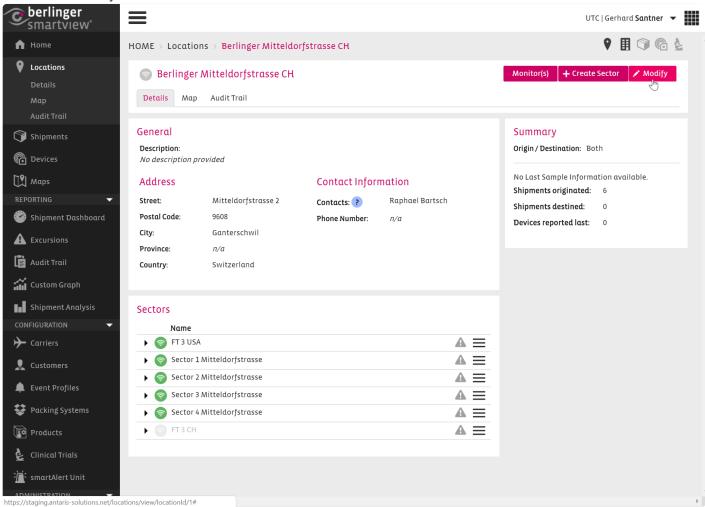
You can modify the following fields as shown on the screenshot.
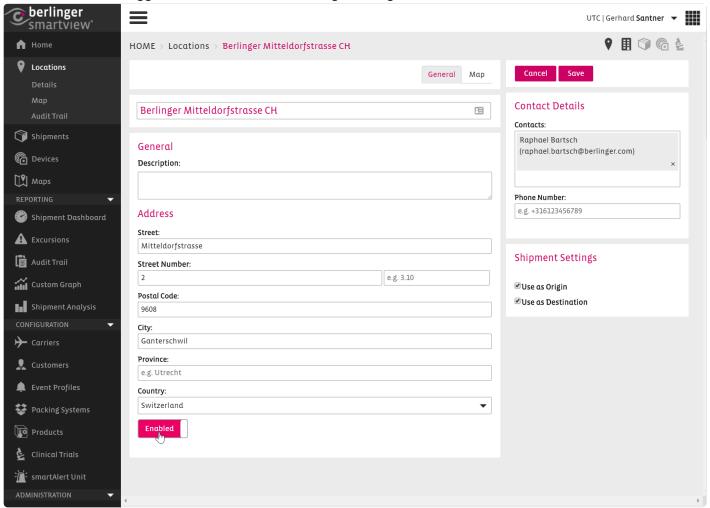
Enable/Disable Location
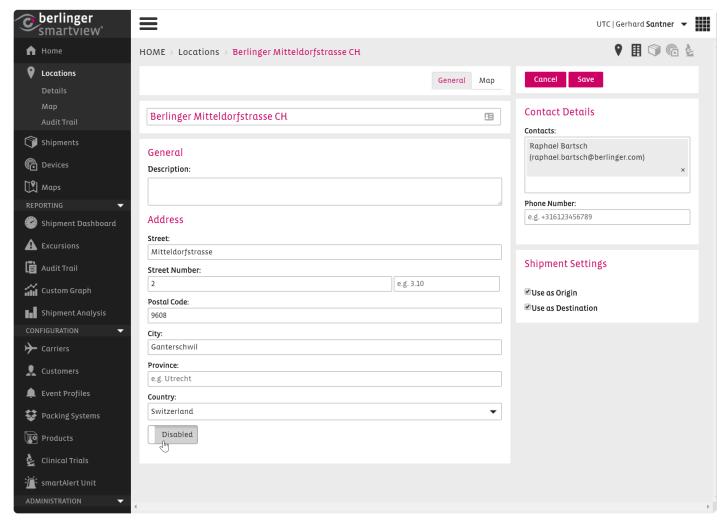
If you want to enable or disable a location use the toggle Enable/Disable on the bottom of the details tab in modify mode.

Choose to modify in the location tab.

Scroll down to the toggle Enable/Disable and change settings.

berlinger
smartview®

☰

UTC | Gerhard **Santner** ▼

HOME › Locations › Berlinger Mitteldorfstrasse CH

📍 🏢 📦 📷 ⚗️

- 🏠 Home
- 📍 **Locations**
    - Details
    - Map
    - Audit Trail
- 📦 Shipments
- 📷 Devices
- 🗺️ Maps

REPORTING ▼

- 🕐 Shipment Dashboard
- ⚠️ Excursions
- 📋 Audit Trail
- 📈 Custom Graph
- 📊 Shipment Analysis

CONFIGURATION ▼

- ✈️ Carriers
- 👤 Customers
- 🔔 Event Profiles
- 🔀 Packing Systems
- 🗃️ Products
- ⚗️ Clinical Trials
- 🚨 smartAlert Unit

ADMINISTRATION ▼

| General | Map |

Cancel   Save

Berlinger Mitteldorfstrasse CH   🪪

Contact Details

Contacts:

Raphael Bartsch
(raphael.bartsch@berlinger.com)   ✕

General

Description:

Phone Number:

e.g. +316123456789

Address

Street:

Mitteldorfstrasse

Street Number:

2   e.g. 3.10

Postal Code:

9608

City:

Ganterschwil

Province:

e.g. Utrecht

Country:

Switzerland   ▼

Disabled

Shipment Settings

☑ Use as Origin
☑ Use as Destination

Click save to save your settings.

! **A Location cannot be deleted, only disabled.**

4.3. Network Delivery Rate Report

To monitor the performance of the wireless network a new Tab (**Delivery Rates**) to the location screen was added.

**The following information are shown:**

- List of sectors
- Number of devices associacted to each sector

Per device the following information will be shown on a weekly basis for the last 4 weeks:
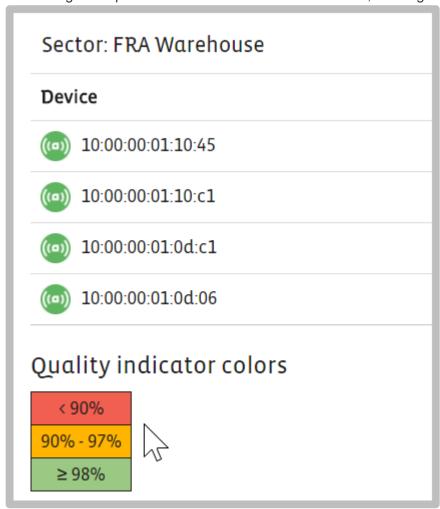
- Number of messages received
- Delivery rate in percent (%)

Measruements and Delivery rate

Measurements	Delivery Rate
668	99%
661	98%
664	98%
664	98%

Quality color indicators

The background per cell in this table will be colour-code, either green, orange, or red.

Sector: FRA Warehouse

Device

10:00:00:01:10:45

10:00:00:01:10:c1

10:00:00:01:0d:c1

10:00:00:01:0d:06

Quality indicator colors

< 90%
90% - 97%
≥ 98%
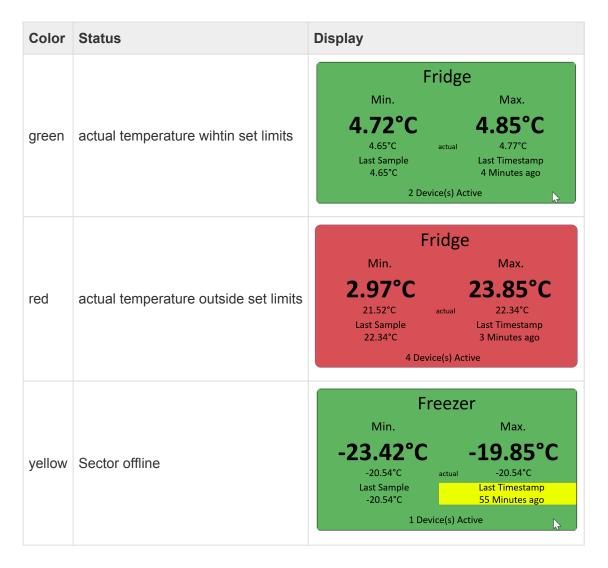
The functionality will only be available for Locations that are monitored with a network.
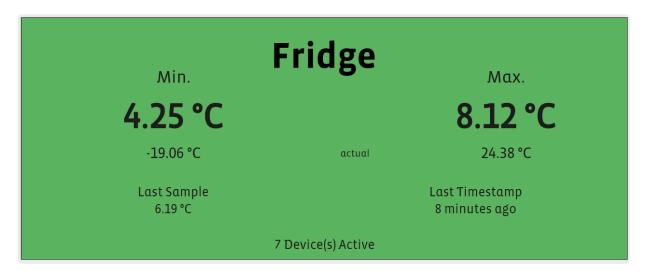
4.4. Monitor(s)

If you click on Monitor(s) you have a visual overview of all sectors within a location by color coding the individual tiles.

This view is opened in a separate window, that it can easily be shown on an external (second Screen) for monitoring purposes.

Color	Status	Display
green	actual temperature wihtin set limits	**Fridge** Min. 4.72°C (4.65°C, Last Sample 4.65°C) — actual — Max. 4.85°C (4.77°C, Last Timestamp 4 Minutes ago) 2 Device(s) Active
red	actual temperature outside set limits	**Fridge** Min. 2.97°C (21.52°C, Last Sample 22.34°C) — actual — Max. 23.85°C (22.34°C, Last Timestamp 3 Minutes ago) 4 Device(s) Active
yellow	Sector offline	**Freezer** Min. -23.42°C (-20.54°C, Last Sample -20.54°C) — actual — Max. -19.85°C (-20.54°C, Last Timestamp 55 Minutes ago) 1 Device(s) Active

Temperature Monitor Description

- The figures of the big letters (in this example 4.25°C and 8.12°C) show the minimum and the maximum measured temperature over the last 24 hours.
- The small figures above (actual) show the minimum (4.24°C) and the maximum (8.12°C) measured temperature of the last timestamp.
- The last sample indication shows the temperature of the most recent device, which is in this example 6.19°C.

4.5. Defining a geofence for a location

You can specify a geofence for a Location. Specifying geofence for a Location will allow you to get notification emails for a Shipment if its associated GPS enabled sensor (e.g.Sendum) is found to be arrived within the geofence area of the Location. Thus this functionality allows you to receive notification about a Shipment Departure from a Location and Arrival in a Location.
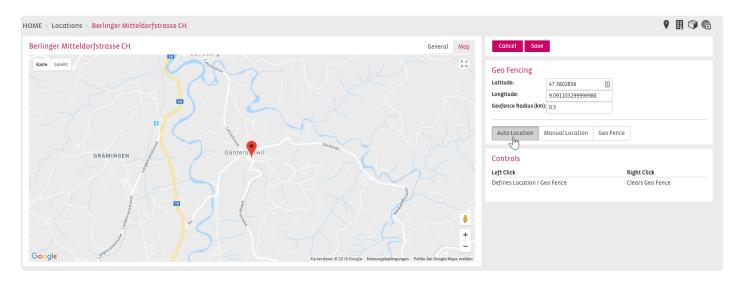
https://player.vimeo.com/video/176163701

To define the geofence for a location go to the Location menu item and click on the ✏ **Modify** button and then click on the Map tab.
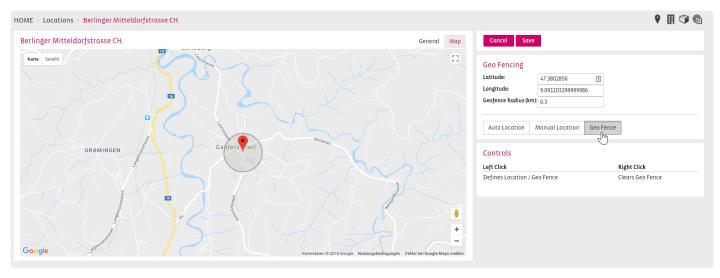
If you have defined your address already under the tab General the Latitude and Longitude will be filled out by clicking the Autolocation button.

Click on the Geofence button. The screen will show the map with location icon to which you can interact with to specify the geofence. You can define the geofence as a circular area around the location. Use the Left-click of the mouse to define the geofence in the map. As shown in the following image a circular geofence will be shown around the Location and radius of the circle will be shown in the Radius field.
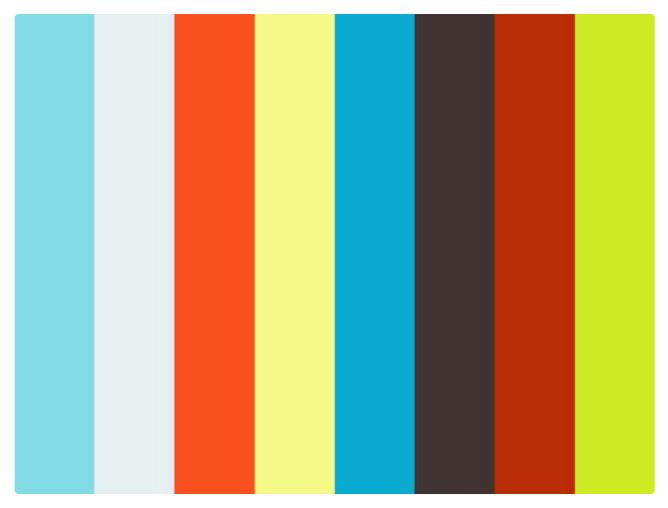
You can use the Right-click of the mouse to undefined the selected geofence and redefine the geofence. Once you have defined the right geofence click on the Save button to save the changes.

5. Sectors

Sectors for Devices

Create a Sector
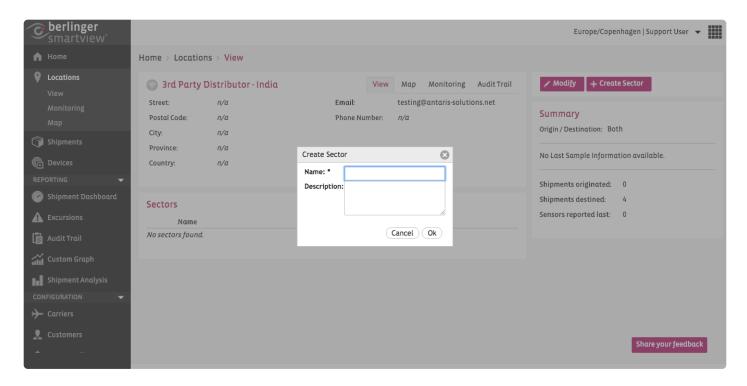
https://player.vimeo.com/video/177224532

To create a Sector, click on the Create Sector button in the Location:

Choose a name for your Sector and/or a description and click ok:
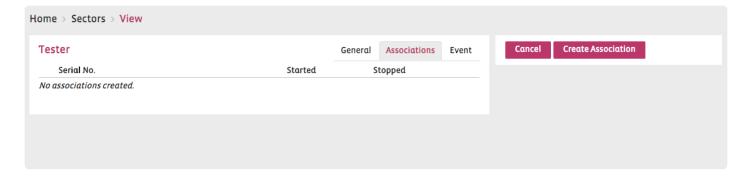
Modify Storage Conditions
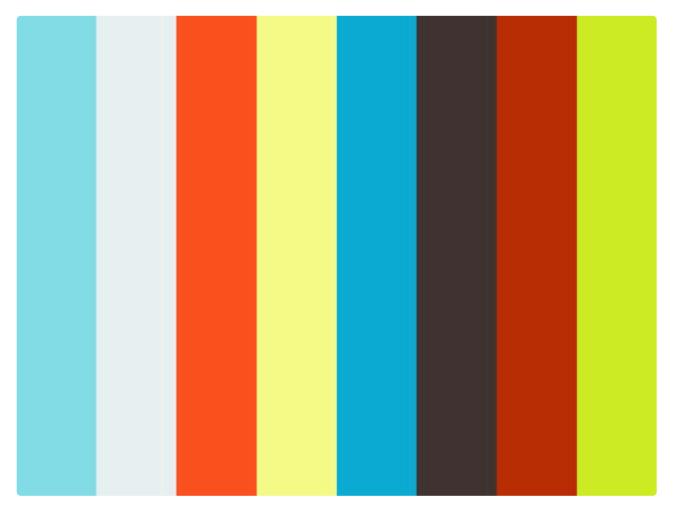
You can choose a Storage Condition for your sector which you have predefined under Site Settings / Storage Conditions.

Add a Device Association to a Sector

Choose the Sensors that you would like to Associate to the Sector, by clicking on the Associations Tab – then click on the Create Association button:

Home > Sectors > View

Tester   General | Associations | Event   Cancel   Create Association

Serial No.	Started	Stopped

No associations created.

https://player.vimeo.com/video/178156803

After creating a sector, you can associate a Device to it by clicking on the [Create Association] as shown in the following image:

	Europe/Amsterdam	Support User ▼

HOME › Locations › Sectors › ABC

ABC General **Associations** Event

Serial No.	Started	Stopped

No associations created.

Cancel **Create Association**

Create Association

Serial No.

Device Type

Description

Start Date
2016-03-01 10:12:37

Stop Date

Save

Click in the Serial No. field to choose your Device for the Sector.

Devices

Serial No./Name:	Type:	State:	Association:	Created Date:
	[Select a Type...] ▼	Enabled ▼	Free ▼	

Filter

Show 10 ▼ entries

	▲ Serial No.	◆ Name	◆ Last Location	◆ Timestamp
	10:00:00:00:2b:7e		n/a	13 minutes ago
	10:00:00:00:2b:81		n/a	2 months ago
	10:00:00:01:07:bd		n/a	15 minutes ago
	10:00:00:01:0d:19		n/a	1 day ago
	10:00:00:01:0d:c4		n/a	9 minutes ago
	10:00:00:01:11:70		n/a	1 month ago
	10:00:00:01:14:84		n/a	14 minutes ago

Close

Select or modify the Start Date and click on **Save**

You can repeat this process for as many Devices as you would like to add to your Sector.

Add an Event Profile to Sector
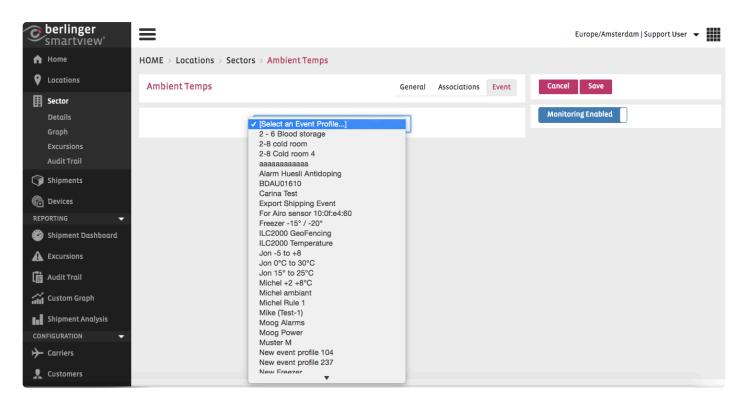
https://player.vimeo.com/video/177236014

Before adding an Event Profile to the sector, make sure you have created a profile with appropriate event rules.

Adding an Event Profile to a Sector can be done from the Modify screen of the Sector. Click on the "Event" tab in the Modify screen:

Click on the Monitoring button to enable Event Monitoring and select "created": Event Profile from the dropdown list:

Click on **Save** to save your changes.

Notification if the network is offline

The Customer (Site Contact) will receive a notification in any case if the network is offline for more than 60 minutes.
If the notification is turned on by default it cannot be changed in the backend of SmartView. Please contact support@berlinger.com if you want to turn OFF/ON network notification at all.

Add a Notification for a Location

If a Sector of a Location is offline the contact person of the location will be notified per Mail (eg. people on site)

You can modify users (add and remove) on the right by pressing the button to modify.

Add or remove Users from the notification list

Cancel   Save

Contact Details

Users:

Gerhard Santner (gerhard.santner@berlinger.com)   ×

Type in a search term

e.g. +316123456789

Shipment Settings

☑ Use as Origin
☑ Use as Destination

Notification for a sector

When sector offline monitoring is enabled SmartView will send e-mail notifications to SmartView users. This functionality can be configured for each sector, including time interval and recipients. Press Modify on the right.

☰   UTC | Gerhard **Santner** ▾   ⊞

HOME › Locations › Sectors › FRA Cool Room +2/+8°C

📶 **FRA Cool Room +2/+8°C** (FRA (Frankfurt))   PDF   Delete   ✎ Modify

Details   Graph   Statistics   Excursions   Audit Trail

General

Description: **Power Status:**   n/a
No description provided.

Sector Offline Monitoring:
❓   Yes. Notify Recipients when all devices received no data for 20 hours

Device Offline Monitoring: Yes. Notify Recipients when any device received no data for 12 hours

Notification Recipients: Alona Yahoo mail

Sector Summary   ▸

Sensor	Min	Max
Temperature	19.22 °C	19.78 °C

Event Settings   ▾

No Event Settings are currently enabled.

Associations   ▸

NOTE: Users have to set up these notifications for their Sectors to benefit from this functionality.

Notification for a device

When no device measurements are received from the sector for the user-defined period.
This functionality can be configured for each sector, including time interval and recipients.

The notification for devices can be set ON or OFF.
If it is ON the notification will be sent to the user-defined above within the notification recipients.

Location User question mark – This user(s) will be used for the location offline/online notifications.

Modify a Sector

If you want to change entries in a Sector, click Modify on the right side.

You can modify all entries which you have put in when creating the Sector.

Reason for change

If the "Reason for Change" has been enabled by the Admin in the site settings then all changes made to sectors will require the user to provide the reason for the change.
This information will be visible in the Audit Trail.

Provide a reason for changes   ✕

Reason for change:

The description had changed.

* Please provide a reason with minimum 3 and maximum 255 characters long

Cancel   Ok

Enable/Disable a Sector

If you want to enable or disable a sector use the toggle Enable/Disable on the bottom of the details tab in modify mode.

Choose to modify in the sector tab

Scroll down to the toggle Enable/Disable and change settings.

HOME › Locations › Berlinger Mitteldorfstrasse CH

UTC | Gerhard **Santner** ▼

Home
Locations
Details
Map
Audit Trail
Shipments
Devices
Maps

REPORTING ▼

Shipment Dashboard
Excursions
Audit Trail
Custom Graph
Shipment Analysis

CONFIGURATION ▼

Carriers
Customers
Event Profiles
Packing Systems
Products
Clinical Trials
smartAlert Unit

ADMINISTRATION ▼

General | Map

Cancel | Save

Berlinger Mitteldorfstrasse CH

General

Description:

Address

Street:

Mitteldorfstrasse

Street Number:

2 | e.g. 3.10

Postal Code:

9608

City:

Ganterschwil

Province:

e.g. Utrecht

Country:

Switzerland ▼

Enabled

Contact Details

Contacts:

Raphael Bartsch
(raphael.bartsch@berlinger.com)
×

Phone Number:

e.g. +316123456789

Shipment Settings

☑ Use as Origin
☑ Use as Destination

Click save to save your settings.

! A Sector cannot be deleted, only disabled.

5.1. Icons

Icon	Meaning	Description
	Not monitored	Sector has no active Associations.
	Online	Network at Sector is online, which means that data is currently being received in SmartView.
	Offline	Network at Sector is offline, which means no data received for at least one hour.
	No Monitoring	Sector currently has Event Monitoring enable.
	OK	Sector currently has no active excursion or warning.
	Warning	Sector has an active Warning, but no Excursion.
	Excursion	Sector has at least an active Excursion.

5.2. Details

The following overview of information and buttons is shown when you navigate to the Sector Details Page. You can reach the Sector of a Location by clicking on a Location and then **choose a defined Sector** of a Location.
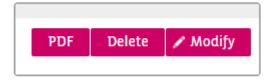
Tabs and buttons on the Sector Details page

The overview of the Sector Detials page contains the following tabs.
Details, Graph, Statistics, Excursions, Audit Trail, Clilnic Trial (optional)

On the right side following buttons are available:

Displayed information on the Sector Details page:

General

- Description of the Sector

- Sector Offline Monitioring: Yes/NBo
- Power Status: n/a

Associations
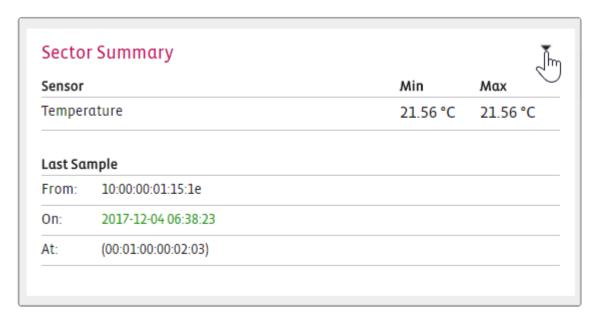
Which Device has been associated to the Sector.

- Started on:
- Stopped at:

With a click on the triangle you gather information of the associated device:

● **10:00:00:01:15:1e** (smartPoint)			
Association Details:	*No association details provided.*	Temperature	▶
Started on:	2017-11-06 08:57:22	RF Strength	▶
Stopped at:	*n/a*		
Duration:	27 days 21:51:34		
Last Message:	2017-12-04 06:38:23		

Sector Summary

Sector Summary

Sensor	Min	Max
Temperature	21.56 °C	21.56 °C

Last Sample

From:	10:00:00:01:15:1e
On:	2017-12-04 06:38:23
At:	(00:01:00:00:02:03)

Event Settings

Event Settings

No Event Settings are currently enabled.

5.3. Graph

Overview

Settings

Period: Choose the time period which should be displayed

Sensor Type: Choose the tyepe of sensor which should be shown on the graph if available

Sensor Type

Temperature ▼

Temperature
RF Strength

Graph

Displays the graph with the following settings:

1 h ⚙ 📊 ☰

Show the Behavior of the last hour on the graph

1 h ⚙ 📊 ☰

Show 1 hour

Choose a temperature range for the y-scale graph view

1 h ⚙ 📊 ☰

Open graph settings

Graph Settings   ⊗

Choose range for y-scale

0°C to 40°C (0.00°C - 40.00°C)   ▼

[Select range...]
0°C to 25°C (0.00°C - 25.00°C)
0°C to 40°C (0.00°C - 40.00°C)
Fridge (0.00°C - 10.00°C)
Freezer (-25.00°C - 0.00°C)
Ambient (10.00°C - 30.00°C)
-10 to +50°C (-10.00°C - 50.00°C)

Export CSV File

| 1h | ⚙ | 📗 | ≡ |

Download as CSV

Print Chart or Download different images types for presentations

| 1h | ⚙ | 📗 | ≡ |

Print chart

Download PNG image
Download JPEG image
Download SVG vector image
Download PDF document
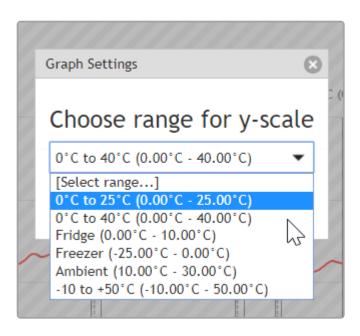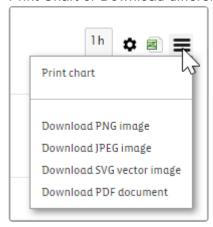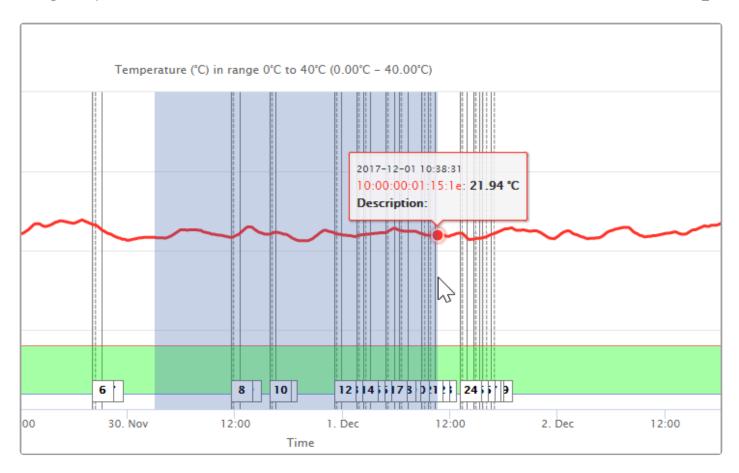
Choose (mark) x-scale of graph view
By cklicking in to the graph, holding down the left mouse button, dragging along the x-scale and releasing the mouse button you can zoom in into the part you have choosen.

Press the Reset zoom button to get back to the initial position

5.4. Statistics

Sector statistics are available for temperature and humidity (if data logger is available to measure humidity)

Settings

Period:

Excursion Time

	Association Duration	Time (%) In Range	Time (%) Out of Range	Time (%) Temperature < 2.00 °C (35.60 °F)	Time (%) Temperature > 8.00 °C (46.40 °F)
10:00:00:01:15:1e	168h:00m	00h:15m (0%)	167h:44m (100%)	00h:00m (0%)	167h:44m (100%)
Sum of Measurements	168h:00m	00h:15m (0%)	167h:44m (100%)	00h:00m (0%)	167h:44m (100%)
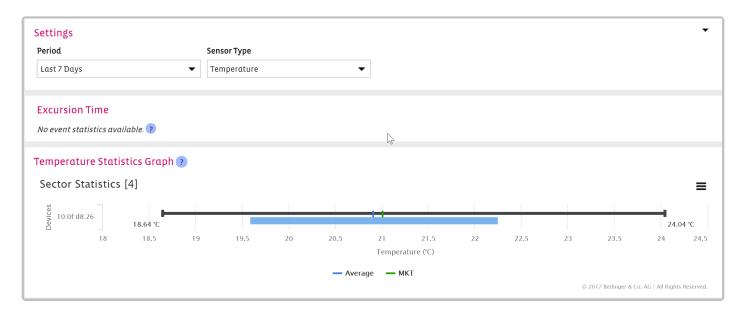
Sector Statistics Temperature

Settings ▾

Period	Sensor Type
Last 7 Days ▾	Temperature ▾

Excursion Time

No event statistics available. ⓘ

Temperature Statistics Graph ⓘ

Sector Statistics [4] ☰

Devices 10:0f:d8:26

18.64 °C   24.04 °C

18   18.5   19   19.5   20   20.5   21   21.5   22   22.5   23   23.5   24   24.5

Temperature (°C)

— Average   — MKT

Sector Statistics Humidity
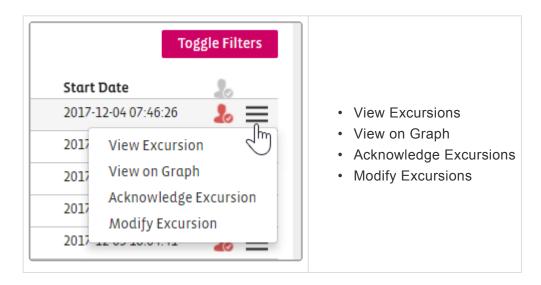
Settings ▾

Period	Sensor Type
Last 7 Days ▾	Humidity ▾

Temperature
Humidity

Excursion Time

No event statistics available. ⓘ

Humidity Statistics Graph

Sector Statistics [4] ☰

Devices 10:0f:d8:26

33.70 %   36.50 %

33.4   33.6   33.8   34   34.2   34.4   34.6   34.8   35   35.2   35.4   35.6   35.8   36   36.2   36.4   36.6   36.8

Humidity (%)

— Average   — MKT

Temperature Statistics

Temperature Statistics

Device	# Samples	Minimum	Average	STD	MKT	Maximum
10:00:00:01:15:1e	661	20.69 °C	22.36 °C	0.63 °C	22.39 °C	24.12 °C
Grand Total	661	20.69 °C	22.36 °C	0.63 °C	22.39 °C	24.12 °C

5.5. Excursions

Excursions

Sector ID, Type, Name, Event Rule, Root Cause, Action, Start, End, The User state of an excursion

On the right side behind the tribar button you can directly:

- View Excursions
- View on Graph
- Acknowledge Excursions
- Modify Excursions
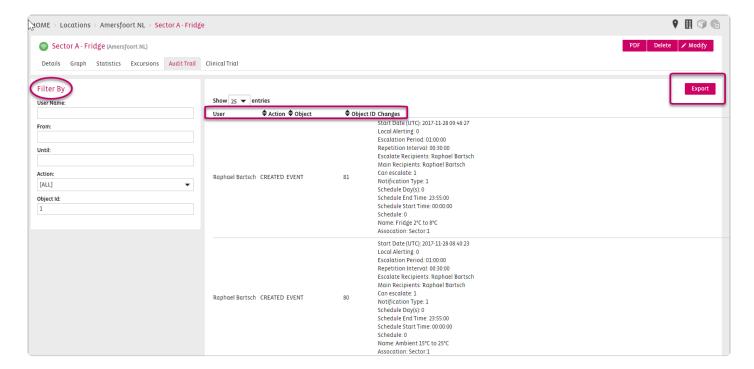
5.6. Audit Trail

Audit Trails can be **filtered** on the left side and be **exported** with the button on the right side.
In between you can see the information: **User, Action, Object, Object ID, Changes**
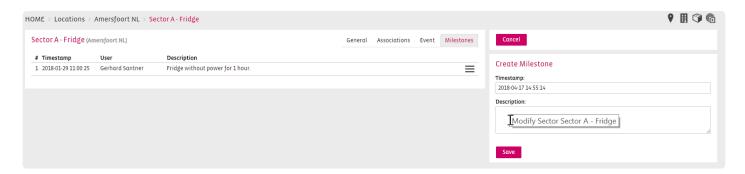
5.7. + Milestone for Sectors

SmartView allows a user to document a useful information related to a specific sector by allowing the user to add a milestone to the sector.

For example, to document an event of a sector (eg. sector offline) a user can add a milestone "Fridge without power for one hour".

To create a milestone go to the Sector and click on the [+ Milestone] button. Under this tab you can see all the milestones related to this sector that have already been defined or add new Milestones if necessary.

- Select the date and time of the milestone in the Date field

- Provide a short description for the milestone and click the [Save] button.
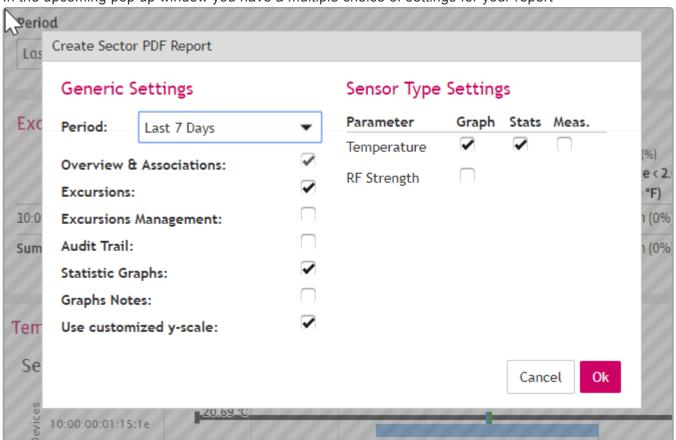
You can visualise your milestones both on the Sector Graph and on the Sector PDF report.

5.8. PDF Report for Sectors

To create a customized Sector Report click on the PDF button on the right

In the upcoming pop up window you have a multiple choice of settings for your report
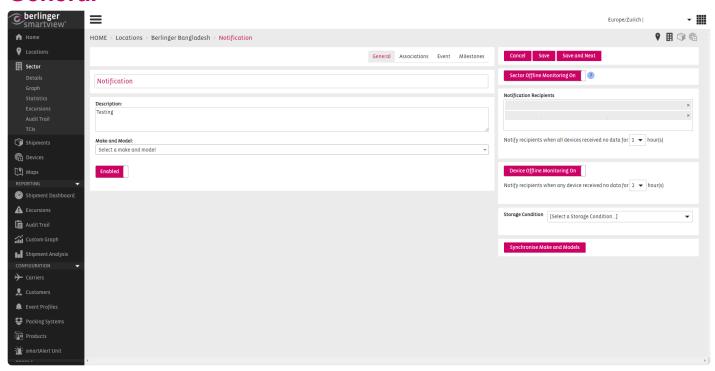
> ✳ The Period will be automatically taken from the time period setting in Graph or Statistics tab. In this case 7 days.

5.9. Modify a Sector

You can modify the following settings in a sector:

- General
- Associations
- Event
- Milestones

General

When sector offline monitoring is enabled, SmartView will send an email notification when no device measurements have been received from the sector for the user-defined period. Sector offline monitoring is independent of the device association start date.
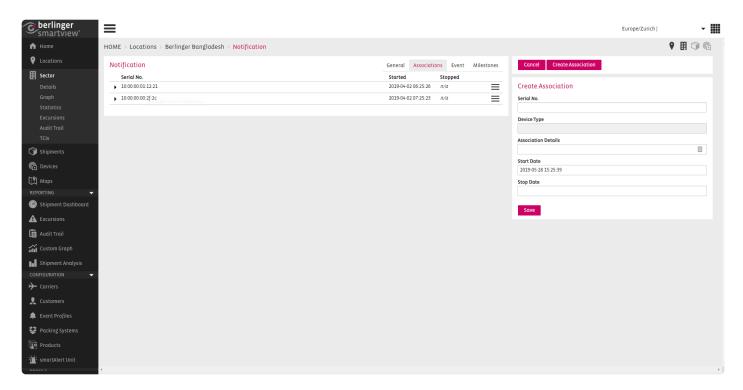
Device offline monitoring means that even if a single device appears offline, a notification is sent. Who will be notified? The Users defined in the notification recipients will receive an e-mail notification.

When will the notification be sent? Users will receive the email notification within one hour after SmartView has detected that the sector is offline. Another notification will be sent once SmartView detects that the Sector is online again.

Associations
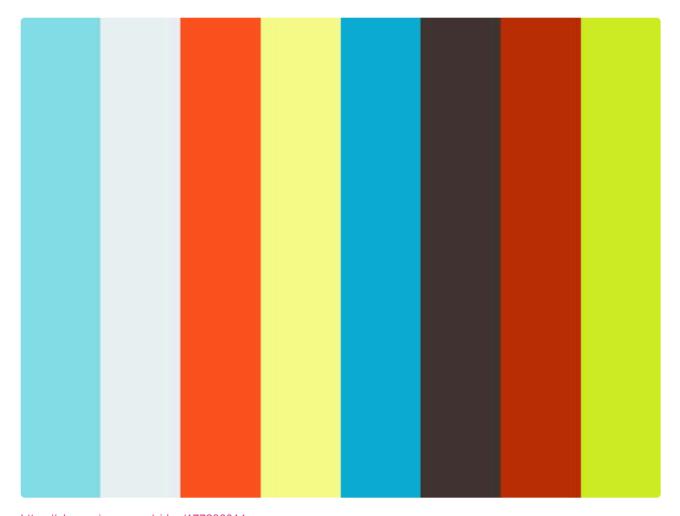
Click into the field Serial No. and a Pop-Up window with all your devices will occur. Select the devices you want to associate to your Sector.

Click close in the Pop-Up window and then click save to add the device(s) to the list.

Event

To add an Event Rule to your sector, click Monitoring Enabled first. Then you can choose the predefined Event Rule from the list:
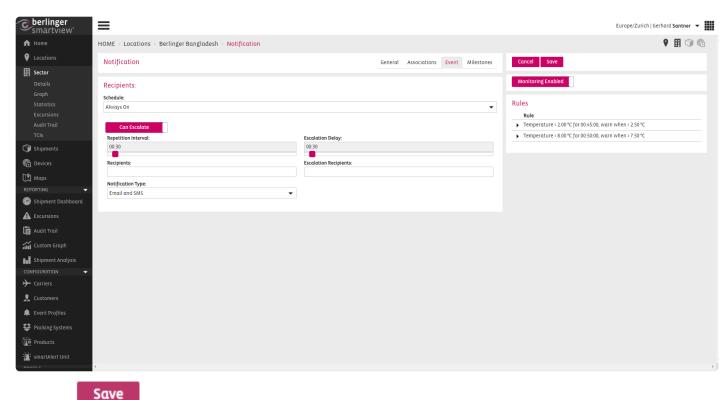
https://player.vimeo.com/video/177236014

https://player.vimeo.com/video/177236014

Before adding an Event Profile to the sector, make sure you have create an Event Profile with appropriate event rules.

Adding an Event Profile to a Sector can be done from the Modify screen of the Sector. Click on the "Event" tab in the Modify screen:

Click on the Monitoring button to enable Event Monitoring and select a created Event Profile from the dropdown list:
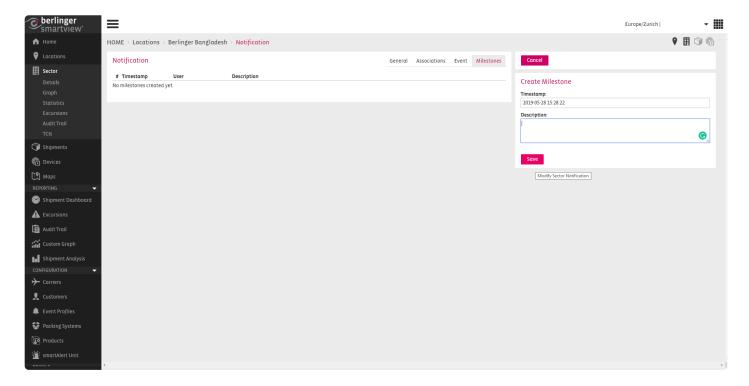
Click on to save your changes.

Milestones

Creating a Milestone for the Sector if an important issue happened can be put in here:

5.10. Network Offline Notifications
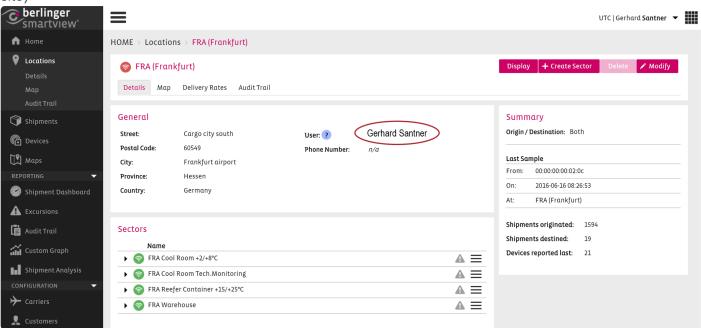
Notification if the network is offline

The Customer (Site Contact) will receive a notification in any case if the network is offline for more than 60 minutes.
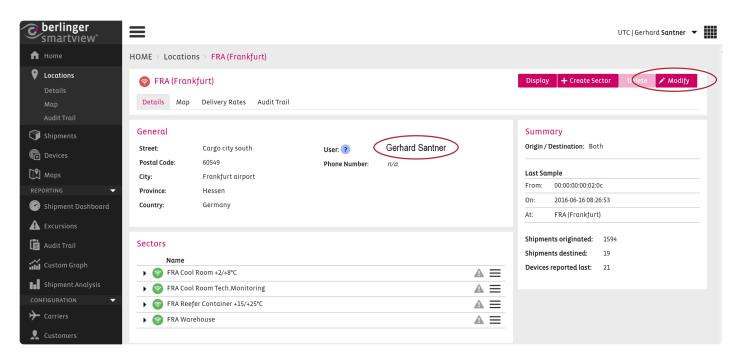
If the notification is turned on by default it cannot be changed in the backend of smartview. Please contact support@berlinger.com if you want to turn OFF/ON network notification at all.

Notification for a location
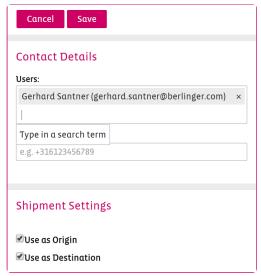
If a Sector of a Location is offline the contact person of the location will be notfied per Mail (eg. people on site)

You can modify users (add and remove) on the right by pressing the button modify.

Add or remove Users from the notification list

Notification for a sector

When sector offline monitoring is enabled smartview will send e-mail notifications to smartview users. This functionality can be configured for each sector, including time interval and recipients. Press Modify on the right.

UTC | Gerhard **Santner** ▼

HOME › Locations › Sectors › FRA Cool Room +2/+8°C

🛜 **FRA Cool Room +2/+8°C** (FRA (Frankfurt))   PDF   Delete   ✏ Modify

Details   Graph   Statistics   Excursions   Audit Trail

General

Description: Power Status: *n/a*
No description provided.

Sector Offline Monitoring:
?   Yes. Notify Recipients when all devices received no data for 20 hours

Device Offline Monitoring:Yes. Notify Recipients when any device received no data for 12 hours

Notification Recipients: Alona Yahoo mail

Sector Summary   ▶

Sensor	Min	Max
Temperature	19.22 °C	19.78 °C

Event Settings   ▼

No Event Settings are currently enabled.

Associations   ▶

Cancel   Save   Save and Next

Sector Offline Monitoring On   ?

Notification Recipients

Gerhard Santner (gerhard.santner@berlinger.com)   ×

Notify recipients when all devices received no data for

20 ▼ hour(s)

Device Offline Monitoring On

Notify recipients when any device received no data for

12 ▼ hour(s)

NOTE:Users have to set up these notifications for their Sectors to benefit from this functionality.

Notification for a device

When no device measurements are received from the sector for the user-defined period.
This functionality can be configured for each sector, including time interval and recipients.

Cancel   **Save**   **Save and Next**

Sector Offline Monitoring On   ?

Notification Recipients

Gerhard Santner (gerhard.santner@berlinger.com)   ×

Notify recipients when all devices received no data for

20 ▼ hour(s)

Device Offline Monitoring On

Notify recipients when any device received no data for

12 ▼ hour(s)

The notification for devices can be set ON or OFF.

If it is ON the notification will be sentd to the user defined above within the notification recipients.

Location User question mark – This user(s) will be used for the location offline/online notifications.

FRA (Frankfurt)

Details   Map   Delivery Rates   Audit Trail

General

Street:	Cargo city south	**User:** ?	Alona Parkhomenko
Postal Code:	60549	**Phone Number:**	*n/a*
City:	Frankfurt airport		
Province:	Hessen		
Country:	Germany		

5.11. Sectors for Manual Data
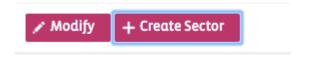
Create a Sector Manual Data
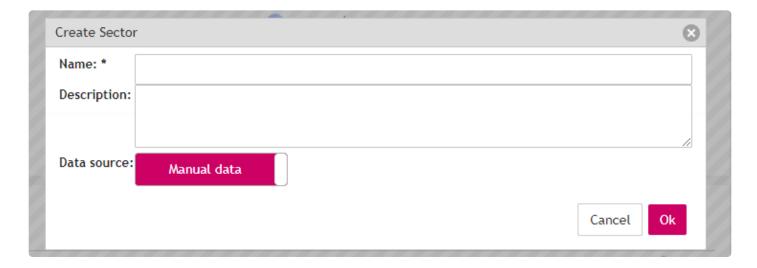
> ❗ Setting up the sector for Manual Data entries can not be undone

Enter the Location in which you which you wish to create a new sector.There on the top right corner the Create Sector button can be found.
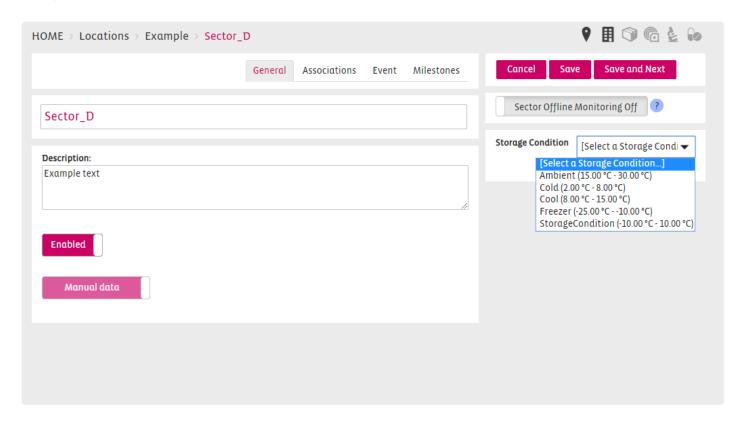
To create a Sector, click on the Create Sector button:

Choose a name for your Sector, a description(optional) and select Manual Data, then click ok:

Modify Storage Conditions
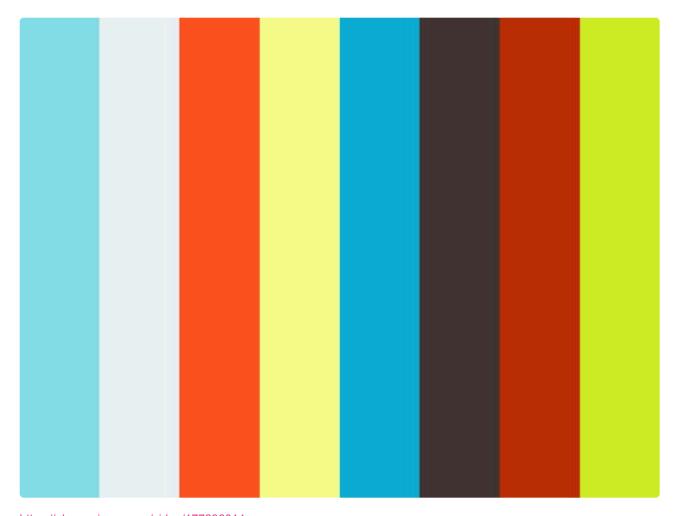
You can choose a Storage Condition for your sector which you have predefined under Site Settings / Storage Conditions.

Associations to a Sector

The system will automatically generate a virtual device for the sector. It's not possible to conduct any changes in the associations tab of the sector settings.

Add an Event Profile to Sector

https://player.vimeo.com/video/177236014

https://player.vimeo.com/video/177236014

https://player.vimeo.com/video/177236014

Before adding an Event Profile to the sector, make sure you have created a profile with appropriate event rules.

Adding an Event Profile to a Sector can be done from the Modify screen of the Sector. Click on the "Event" tab in the Modify screen:

Click on the Monitoring button to enable Event Monitoring and select "created": Event Profile from the dropdown list:

Sector_D				General	Associations	Event	Milestones

Cancel | Save

[Select an Event Profile…]

[Select an Event Profile…]
Test profile

Monitoring Enabled
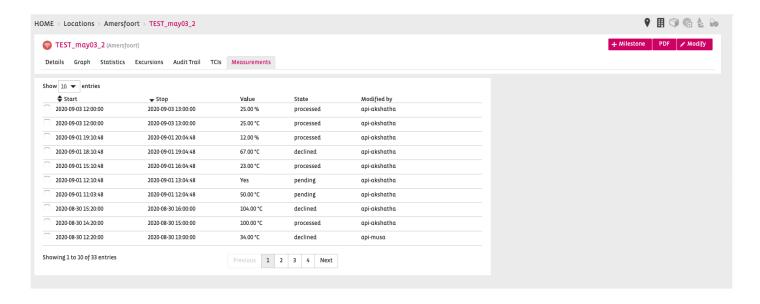
Click on **Save** to save your changes.

General view of the sector

For the manual data sector a new tab will be visible with the name measurements.

Sector_D (Example)

+ Milestone | PDF | Modify

Details | Graph | Statistics | Excursions | Audit Trail | TCIs | **Measurements**

General

Description:
Example text

Power Status: n/a

Sector Offline Monitoring: (?) No.

Data source: Manual data

Sector Summary

Sensor | **Min** | **Max**
No Last Sample Summary Information available.

Event Settings

Storage Conditions

Milestones

Associations

Started on: 2020-10-11 11:22:42
Stopped at: n/a

VirtDev18 (Manual Data Virtual Device)

In this tab the manual added data will be listed in a table with one of 3 different states.

HOME > Locations > Amersfoort > TEST_may03_2

TEST_may03_2 (Amersfoort)

+ Milestone | PDF | Modify

Details | Graph | Statistics | Excursions | Audit Trail | TCIs | **Measurements**

Show 10 entries

Start	Stop	Value	State	Modified by
2020-09-03 12:00:00	2020-09-03 13:00:00	25.00 %	processed	api-akshatha
2020-09-03 12:00:00	2020-09-03 13:00:00	25.00 °C	processed	api-akshatha
2020-09-01 19:10:48	2020-09-01 20:04:48	12.00 %	processed	api-akshatha
2020-09-01 18:10:48	2020-09-01 19:04:48	67.00 °C	declined	api-akshatha
2020-09-01 15:10:48	2020-09-01 16:04:48	23.00 °C	processed	api-akshatha
2020-09-01 12:10:48	2020-09-01 13:04:48	Yes	pending	api-akshatha
2020-09-01 11:03:48	2020-09-01 12:04:48	50.00 °C	pending	api-akshatha
2020-08-30 15:20:00	2020-08-30 16:00:00	104.00 °C	declined	api-akshatha
2020-08-30 14:20:00	2020-08-30 15:00:00	100.00 °C	processed	api-akshatha
2020-08-30 12:20:00	2020-08-30 13:00:00	34.00 °C	declined	api-musa

Showing 1 to 10 of 33 entries

Previous | 1 | 2 | 3 | 4 | Next

The 3 different states are as follow:

State	Meaning
Pending	Data was entered
Approved/declined	Data was peer reviewed
Processed	Data handled by Smartview
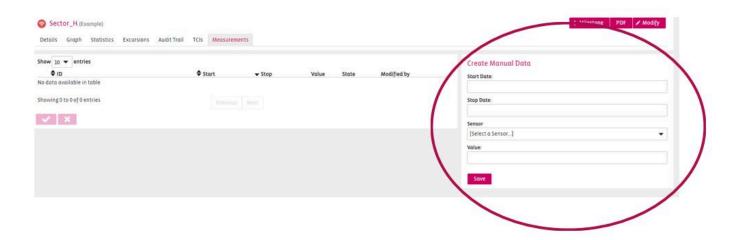
Also visible in the table is the user responsible for the last change of state. Information of all changes with the responsible users can be found in the PDF report for the sector.

✳ Items are marked per default as pending data and have to be approved before the system can handle them. Only approved data is processed.

Adding manual data

A Manual data entry can be created on the right side of the measurement window
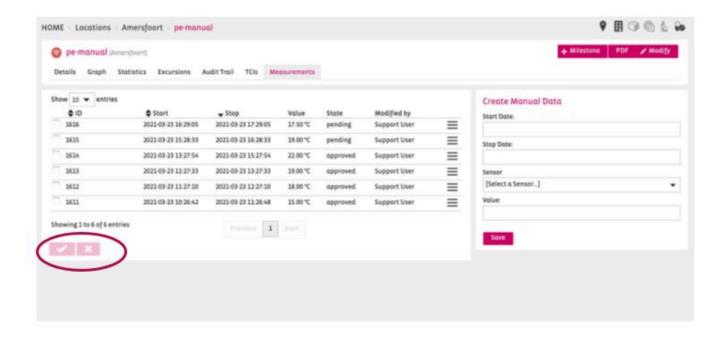
Approving/declining Data
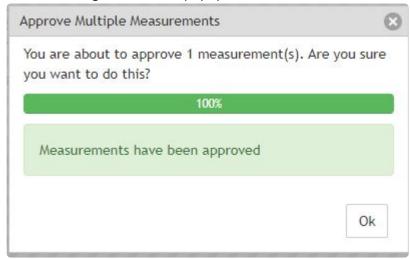
! The approval of the data has to be done in chronological order.

! The data has to be approved before it can be used by the system.

The entered data can be approved on the bottom left side of the measurement window.

After selecting the action a popup will confirm if the action as successful

Notification if the network is offline

The Customer (Site Contact) will receive a notification in any case if the network is offline for more than 60 minutes.
If the notification is turned on by default it cannot be changed in the back-end of SmartView. Please contact support@berlinger.com if you want to turn OFF/ON network notification at all.

Add a Notification for a Location

If a Sector of a Location is offline the contact person of the location will be notified per Mail (eg. people on site)

You can modify users (add and remove) on the right by pressing the button to modify.

Add or remove Users from the notification list

Notification for a sector

When sector offline monitoring is enabled SmartView will send e-mail notifications to SmartView users. This functionality can be configured for each sector, including time interval and recipients. Press Modify on the right.

NOTE: Users have to set up these notifications for their Sectors to benefit from this functionality.

Notification for a device

When no device measurements are received from the sector for the user-defined period.
This functionality can be configured for each sector, including time interval and recipients.

The notification for devices can be set ON or OFF.
If it is ON the notification will be sent to the user-defined above within the notification recipients.

Location User question mark – This user(s) will be used for the location offline/online notifications.

Modify a Sector

If you want to change entries in a Sector, click Modify on the right side.

You can modify all entries which you have put in when creating the Sector.

Reason for change

If the "Reason for Change" has been enabled by the Admin in the site settings then all changes made to sectors will require the user to provide the reason for the change.
This information will be visible in the Audit Trail.

Provide a reason for changes   ⊗

Reason for change:

The description had changed.|

* Please provide a reason with minimum 3 and maximum 255 characters long

Cancel   Ok

Enable/Disable a Sector

If you want to enable or disable a sector use the toggle Enable/Disable on the bottom of the details tab in modify mode.

Choose to modify in the sector tab

UTC | Gerhard Santner

PDF   Delete   ✎ Modify

Scroll down to the toggle Enable/Disable and change settings.

HOME › Locations › Example › Sector_D

General   Associations   Event   Milestones   Cancel   Save   Save and Next

Sector Offline Monitoring On   ?

Sector_D

Notification Recipients

Description:
Example text   Notify recipients when all devices received no data for 4 ▾ hour(s)

Enabled

Device Offline Monitoring On

Manual data   Notify recipients when any device received no data for 10 ▾ hour(s)

Storage Condition Cold (2.00 °C - 8.00 °C)   ▾

Click save to save your settings.

> ❗ A Sector cannot be deleted, only disabled.

6. Shipments

The Shipments page provides an overview of all the Shipments is SmartView: active, pending, idle or completed.

The Overview list also contains details about the Shipment, such as Shipment ID, Product, Origin, Destination, etc.)

You can "**create a shipment"** and take **"More Actions"** like export the list to CSV or Add to Analysis (one or more Shipments must be selected)

Create a Shipment Analysis Report:

Shipment Filters

Go to Shipment overview and choose AIR as a transport method and the following list will appear:

HOME › Shipments

Filter By

Name:

010173

From:

Until:

Transport Method:

Air ▼

Carrier:

[Select a Carrier...] ▼

Flight Code:

GTI606

Flight Date:

Once Flight Date is set, From and Until filters will be ignored.

State:

[All] ▼

Product:

[Select a Product...] ▼

Clinical Trial:
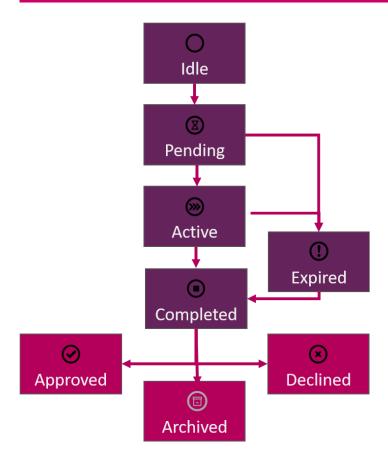
✳ Their are two additional filters like Flight Code and Flight Date, compared to all other transport methods.

6.1. Shipment Icons
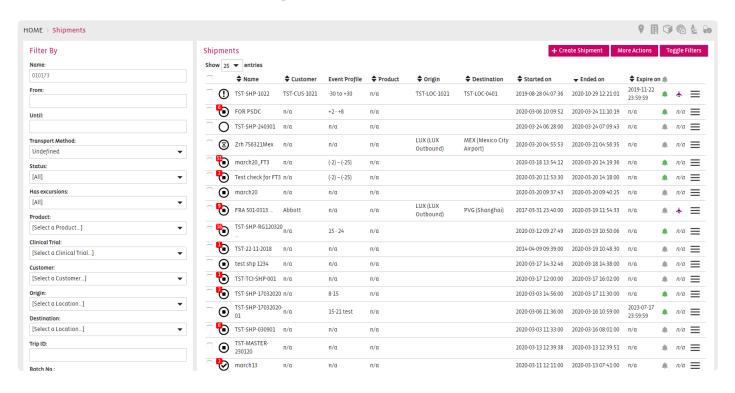
	Idle	Newly created shipments
	Pending	Shipments with associations waiting for data
	Active	Shipments with (partial data)
	Completed	Shipments with all data accounted for
	Expired	Shipments that did not send in all data in time
	Approved	Manually approved shipment
	Declined	Manually declined shipments
	Archived	Manually archived shipments

6.2. Managing Shipments

Shipment Overview Page
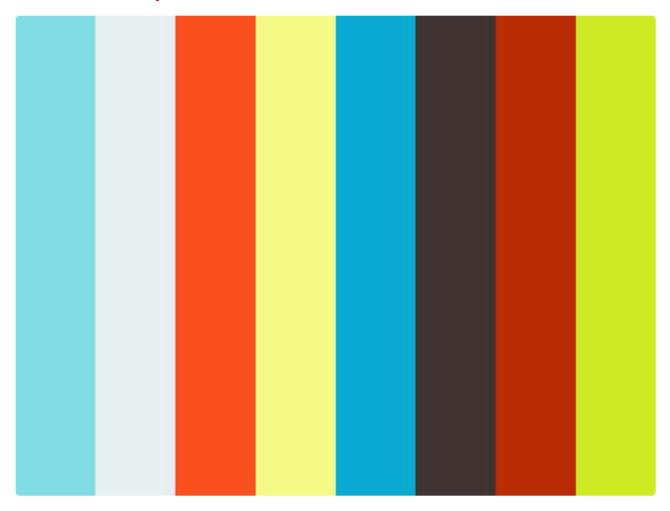
Filter By

Name:

010173

From:

Until:

Transport Method:

Undefined ▼

Status:

[All] ▼

Has excursions:

[All] ▼

Product:

[Select a Product...] ▼

Clinical Trial:

[Select a Clinical Trial...] ▼

Customer:

[Select a Customer...] ▼

Origin:

[Select a Location...] ▼

Destination:

[Select a Location...] ▼

Trip ID:

Batch No.:
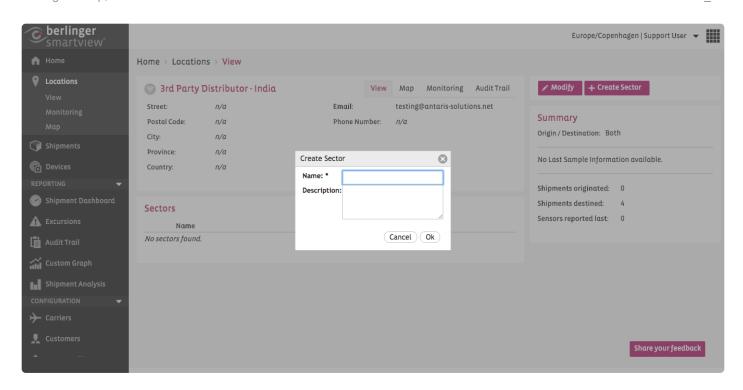
Create a Shipment

https://player.vimeo.com/video/175370241
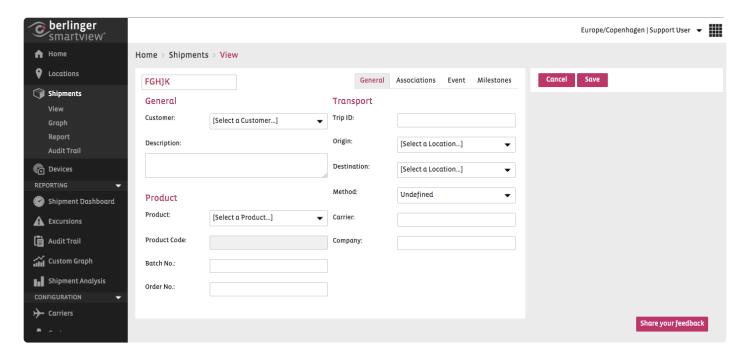
From the Shipment Overview page, click on **+ Create Shipment** to add your Shipment.

This will open a pop up as illustrated below, allowing you to choose a Shipment ID for your Shipment:

Note: If you have created similar Shipments in the past, you also have the option to choose a template for your new Shipment out of the existing ones.

Once you have chosen the Shipment ID, click OK and you will be redirected to the screen, allowing you to choose the detailed information for your Shipment.

Note: Alternatively, you can add information at a later stage by clicking on the Modify button of a shipment.

You can add following information to the shipment:

General settings about the shipment: In this section you can edit the Name (i.e. Unique Shipment

Identifier) of the Shipment and optionally can add a descriptive note to the Shipment. You can also define the Customer of the Shipment by selecting one from a drop-down list. .
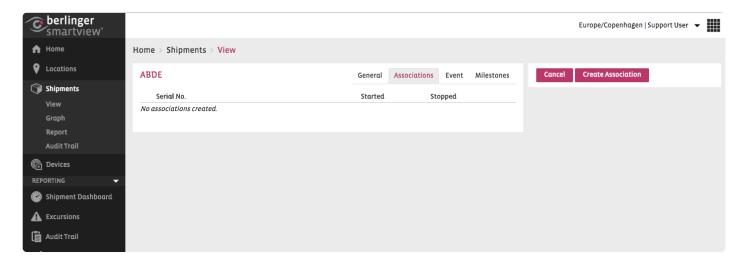
Transportation information of the shipment: In this section you can define origin, destination, trip ID, transport Method, transportation Company and Carrier of the shipment. Origin, destination and transport Method need to be selected from their drop-down lists. If Method is selected as Air then Carrier field will show a drop-down list with Air Carrier subset list that is already defined in the system. For other transport Method (e.g. Road) Carrier field will become a free-text field and will allow you to type the name of the carrier.

Product information for the shipment: In this section you can choose the predefined product for the shipment. If a Product Code is defined for the product, then selecting the product, will populate the Product Code filled in the screen. Optionally you can define related Batch Number and Order number.
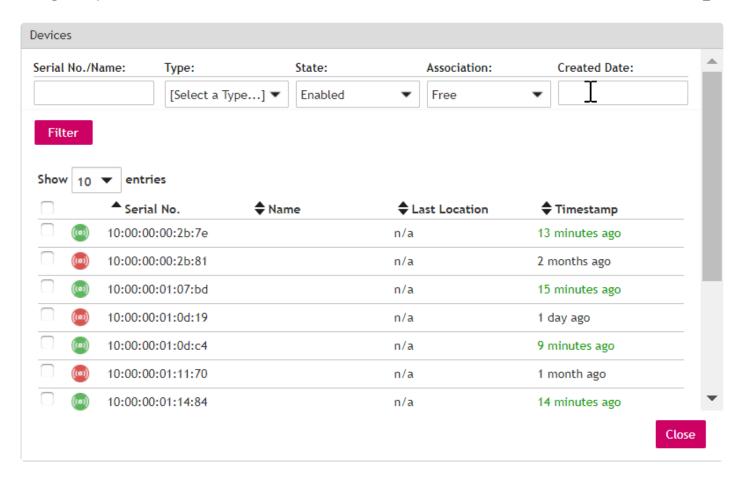
Note: Before you start creating a Shipment and defining its detailed information, make sure you have already defined and/ or configured the following information

- Customer
- Location (to be defined as Origin / Destination)
- Product
- Air Carrier subset list
- Also note that you may not be able to delete an item (e.g. customer or product) if it has once used with a Shipment.

After defining the General Information for your Shipment, you need to associate the necessary devices to the Shipment:
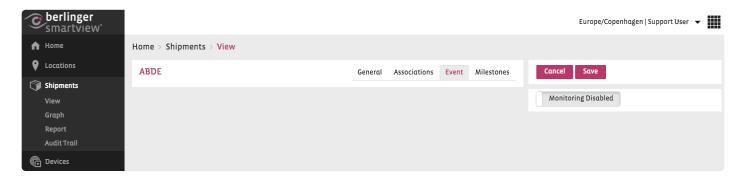
Click in the Serial No. field to choose your Device for the Sector.

Select or modify the Start Date and click on
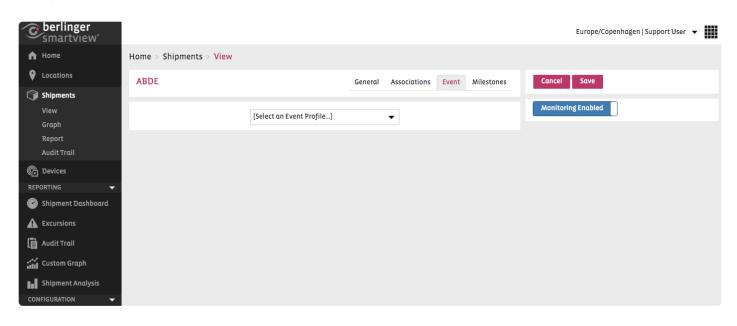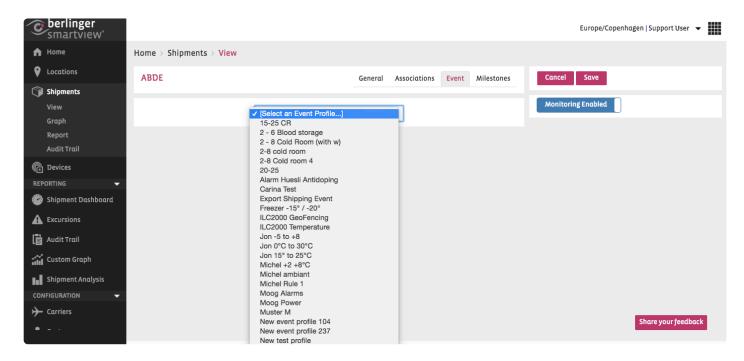
After associating the devices, you need to enable the Event monitoring for the Shipment by choosing an existing Event Profile. This will enable SmartView to apply the appropriate rules, and notify you in case of an excursion event. You can access the Event page by clicking on the Event tab:

Click on the Monitoring button, to enable the Event Monitoring:
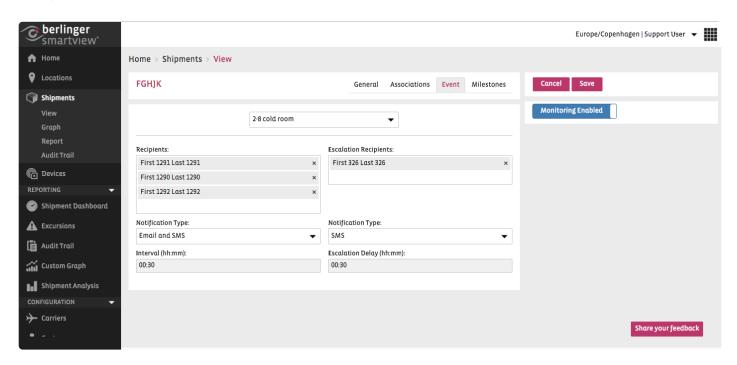
Once this has been enabled, you can choose the appropriate Event Profile from the drop down list:
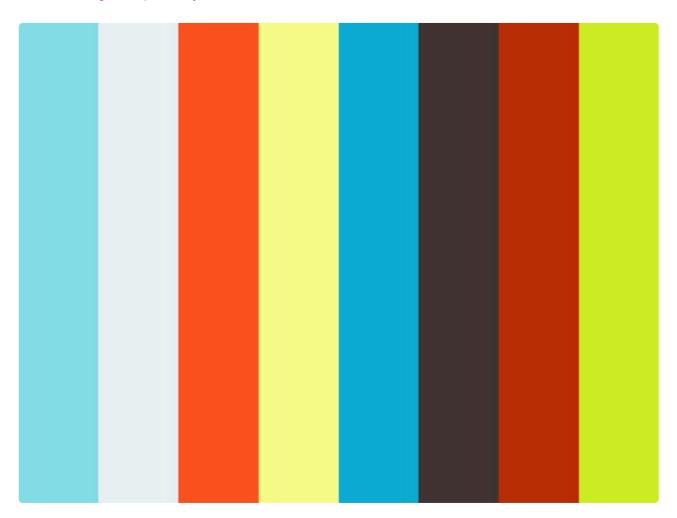
Note: If you cannot find the necessary Event Profile in the list, you can define a new Event Profile by following the steps in chapter <u>Event Profiles</u>.

By selecting the Event Profile in the drop down list, the Event Profile will be applied to your Shipment. Click on Save to save your changes.

Add a Device Association to a Shipment

After creating a Shipment, you need to associate one/more devices to it.

https://player.vimeo.com/video/176303737
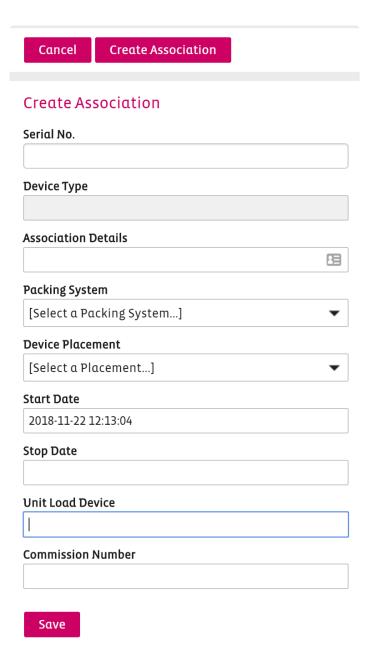
You can also add devices to an existing Shipment which has not been started yet.

Unit Load Device

You can add one or multiple unit load device ids to the device association.

Commisson Number
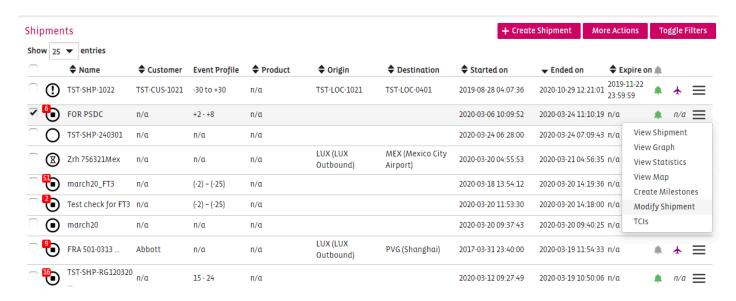
You can add one or more commisson numbers to the device association.

[Cancel] [Create Association]

Create Association

Serial No.

Device Type

Association Details

Packing System

[Select a Packing System...]

Device Placement

[Select a Placement...]

Start Date

2018-11-22 12:13:04

Stop Date

Unit Load Device

Commission Number

[Save]

Modify a Shipment

The Modify Shipment screen can be accessed in two ways:

1. From the Options button ☰ in the Shipment Overview page, choose Modify Shipment.
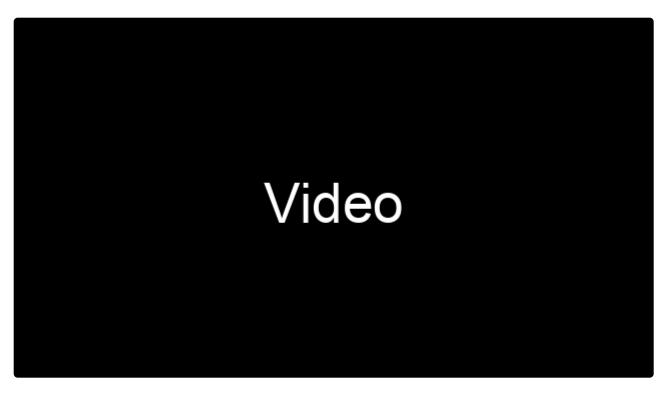
1. By clicking on a Shipment in the Shipment Overview page, you will be redirected to the View Shipment page.
Click on Modify button to add an Association.
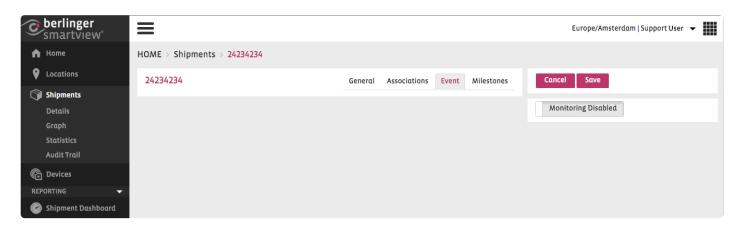
Add an Event Profile to a Shipment
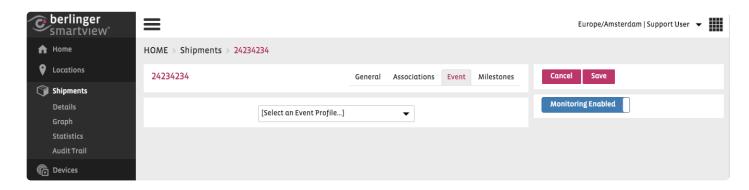
https://player.vimeo.com/video/175365680
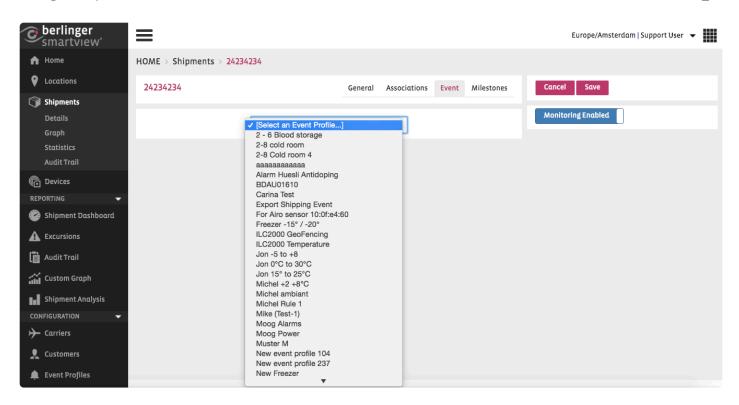
To add an Event Profile to the Shipment, click on the "Event" tab in the Modify screen of the Shipment:

Click on the Monitoring button, to enable the Event Monitoring:

From the dropdown list, select the Event Profile which you have created.
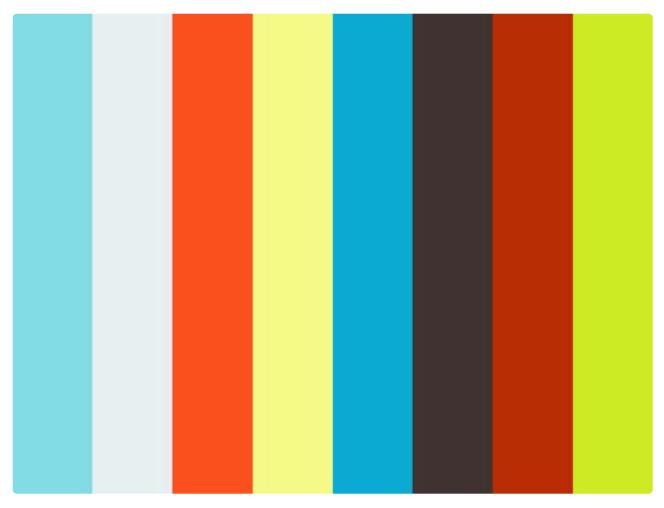
Click on to save your Event Profile to this Shipment.

Add a Milestone to a Shipment

SmartView allows a user to document a useful information related to a specific shipment by allowing the user to add a milestone to the shipment.

For example, to document the arrival of a shipment to a location, a user can add a milestone "*Shipment arrived at location X*" with the time stamp of the arrival.

https://player.vimeo.com/video/176302328

To create a milestone go to the Shipment and click on the **+ Milestone** button. Under this tab you can see all the milestones related to this shipment that have already been defined or add new Milestones if necessary.

- Select the date and time of the milestone in the Date field

- Provide a short description for the milestone and click the **Save** button.

You can visualise your milestones both on the Shipment Graph and on the Shipment PDF report.

Delete a Shipment
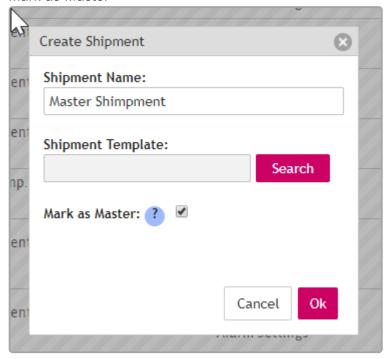
You cannot delete a shipment!

6.2.1. Create a Master Shipment with 2 Subshipments

Click Create Shipment on the Shipments overview page.

A pop up window appears. Fill out with the Shipment Name, choose a Shipment Template (if available), click Mark as Master

After that you will come to the Shimpment Details Page and see that 2 Sub Shipments have been created:

Sub Shimpments

Change the name of the Sub Shipments which have been created automatically for you.
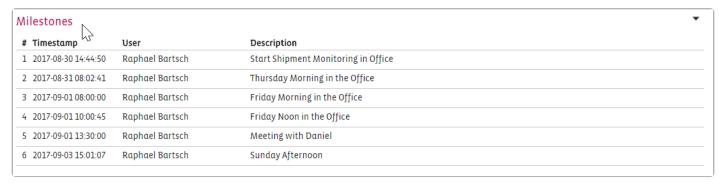
General

General

Description:
Test Shipment for checking flight data from LX734 from Zürich to Amsterdam.

		Customer:	Customer B

Product

Name:	Product A Fridge
Code:	Controlled Fridge
Batch No.	*n/a*
Order No.	*n/a*
Minimum Temp:	2.00 °C
Maximum Temp:	8.00 °C

Transport

Origin:	Amersfoort NL
Destination:	Berlinger Toggenburgerstrasse CH
Method:	Air
Carrier:	SWISS - (LX)
Company:	*n/a*
Flight Code:	*n/a*
Flight Date:	*n/a*

Shipment Results

Shipment Results

Started on:	2017-08-30 14:29:40
Stopped at:	2017-09-11 10:27:00
Duration:	11 days 19:57:20

Shipment A | inside

Sensor	Minimum	Maximum
Temperature	20.00 °C	24.38 °C
RF Strength	-80.00 dBm	-55.00 dBm

Shipment A | outside

Sensor	Minimum	Maximum
Temperature	19.94 °C	29.90 °C
RF Strength	-74.00 dBm	-65.00 dBm

Milestones

Milestones

#	Timestamp	User	Description
1	2017-08-30 14:44:50	Raphael Bartsch	Start Shipment Monitoring in Office
2	2017-08-31 08:02:41	Raphael Bartsch	Thursday Morning in the Office
3	2017-09-01 08:00:00	Raphael Bartsch	Friday Morning in the Office
4	2017-09-01 10:00:45	Raphael Bartsch	Friday Noon in the Office
5	2017-09-01 13:30:00	Raphael Bartsch	Meeting with Daniel
6	2017-09-03 15:01:07	Raphael Bartsch	Sunday Afternoon

Associations

The difference to "Creating a normal Shipment" is that you have to assign at least 2 devices to the shipment. In each Subshipment must be at least one assigned device.
It is possible to have more devices assigned as you can see in the example above and you can combine/

mix devices (CLm doc, smartPoints, etc.)

Associations

Shipment A | inside   ▼

● **10:00:00:01:1c:b4** (smartPoint)   ▶

Shipment A | outside   ▼

● **BHAE00350-19** (Q-tag CLm doc LR)   ▶

● **BHAE00350-20** (Q-tag CLm doc LR)   ▶

● **10:00:00:01:1c:94** (smartPoint)   ▶
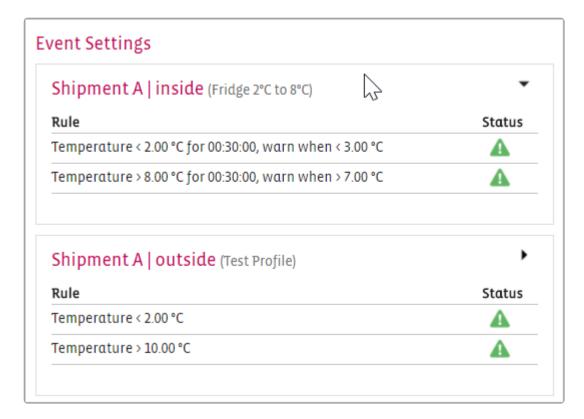
Notes

Specific notes to a graph for analysis.

Notes (13)   ▼

Shipment	Association	Sensor Type	Date	Date comment	Author
Shipment A	10:00:00:01:1c:94	Temperature	2017-09-04 07:58:18	2017-09-11 09:33:03	Raphael Bartsch
			Testnote on Graph 1		
			2017-09-04 07:58:18	2017-09-11 09:33:13	Raphael Bartsch
			Another Note on the same Graph		

Event Settings

You also have to assign to each Sub Shipment an Event Setting. One for inside and one for outside.

Event Settings

Shipment A | inside (Fridge 2°C to 8°C)

Rule	Status
Temperature < 2.00 °C for 00:30:00, warn when < 3.00 °C	⚠
Temperature > 8.00 °C for 00:30:00, warn when > 7.00 °C	⚠

Shipment A | outside (Test Profile)

Rule	Status
Temperature < 2.00 °C	⚠
Temperature > 10.00 °C	⚠
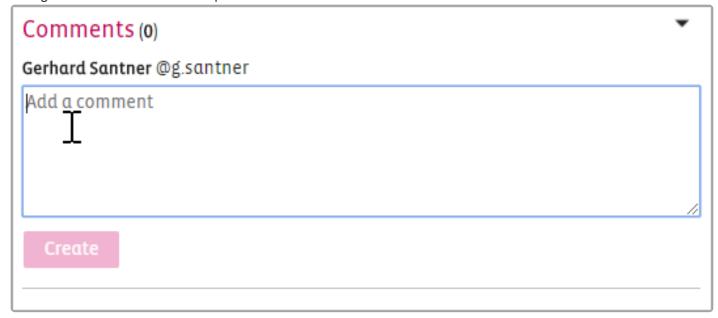
Recipients

More Details you will find on Shipment Excursions

Comments

Add general comments to a Shipment

Comments (0)

Gerhard Santner @g.santner

Add a comment

Create
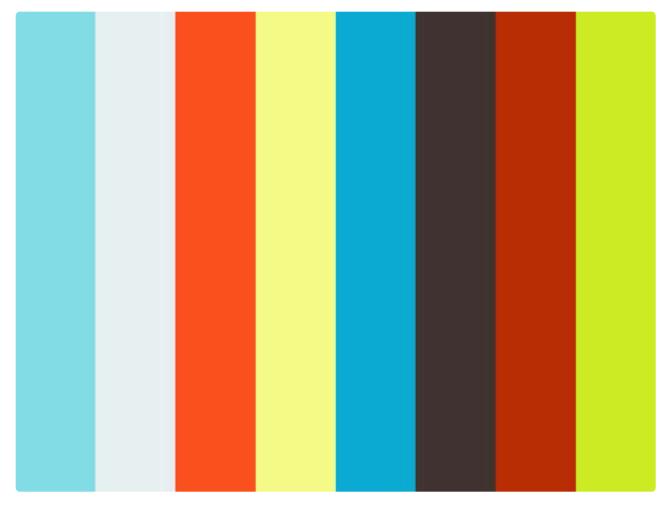
6.2.2. Shipment Details

Details about a shipment can be viewed by clicking on the corresponding shipment identification number or name.
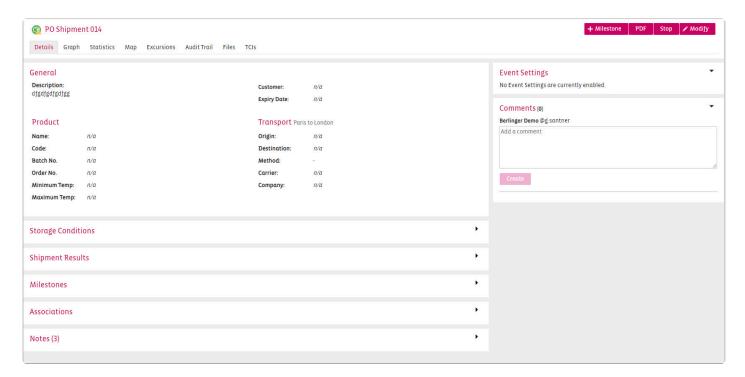
https://player.vimeo.com/video/178006895

This screen displays additional shipment information, along with the trip information, event profile summary, milestones of the shipment, associated smart sensors.

The overview of the Shipments Details page.

General | Product | Transport

Description of your Shipment and information about the shipped product and the method of transport.
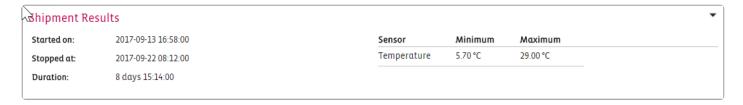
> ✳ For each shipment an expiry date can be defined. If the date is reached and the shipment is not in state "Completed with or without Excursions", a notification will be sent out to a recipient list. Up to 5 recipients for the expiry notification can be defined.

Storage Conditions

Storage Conditions			▼
Name	**Minimum Temperature**	**Maximum Temperature**	
Cold	2.00 °C	8.00 °C	

Storage conditions can be defined in the Admin settings and used for multiple purposes.

Shipment Results

Shipment Results					▼
Started on:	2017-09-13 16:58:00		**Sensor**	**Minimum**	**Maximum**
Stopped at:	2017-09-22 08:12:00		Temperature	5.70 °C	29.00 °C
Duration:	8 days 15:14:00				

Milestones

Milestones			▼
#	**Timestamp**	**User**	**Description**
1	2017-10-17 13:22:22	Gerhard Santner	Checked In Amsterdam Airport
2	2017-10-17 14:52:00	Gerhard Santner	Arrived at ZH Airport
3	2017-10-17 16:20:52	Gerhard Santner	Arrived in Ganterschwil, TS 20

Associations

Associations ▼

BHAE00350-29 (Q-tag CLm doc LR) ▼

Association Details:	No association details provided.	Temperature ▶
Packing system:	Packing System C	
Device placement:	Inside	
Started on:	2017-09-13 16:58:00	
Stopped at:	2017-09-22 08:12:00	
Duration:	8 days 15:14:00	
Last Message:	2017-09-22 08:08:00	

Event Settings

Comments

Add general comments to a Shipment

Final Closing of Shipments

- New shipment state engine
- Archived shipments will be hidden from the shipment overview (unless searched for)
- All states after completed will become immutable
- Archived, Approved and Declined shipments can be re-opened
- Disabled devices do not count towards states anymore (broken devices)
- Expire notice will now work with any shipments that is pending or active (also logger shipments)***

HOME > Shipments

Filter By

Name:
010173

From:

Until:

Transport Method:
Undefined

Status:
[All]

Has excursions:
[All]

Product:
[Select a Product...]

Clinical Trial:
[Select a Clinical Trial...]

Customer:
[Select a Customer...]

Origin:
[Select a Location...]

Destination:
[Select a Location...]

Trip ID:

Batch No.:

Shipments

+ Create Shipment | More Actions | Toggle Filters

Show 25 entries

		Name	Customer	Event Profile	Product	Origin	Destination	Started on	Ended on	Expire on
		TST-SHP-1022	TST-CUS-1021	-30 to +30	n/a	TST-LOC-1021	TST-LOC-0401	2019-08-28 04:07:36	2020-10-29 12:21:01	2019-11-22 23:59:59
	6	FOR PSDC	n/a	+2 - +8	n/a			2020-03-06 10:09:52	2020-03-24 11:10:19	n/a
		TST-SHP-240301	n/a	n/a	n/a			2020-03-24 06:28:00	2020-03-24 07:09:41	n/a
		Zrh 756321Mex	n/a	n/a	n/a	LUX (LUX Outbound)	MEX (Mexico City Airport)	2020-03-20 04:55:53	2020-03-21 04:56:35	n/a
	51	march20_FT3	n/a	(-2) – (-25)	n/a			2020-03-18 13:54:12	2020-03-20 14:19:36	n/a
	2	Test check for FT3	n/a	(-2) – (-25)	n/a			2020-03-20 11:53:30	2020-03-20 14:18:00	n/a
		march20	n/a	n/a	n/a			2020-03-20 09:37:43	2020-03-20 09:40:25	n/a
	9	FRA 501-0313 ...	Abbott	n/a	n/a	LUX (LUX Outbound)	PVG (Shanghai)	2017-03-31 23:40:00	2020-03-19 11:54:33	n/a
	16	TST-SHP-RG120320 ...	n/a	15 - 24	n/a			2020-03-12 09:27:49	2020-03-19 10:50:06	n/a
	1	TST-22-11-2018	n/a	n/a	n/a			2014-04-09 09:39:00	2020-03-19 10:48:30	n/a
		test shp 1234	n/a	n/a	n/a			2020-03-17 14:32:46	2020-03-18 14:38:00	n/a
	1	TST-TCI-SHP-001	n/a	n/a	n/a			2020-03-17 12:00:00	2020-03-17 16:02:00	n/a
	3	TST-SHP-17032020	n/a	8-15	n/a			2020-03-03 14:56:00	2020-03-17 11:30:00	n/a
		TST-SHP-17032020-01	n/a	15-21 test	n/a			2020-03-06 11:36:00	2020-03-16 10:59:00	2023-07-17 23:59:59
	6	TST-SHP-030901	n/a	n/a	n/a			2020-03-03 11:33:00	2020-03-16 08:01:00	n/a
		TST-MASTER-230120	n/a	n/a	n/a			2020-03-13 12:39:38	2020-03-13 12:39:51	n/a
	2	march13	n/a	n/a	n/a			2020-03-11 12:11:00	2020-03-13 07:41:00	n/a

6.2.3. Shipment Graph

Graph

All information about displaying a graph can be found here: Graph View

Creating a PDF

Download Shipment PDF

Generic Settings

Overview & Associations:	✔
Excursions:	✔
Excursions Management:	☐
TCIs:	☐
Milestones:	✔
Map:	✔
Comments:	✔
Audit Trail:	☐
Statistic Graphs:	✔
Graphs Notes:	☐
Use customized y-scale:	☐

Sensor Type Settings

Parameter	Graph	Stats	Meas.
Temperature	✔	✔	☐
Temperature Probe	✔	✔	☐
Humidity	✔	✔	☐
Air Pressure	☐		
Battery Voltage	☐		
Battery percentage	☐		
Light intensity	☐		
RF Strength	☐		
Tilt	☐		

Cancel   Ok
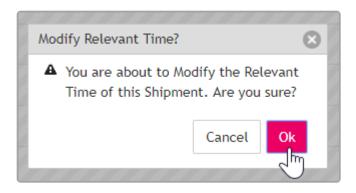
✱ Maps can be included in the shipment PDF report if GPS coordinates are available for tracking.

Relevant Time
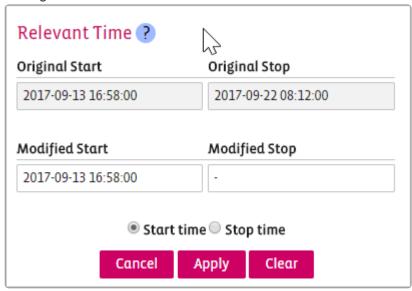
You can modify (not delete or change) the relevant time of your shipment, so that in the graph only the relevant information is shown.
Example: If your sending arrived at the arrivald destination and the data logger was taken off the product and carried into an office, but someone forgot to stop the device.
Now it can happen that an excursion has been generated. If that is not relevant for your report anymore you can change the Relevant Time, so that only the useful information is available.
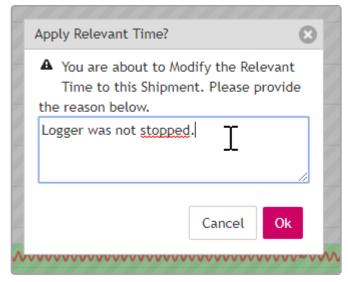
Change the Relevant Time.

If you modify the relevant time you always have to comment it and it will be displayed in the "Audit Trail" as well.
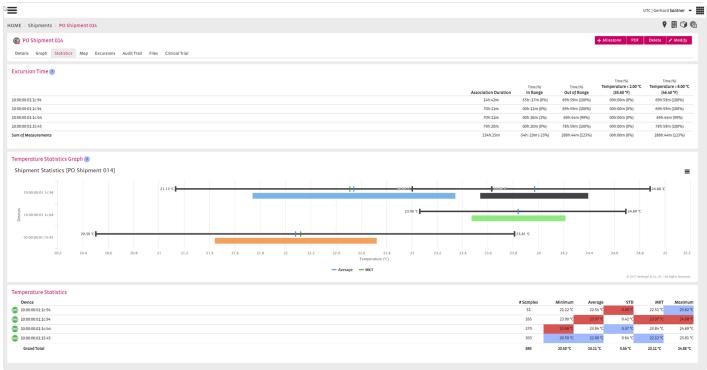
Excursion Legend

More information needed: Excursions

6.2.4. Shipment Statistics
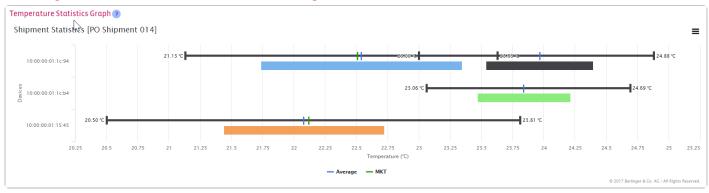
Overiew of the Shipment Statistics

Excursion Time

Excursion Time ?

	Association Duration	Time (%) In Range	Time (%) Out of Range	Time (%) Temperature < 2.00 °C (35.60 °F)	Time (%) Temperature > 8.00 °C (46.40 °F)
10:00:00:01:1c:94	14h:42m	-55h:-17m (0%)	69h:59m (100%)	00h:00m (0%)	69h:59m (100%)
10:00:00:01:1c:94	70h:11m	00h:11m (0%)	69h:59m (100%)	00h:00m (0%)	69h:59m (100%)
10:00:00:01:1c:b4	70h:11m	00h:26m (1%)	69h:44m (99%)	00h:00m (0%)	69h:44m (99%)
10:00:00:01:15:45	79h:20m	00h:20m (0%)	78h:59m (100%)	00h:00m (0%)	78h:59m (100%)
Sum of Measurements	234h:25m	-54h:-19m (-23%)	288h:44m (123%)	00h:00m (0%)	288h:44m (123%)

Temperature Statistics Graph
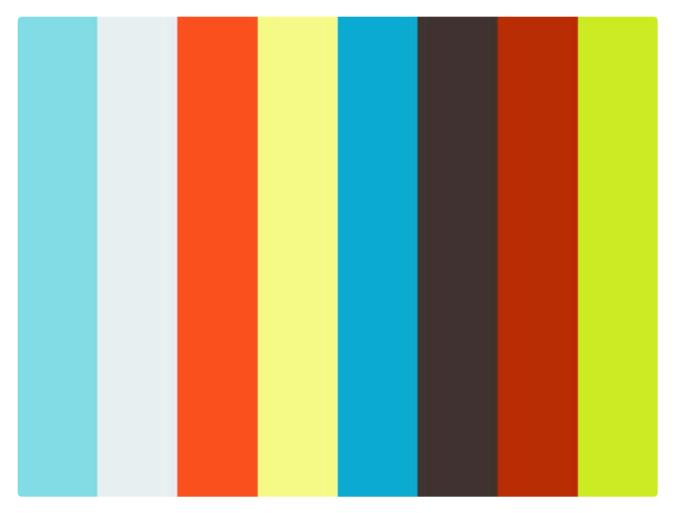
Temperature Statistics Graph ?

Shipment Statistics [PO Shipment 014]

Temperature Statistics

Temperature Statistics

Device	# Samples	Minimum	Average	STD	MKT	Maximum
10:00:00:01:1c:94	51	21.12 °C	22.54 °C	0.80 °C	22.51 °C	23.62 °C
10:00:00:01:1c:94	265	23.00 °C	23.97 °C	0.42 °C	23.97 °C	24.88 °C
10:00:00:01:1c:b4	270	23.06 °C	23.84 °C	0.37 °C	23.84 °C	24.69 °C
10:00:00:01:15:45	303	20.50 °C	22.08 °C	0.64 °C	22.12 °C	23.81 °C
Grand Total	889	20.50 °C	23.11 °C	0.56 °C	23.11 °C	24.88 °C

6.2.5. Shipment Report

The **Shipment Report** is a document containing shipment and sensor information and is available for every shipment, which is monitored with SmartView. This report includes the temperature graph of the shipment, the temperature excursion information and potentially milestones.

https://player.vimeo.com/video/178014742

The **Shipment Report** for a particular shipment is generated automatically by SmartView into a PDF report which can be optionally saved to the computer and analyzed accordingly. The Shipment Report can be easily personalised by choosing the information that is relevant for each shipment analysis and that should be displayed in the graph.

Personalisation of PDF Report

Download Shipment PDF

Generic Settings

Overview & Associations:	☑
Excursions:	☑
Excursions Management:	☐
Milestones:	☑
Comments:	☑
Audit Trail:	☑
Statistic Graphs:	
Graphs Notes:	☐
Use customized y-scale:	☐

Sensor Type Settings

Parameter	Graph	Stats	Meas.
Temperature	☑	☑	☐

Cancel   Ok

Shipment PDF report (5 Pages)

Shipment Report: PO Shipment 002

(Completed with Excursions)

Overview

Shipment:	PO Shipment 002	Timezone:	UTC
Customer:	Customer B	Metrics:	Temperature
No. Devices:	01	Description:	No description provided
Trip ID:	n/a	Duration:	0 days 18:20:00
Started on:	2016-11-13 14:28:00	Stopped on:	2016-11-14 08:48:00

Transport (Air)

Origin:	Langenargen DE	Destination:	London
Company:	n/a	Carrier:	British Airways - (BA)
Flight Code:	n/a	Flight Date:	n/a

Product

Name:	Product B Ambient	Code:	Controlled Ambient
Batch Number:	n/a	Order Number:	n/a
Temperature Range:	15.00 °C | 25.00 °C	ATOR:	00:00 (hh:mm)

Clinical Trial

External ID:	n/a

Associations (1)

Device	Description	Start	Stop
BCAB00014	No description provided	2016-11-13 14:28:00	2016-11-14 08:48:00
	Packing System: n/a	Placement: Inside	

Statistical Analysis (Temperature)
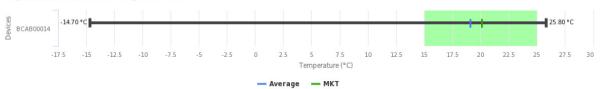
Excursion Time
No event statistics available.

Statistics

Device	No. Samples	Minimum	Average	STD	MKT	Maximum
BCAB00014	106	-14.70 °C	19.10 °C	- °C	20.10 °C	25.80 °C
Grand Total	106	-14.70 °C	19.10 °C	- °C	20.10 °C	25.80 °C

Shipment Statistics [PO Shipment 002]

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The temperature statistics graph can include two elements:
- The line illustrates the total temperature range from minimum to maximum temperature, with indicators for average and MKT.
- The colored bar indicates the temperature stability, as measured from the average - standard deviation to average + standard deviation.

Comments (0)
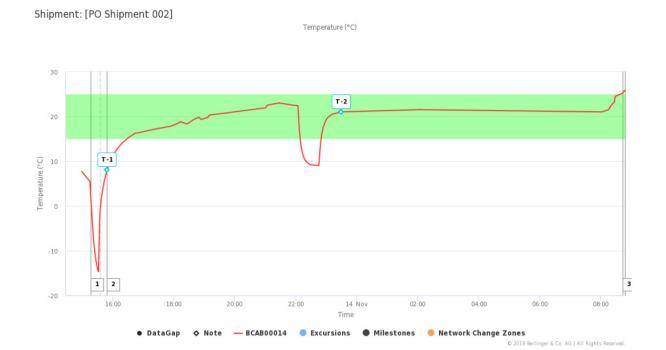
#	User	Timestamp	Description

Shipment Report: PO Shipment 002

Shipment: [PO Shipment 002]

Temperature (°C)

Notes (4)

| T-1 | Sensor Type: Temperature | Time: 2016-11-13 15:49:00 |

Author: Raphael Bartsch
Created on: 2017-08-25 09:48:43
Updated on: 2017-08-25 09:50:13

sdfsdfsdf

Author: Raphael Bartsch
Created on: 2017-08-25 09:48:46

sdfsdfsdf

| T-2 | Sensor Type: Temperature | Time: 2016-11-13 23:29:00 |

Author: Raphael Bartsch
Created on: 2017-08-11 15:29:57
Updated on: 2017-08-11 15:30:17

sdfsdf

Author: Raphael Bartsch
Created on: 2017-08-11 15:29:59

sdfsdfsdf

Milestones (0)

No Milestones have been added

Shipment Report: PO Shipment 002   (Completed with Excursions)

Excursions (3)

No.	ID	Rule	Start	Stop	Root Cause
1	3	Temperature < 0.00 °C (32.00 °F) for 00:0	2016-11-13 15:18:00	2016-11-13 15:36:00	Storage area loading/ unloading operations
2	2	Temperature > 8.00 °C (46.40 °F) for 01:0	2016-11-13 15:49:00	2016-11-14 08:49:00	n/a
3	1	Temperature > 25.00 °C (77.00 °F) for 00:	2016-11-14 08:43:00	2016-11-14 08:49:00	n/a

Only the first 3 single excursions for each Q-tag are displayed. The actual number may be higher! Please consult the graph for more

details.

Excursion Management

ID	User	Activity	Date
3	Raphael Bartsch	Closed Excursion	2017-08-06 08:23:24
	Raphael Bartsch	Acknowledged Excursion	2017-08-06 08:23:12
	Carina Tillo	added Action: 'Talk to forwarder'	2017-04-13 14:09:58
	Carina Tillo	added Root cause: 'Storage area loading/ unloading operations'	2017-04-13 14:09:58
2	Raphael Bartsch	Closed Excursion	2017-08-06 08:23:24
	Raphael Bartsch	Acknowledged Excursion	2017-08-06 08:23:12
1	Raphael Bartsch	Closed Excursion	2017-08-06 08:23:00
	Raphael Bartsch	Acknowledged Excursion	2017-08-06 08:22:28

Shipment Report: PO Shipment 002

(Completed with Excursions)

Measurements (Temperature)

Device	Timestamp	Temperature	Position
BCAB00014	2016-11-13 14:59:00	7.70 °C	
BCAB00014	2016-11-13 15:06:00	6.70 °C	
BCAB00014	2016-11-13 15:15:00	5.50 °C	
BCAB00014	2016-11-13 15:16:00	3.40 °C	
BCAB00014	2016-11-13 15:17:00	1.30 °C	
BCAB00014	2016-11-13 15:18:00	-0.50 °C	
BCAB00014	2016-11-13 15:19:00	-2.30 °C	
BCAB00014	2016-11-13 15:20:00	-4.10 °C	
BCAB00014	2016-11-13 15:21:00	-5.80 °C	
BCAB00014	2016-11-13 15:22:00	-7.20 °C	
BCAB00014	2016-11-13 15:23:00	-8.50 °C	
BCAB00014	2016-11-13 15:24:00	-9.60 °C	
BCAB00014	2016-11-13 15:25:00	-10.60 °C	
BCAB00014	2016-11-13 15:26:00	-11.40 °C	
BCAB00014	2016-11-13 15:27:00	-12.30 °C	
BCAB00014	2016-11-13 15:28:00	-12.90 °C	
BCAB00014	2016-11-13 15:29:00	-13.60 °C	
BCAB00014	2016-11-13 15:30:00	-14.10 °C	
BCAB00014	2016-11-13 15:31:00	-14.60 °C	
BCAB00014	2016-11-13 15:32:00	-14.70 °C	
BCAB00014	2016-11-13 15:33:00	-8.90 °C	
BCAB00014	2016-11-13 15:34:00	-3.90 °C	
BCAB00014	2016-11-13 15:35:00	-1.30 °C	
BCAB00014	2016-11-13 15:36:00	0.10 °C	
BCAB00014	2016-11-13 15:37:00	1.20 °C	
BCAB00014	2016-11-13 15:39:00	2.80 °C	
BCAB00014	2016-11-13 15:41:00	4.20 °C	
BCAB00014	2016-11-13 15:43:00	5.40 °C	
BCAB00014	2016-11-13 15:45:00	6.40 °C	
BCAB00014	2016-11-13 15:48:00	7.70 °C	
BCAB00014	2016-11-13 15:49:00	8.10 °C	
BCAB00014	2016-11-13 15:51:00	8.80 °C	
BCAB00014	2016-11-13 15:53:00	9.40 °C	
BCAB00014	2016-11-13 15:55:00	10.00 °C	
BCAB00014	2016-11-13 15:57:00	10.50 °C	
BCAB00014	2016-11-13 16:00:00	11.20 °C	
BCAB00014	2016-11-13 16:03:00	11.80 °C	
BCAB00014	2016-11-13 16:06:00	12.30 °C	
BCAB00014	2016-11-13 16:09:00	12.80 °C	
BCAB00014	2016-11-13 16:13:00	13.30 °C	
BCAB00014	2016-11-13 16:16:00	13.80 °C	
BCAB00014	2016-11-13 16:21:00	14.30 °C	
BCAB00014	2016-11-13 16:26:00	14.80 °C	
BCAB00014	2016-11-13 16:31:00	15.30 °C	
BCAB00014	2016-11-13 16:38:00	15.80 °C	
BCAB00014	2016-11-13 16:45:00	16.30 °C	
BCAB00014	2016-11-13 16:49:00	16.30 °C	
BCAB00014	2016-11-13 17:08:00	16.80 °C	
BCAB00014	2016-11-13 17:30:00	17.30 °C	
BCAB00014	2016-11-13 17:54:00	17.80 °C	
BCAB00014	2016-11-13 18:05:00	18.30 °C	
BCAB00014	2016-11-13 18:13:00	18.80 °C	
BCAB00014	2016-11-13 18:26:00	18.30 °C	
BCAB00014	2016-11-13 18:33:00	18.80 °C	
BCAB00014	2016-11-13 18:39:00	19.30 °C	
BCAB00014	2016-11-13 18:49:00	19.80 °C	
BCAB00014	2016-11-13 18:54:00	19.30 °C	
BCAB00014	2016-11-13 19:07:00	19.80 °C	
BCAB00014	2016-11-13 19:10:00	20.30 °C	

Shipment Report: PO Shipment 002

(Completed with Excursions)

BCAB00014	2016-11-13 19:46:00	20.80 °C
BCAB00014	2016-11-13 20:19:00	21.30 °C
BCAB00014	2016-11-13 21:00:00	21.90 °C
BCAB00014	2016-11-13 21:04:00	22.50 °C
BCAB00014	2016-11-13 21:27:00	23.00 °C
BCAB00014	2016-11-13 21:54:00	22.50 °C
BCAB00014	2016-11-13 22:04:00	22.40 °C
BCAB00014	2016-11-13 22:05:00	20.30 °C
BCAB00014	2016-11-13 22:06:00	18.30 °C
BCAB00014	2016-11-13 22:07:00	16.70 °C
BCAB00014	2016-11-13 22:08:00	15.40 °C
BCAB00014	2016-11-13 22:09:00	14.30 °C
BCAB00014	2016-11-13 22:10:00	13.50 °C
BCAB00014	2016-11-13 22:11:00	12.80 °C
BCAB00014	2016-11-13 22:12:00	12.20 °C
BCAB00014	2016-11-13 22:14:00	11.30 °C
BCAB00014	2016-11-13 22:16:00	10.70 °C
BCAB00014	2016-11-13 22:18:00	10.20 °C
BCAB00014	2016-11-13 22:22:00	9.70 °C
BCAB00014	2016-11-13 22:28:00	9.20 °C
BCAB00014	2016-11-13 22:45:00	9.00 °C
BCAB00014	2016-11-13 22:46:00	10.30 °C
BCAB00014	2016-11-13 22:47:00	12.10 °C
BCAB00014	2016-11-13 22:48:00	13.50 °C
BCAB00014	2016-11-13 22:49:00	14.50 °C
BCAB00014	2016-11-13 22:50:00	15.40 °C
BCAB00014	2016-11-13 22:51:00	16.20 °C
BCAB00014	2016-11-13 22:52:00	16.70 °C
BCAB00014	2016-11-13 22:53:00	17.20 °C
BCAB00014	2016-11-13 22:54:00	17.70 °C
BCAB00014	2016-11-13 22:56:00	18.30 °C
BCAB00014	2016-11-13 22:58:00	18.90 °C
BCAB00014	2016-11-13 23:01:00	19.50 °C
BCAB00014	2016-11-13 23:05:00	20.00 °C
BCAB00014	2016-11-13 23:12:00	20.50 °C
BCAB00014	2016-11-13 23:29:00	21.00 °C
BCAB00014	2016-11-14 02:04:00	21.50 °C
BCAB00014	2016-11-14 08:02:00	21.00 °C
BCAB00014	2016-11-14 08:15:00	21.50 °C
BCAB00014	2016-11-14 08:17:00	22.00 °C
BCAB00014	2016-11-14 08:20:00	22.50 °C
BCAB00014	2016-11-14 08:26:00	23.20 °C
BCAB00014	2016-11-14 08:27:00	24.00 °C
BCAB00014	2016-11-14 08:28:00	24.50 °C
BCAB00014	2016-11-14 08:43:00	25.20 °C
BCAB00014	2016-11-14 08:46:00	25.80 °C
BCAB00014	2016-11-14 08:48:00	25.60 °C
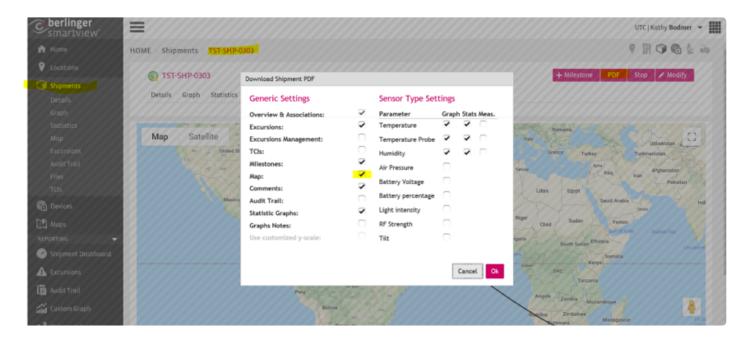
References:
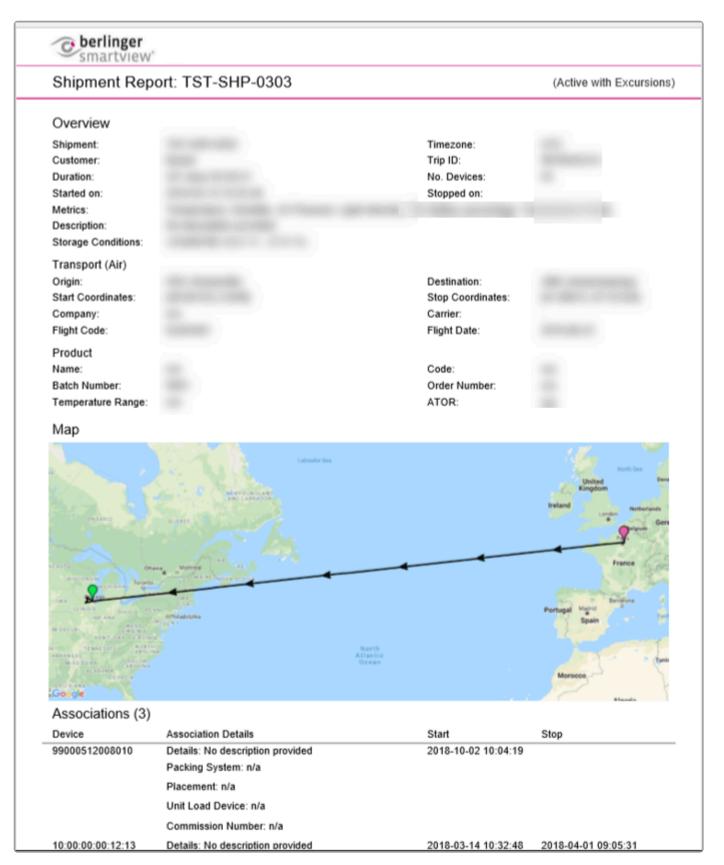
(1) - MKT is calculated using the algorithm as recommended in the Pharmacopeia using Activation Energy 83.144.

(2) - MKT for a Q-tag CLm doc is not calculated by SmartView but retrieved from its corresponding CSV file.

Shipment Report with Map
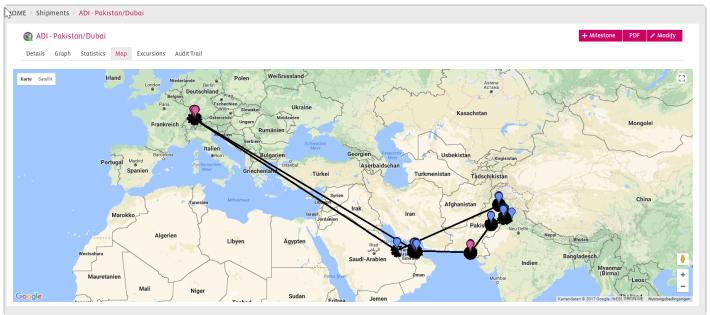
If you have a device with GPRS you can choose to include the Map in the Shipment Report.

Shipment Report: TST-SHP-0303   (Active with Excursions)

Overview

Shipment:		Timezone:	
Customer:		Trip ID:	
Duration:		No. Devices:	
Started on:		Stopped on:	
Metrics:			
Description:			
Storage Conditions:			

Transport (Air)

Origin:		Destination:	
Start Coordinates:		Stop Coordinates:	
Company:		Carrier:	
Flight Code:		Flight Date:	

Product

Name:		Code:	
Batch Number:		Order Number:	
Temperature Range:		ATOR:	

Map

Associations (3)

Device	Association Details	Start	Stop
99000512008010	Details: No description provided	2018-10-02 10:04:19	
	Packing System: n/a		
	Placement: n/a		
	Unit Load Device: n/a		
	Commission Number: n/a		
10:00:00:00:12:13	Details: No description provided	2018-03-14 10:32:48	2018-04-01 09:05:31

6.2.6. Shipment Map

The Shipment Map documents the route of your transported goods. You can use the ILC 2000 and Sendum PT300 within smartview.

If you put your cursor over a red or blue "flag" the you will get the following detailed infomartion:

Device:	99000512001023
Device type:	Sendum
Fix type:	GPS
Coordinates:	[30.12915,71.45905]
Fix timestamp:	2017-11-23 10:27:39
Temperature:	36.30 °C
Humidity:	28.00 %
Battery Voltage:	3.78 V
Air Pressure:	999.72 mbar
Light intensity:	0.72 lux
RF Strength:	-93.00 dBm
Tilt:	173.00 °
Battery percentage:	42.11 %
Shock force:	16.36 g
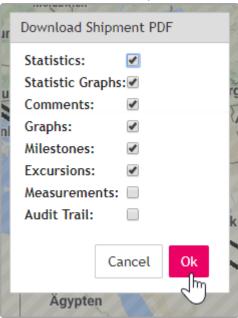
PDF Report

Export the route of your goods/device in a PDF file.
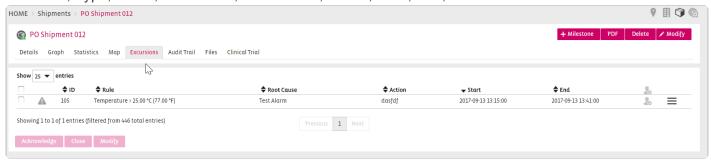
After clicking the PDF button a pop up window opens with the following options to add or to exclude information from the report.

6.2.7. Shipment Excursions
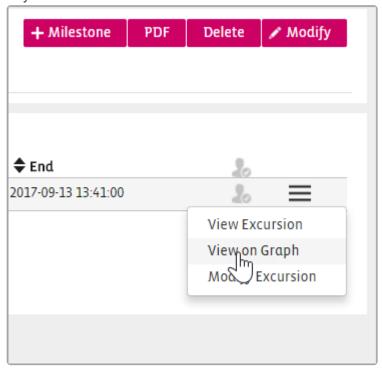
Excursions

Sector ID, Type, Name, Event Rule, Root Cause, Action, Start, End, The User state of an excursion

On the right side behind the tribar button you can directly:

- View Excursions
- View Excursion
- View on Graph
- Acknowledge Excursion
- Modify Excursion

If an excursion has already been acknowledged the menu field "Acknowledge Excursion" is not available anymore.

- View Excursion
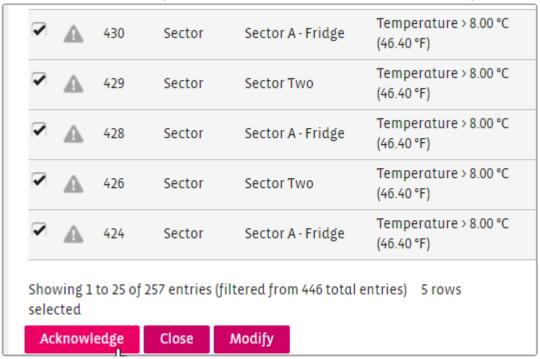
- View on Graph
- Modify Excursion

✻ Before an Excursion can be closed the Exursion must have been acknowledged first!
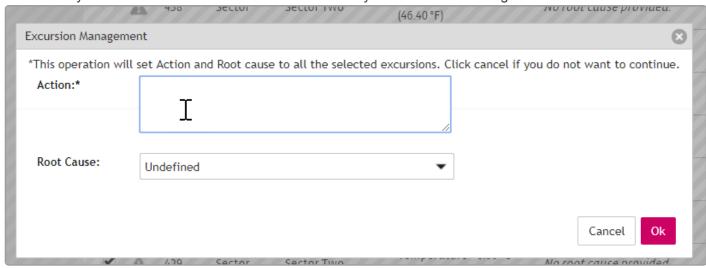
Mass edit Shipment Excursions

A user can mass edit Shipment excursions and can select/deselect multiple excursions.
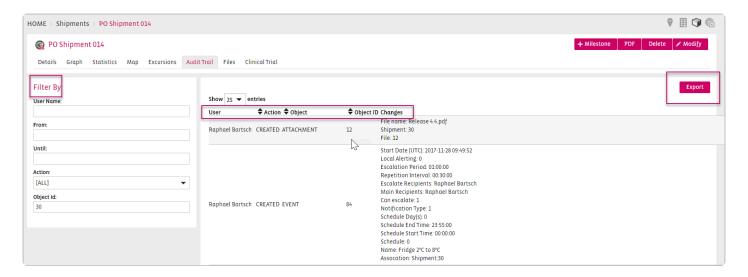
User with the appropriate rights could acknowledge/close/modify multiple selected excursions.

Click Modify to take Action and define a Root Cause of your Excursion Management

6.2.8. Shipment Audit Trail

Audit Trails can be **filtered** on the left side and be **exported** with the button on the right side.
In between you can see the information: **User, Action, Object, Object ID, Changes**

6.2.9. Modify Shipments
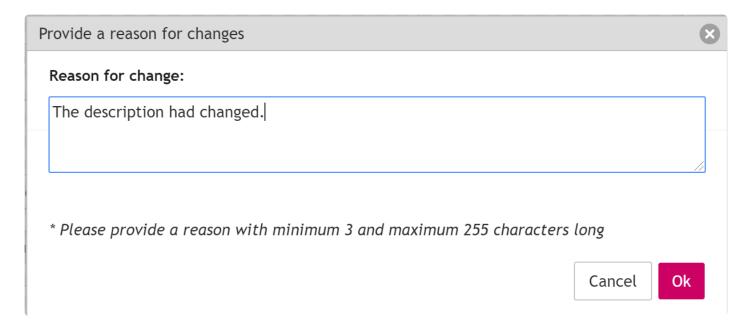
Click **✎ Modify** on the right side within your Shipment to chance the following fields which you have set up when creating a Shipment:
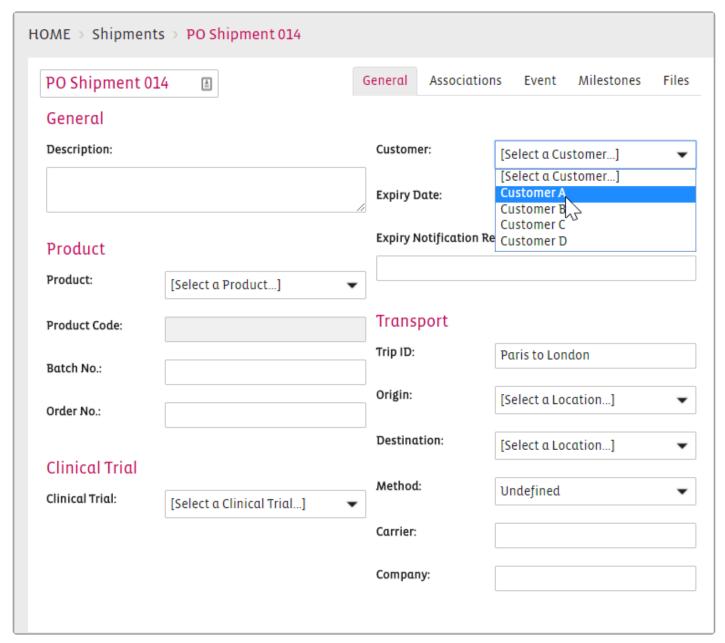
Reason for change

If the "Reason for Change" has been enabled by the Admin in the site settings then all changes made to shipments will require the user to provide the reason for the change.
This information will be visible in the Audit Trail.

Provide a reason for changes   ✕

Reason for change:

The description had changed.

* Please provide a reason with minimum 3 and maximum 255 characters long

Cancel   Ok

General

HOME > Shipments > PO Shipment 014

PO Shipment 014   ▣   General   Associations   Event   Milestones   Files

General

Description:

Customer: [Select a Customer...]   ▼

                   [Select a Customer...]
Expiry Date: Customer A
                   Customer B
                   Customer C
Expiry Notification Re   Customer D

Product

Product: [Select a Product...]   ▼

Product Code:

Transport

Trip ID: Paris to London

Batch No.:

Order No.:   Origin: [Select a Location...]   ▼

                   Destination: [Select a Location...]   ▼

Clinical Trial

                   Method: Undefined   ▼
Clinical Trial: [Select a Clinical Trial...]   ▼

                   Carrier:

                   Company:

Change the customer, Add a description, Select an other Product, etc.

Associations
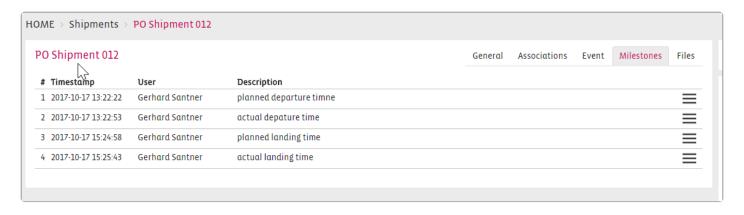
You can View the Device Modify or Delete the Association to a Shipment

Event

Change the behavior of your Event if it Can Escalate or Cannot Escalte, the Repetition Interval , the Escalation Delay, Receipients and Escalation Recipients and the Notification Type, either per Email or Email and SMS.

Milestones

HOME > Shipments > PO Shipment 012

PO Shipment 012

General   Associations   Event   **Milestones**   Files

#	Timestamp	User	Description	
1	2017-10-17 13:22:22	Gerhard Santner	planned departure timne	≡
2	2017-10-17 13:22:53	Gerhard Santner	actual depature time	≡
3	2017-10-17 15:24:58	Gerhard Santner	planned landing time	≡
4	2017-10-17 15:25:43	Gerhard Santner	actual landing time	≡
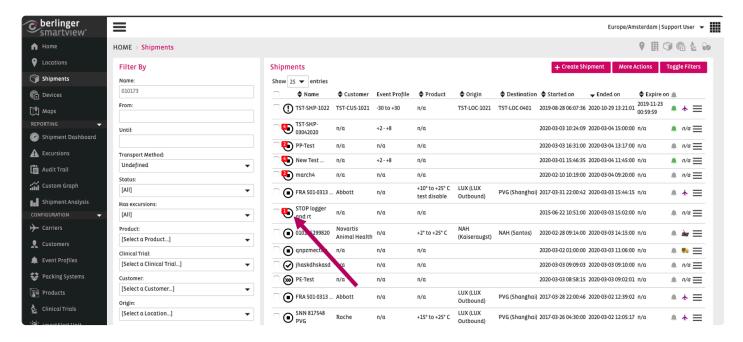
You can change predefined milestones because of changes.

6.2.10. Final Closing of Shipments
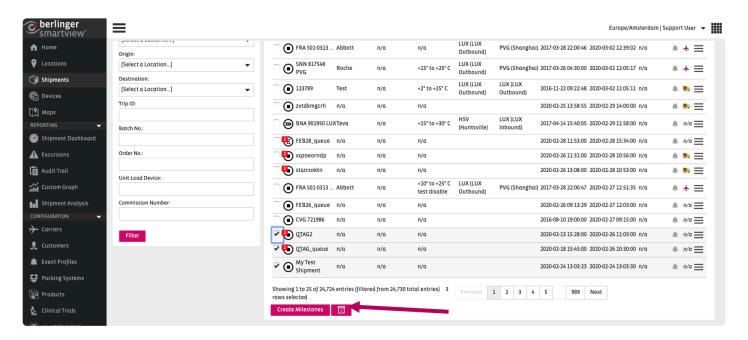
Overview

- New shipment state engine
- Archived shipments will be hidden from the shipment overview (unless searched for)
- All states after completed will become immutable
- Archived, Approved and Declined shipments can be re-opened
- Disabled devices do not count towards states anymore (broken devices)
- Expire notice will now work with any shipments that is pending or active (also logger shipments!)
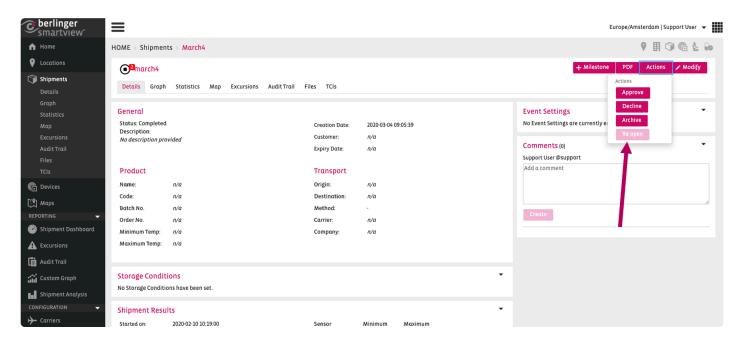
Red balloon shows the number of excursions (total) New

Archive

Bulk archive
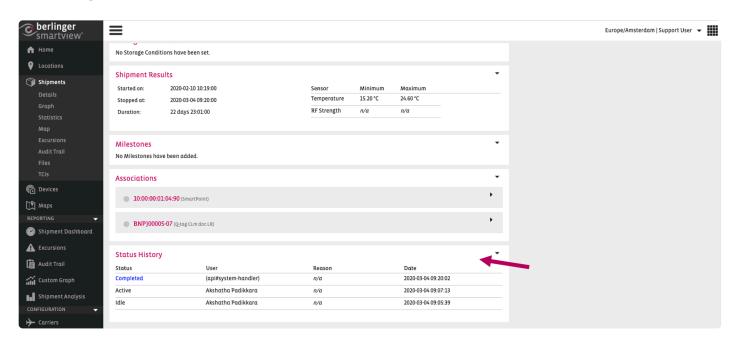
Manually approve, decline or archive

Options to manually approve, decline or archive the current shipment.
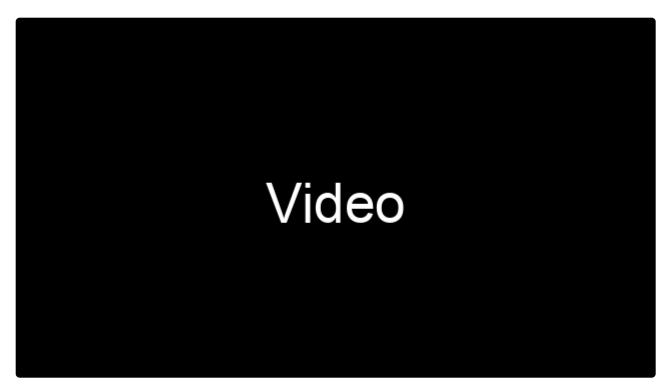
(Re-open becomes available once it has been manually changed)

History

History of state changes and who triggered it (if automatic it will show it is done by the system "user")
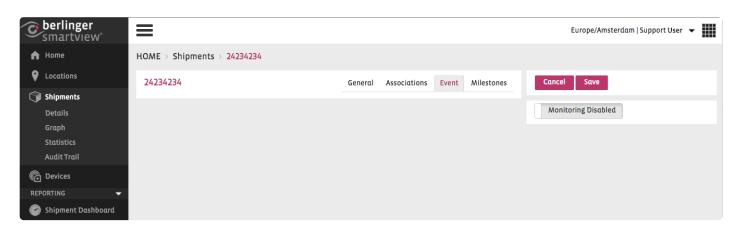
6.3. Add an Event Profile to Shipment
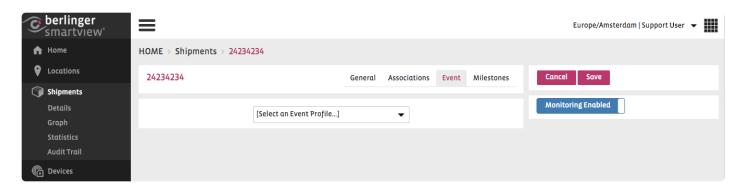
https://player.vimeo.com/video/175365680

https://player.vimeo.com/video/175365680
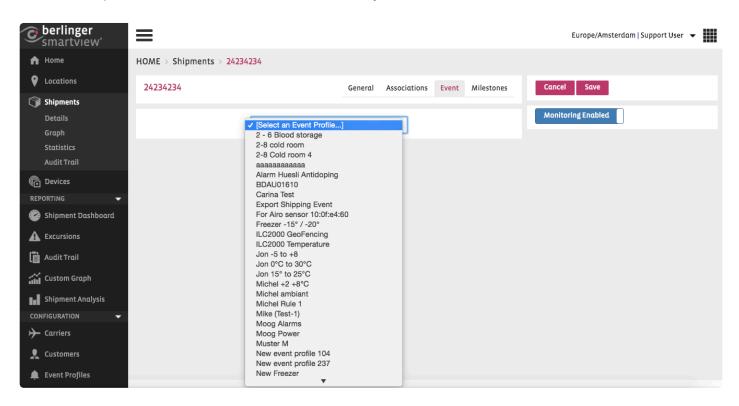
To add an Event Profile to the Shipment, click on the "Event" tab in the Modify screen of the Shipment:

Click on the Monitoring button, to enable the Event Monitoring:

From the dropdown list, select the Event Profile which you have created.
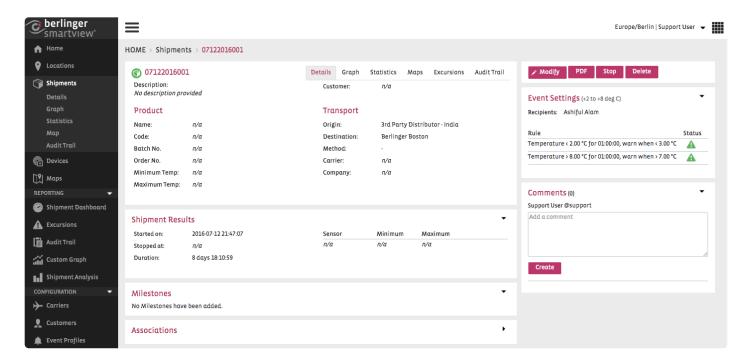
Click on **Save** to save your Event Profile to this Shipment.

6.4. Stopping a shipment

A shipment that is monitored by wireless sensors should be stopped in order to make use only of the relevant data related to the shipment. Stopping a shipment automatically disassociates all Smart Sensors from a shipment and also creates the final shipment report.

Note: Stopping a shipment is not possible for shipments with an associated Q-tag. As the start time and stop time of such shipments is determined based on the start and stop time of the associated Q-tag data files uploaded by the user, it is not possible for a user to define the start and stop for such a shipment. The information will be derived automatically from the devices.

The shipment can be stopped from the View screen of the individual shipment, by clicking on the **Stop** button.

The shipment is stopped in two steps:

Enter the stop time (this indicates the moment that the wireless devices or GPS/GPRS devices are removed from the shipment).

Press the OK button.
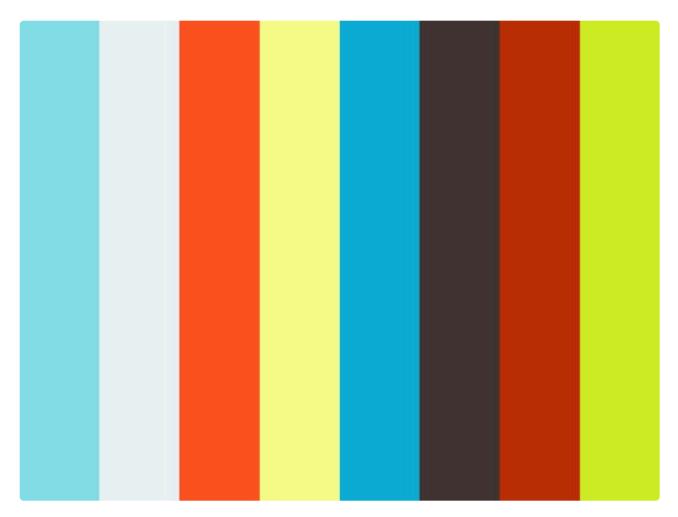
Note: To support the reliability of this procedure, the system only allows a stop-time that is close to the current system time (based on a user-defined allowed time frame).

Note: Idle shipments can be stopped.

6.5. Creating a Milestone for Shipments

SmartView allows a user to document a useful information related to a specific shipment by allowing the user to add a milestone to the shipment.

For example, to document the arrival of a shipment to a location, a user can add a milestone "*Shipment arrived at location X*" with the time stamp of the arrival.
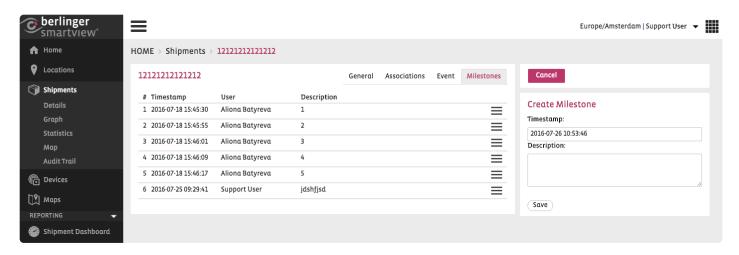
https://player.vimeo.com/video/176302328

https://player.vimeo.com/video/176302328

To create a milestone go to the Shipment and click on the **+ Milestone** button. Under this tab you can see all the milestones related to this shipment that have already been defined or add new Milestones if necessary.

- Select the date and time of the milestone in the Date field
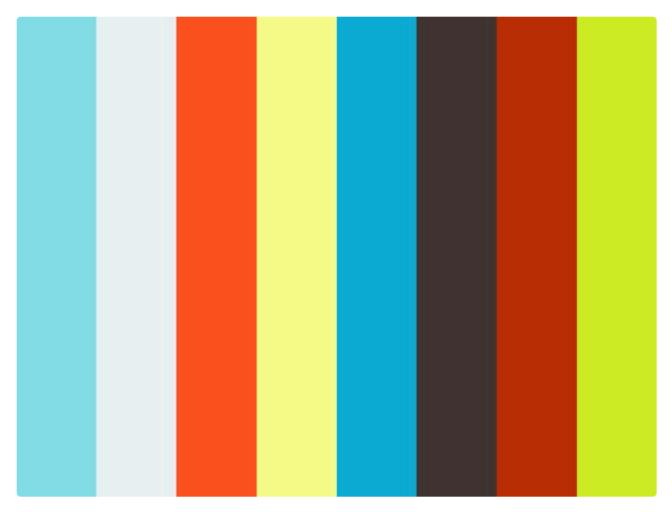
- Provide a short description for the milestone and click the button.

You can visualise your milestones both on the Shipment Graph and on the Shipment PDF report.

6.6. Shipment Relevant Time

In certain cases you may want to modify the relevant time of a Shipment. This may be, due to fact that one or more associated sensors were started earlier or stopped later than the actual **start** or **stop time** of a shipment. Rather than modifying each of the sensor timestamp, SmartView allows you to define the correct time by setting a relevant time to the Shipment.
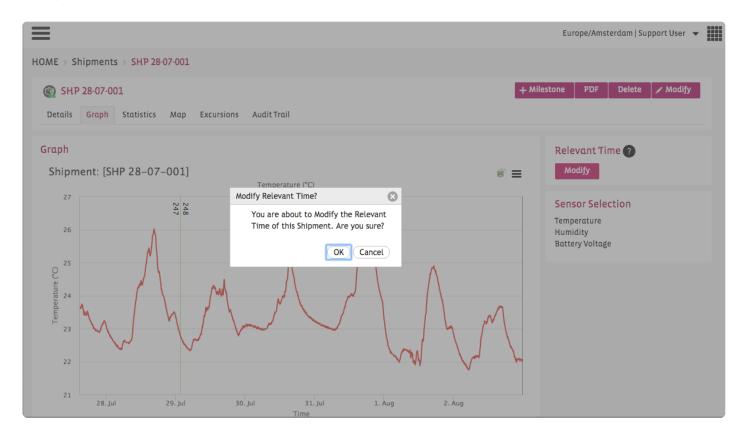
https://player.vimeo.com/video/178443573

Modify Relevant Time
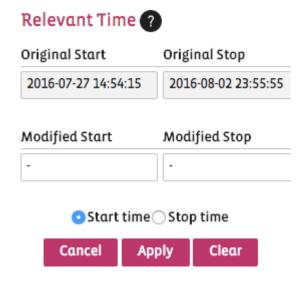
This option can be accessed by clicking on   in the Shipment Graph. As shown in the following screen, you will asked to confirm your action to access the option to modify the relevant time of the Shipment.

Click on OK to continue access to modify the Shipment relevant time and follow the following steps:

Select Modified Time: Click Start time or Stop time button for the time that you want to modify. You can define the time in the Modified time box. You can select the modified time for both Start and Stop time or for either of them. After you have chosen the time, like shown in the following image, the screen will show grey coloured background for the trimmed part of the data due to the modification.

You can click on the Clear button to deselect the chosen modified time and reselect the time again. If you do not wish to modify the time click on the Cancel button and you will return to original graph screen.

Note: When modifying relevant time may affect the excursion information.
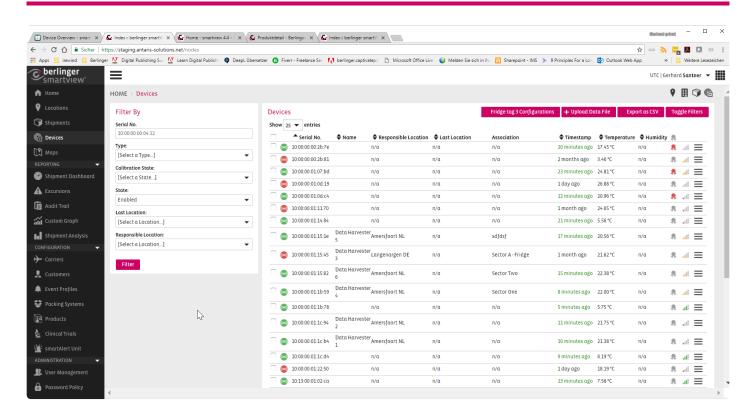
7. Devices

The type of devices supported by SmartView:

- **Wireless active RFID sensors**. The SmartPoints and the AiroSensors can be employed as wireless sensors for static monitoring and can be used for RF Data Logging applications.
These sensors use wireless networks to automatically forward data to the SmartView application.

- **Q-tag CLm Doc family**. Users can utilize the Q-tag CLm Doc to log temperature measurements during a shipment. The SmartView system supports different types of Q-tag devices like Dry Ice (D), Logger (L) and Reusable ®. When the Q-tag data file is uploaded into the SmartView system, users can use SmartView to view detailed information regarding the measurements of the shipment. In addition, users can benefit from the reporting and analysis functionalities of SmartView.

- **Fridge-tag family**. Users can utilize the Fridge-tag 2 L to log temperature measurements at different locations or during a shipment. The SmartView system supports the Fridge-tag 2 L. When the data file is uploaded into the smartview system, users can use smartview to view detailed information regarding the measurements of the monitored goods. In addition, users can benefit from the reporting and analysis functionalities of SmartView. By integrating our Fridge-tag 3 devices into SmartView we offer the best of two worlds: Having a stand alone device which is sending out alarms by SMS directly to defined recipients, and in parallel reporting to SmartView providing access to all relevant functionality of our data management software.

- Fridge-tag 2 L
- Fridge-tag 3

- **GPS/GPRS monitoring devices**. Sendum PT300 is a GPRS monitoring device that can be placed either on packages during shipments in order to create real-time in-transit visibility or in temperature-controlled transportation vehicles.

- Sendum PT300

7.1. Device Overview

The device overview shows all devices in use with their current information.
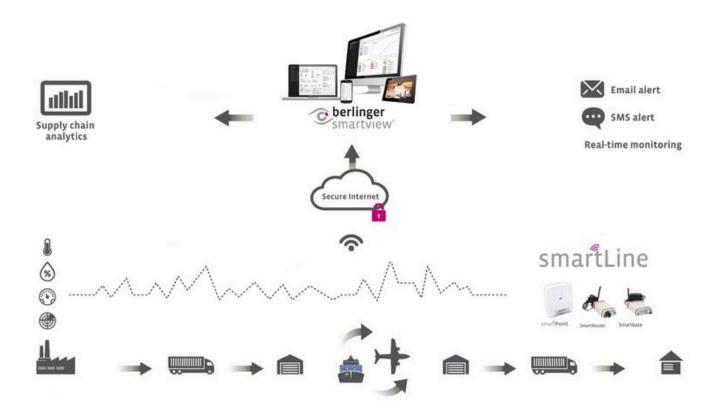
7.1.1. SmartPoints

Data transmission

SmartPoints wirelessly communicate with a wireless network consisting of a SmartGate and SmartRouters that extend the range of the communication.

Logging and flushing

In range of a wireless network, SmartPoints provide real-time information. Outside a wireless network, SmartPoints log their measurements, and automatically download this log upon arrival in a wireless network. From the SmartGate, the sensor measurements are securely communicated to the central Berlinger SmartView web application. This provides an integrated real-time view on shipments and storage facilities.

Features

SmartPoints are small, battery-operated, intelligent wireless sensing devices with 2MB on board data storage, advanced logging & flushing technology, and low energy consumption. SmartPoints have an accurate internal temperature and humidity sensor, ideal for any application where relative humidity must be monitored and EN12830 compliance is required. With a magnetic reed switch for triggering behaviour, and a LED for visual inspection. Both sensors can be calibrated based on ISO/IEC 17025 standards.

7.1.2. CLm Doc family

Supported Devices by SmartView are:

- Q-tag CLm doc
- Q-tag CLm doc L (Logger)
- Q-tag CLm doc LR (Reusable)
- Q-tag CLm doc Ice (Logger)
- Q-tag CLm doc Ice R (Reusable)
- Q-tag CLm doc D (Dry Ice)
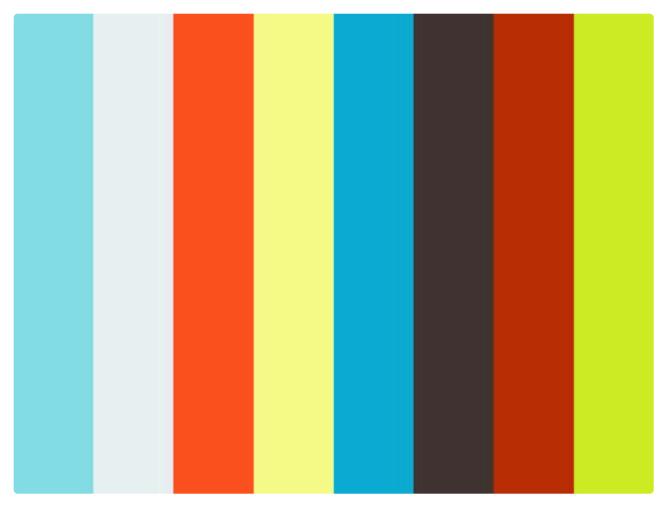
Uploading CLm doc data files

Note : Before you upload a CLm doc data file make sure the CLm doc device is already registered for your site. If the device has not been registered to your site you cannot upload the data file.

To upload a new CLm doc data file in the system go to the menu item "Devices" and click on the
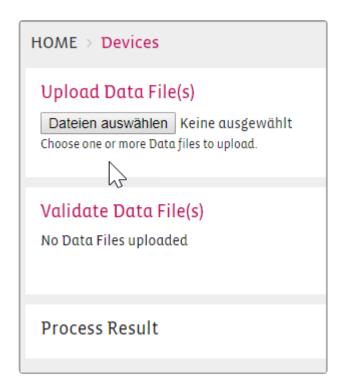
button.

https://player.vimeo.com/video/232785719
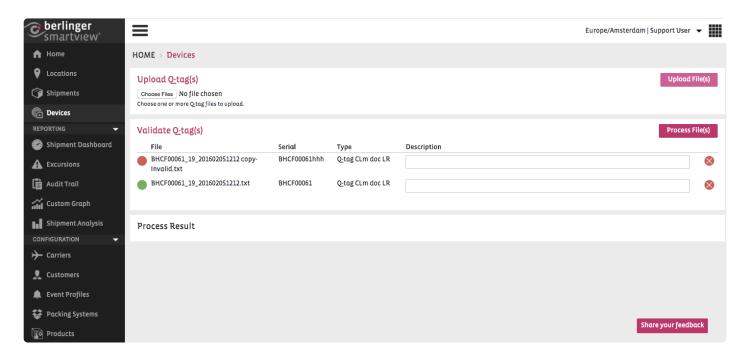
The following screen will appear, allowing you to choose the Clm doc files which you would like to upload:

Uploading a CLm doc file is a three step process.

Step 1: Select File(s). Choose Q-tag file(s) and click the Upload File(s) button.

Step 2: Check File(s). After the Q-tag data files are uploaded, in the second step the system will check the integrity of the files. You will be notified if any file is invalid or its integrity has been compromised or if the file has been uploaded to the system earlier.
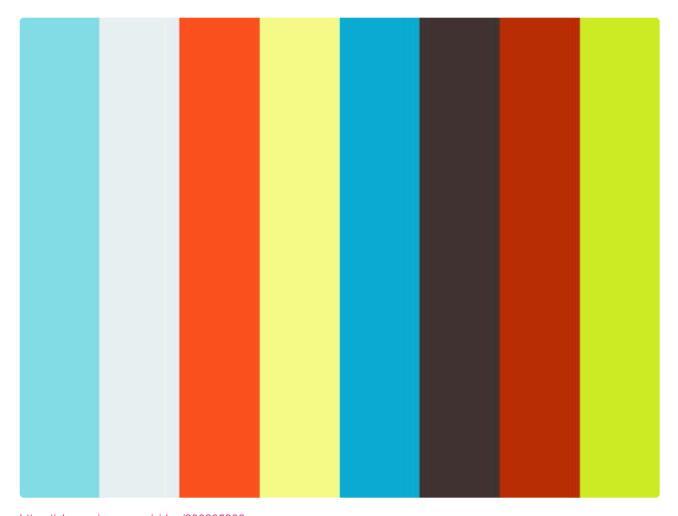
Step 3: Process Files. Finally click the [Process File(s)] button to store the Q-tag data into the system. If any Q-tag device ID does not exist in the system, this process will also ensure the inclusion of the Q-tag device ID in the system. If the Q-tag devices are already associated with any shipment, this process will also make an update in the shipment information such as filling the start time of the shipment.

After the files are processed, the results will be shown in the Results section. You will be notified about how many of the files have been processed and how many of them are ignored.

CLm doc family e-mail data upload

Watch the video to see how the CIm doc family data files are sent by E-mail to smartview.
The e-mail address for the e-mail data upload is **qtag-upload@smartview.berlinger.com**.

https://player.vimeo.com/video/206205338

7.1.3. Fridge-tag family

Supported Devices by SmartView are:

- Fridge-tag 3
- Fridge-tag 2 L
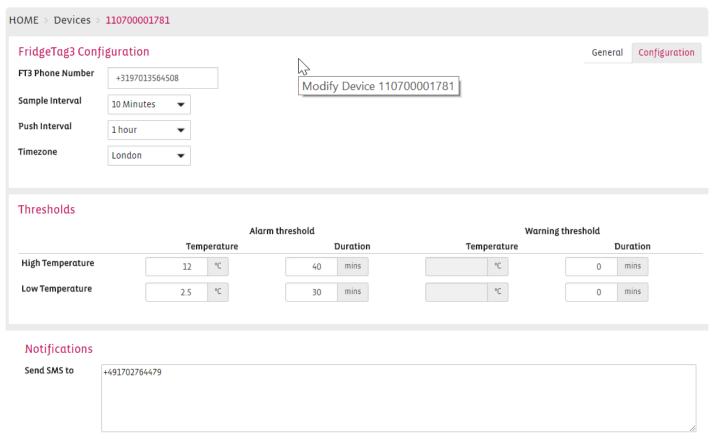
Fridge-tag 3

Key-Features Fridge-tag 3

- Temperature data is shown in a Graph
- Fridge-tag 3 devices can be associated to Sectors
- Temperature and non-temperature related events from the device are converted to Notifications in SmartView
- Daily Statistics are stored in SmartView and can be viewed and exported as PDF
- Device Event notifications are stored in SmartView
- Two different Email Recipient lists are available: one for the temperature related Notifications and another one for non-temperature related Notifications
- Excursions from the device are converted to Excursions in SmartView when the device is associated to a Sector
- Sector and Device offline Notifications are supported when the Device is associated to a Sector
- Full support of the SmartView Excursion management and tracking
- Full support of the SmartView Audit Trail
- Device can be configured in SmartView, allowing the user to change all relevant Settings
- Configurations can be saved as Templates for easy assignment to multiple Devices

Fridge-Tag 3 Configuration

HOME > Devices > 110700001781

FridgeTag3 Configuration

General   Configuration

FT3 Phone Number	+3197013564508
Sample Interval	10 Minutes
Push Interval	1 hour
Timezone	London

Modify Device 110700001781

Thresholds

	Alarm threshold		Warning threshold	
	Temperature	Duration	Temperature	Duration
High Temperature	12 °C	40 mins	°C	0 mins
Low Temperature	2.5 °C	30 mins	°C	0 mins

Notifications

Send SMS to

+491702764479

Add one number per line, with a maximum of 5.

Fridge-Tag 3 General Information

HOME › Devices › 110700001684

📶 110700001684

Details   **Graph**   **Associations**   **Configuration**   **Email recipients**   **Events**   **Statistics**   **Audit Trail**

General information

Firmware version:	3.1p0-pre4o - Dec 12 2017,18:08:56
GSM module version:	12.00.716
IMEI:	355857052319518
Mobile number:	+15662610365
Mobile gateway:	+12199999294
SIM ID:	89014104279625498183
Device model:	FT-3 HW v4
Initial CID:	19
Timezone	America/New_York

- Firmware version
- GSM module version
- IMEI
- Mobile number
- Mobile gateway
- SIM ID
- Device model
- Initial CID
- Timezone

Fridge-tag 2 L

Key-Features Fridge-tag 2 L
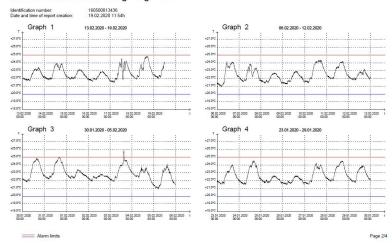
- Log temperature measurements at different locations or during a shipment.
- Upload to SmartView manually
- Status Checks of the device are shown in the column of the daily statistics
- Device time zone is now integrated in PDF reports
- Data gaps are now shown in the PDF report as "-", when including the measurements

The Fridge-tag 2 L measures the ambient temperature. If one of the two alarm limits is exceeded or fallen below, an alarm will be triggered on the display and/or is audible as an audio signal. A quick decision and immediate action is thus possible. The PDF/A report, now also with a temperature curve, can be generated without additional software. The Fridge-tag 2 L is optionally available with an external temperature sensor (measures till –40°C / –40°F)

PDF document of the Fridge-tag® 2 L

Identification number: 160500013436
Date and time of report creation: 19.02.2020 11:54h
Activation date: 03.12.2019 13:34h
Upper alarm limit: Above +25.0°C for 1h
Lower alarm limit: Below +20.0°C for 15min
Measurement interval:[1] 1min (fixed)
Logging interval: 5min

No.	Date (dd.MM.yyyy)	Events[2]	Average temp.	Lower alarm limit				Upper alarm limit				Ext. sensor connection error			Signature / notes Action taken
				Status	Min. temp.	Cumulative daily time below the limit	Alarm trigger time	Status	Max. temp.	Cumulative daily time above the limit	Alarm trigger time	Status	Duration	Alarm trigger time	
29	22.01.2020		+22.6°C	ok	+21.5°C	0min		ok	+24.1°C	0min		ok	0min		
30	21.01.2020		+22.8°C	ok	+21.6°C	0min		ok	+24.1°C	0min		ok	0min		
31	20.01.2020		+22.8°C	ok	+21.3°C	0min		ok	+24.4°C	0min		ok	0min		
32	19.01.2020		+21.9°C	ok	+21.5°C	0min		ok	+22.4°C	0min		ok	0min		
33	18.01.2020		+22.3°C	ok	+21.7°C	0min		ok	+22.7°C	0min		ok	0min		
34	17.01.2020		+23.2°C	ok	+22.0°C	0min		ok	+24.7°C	0min		ok	0min		
35	16.01.2020		+23.2°C	ok	+21.9°C	0min		ok	+25.0°C	0min		ok	0min		
36	15.01.2020		+22.8°C	ok	+21.6°C	0min		ok	+24.1°C	0min		ok	0min		
37	14.01.2020		+22.6°C	ok	+21.5°C	0min		ok	+23.9°C	0min		ok	0min		
38	13.01.2020		+22.6°C	ok	+21.3°C	0min		ok	+24.1°C	0min		ok	0min		
39	12.01.2020		+21.9°C	ok	+21.5°C	0min		ok	+22.6°C	0min		ok	0min		
40	11.01.2020		+22.4°C	ok	+21.8°C	0min		ok	+22.8°C	0min		ok	0min		
41	10.01.2020	a.09:41	+23.1°C	ok	+21.9°C	0min		ok	+24.3°C	0min		ok	0min		
42	09.01.2020		+22.9°C	ok	+21.8°C	0min		ok	+24.2°C	0min		ok	0min		
43	08.01.2020		+22.5°C	ok	+21.7°C	0min		ok	+23.8°C	0min		ok	0min		
44	07.01.2020		+22.4°C	ok	+21.0°C	0min		ok	+24.9°C	0min		ok	0min		
45	06.01.2020	13:44	+22.4°C	ok	+21.2°C	0min		ok	+24.9°C	0min		ok	4min		
46	05.01.2020		+21.8°C	ok	+20.4°C	0min		ok	+22.5°C	0min		ALARM	11min	17:17h	
47	04.01.2020		+21.9°C	ok	+21.5°C	0min		ok	+22.2°C	0min		ok	0min		
48	03.01.2020		+21.8°C	ok	+21.1°C	0min		ok	+22.6°C	0min		ok	0min		
49	02.01.2020		+21.5°C	ok	+21.1°C	0min		ok	+22.2°C	0min		ok	0min		
50	01.01.2020		+21.5°C	ok	+21.2°C	0min		ok	+21.9°C	0min		ok	0min		
51	31.12.2019		+21.6°C	ok	+21.1°C	0min		ok	+22.4°C	0min		ok	0min		
52	30.12.2019		+21.6°C	ok	+21.1°C	0min		ok	+22.1°C	0min		ok	0min		
53	29.12.2019		+21.6°C	ok	+21.1°C	0min		ok	+22.3°C	0min		ok	0min		
54	28.12.2019		+21.5°C	ok	+20.7°C	0min		ok	+22.1°C	0min		ok	0min		
55	27.12.2019		+20.8°C	ALARM	+18.1°C	2h	09:32h	ok	+21.8°C	0min		ALARM	9h 31min	00:00h	
56	26.12.2019		+20.0°C	ALARM	+19.4°C	6h 9min	07:17h	ok	+21.0°C	0min		ALARM	11h 14min	12:58h	

1) Sampling and data analysis every minute
2) t = time / date changed, a = alarm configuration changed, hh:mm = status checked

Date and place: _____   Signature: _____   Page 3/4

PDF document of the Fridge-tag® 2 L

Identification number: 160500013436
Date and time of report creation: 19.02.2020 11:54h

Graph 1   13.02.2020 - 19.02.2020
Graph 2   06.02.2020 - 12.02.2020
Graph 3   30.01.2020 - 05.02.2020
Graph 4   23.01.2020 - 29.01.2020

Alarm limits   Page 2/4
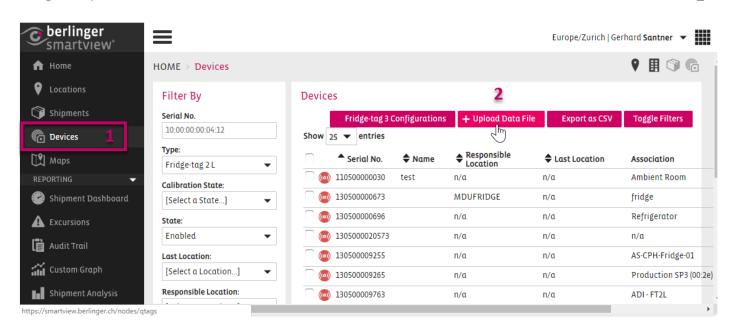
Uploading Fridge-tag 2 L data files
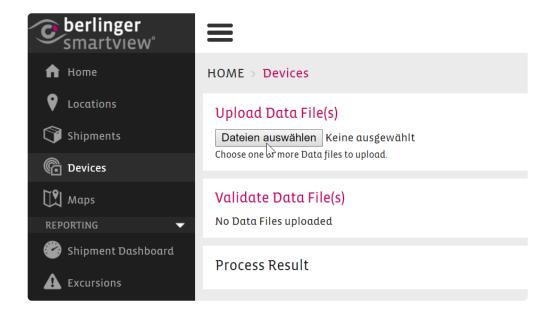
Note : Before you upload a Fridge-tag 2 L data file make sure the Fridge-tag 2 L is already registered for your site. If the device has not been registered to your site you cannot upload the Fridge-tag 2 L data file.

To upload a new Fridge-tag 2 L data file in the system go to the menu item "Devices" and click on the

+ Upload Data File
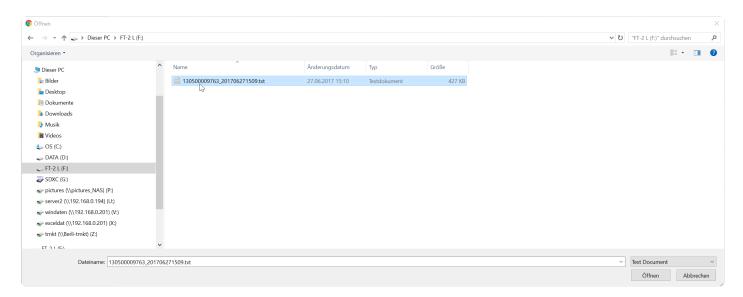
The following screen will appear, allowing you to choose the Fridge-tag 2 L files which you would like to upload:
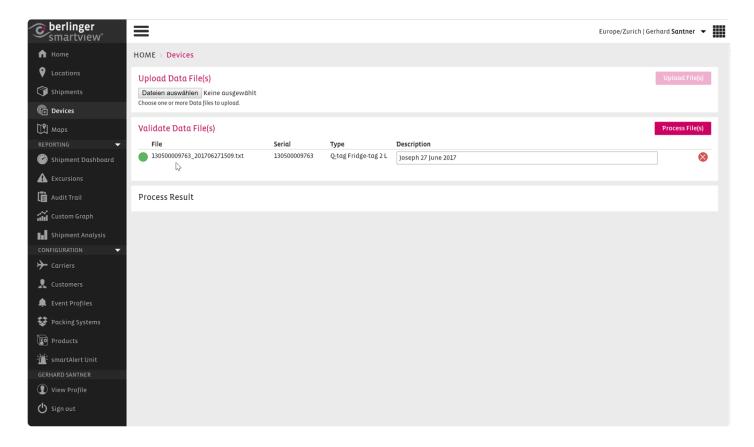
Uploading a Fridge-tag 2 L file is a four step process.

Step 1: Select File(s). Choose Fridge-tag 2 L file(s) and click the Upload File(s) button. You can upload serveral files at one time, but only one file per device.

Step 2: Check File(s). After the Fridge-tag 2 L data files are uploaded, in the second step the system will check the integrity of the files. You will be notified if any file is invalid or its integrity has been compromised or if the file has been uploaded to the system earlier.

Step 3: Process Files. Finally click the button to store the Fridge-tag 2 L data into the system. If any Fridge-tag 2 L device ID does not exist in the system, this process will also ensure the inclusion of the Fridge-tag 2 L device ID in the system. If the Fridge-tag 2 L devices are already associated with any shipment, this process will also make an update in the shipment information such as filling the start time of the shipment.

After the files are processed, the results will be shown in the results section. You will be notified about how many of the files have been processed and how many of them are ignored.

Step 4: Select Timezone. The timezone can be selected when uploading the file. Last setting will be stored as a default, no need to choose the timezone everytime when uploading. To be sure that you have chosen the right timezone you have to confirm the timezone with "ok".

7.1.4. Sendum PT 300

The Sendum PT300

Functions
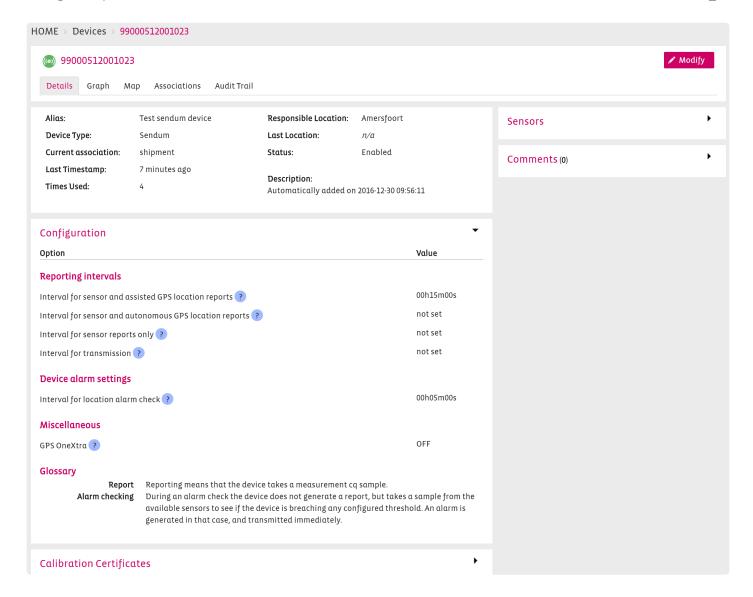
With the Sendum the following measurements can be tracked in smartview:

Sensors

- Temperature
- Humidity
- Battery Voltage
- Air Pressure
- Light intensity
- RF Strength
- Tilt
- Battery percentage
- Shock force

Sensors ▼

Sensor	Value	Timestamp
Temperature	23.90 °C	2017-03-02 13:57:24
Humidity	27.00 %	2017-03-02 13:57:24
Battery Voltage	3.99 V	2017-03-02 13:57:24
Air Pressure	1007.85 mbar	2017-03-02 13:57:24
Light intensity	379.95 lux	2017-03-02 13:57:24
RF Strength	-66.00 dBm	2017-03-02 13:57:24
Tilt	3.00 °	2017-03-02 13:57:24
Battery percentage	80.21 %	2017-03-02 13:57:24
Shock force	35.19 g	2017-01-27 10:16:06

Configuration Settings

HOME › Devices › 99000512001023

(◉) 99000512001023   ✎ Modify

Details   Graph   Map   Associations   Audit Trail

Alias:	Test sendum device	Responsible Location:	Amersfoort
Device Type:	Sendum	Last Location:	*n/a*
Current association:	shipment	Status:	Enabled
Last Timestamp:	7 minutes ago		
Times Used:	4		

Description:
Automatically added on 2016-12-30 09:56:11

Sensors ▸

Comments (0) ▸

Configuration ▾

Option	Value
Reporting intervals	
Interval for sensor and assisted GPS location reports ?	00h15m00s
Interval for sensor and autonomous GPS location reports ?	not set
Interval for sensor reports only ?	not set
Interval for transmission ?	not set
Device alarm settings	
Interval for location alarm check ?	00h05m00s
Miscellaneous	
GPS OneXtra ?	OFF

Glossary

Report — Reporting means that the device takes a measurement cq sample.
Alarm checking — During an alarm check the device does not generate a report, but takes a sample from the available sensors to see if the device is breaching any configured threshold. An alarm is generated in that case, and transmitted immediately.

Calibration Certificates ▸

✳ You can see all configuration settings of the Sendum in SmartView. Changes in the configuration can not be made within SmartView.
Please contact our support team support@berlinger.com to help you configuring the Sendum in the right way.

Modifications in SmartView

Modification can be made for:
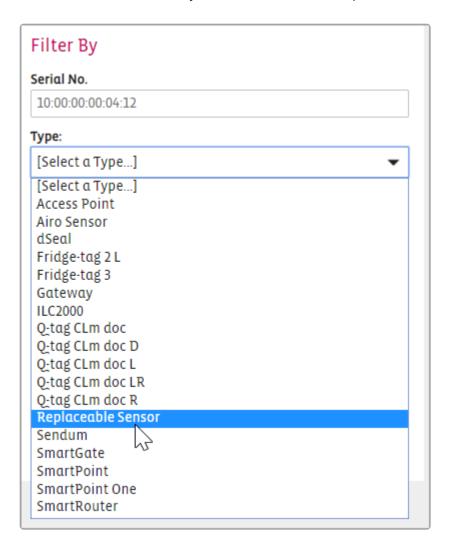
- State: enabled or disabled
- Responsible Location: e.g. Amersfoort (This is the home base of the device)
- Name of the Device: for e.g. Sendum #1
- Description: e.g. when was the device added to the system

HOME › Devices › 99000512001023

General

General   Cancel   Save

Serial No:

99000512001023

State:

Enabled   ▼

Responsible Location:

Amersfoort   ▼

Name:

Test sendum device

Description:

Automatically added on 2016-12-30 09:56:11
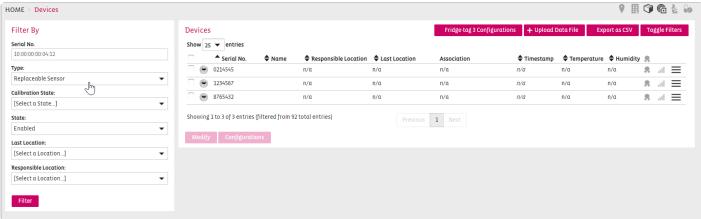
7.1.5. Replaceable Sensor

Quick and easy viewing of replaceable sensor information.
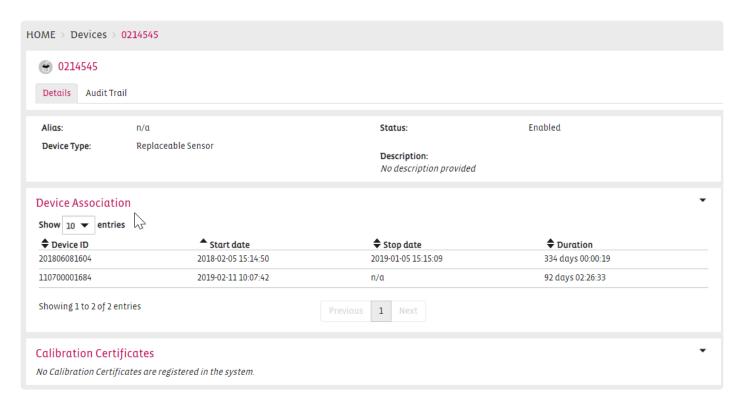
Go to Devices and Filter by Device and choose "Replaceable Sensor"

Replaceable sensor associations can be viewed on the device detail page.

HOME > Devices > 0214545

0214545

Details   Audit Trail

Alias:	n/a	**Status:**	Enabled
Device Type:	Replaceable Sensor	**Description:**	
			No description provided

Device Association ▾

Show 10 ▾ entries

⬍ Device ID	▲ Start date	⬍ Stop date	⬍ Duration
201806081604	2018-02-05 15:14:50	2019-01-05 15:15:09	334 days 00:00:19
110700001684	2019-02-11 10:07:42	n/a	92 days 02:26:33

Showing 1 to 2 of 2 entries

Previous   **1**   Next

Calibration Certificates ▾

No Calibration Certificates are registered in the system.

✱ The replaceable sensors are included in the shipment or sector pdf / csv reports. Association history of a replaceable sensor is available. The sensor association history will be tracked in the association tab.
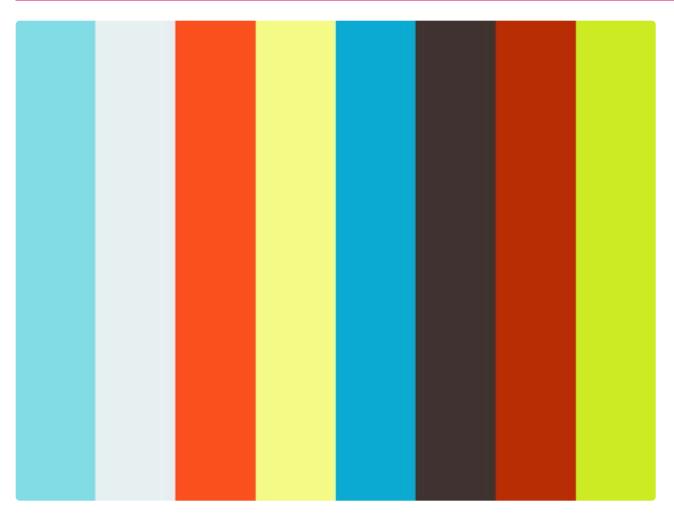
7.2. Device Icons

Icon	Meaning	Description
	Q-Tag device	No log files have been uploaded yet.
	Q-Tag device	The log files have been uploaded.
	Wireless device	The device has reported within the last hour.
	Wireless device	The device has reported within the last 24 hours.
	Wireless device	The device has not reported in more than 24 hours.
	GPS/GPRS device	The device has reported in the last hour.
	GPS/GPRS device	The device has reported within the last 24 hours.
	GPS/GPRS device	The device has not reported in more than 24 hours.

7.3. Calibration Icons

Icon	Description
	Calibration certificate available.
	Calibration certificate is about to expire.
	Calibration has expired.
	No calibration certificate available.

7.4. Manage and modify devices

https://player.vimeo.com/video/178596638

The modify screen of a device, enables you to edit certain settings of a specific sensor:

- State: enabled, disabled or out of service
- Responsible location.
- Name: a meaningful description that can be used to identify the sensor device.
- Description

Changing the state of a sensor

Devices have a default status of '**Enabled**'. The status can be changed to '**Disabled**' or to '**Out of Service**'.
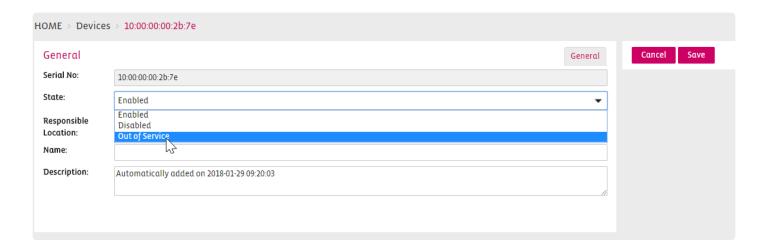
*Status disabled:** This supports situations where sensors should not be used temporarily in sectors or shipments anymore., Incoming data will still be processed and is available on the device level. For example assumed malfunctioning or expired calibration certification. The status can be switched back to enable at any time.
.

To disable a device simply click on the device, then click on to change the state.
*Status out of service for SmartPoint devices only:** With this state, the device is no longer assigned to the site, incoming data will be rejected. All existing data of the device is still available. This is useful if a device is lost or shouldn`t be used anymore. By setting the state to Out of Service the device is no longer considered for the invoicing accordingly to the SLA agreement. This process cannot be reversed.

> ! Status "Out of Service" for SmartPoint devices only

Assigning a Responsible Location

A Responsible Location is a location within a corporate organization that bears the responsibility for a specific device. The location may be a location with a wireless network, but may also be a location where shipments originate, but no wireless network is available. To improve the management of a pool of devices within a corporate organisation, it is possible to assign the responsible location. To assign a responsible location, access the modify page of the device and select the Responsible Location from the list.

Note: the Responsible Location will be automatically overwritten by the system with the current network location, when the device starts to report from a network location that is different from the manually assigned location.

Choosing a Name

Assigning a name to a device, helps the user recognise it easier in the system. The name will appear throughout the system and its changes are are also reflected throughout the system. Define the Name in the Name field and click 'Save' to save the change.

Assigning a descriptive note
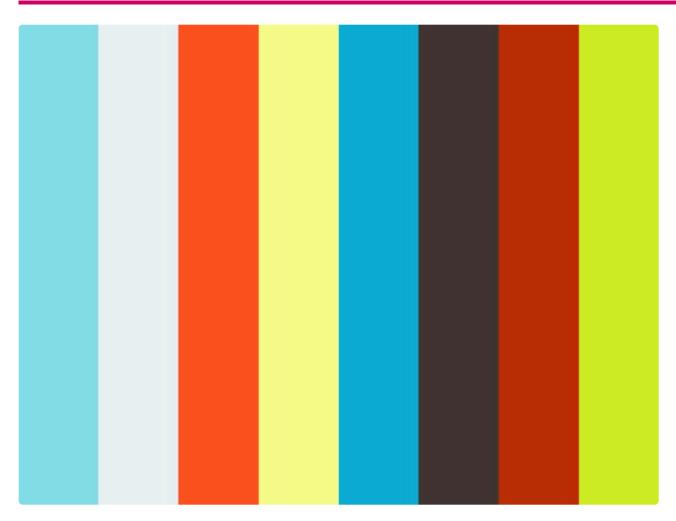
Besides the alias, you can also define a descriptive note for a device.

7.5. Device Association

To monitor a sector or a shipment, the specific devices need to be associated accordingly. Therefore you can:

1. Add an Association to a Shipment
2. Add an Association to a Sector
3. Associate an external Sensor to a Fridge-tag 2 / Fridge-tag 3

7.5.1. Association to a Sector
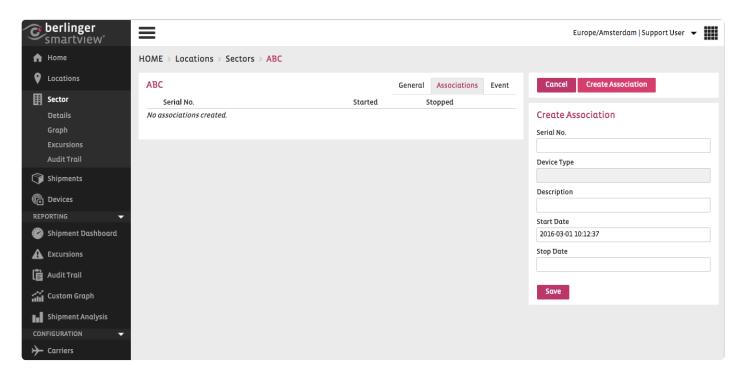
https://player.vimeo.com/video/178156803

https://player.vimeo.com/video/178156803

After creating a sector, you can associate a Device to it by clicking on the **Create Association** as shown in the following image:

Click in the Serial No. field to choose your Device for the Sector.

Select or modify the Start Date and click on **Save**
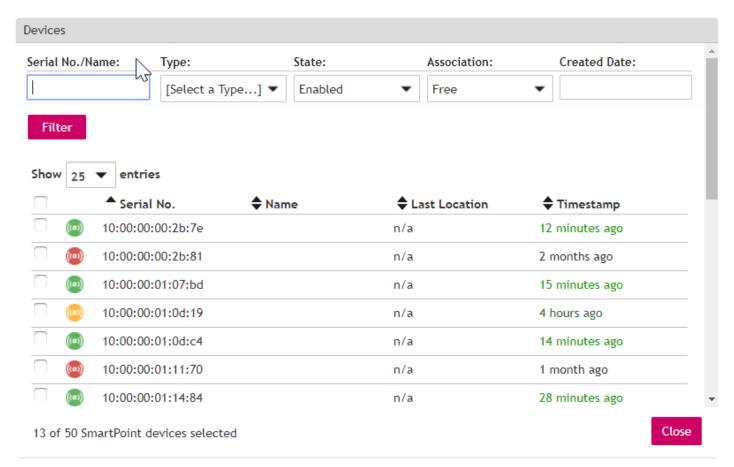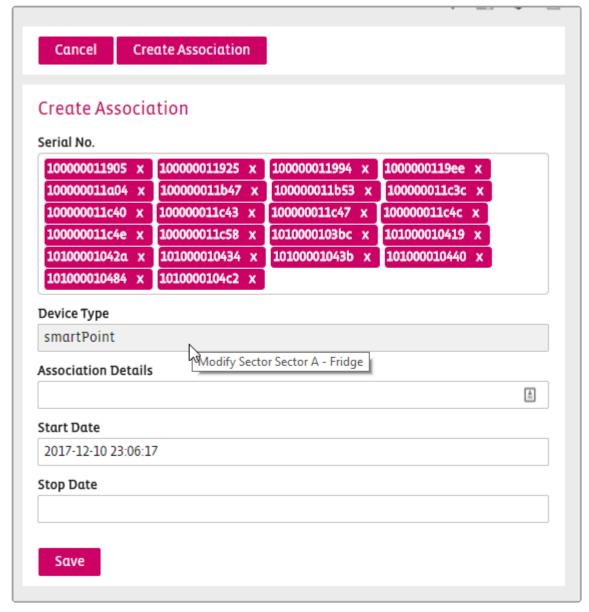
You can repeat this process for as many Devices as you would like to add to your Sector.

Associate up to 50 Devices to a Sector

You can mark an assacioate up to 50 devices to a sector.

Devices

Serial No./Name:	Type:	State:	Association:	Created Date:
	[Select a Type...] ▼	Enabled ▼	Free ▼	

Filter

Show 25 ▼ entries

☐		▲ Serial No.	⬍ Name	⬍ Last Location	⬍ Timestamp
☐	(●)	10:00:00:00:2b:7e		n/a	12 minutes ago
☐	(●)	10:00:00:00:2b:81		n/a	2 months ago
☐	(●)	10:00:00:01:07:bd		n/a	15 minutes ago
☐	(●)	10:00:00:01:0d:19		n/a	4 hours ago
☐	(●)	10:00:00:01:0d:c4		n/a	14 minutes ago
☐	(●)	10:00:00:01:11:70		n/a	1 month ago
☐	(●)	10:00:00:01:14:84		n/a	28 minutes ago

13 of 50 SmartPoint devices selected

Close

After selecting the devices the list on the right will be filled with the serial numbers of the devices and are marked purple red.

Cancel | Create Association

Create Association

Serial No.

100000011905 x | 100000011925 x | 100000011994 x | 1000000119ee x
100000011a04 x | 100000011b47 x | 100000011b53 x | 100000011c3c x
100000011c40 x | 100000011c43 x | 100000011c47 x | 100000011c4c x
100000011c4e x | 100000011c58 x | 1010000103bc x | 101000010419 x
10100001042a x | 101000010434 x | 10100001043b x | 101000010440 x
101000010484 x | 1010000104c2 x

Device Type

smartPoint

Association Details

Modify Sector Sector A - Fridge

Start Date

2017-12-10 23:06:17

Stop Date

Save

Click save to associate the devices.

7.5.2. Edit / stop / delete a Association

Stopping a <u>shipment</u> automatically disassociates all the Smart Sensors from the shipment. In specific situations, it may be required to disassociate individual sensors from a shipment, without stopping the complete shipment (so other sensors remain associated with the shipment). It may also be required to completely delete or edit an individual association of a shipment.

https://player.vimeo.com/video/178160824

For <u>associating sensors from one sector</u> to another, these need to first be dis-associated or the association needs to be stopped. At that point, the sensors become available again and can be used again for other sectors. This also applies for sensors that are simply being removed from the sector.
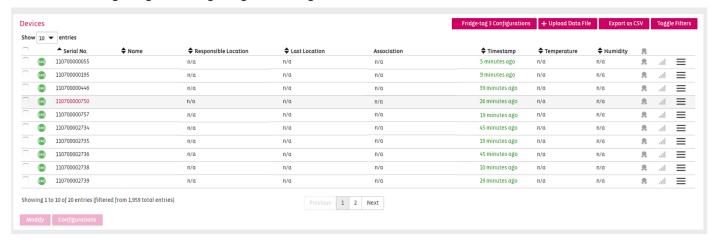
Note: Changing or deleting sensor associations for shipments or sectors is restricted to authorised users. This functionality should only be performed in exception situations, e.g. to correct data entry errors.

To edit an Association, you need to access the Modify screen of the Shipment/Sector where the association has been made. Then click on the ☰ button of the association and make the desired changes: edit/stop/ delete association.
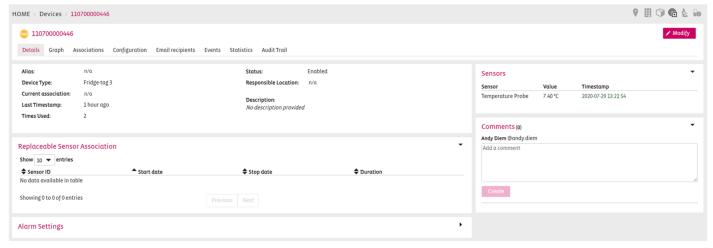
7.5.3. Associate a new Sensor to a Fridge-tag 2L / Fridge-tag 3

External Sensor for Fridge-tag 2L / Fridge-tag 3 can be associate to the device.

Choose the Fridge-tag 2l / Fridge-tag 3 to assign a new sensor:

Select
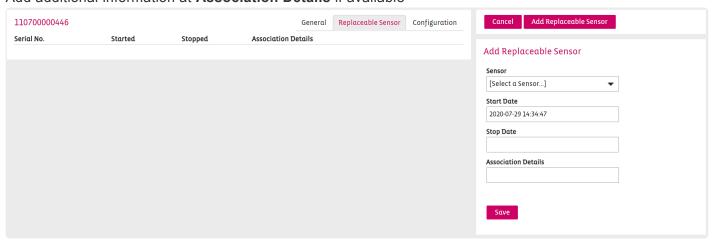
Select **Replaceable Sensor**:

HOME › Devices › 110700000446

General

| | General | Replaceable Sensor | Configuration |

Cancel   Save

Serial No:
110700000446

State:
Enabled

Responsible Location:

Name:

Description:
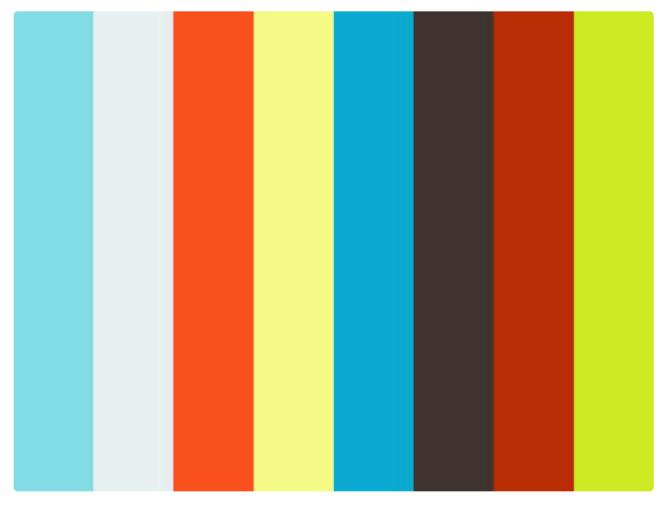
Add Replaceable Sensor by choosing the Sensor

Set start date and time

Add additional information at **Association Details** if available

110700000446   General | Replaceable Sensor | Configuration

Cancel   Add Replaceable Sensor

Serial No.	Started	Stopped	Association Details

Add Replaceable Sensor

Sensor
[Select a Sensor...]

Start Date
2020-07-29 14:34:47

Stop Date

Association Details

Save

7.6. Device calibration

The status of the calibration of each device in SmartView, can be identified in the device overview page in the column indicating a 🎖 calibration icon. When hovering over with the mouse, the information box will indicate the state of the calibration of the device and whether this is available.
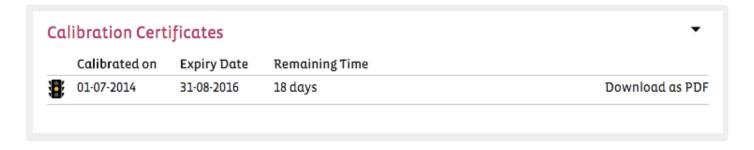
https://player.vimeo.com/video/178598225

The different states of the calibration certificates in the device overview page are indicated as follows:

Icon	Description
🎖	Calibration certificate available.
🎖	Calibration certificate is about to expire.
🎖	Calibration has expired.
🎖	No calibration certificate available.

The calibration of the devices can be checked also in the view page of each individual device, where it is also possible to download the certificate (if available) in PDF.

In this box, you will find all the details related to the calibration, including expiration date or remaining date until this will expire.

Calibration Certificates

	Calibrated on	Expiry Date	Remaining Time		
	01-07-2014	31-08-2016	18 days		Download as PDF

E.g. Calibration certificate:

VWR
We Enable Science
CALIBRATION CERTIFICATE

Page   1   of   2   Certificate number: **590009087**

Applicant data: Device under test:

Applicant	:	Antaris Solutions B.V.
Address	:	Arnhemseweg 6
Place	:	Amersfoort

Manufacturer	:	Berlinger
Type	:	SP3000T
Sort	:	Temperature Data Logger
Serial number	:	100000010D30
Identification number	:	-
Barcode	:	303621

Used reference standard(s):

Manufacturer	:	ASL / Jumo
Type	:	F500-A-6 / Pt100 4W
Expiry date	:	4-Mar-2016
Certificate nr	:	590001015
Identification nr.	:	195264 / 146220

Research method	:	The device under test is calibrated by comparing it with a reference instrument based on the ITS-90. The reference temperature probe and the device under test probe are placed together in a regulated climate chamber.
Environmental conditions	:	The ambient temperature is 21°C ± 7°C.
Traceability	:	The measurements are undertaken with calibration equipment for which the company maintains traceability to (inter-) national standards.

Calibration started	:	9-Feb-2016
Calibration finished	:	11-Feb-2016

Re-calibration date   :   11-Feb-2018

Results	:	The results are shown on the next page(s).

Calibrated by	:	Rida Tanane
		Technical Engineer

Signature:

Calibration Certificate Expiry Notification:

All devices are part to the <ins>calibration certificate expiry notification:</ins> SmartPoint, SmartPoint One, Fridge-tag 2 L, Fridge-tag 3

End-of-life Calibration

If the device is no longer in use and an End-of-Life calibration was conducted the Calibration status will show a green icon with not expiry date.

Calibration Certificates   ▾

	Calibrated on	Expiry Date	Remaining Time		
🚦	06-08-2020	n/a	n/a		Download as PDF

7.7. Geofence notifications

If you are using a GPS enabled Smart Sensor for your Shipment and want to ensure receiving notification email, then check and ensure the following steps:

Configure geofence(s) for the Location(s): SmartView will send Shipment notifications based on the detection of a GPS enabled Smart Sensor inside or outside of a geofence defined for a Location.
For example, if a sensor sends position information from within the geofence of a Location for the first time, SmartView will translate the Shipment's entry in that Location and will send notification email. In the same way SmartView will detect the Shipments exit from the Location and will send notification email.

E.g. Notification E-Mail when Shipment has left Location:

berlinger
smartview®

To Whom it may concern

ILC2000 02006143f5014009 has LEFT AMS (Amsterdam):

Shipment Details

ID:	20234
Name:	Shipment fo geofence

Smart Sensor Details

Name:	02006143f5014009
Timestamp:	2016-07-25 10:20:17 (UTC)
Location:	AMS (Amsterdam)

Best regards,
SmartView Support

If you want to get notification email for a Location, you have to make sure that the Location is defined in the SmartView with geofence specified for it (see section 9.3 for detail).

Main Recipients of the Shipment Event Settings: SmartView will use the main recipient of the Shipment Event Settings to send automatic notification emails. Before you add an Event Profile to a Shipment make sure that required recipients are defined.
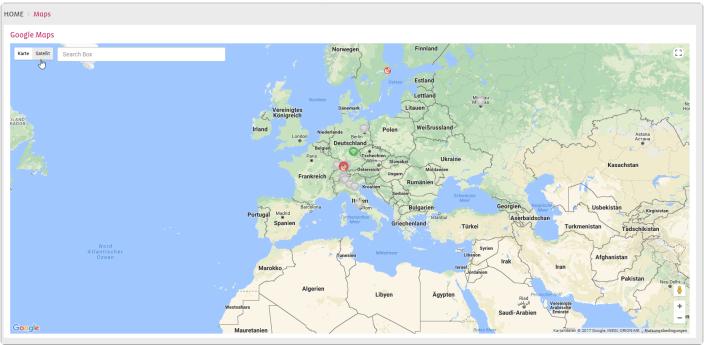
7.8. Monitoring with GPS/GPRS devices

The GPS/GPRS devices are autonomous battery-powered device for real-time monitoring of valuable shipments and transportation vehicles via the GSM network. The device contains a range of sensors, including temperature, humidity, battery Voltage, air pressure, light intensity, RF-strength, tilt, battery percentage and shock-force. The device also enables localisation of shipments with GPS and cellular localisation. The Sendum PT 300 automatically shuts off prior to aircraft take-off, and automatically turns back on when the aircraft lands. While in-flight, the device continues to collect sensor data.

Because of the device's capabilities to transmit the GPS location, it is also possible in smartview to draw a geofence around a location. Once the GPS/GPRS device will be associated to a shipment and once this will enter/leave the area that the geofence was defined, it will trigger an alarm and notify all the recipients defined in the event profile.

8. Maps

You will find an overview of all destinations which you have set up as Loocation/Destination on the Map.

If you click at one of the icons green, red or grey one you will get more detailed information about the device, like coordinates, status, type of device, etc.

Engineering
Mitteldorfstr. 2

Status: OFFLINE
Coordinates: [47.38,9.09]

9. Reporting

The SmartView application provides a number of reporting and analytical functionalities that enable users to review and analyze sensor data collected from their monitoring devices which are used both for shipment monitoring and for facility monitoring. The analytics and reporting module incorporates a number of functionalities which ensure the accessibility to the sensor data, provides aggregated information on the monitored shipments and enables personalized analysis depending on the required scope.

A description of their usability is displayed in the following table:

	Description	How to create	How to use	How to share
Shipment Report	Report for each individual Shipment. Includes temperature graph, excursion information and milestones.	Automatically created for each Shipment	Evaluate the complete information about an individual Shipment	On-line or in PDF format.
Custom graph	Report that combines data from multiple sensors (e.g. Q-tag CLm doc)	Manually, by selecting specific sensors	For specific tests such as Thermal Mappings.	Online or in PDF format.
Shipment Analysis Report	Report that provides a statistical analysis and overlay of multiple Shipments (maximum 20)	Manual, by selecting specific Shipments or directly from the View:Shipments	For example to analyze the performance on a specific shipping lane or from a specific transportation company	On-line or in PDF, JPG or Excel format
Shipment Dashboard	Aggregated information about excursions, transportation and the monitoring process	Automatic	For trend analysis, for example on the number of Shipments with excursions.	Online and by e-mail subscription

The reporting and analytics module provides a powerful tool that enables users to review the automatic generated sensor data and to perform custom analysis. This module is divided in four main functionalities which outputs have been described above and which can be used both for shipment and facility monitoring.

9.1. Shipment Dashboard

The Shipment Dashboard offers aggregated information about excursions, transportation and the monitoring process. The dashboard is generated automatically and moreover it is also possible to receive monthly subscriptions by e-mail. The dashboard enables trend analysis like for example on shipments with excursions on a specific trade lane.
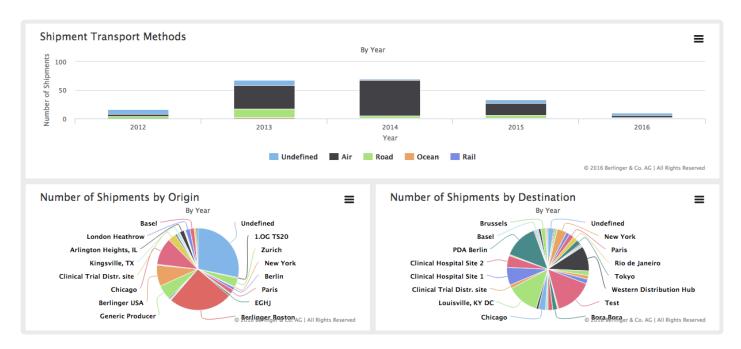
https://player.vimeo.com/video/178026101

Usability

The Shipment Dashboard provides statistical information based on different entities:

a) **Excursions**: statistical report of the excursions that have been identified based on selected time frames.

b) **Details**: overview of all the shipments that have been monitored and statistical analysis of the information related to the shipments (such as origin, destination, customer, products) based on a selected time frame.

c) **Device usage**: statistics based on the used monitoring devices and the information related to their use.

Shipment Transport Methods

By Year

Number of Shipments by Origin

By Year

Number of Shipments by Destination

By Year
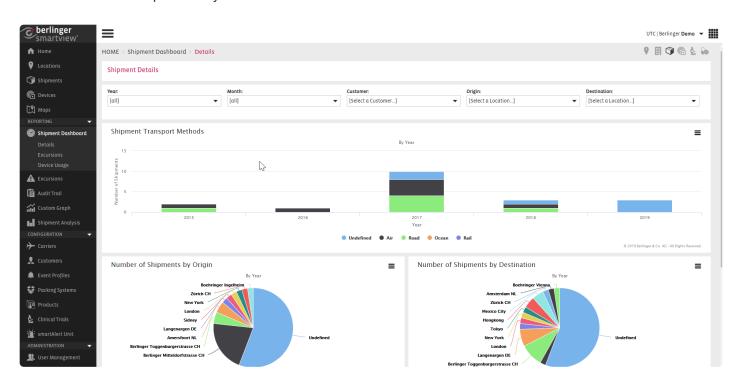
Tip: You have the option in SmartView to automatically receive a monthly update of the Shipment Dashboard by e-mail.

You can subscribe as follows: Navigate in the menu to Profile —> Support User and click to Subscriptions.

Make a tick at the **Transport Report**.

9.1.1. Shipment Dasboard Details

Shipment Dashboard Details

- Shipment Transport Methods
- Number of Shipments by Origin
- Number of Shipments by Destination
- Number of Shipments by Product
- Number of Shipments by Product

Filter by
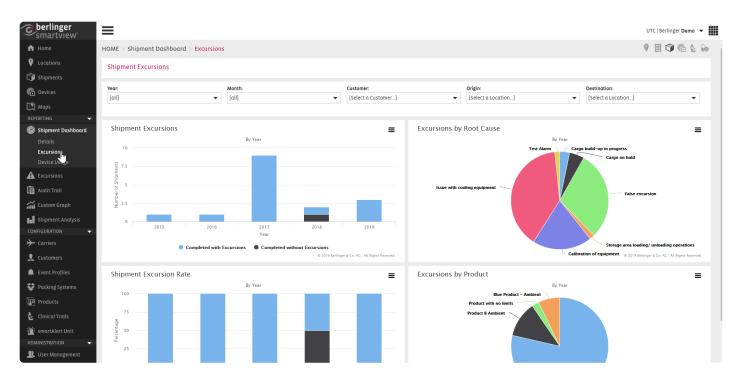
- Year
- Month
- Customer
- Origin
- Destination

9.1.2. Shipment Dashboard Excursions

Shipment Excursions Dashboard

- Shipment Excursions
- Excursions by Root Cause
- Shipment Excursions Rate
- Excursions by Product

Filter by
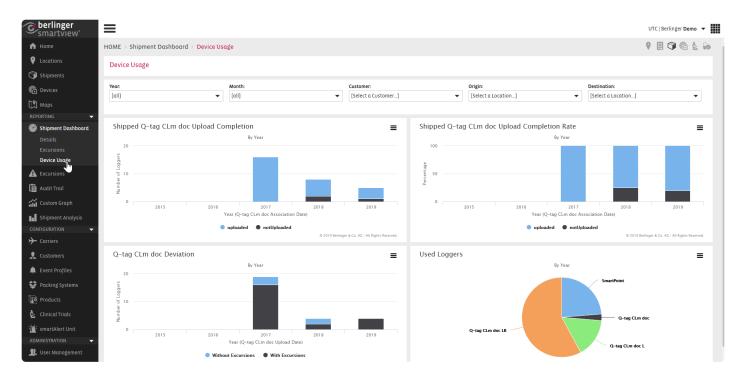
- Year
- Month
- Customer
- Origin
- Destination

9.1.3. Shipment Dashboard Device Usage

Shipment Excursions Dashboard

- Shipped Q-tag CLm doc Upload Completion
- Shipped Q-tag CLm doc Upload Completion Rate
- Q-tag CLm doc Deviation
- Used Loggers

Filter by

- Year
- Month
- Customer
- Origin
- Destination

9.2. Excursions

An important functionality of **smartview®** is the excursion management, as the application not only documents the event excursion, but also enables you to investigate and process an the excursion.

As soon as an event excursion is identified, smartview will send out <u>notification</u> messages to pre-defined recipients and it is important that the excursion is evaluated, <u>acknowledged</u> and eventually closed.

A user can view all the historical excursions reported against a Shipment or a Sector. Further on it is possible for a user to note down the Root Cause and Action taken for an event excursion.

This helps users to identify the most frequent causes and the user can define preventive action for identified causes. It is also possible for the users to acknowledge an Event Excursion so that the system stops sending a notification message for an excursion. After acknowledging an excursion, the user can close the excursion to indicate the proper handling of the situation.
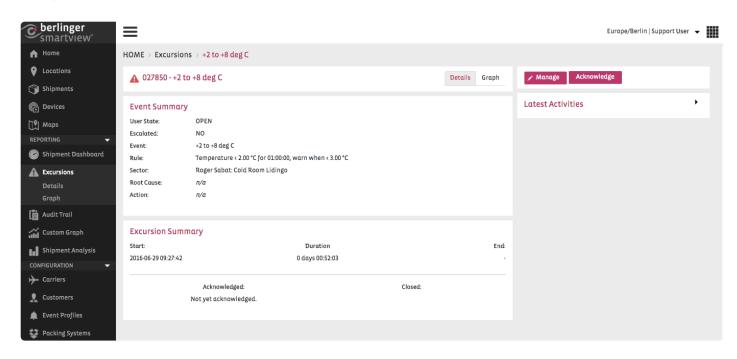
Excursion list in Home Page

The Home Page shows the 5 latest active shipments for both shipments and sectors. If any of the latest 8 shipments has an active excursion, then this is indicated by the icon in the excursions list found in the Home Page.

Following image shows the indication of excursion in the Home page:

Current Sector Excursions

	Sector	Rule		
⚠	Cold R..idingo (Roger Sabat)	< 2.00 °C for 01:00:00		≡
⚠	Freezer (Roger Sabat)	< -25.00 °C		≡
⚠	Refrigerator (Berl..site)	> 8.00 °C for 00:25:00		≡
⚠	SmartLine (Engi..r. 2)	> 8.00 °C for 01:00:00		≡
⚠	Freezer (Berl..site)	< 2.00 °C for 01:00:00		≡

17228 Excursion(s) to be Acknowledged and 176 to be Closed.

Current Shipment Excursions

Shipment	Rule
No active excursions found	

0 Excursion(s) to be Acknowledged and 1 to be Closed.

To view the detailed information of an excursion, click on the ⚏ icon on the home page and choose 'View excursion'. You will get the View:Excursion screen as shown in the following image:

The screen includes the following information for an excursion:

Details: Detailed information related to the excursion, such as related shipment or sector, related Event and Rules of the event.
Information regarding start and end time of the excursion, its duration, whether it has been acknowledged or closed.
Information about the way users interacted with the excursion like user who have acknowledged or closed the excursion.
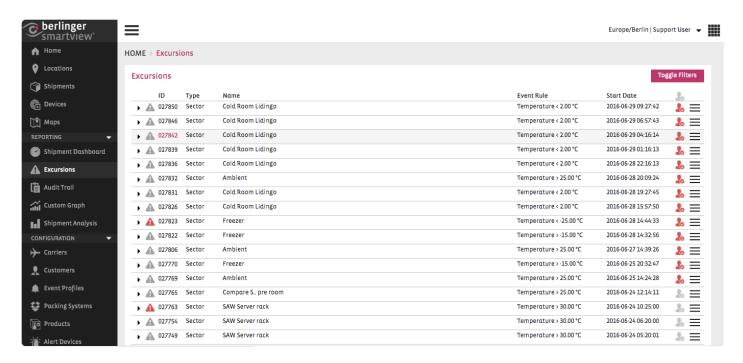
Graph: Redirects to the specific temperature graph of the sector or the shipment where the excursion was identified.

Viewing Excursion overview

To view the list of all the event excursions reported by the system, click on the 'Excursions' tab in the Main Menu. A list will appear, displaying all the excursions registered in the system.
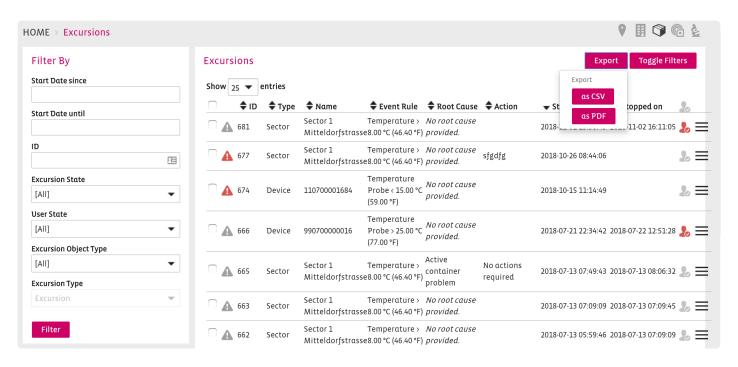
Managing/Modifying an excursion

You can select from a predefined list of reasons and provide an appropriate action for handling the excursion.

Exporting Excursions:

You can export and download the filtered excursions list as PDF or CSV file.

HOME › Excursions

Filter By

Start Date since

Start Date until

ID

Excursion State
[All] ▼

User State
[All] ▼

Excursion Object Type
[All] ▼

Excursion Type
Excursion ▼

[Filter]

Excursions

[Export] [Toggle Filters]

Export
[as CSV]
[as PDF]

Show 25 entries

	ID	Type	Name	Event Rule	Root Cause	Action	St...	topped on	
⚠	681	Sector	Sector 1 Mitteldorfstrasse	Temperature › 8.00 °C (46.40 °F)	No root cause provided.		2018-...	11-02 16:11:05	
⚠	677	Sector	Sector 1 Mitteldorfstrasse	Temperature › 8.00 °C (46.40 °F)	No root cause provided.	sfgdfg	2018-10-26 08:44:06		
⚠	674	Device	110700001684	Temperature Probe ‹ 15.00 °C (59.00 °F)	No root cause provided.		2018-10-15 11:14:49		
⚠	666	Device	990700000016	Temperature Probe › 25.00 °C (77.00 °F)	No root cause provided.		2018-07-21 22:34:42	2018-07-22 12:51:28	
⚠	665	Sector	Sector 1 Mitteldorfstrasse	Temperature › 8.00 °C (46.40 °F)	Active container problem	No actions required	2018-07-13 07:49:43	2018-07-13 08:06:32	
⚠	663	Sector	Sector 1 Mitteldorfstrasse	Temperature › 8.00 °C (46.40 °F)	No root cause provided.		2018-07-13 07:09:09	2018-07-13 07:09:45	
⚠	662	Sector	Sector 1 Mitteldorfstrasse	Temperature › 8.00 °C (46.40 °F)	No root cause provided.		2018-07-13 05:59:46	2018-07-13 07:09:09	

9.2.1. Excursion Icons

Excursion Alert State Icons

Icon	Meaning	Description
	Active Excursion	The sensor value is currently in alert state.
	Stopped Excursion	The sensor value has returned to the allowed range.

Excursion User State Icons

Icon	Meaning	Description
	Open Excursion	The excursion has not been acknowledged yet by user.
	Acknowledged Excursion	The excursion has been acknowledged by user.
	Closed Excursion	The excursion has been closed by user.

9.2.2. Notifications about excursions

Once smartview® has identified an excursion (shipment excursion, sector excursion or Q-Tag excursion) it will send out notifications to the predefined recipients via E-Mail and/or SMS.

The excursion notification per E-Mail provides information about:

- Excursion ID
- Event Rule that has been reached
- Start time of the excursion
- Personalised message
- Recipients
- Last reported message
- Value that has been reached

#	Type	Who	When	How
1	Warning	Main Recipients	When sensor value reaches warning limit, but not excursion limit	E-mail, or E-mail and SMS
2	Excursion Alert	Main Recipients	When sensor value reaches excursion limit, based on value and delay period (e.g. temperature > 8˚C for 15 minutes)	E-mail, or E-mail and SMS
3.	Excursion Reminder	Main Recipients (and when escalated also Escalation Recipients	When excursion value persists and excursion is not acknowledged by user within the repetition interval period	E-mail only
4.	Escalation Alert	Escalation Recipients + Main Recipients	When the excursion value persist and excursion is not acknowledged within the defined delay period	E-mail, or E-mail and SMS (depending on Notification Ty for Main Recipients and Escalation Recipients)

| 5. | **Escalation reminder** | Escalation Recipients + Main Recipients | When excursion value persists and escalation is not acknowledged by user within the repetition interval period | **E-mail only** (depending on Notification Ty for Main Recipients and Escalation Recipients) |

Example Scenario

Event Rules:	
Main Recipients:	Event Rule: Temperature < 15.00 °C (59.00 °F) for 00:15:00, warn when < 18.00 °C (64.40 °F)
Notification Type (Main Recipients):	Gerry, Andy
Repetition Interval:	E-mail and SMS
Excursion can escalate:	15 minutes
Notification Type (Escalation Recipients):	Yes, with 30 minute delay period
Escalation Recipients:	E-mail and SMS
	Jon, Marlen
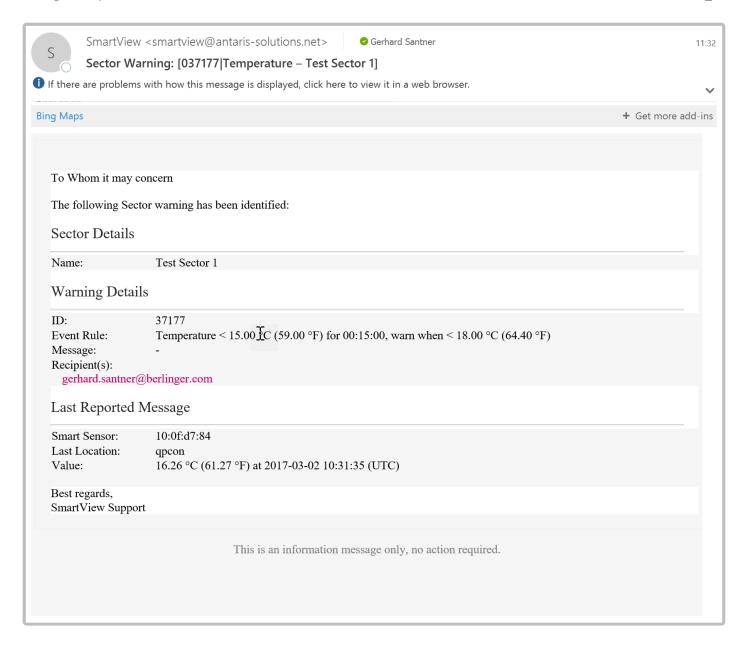
Let's assume the following scenario for a cold room with this Event Profile:
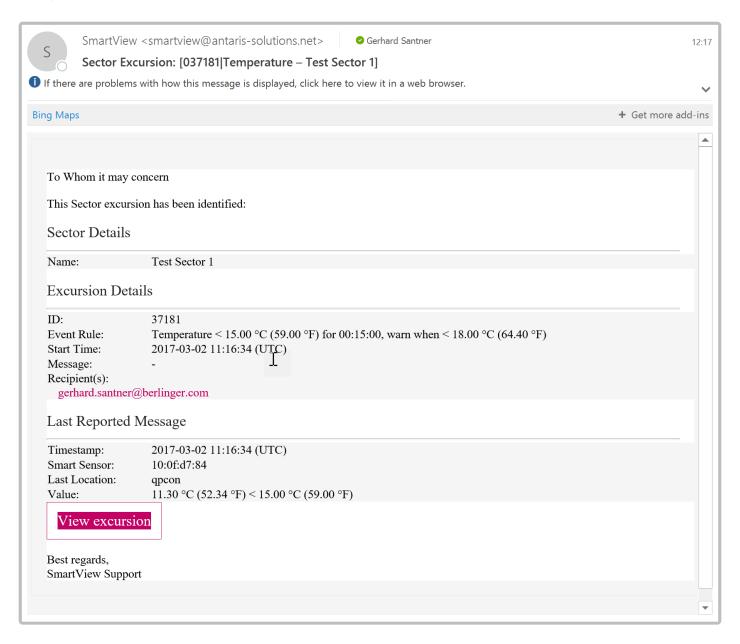
- At 10:31h a temperature value of 16.26˚C is received
- At 11:16h a temperature value of 11.30˚C is received
- The temperature remains above 8 ˚C for 4 hours, in which period the users do not acknowledge the excursion in SmartView.
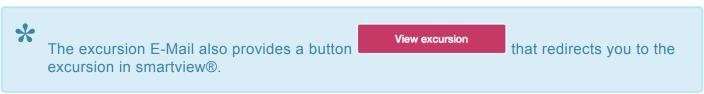
What messages will SmartView send?

At 10:31h a WARNING MESSAGE is sent to Gerry and Andy by E-mail and SMS

SmartView <smartview@antaris-solutions.net>   ☑ Gerhard Santner   11:32

Sector Warning: [037177|Temperature – Test Sector 1]

ℹ If there are problems with how this message is displayed, click here to view it in a web browser.   ⌄

Bing Maps   ✚ Get more add-ins

To Whom it may concern

The following Sector warning has been identified:

Sector Details

Name:	Test Sector 1

Warning Details

ID:	37177
Event Rule:	Temperature < 15.00 °C (59.00 °F) for 00:15:00, warn when < 18.00 °C (64.40 °F)
Message:	-
Recipient(s):	
gerhard.santner@berlinger.com	

Last Reported Message

Smart Sensor:	10:0f:d7:84
Last Location:	qpcon
Value:	16.26 °C (61.27 °F) at 2017-03-02 10:31:35 (UTC)

Best regards,
SmartView Support

This is an information message only, no action required.

At 11:16h an EXCURSION ALERT is sent to Gerry and Andy by E-mail and SMS

S   SmartView <smartview@antaris-solutions.net>   ✅ Gerhard Santner   12:17

Sector Excursion: [037181|Temperature – Test Sector 1]

ℹ️ If there are problems with how this message is displayed, click here to view it in a web browser.   ⌄

Bing Maps   + Get more add-ins

To Whom it may concern

This Sector excursion has been identified:

Sector Details

Name:	Test Sector 1

Excursion Details

ID:	37181
Event Rule:	Temperature < 15.00 °C (59.00 °F) for 00:15:00, warn when < 18.00 °C (64.40 °F)
Start Time:	2017-03-02 11:16:34 (UTC)
Message:	-
Recipient(s):	
	gerhard.santner@berlinger.com

Last Reported Message

Timestamp:	2017-03-02 11:16:34 (UTC)
Smart Sensor:	10:0f:d7:84
Last Location:	qpcon
Value:	11.30 °C (52.34 °F) < 15.00 °C (59.00 °F)

View excursion

Best regards,
SmartView Support

✳️   The excursion E-Mail also provides a button **View excursion** that redirects you to the excursion in smartview®.

At 11:31h an EXCURSION REMINDER is sent to Gerry and Andy by E-mail.

SmartView <smartview@antaris-solutions.net>   ⊘ Gerhard Santner   12:35

REMINDER: Sector Excursion: [037181|Temperature – Test Sector 1]

ⓘ If there are problems with how this message is displayed, click here to view it in a web browser.   ⌄

Bing Maps   ✚ Get more add-ins

To Whom it may concern

This is a Sector excursion reminder:

Sector Details

Name:	Test Sector 1

Excursion Details

ID:	37181
Event Rule:	Temperature < 15.00 °C (59.00 °F) for 00:15:00, warn when < 18.00 °C (64.40 °F)
Start Time:	2017-03-02 11:16:34 (UTC)
Message:	-
Recipient(s):	
	gerhard.santner@berlinger.com

Last Reported Message

Timestamp:	2017-03-02 11:31:34 (UTC)
Smart Sensor:	10:0f:d7:84
Last Location:	qpcon
Value:	11.62 °C (52.92 °F) < 15.00 °C (59.00 °F)

View excursion

Best regards,
SmartView Support

At 11:46h an ESCALATION ALERT is sent to Jon and Marlen, as well as to Gerry and Andy by E-mail and SMS

SmartView <smartview@antaris-solutions.net>   ✅ Gerhard Santner   12:50

ESCALATED: Sector Excursion: [037181|Temperature – Test Sector 1]

ℹ️ If there are problems with how this message is displayed, click here to view it in a web browser.   ⌄

Bing Maps   ✚ Get more add-ins

To Whom it may concern

This Sector excursion has been escalated:

Sector Details

Name:	Test Sector 1

Excursion Details

ID:	37181
Event Rule:	Temperature < 15.00 °C (59.00 °F) for 00:15:00, warn when < 18.00 °C (64.40 °F)
Start Time:	2017-03-02 11:16:34 (UTC)
Message:	-
Recipient(s):	
	gerhard.santner@berlinger.com

Last Reported Message

Timestamp:	2017-03-02 11:46:34 (UTC)
Smart Sensor:	10:0f:d7:84
Last Location:	qpcon
Value:	11.67 °C (53.01 °F) < 15.00 °C (59.00 °F)

View excursion

Best regards,
SmartView Support

At 12:01 an again an EXCURSION REMINDER is sent to Gerry, Andy, Jon and Marlen by E-mail.

S   SmartView <smartview@antaris-solutions.net>   ✓ Gerhard Santner   13:05

REMINDER: Sector Excursion: [037181|Temperature – Test Sector 1]

ℹ️ If there are problems with how this message is displayed, click here to view it in a web browser.   ⌄

Bing Maps   ✚ Get more add-ins

To Whom it may concern

This is a Sector excursion reminder:

Sector Details

Name:	Test Sector 1

Excursion Details

ID:	37181
Event Rule:	Temperature < 15.00 °C (59.00 °F) for 00:15:00, warn when < 18.00 °C (64.40 °F)
Start Time:	2017-03-02 11:16:34 (UTC)
Message:	-
Recipient(s):	
gerhard.santner@berlinger.com	

Last Reported Message

Timestamp:	2017-03-02 12:01:34 (UTC)
Smart Sensor:	10:0f:d7:84
Last Location:	qpcon
Value:	11.86 °C (53.35 °F) < 15.00 °C (59.00 °F)

View excursion

Best regards,
SmartView Support

9.2.2.1. Notification Q-Tag Excursion

Although you do not get the notification about the Q-tag alarm in real time, SmartView has the capability to send notifications about the Q-tag excursions reported against Q-tag Alarms. As soon as a Q-tag data file is uploaded to the system, the system will send a notification about the Q-tag alarms reported in it.

If a Q-tag is associated with a Shipment and an Event Profile with recipients defined is added to the shipment prior to the Q-tag file upload, then as soon as Q-tag file is uploaded, the notification email about the Q-tag will be sent to the recipients defined in the shipment profile.

Below is an example of the Q-tag excursion notification email:

To Whom it may concern

The Q-tag BDBX00051 data has been uploaded to SmartView; it contains 5 excursion(s):

Excursions

ID:	17627
Event Rule:	Temperature > 15.00 °C for 01:00:00
Start Time:	2016-02-01 16:06:00 (UTC)
Stop Time:	2016-02-01 18:49:00 (UTC)
Duration:	0 days 02:43:00
ID:	17629
Event Rule:	Temperature > 8.00 °C for 02:00:00
Start Time:	2016-02-01 16:06:00 (UTC)
Stop Time:	2016-02-01 21:35:00 (UTC)
Duration:	0 days 05:29:00
ID:	17630
Event Rule:	Temperature > 8.00 °C for 02:00:00
Start Time:	2016-02-25 22:23:00 (UTC)
Stop Time:	2016-02-26 20:21:00 (UTC)
Duration:	0 days 21:58:00
ID:	17628
Event Rule:	Temperature > 15.00 °C for 01:00:00
Start Time:	2016-02-26 04:15:00 (UTC)
Stop Time:	2016-02-26 12:20:00 (UTC)
Duration:	0 days 08:05:00
ID:	17631
Event Rule:	Temperature > 8.00 °C for 02:00:00
Start Time:	2016-02-27 03:13:00 (UTC)
Stop Time:	2016-02-27 09:29:00 (UTC)
Duration:	0 days 06:16:00

Best regards,
SmartView Support

However, the notification email about the Q-tag excursion will be sent to the main contact (e.g. Site Manager) instead of the recipients in the event profile, in the following cases:

- Prior to the data file upload, if the Q-tag is not associated with a shipment prior to its data file upload
- Prior to the data file upload, if no Event Profile is added to the shipment to which Q-tag is already associated with.
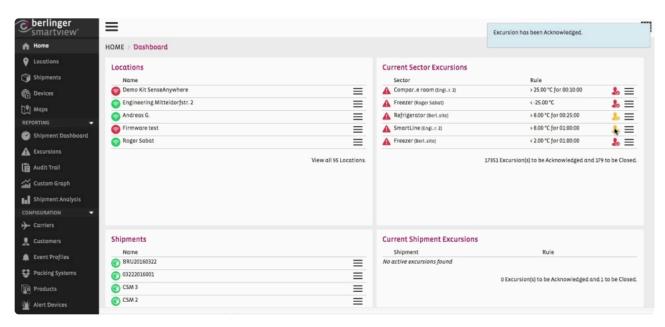
9.2.3. Acknowledge an Excursion

In order to stop receiving notifications about an open excursion, it is important to acknowledge this.

You have various options to acknowledge an excursion:

From the homepage

You can easily acknowledge an excursion from the homepage, by clicking on the ☰ and then choose 'Acknowledge Excursion', like shown in the video below:

https://fast.wistia.net/embed/iframe/kioda5c25m

From the Excursion overview

From the Excursion list, you can choose to acknowledge your excursion by clicking on the ☰ and choose 'Acknowledge Excursion' as instructed in the previous video.

From the 'View Excursion' page

You also have the option to acknowledge the excursion by choosing to view the details of the excursion and click on ☰ as shown in the following video:

https://www.youtube.com/embed/WFAmiwUKT3o?rel=0

From the Graph

Another possibility to acknowledge excursions, is to go to the Graph in the Excursion details page and acknowledge the desired excursion directly from the Graph, as shown below:

After the excursion has been acknowledged

After the excursion has been acknowledged by one of the recipients, smartview will send out an acknowledgement E-Mail informing all recipients about this action. The E-mail will contain information about who has acknowledged the excursion, which other recipients are aware of this, what the excursion details are, the root cause and the action taken.

E.g. Acknowledgement E-Mail

To Whom it may concern

The following Sector excursion has been acknowledged:

Sector Details

Name:	BRU Ambient CRT 2

Excursion Details

ID:	75772
Event Rule:	Temperature > 25.00 °C (77.00 °F), warn when > 24.00 °C (75.20 °F)
Start Time:	2016-06-30 13:09:27 (UTC)
Message:	pay attention / critical temperature below +16° respectively above +24° Celsius !
Recipient(s):	

testing@antaris-solutions.net
testing@antaris-solutions.net

Acknowledged By: Support User on 2016-07-08 14:02:45 (UTC)

Root Cause:
Corrective Action: -

Best regards,
SmartView Support

Once the excursion has been acknowledged, smartview will stop sending out notifications about the particular excursion, as this has already been processed by a user and has been taken into account.

9.2.4. Document an Excursion

SmartView allows you to document additional information about an excursion. You can note down the Root Cause of an excursion and the corrective Action taken for the excursion.
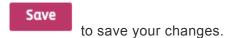
https://player.vimeo.com/video/175688790

You have various options to document the Root cause and Action for an excursion:

From the homepage

You can easily modify an excursion from the homepage, by clicking on the ☰ and then choose 'Modify Excursion'. You can then add the Root cause and Action taken in the designated fields and click on

Save to save your changes.

From the Excursion overview

From the Excursion list, you can choose to modify your excursion by clicking on the ☰ and choose 'Modify Excursion' as instructed in the previous video.

From the 'View Excursion' page

When clicking on the Excursion ID (either from the E-Mail notification or from the Excursion Overview) you will be redirected to the Excursion Details screen. Click on to modify your Excursion.

9.2.5. Close an Excursion

When an excursion situation no longer persists and corrective action has been taken, you can close the excursion. Closing an excursion is only possible after it has been acknowledged by the user. The sole purpose of closing an excursion, is to document proper handling of an excursion situation. You should not close an excursion when it still persists.

The same as acknowledging an excursion, you have various options to close an excursion:

- **From the homepage**
- **From the Excursion overview**
- **From the 'View Excursion' page**
- **From the Graph**

9.2.6. Q-tag Excursions

As soon as a Q-tag file is uploaded, the system checks for Alarms reported by the Q-tag and translates them into Excursions. Each Alarm reported in the Q-tag data file will be translated into a single Excursion. Configuration for an Alarm will be represented by the Rule of the corresponding Excursion.

For example, if a Q-tag alarm configuration is set for temperature "above 44.9°C for 1h" then the excursion triggered against such an alarm would have its rule as "Temperature > 44.9 for 01:00:00". If the alarm configuration has any established rule, then this is also indicated in its corresponding Excursion rule.

Note: The Time of an Alarm and the Start time of an Excursion do not represent the same thing. The date and time of an alarm represent the time when the alarm was trigged based on a configuration.
E.g. Time 10:00 of an alarm against configuration "above 44.9°C for 1h" indicates that at that time the temperature was found to be above 44.9°C for one hour. The actual breaching of the temperature was started an hour ago which is at 09:00 in this case. The *Start time* of the reported Excursion shows the actual start time when the breaching of the temperature is first identified. This helps to identify the exact point of time when the temperature started breaching the limit. The excursion also states the End time of an Excursion which usually represents the exact point of time when the temperature went back to the limit. In case the temperature did not come back to the limit before the Q-tag is stopped, then the Stop Time of the Q-tag is noted as End time for the excursion. The excursion reported against the Accumulated Alarm configuration does not have an *end time*.
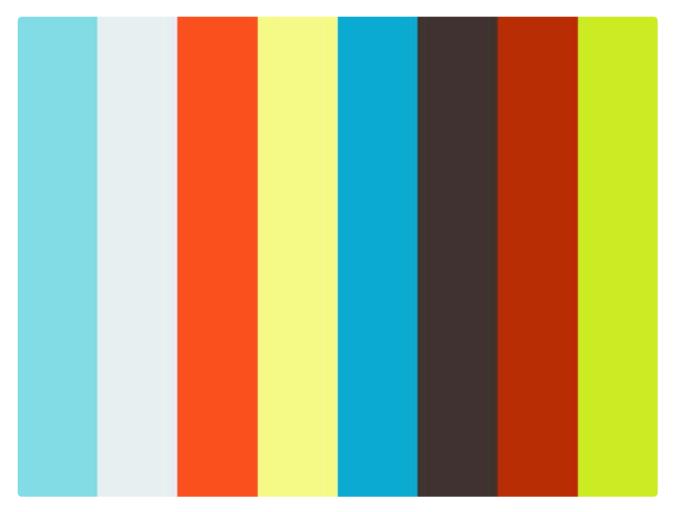
Notification about a Q-tag Excursion

Although you do not get the notification about the Q-tag alarm in real time, SmartView has the capability to send notifications about the Q-tag excursions reported against Q-tag Alarms. As soon as a Q-tag data file is uploaded to the system, the system will send a notification about the Q-tag alarms reported in it.

If a Q-tag is associated with a Shipment and an Event Profile with recipients defined is added to the shipment prior to the Q-tag file upload, then as soon as Q-tag file is uploaded, the notification email about the Q-tag will be sent to the recipients defined in the shipment profile.

9.2.7. Excursion markers in the graph

The displaying of additional markers in the Sector/Shipment Graph is similar to the Shipment Milestone markers, but related to the Shipment Excursions. Effectively, it will show a dashed vertical line in either the color red, yellow, gray (depending on the excursion state) and indicate a box with the ID of the Excursion and click-through to the detail page of that Excursion.
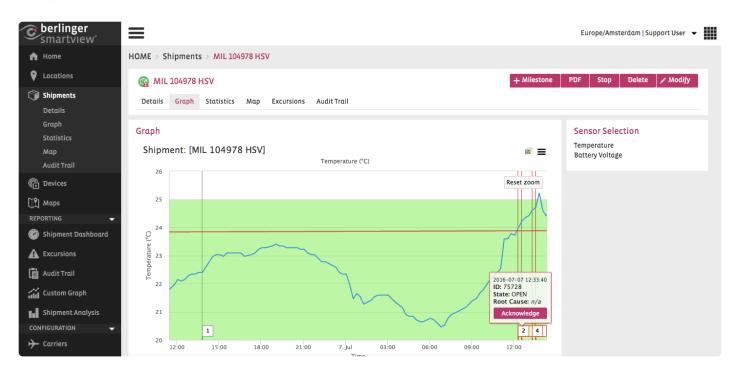

https://player.vimeo.com/video/178011135

The markers are colored according to the status of the excursion:

Red – indicating open excursions.
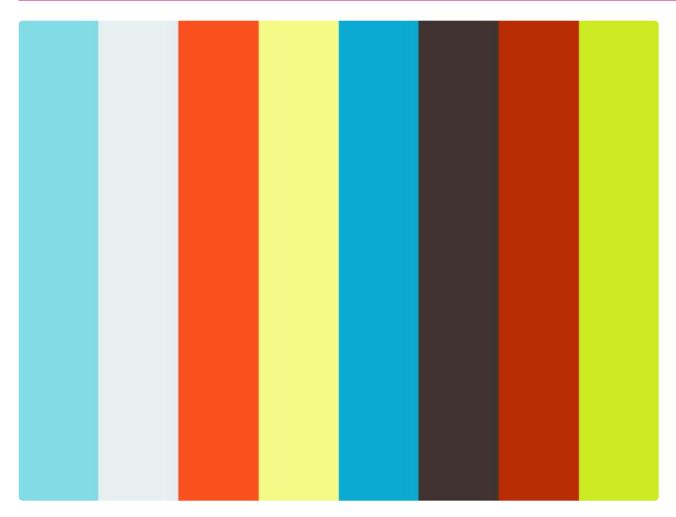
Yellow – indicating acknowledged excursions.

Gray – indicating closed excursions.

When hovering the mouse over the Marker, this will display the detailed information of the Excursion. When clicking on the Excursion ID in the detailed information box, you get redirected to the detail page of the Excursion. You also have the possibility to acknowledge the excursion directly from the graph.
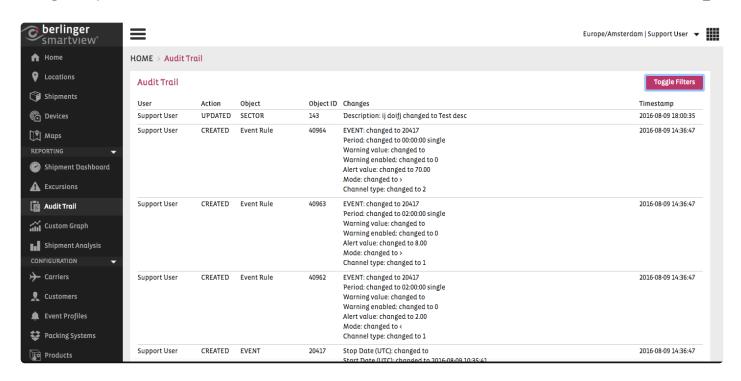
9.3. Audit Trail

The **Audit Trail** functionality of SmartView allows a user to track different users' activities in SmartView. Such an activity includes the creation of a Shipment and/or Sector, adding or deleting a SmartSensor association to a Shipment and/or Sector and so on.
The user has the option to view an overview of all the Audit Trail generated by the system. The user can filter the overview to track the activities of a specific user or to track the activities related to a Shipment or Sector.

Note: Only a user with specific access rights can view the Audit Trail. To have the access to this feature, contact Berlinger Support.

To view the overview of all the Audit Trail generated by the system, go to the menu item 'Audit Trail'. You will see the overview of the system generated by the Audit Trail as show in the following image:

Each entry in the audit trail is generated for the activity related to one of the objects: Shipment, Sector, Event, Event Profile, Event Rule, Sensor Association, Location, Shipment Milestone. Thus it may look difficult to identify all the activities related to a single object. For example how to track activities related to a Shipment. This purpose can easily be served by performing the following steps:

View audit trail related to a single object

You can view the audit trail related to a single object in one of the following ways:

Use the filtering option: Filter the Audit Trail overview list by selecting the required Object (e.g. Shipment) and Object ID (e.g. Shipment ID). You will get a list of the Audit Trail containing the activities related to the specific object.
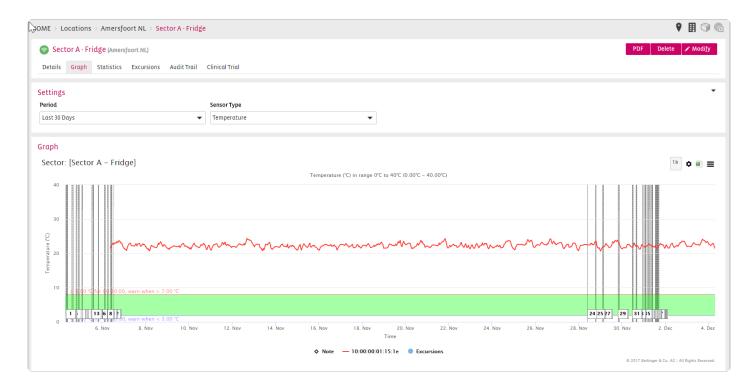
Click on the Object ID: Alternatively you can get the list of Audit Trail related to a specific object by clicking on the Object ID in any of the visible entries. For example, the screen shot showing the Audit Trail overview includes audit trail for Create, Update for Shipment with ID 5. To view only the audit trail related to this shipment, simply click on the ID (i.e. 5) of any of the corresponding entries. As shown in the following image, you will get the audit trail list with activities related to that particular shipment.

9.4. Graph View

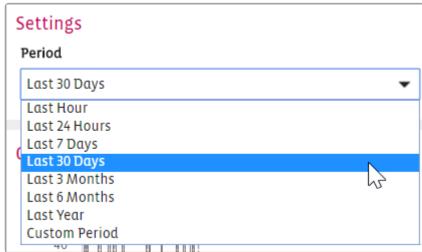The Graph View and handling of the Graph is identical in Sectors and Shipments.
The only difference is, that within the Sector Graph I can choose and change the **Time Period** under the point Settings.
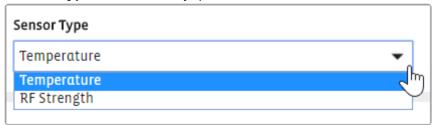
Overview

Settings (only available in Sector Graphs)

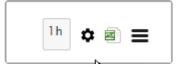**Period:** Choose the time period which should be displayed

Sensor Type: Choose the tyepe of sensor which should be shown on the graph if available

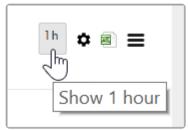# Graph

Displays the graph with the following settings:

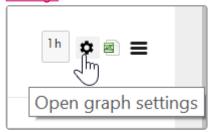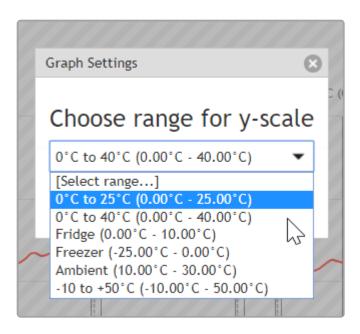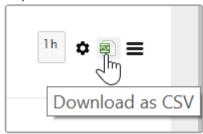Show the Behavior of the last hour on the graph

y-scale range settings

Choose a temperature range for the y-scale graph view which you have set under Site Settings —> Range Settings
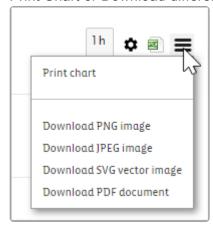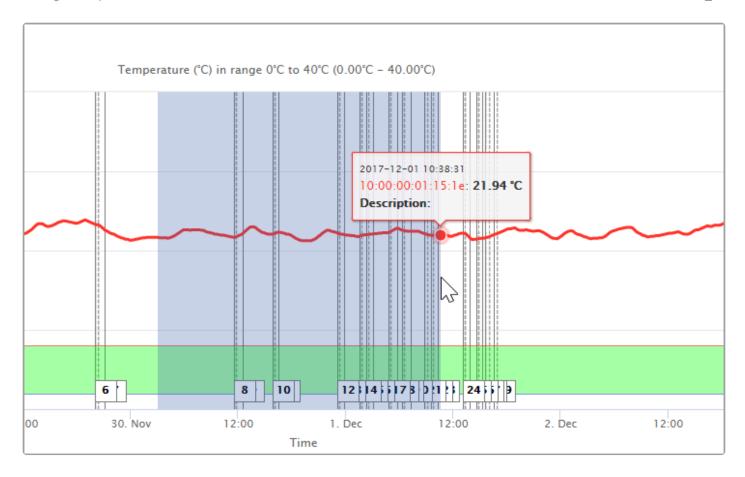
Graph Settings ⊗

Choose range for y-scale

0°C to 40°C (0.00°C - 40.00°C) ▼

[Select range...]
0°C to 25°C (0.00°C - 25.00°C)
0°C to 40°C (0.00°C - 40.00°C)
Fridge (0.00°C - 10.00°C)
Freezer (-25.00°C - 0.00°C)
Ambient (10.00°C - 30.00°C)
-10 to +50°C (-10.00°C - 50.00°C)

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1h ⚙ 📊 ≡

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Download PDF document

Choose (mark) x-scale of graph view
By cklicking in to the graph, holding down the left mouse button, dragging along the x-scale and releasing the mouse button you can zoom in into the part you have choosen.

Temperature (°C) in range 0°C to 40°C (0.00°C – 40.00°C)

2017-12-01 10:38:31
10:00:00:01:15:1e: **21.94 °C**
Description:

Press the Reset zoom button to get back to the initial position

Reset zoom   1h ⚙ 📊 ☰

Reset zoom level 1:1
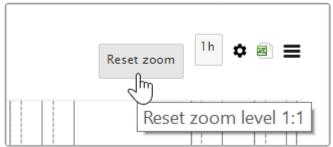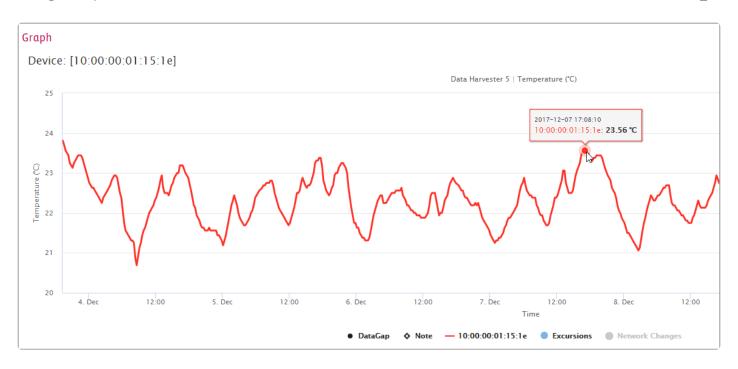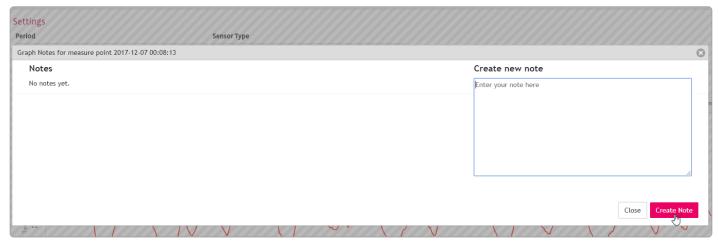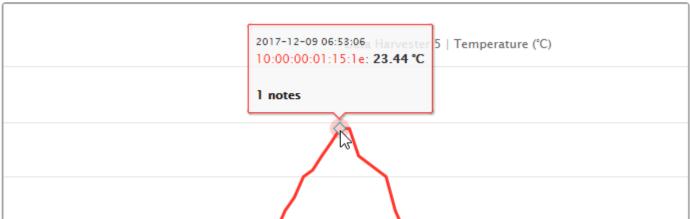
Create Note on the Graph

You can click on the Graph and a new pop up window will open.

Graph

Device: [10:00:00:01:15:1e]

.
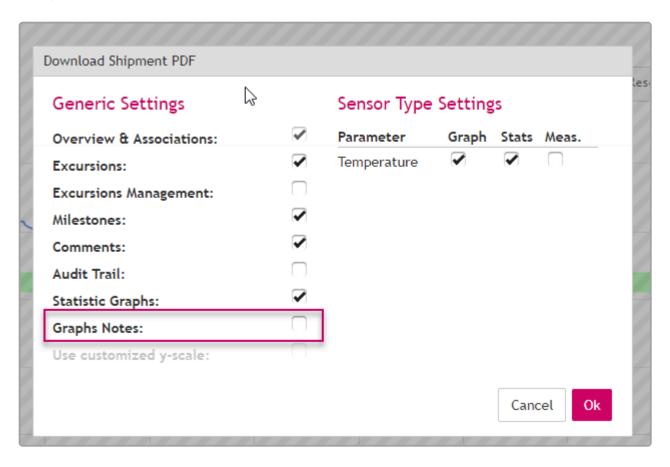
The note will by shown on the Graph by a blue rhomb. You can cklick on it and the notes window will be opend.
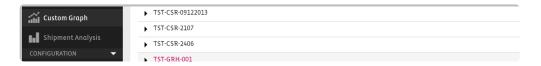
In the PDF report you have an option whether to export **Graph Notes** or not.

Download Shipment PDF

Generic Settings

Overview & Associations:	☑
Excursions:	☑
Excursions Management:	☐
Milestones:	☑
Comments:	☑
Audit Trail:	☐
Statistic Graphs:	☑
Graphs Notes:	☐
Use customized y-scale:	☐

Sensor Type Settings

Parameter	Graph	Stats	Meas.
Temperature	☑	☑	☐

Cancel   **Ok**

9.5. Custom Graph

You can either choose a custom graph from the list or create a new custom graph

Choosing a custom graph from the list:

Creating a new custom graph:
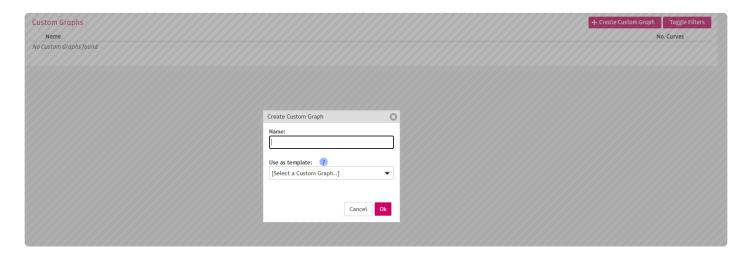
Click on the top right on to start the process of creating a new custom graph.

A new window will pop up that will allow to enter a name for the new graph as well as the option to select another custom graph as template if one is available.

In the following window 3 options will be available for graph type.
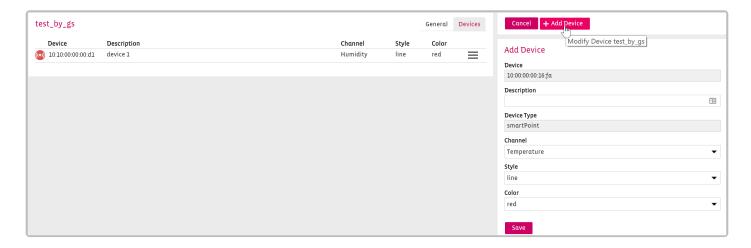
Name	Description
Custom Period	This allows to create a custom graph for a specific time period for non Q-tag Devices
Latest Period	This allows to create a custom graph for the latest period for non Q-tag Devices
Q-tag Overlay	This allows to create a custom graph for Q-tag Devices

General   Devices

Cancel   Save

Example Graph

Graph Type: Q-tag Overlay

Custom Period
Description: Latest Period
                   Q-tag Overlay

If custom period is selected as option, the duration can either be limited with the duration modifier or the specific end date.**If both are entered the end date will be used.**

Example Graph

Graph Type: Custom Period

Start Date: 2022-01-04 08:27:47

End Date:

Note: if the end date is provided, the duration will be ignored

Duration: 1   Days

Description:

By clicking on **Devices** the following view will be available where the devices can be added to the custom graph.

test_by_gs   General   Devices   Cancel   + Add Device

Device	Description	Channel	Style	Color	
10:10:00:00:d1	device 1	Humidity	line	red	☰

Modify Device test_by_gs

Add Device

Device
10:00:00:00:16:fa

Description

Device Type
smartPoint

Channel
Temperature

Style
line

Color
red

Save

Modify a Custom Graph

To modify a custom graph can be pressed within the custom graph overview and Modify Custom Graph selected.

Delete a Custom Graph

When within the detail page of the custom graph, by pressing on the top right the graph can be deleted.

9.5.1. Detail

On the detail page an overview of the selected devices in your custom graph is shown. It also shows which color of the graph is assigned to the certain devices.

HOME › Custom Graphs › TST-GRH-001

TST-GRH-001   Delete   ✏ Modify

Details   Graph   Statistics

General

Configuration: Show latest 7 Last 24 Hours(s)
Description: *No description provided*

Devices

Device	Description	Channel	Style	Color
10:00:00:01:16:0e		Temperature	line	red
10:00:00:01:15:56		Temperature	line	blue
10:00:00:01:05:87		Temperature	line	dodgerblue
10:00:00:00:2b:ca		Temperature	line	royalblue

9.5.2. Graph

SmartView provides the capability to create a **Custom Graph** by overlapping the data from multiple sensors in order to perform an analysis of several used monitoring devices. The Custom Graph has the capability to include and combine data from sensors of the same type or of different types (e.g. Q-Tag, etc.) into one single graph.

Each Custom Graph contains the following two elements:
1. **Overlay of the temperature graph** of the various sensors that shows the different values of the sensors in a single graph.
2. **Statistical Table** that shows the statistical information in table format, with easy indication of the lowest and highest maximum etc.

Usability

If the graph includes sensor data from real-time monitoring devices, the Custom Graph functionality offers the possibility to define the desired period for which the data should be included in the graph. If the graph will include sensor data from a Q-Tag USB logger device, the graph will overlay automatically the data based on the start time and the end time of the device.

The **Custom Graph** is to be created manually by selecting the sensors that should be included in the graph in order to analyze their containing data. A maximum number of 100 sensors can be included and overlayed in the custom graph.
The **Custom Graph** is commonly used for conducting Thermal Mapping studies inside a temperature-controlled facility, for sensor recalibration or for performing different tests with a larger number of sensors.
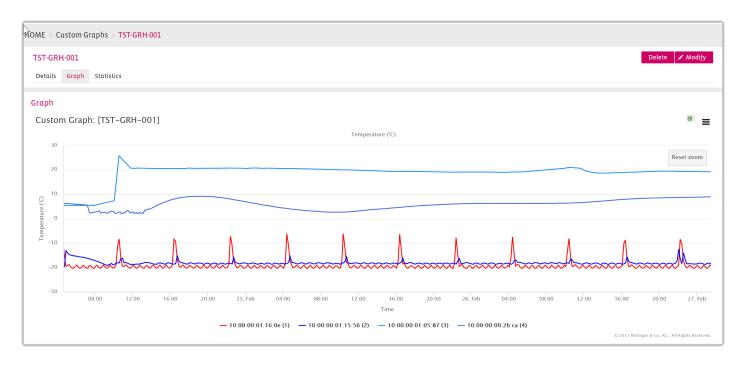
Custom Graph Overwiew

Custom Graph Zoom Area

Click, hold and drag the mouse from one point to the other a zoom area will be selected as shown in the next graphic.
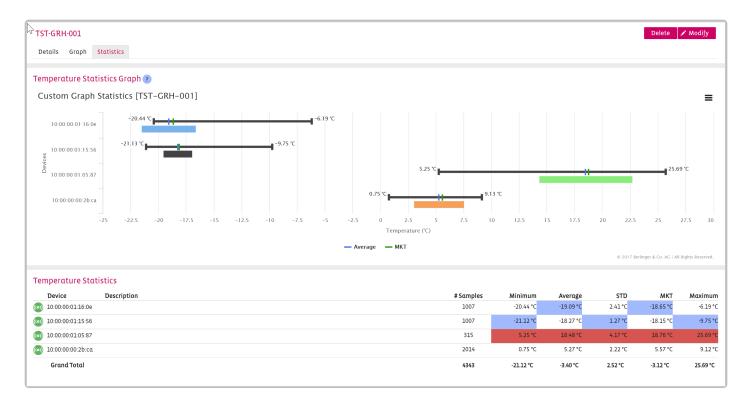

Custom Graph Zoomed

The next screenshot shows the zoomed in area. Go back to the overview by clicking the "Reset zoom" Button on the right.

HOME › Custom Graphs › TST-GRH-001

TST-GRH-001

Delete | ✎ Modify

Details   Graph   Statistics

Graph

Custom Graph: [TST–GRH–001]

Temperature (°C)

9.5.3. Statistics

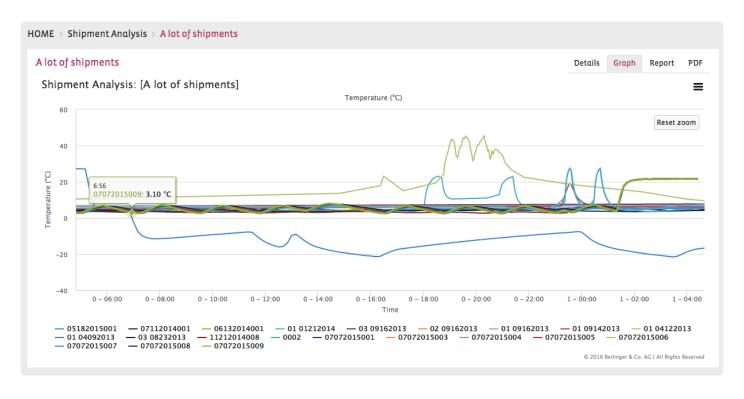Temperature Statistics Graph in Boxplot and Table format:

9.6. Shipment Analysis Report

The Shipment Analysis Report is a document that provides a statistical analysis of shipments that have been monitored with SmartView and enables users to overlay multiple shipments in a single graph. Each Shipment Analysis Report contains the following three elements:
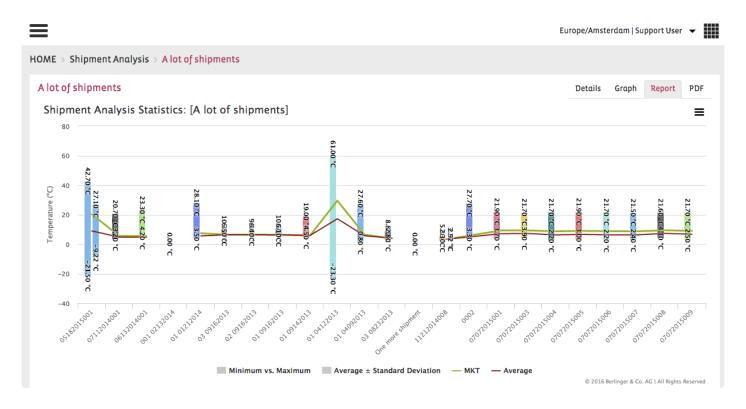
1. **Overlay of the temperature graph of the various shipments**. As these shipments may be performed at different times, the temperature graph is based on a relative time.
2. **Statistical Overview Graph** (see below) that provides a graphical overview of the maximum, minimum, average and standard deviation for each shipment that is included.
3. **Statistical Table** that shows the statistical information in table format, with easy indication of the lowest and highest maximum etc.

The Shipment Analysis Report is generated manually by selecting the specific shipments that need to be included in the analysis. This functionality can be accessed directly from the menu option or from the shipment overview screen.

E.g. Shipment Analysis Graph

E.g. Shipment Analysis Report

Europe/Amsterdam | Support User ▼

HOME › Shipment Analysis › A lot of shipments

A lot of shipments

Details   Graph   Report   PDF

Shipment Analysis Statistics: [A lot of shipments]

Minimum vs. Maximum   Average ± Standard Deviation   — MKT   — Average

10. Configuration

- [Carriers](#)
- [Customers](#)
- [Event Profiles](#)
- [Packing Systems](#)
- [Products](#)
- [smartAlert Unit](#)

10.1. Carriers

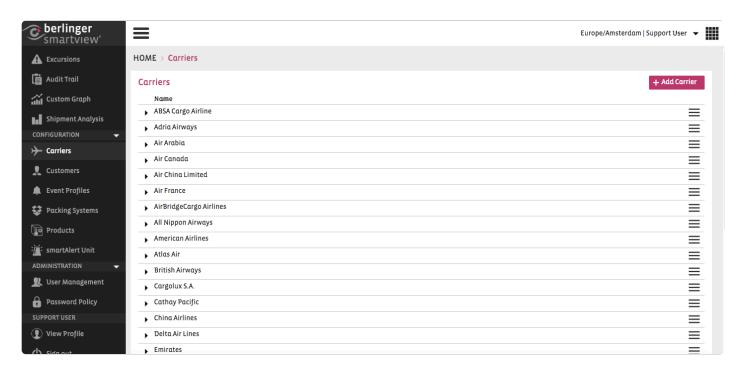https://player.vimeo.com/video/178601186

Carriers

The Carriers menu item allows you to define a subset list of Air Carriers from a list of all the carriers available in the system that you will use in smartview when working with carriers. The carrier list available in the system includes around 250 commercial Air Carriers. Before you use the carrier in other places (for example for a Shipment) you need to define the Air Carriers subset list by adding the frequently used carrier from the main list.

Overview of existing Carrier
To view an overview of the air carrier subset list, click on the menu item Configuration: Carriers. As shown in the following image and you will get the screen with the air carrier subset list.

To add a new carrier to the list simply click on the button and choose the desired carrier from the dropdown list.
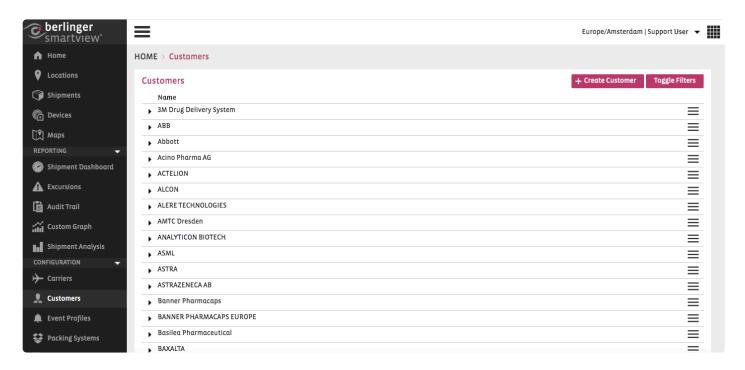
To remove an air carrier from the subset list, simply click on the button next to the carrier and select delete.

Note: You cannot remove a carrier from the subset list if it has already been referred somewhere.

10.2. Customers

Create Customers

The Customers menu item provides an overview of all the customers created in the system. This screen also enables you to define new customers for your shipments and to edit existing customers. You can also filter the list of customers depending on your preferences.

To add a new customer, simply click on the [+ Create Customer] button and fill in the name of your customer. After creating a customer, you will be able to assign this to one or more shipments.

Modify Customers

You can edit your customers by clicking on the ☰ button.
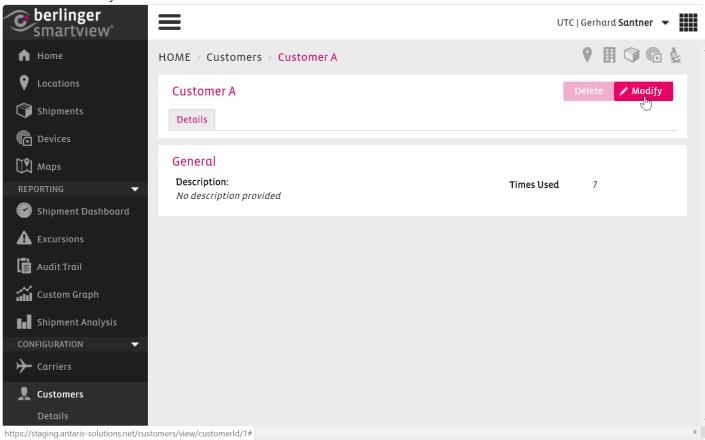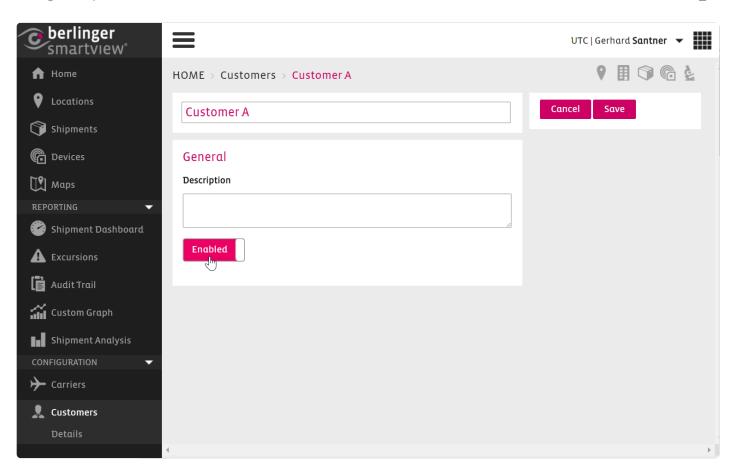

Enable/Disable Customers

If you want to enable or disable a Customer, use the toggle Enable/Disable on the bottom of the details tab
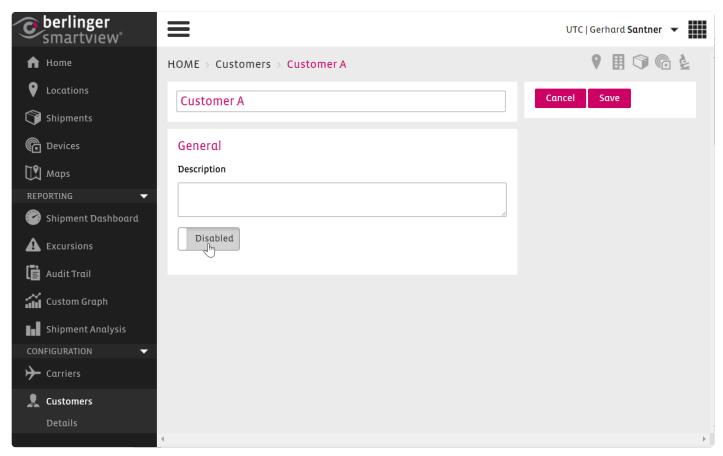
in modify mode.

Choose to modify in the Customer tab.

Scroll down to the toggle Enable/Disable and change settings.

Click save to save your settings.

! A Customer cannot be deleted, only disabled.

10.3. Event Profiles
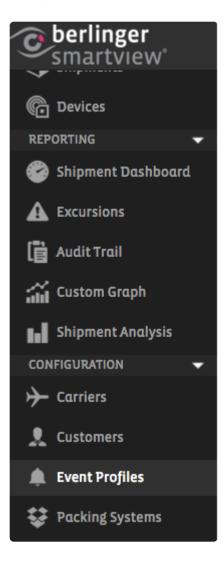
One of the core capabilities of SmartView is the **event management**, which includes defining events, identifying, handling and reporting on event excursions. An event is the occurrence of a pre-defined situation.

SmartView enables users to define business rules for such situations. An Event Excursion represents an alert situation which indicates the breach of one of the business rules that are defining the event. With continuous sensor measurements, SmartView can identify the breach of a rule and thereby can report on an excursion.
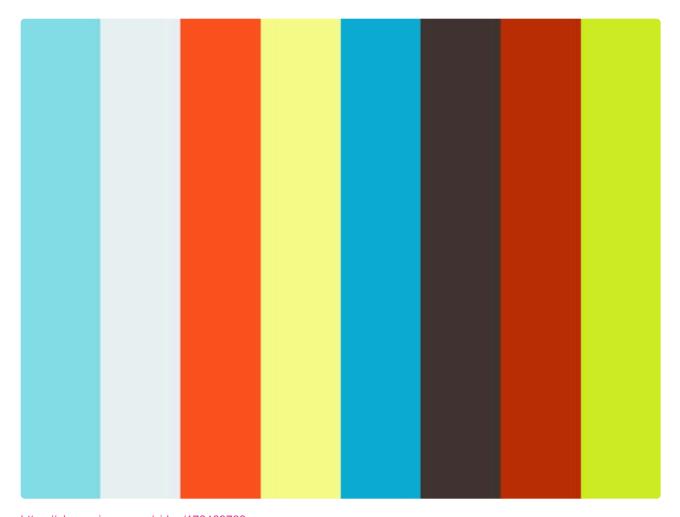
To support the event management, SmartView enables users to define event profiles that include: Event Rules, Recipients and personalised message.

The user needs to define appropriate Event Profiles in the system first. For monitoring a shipment or a facility, he needs to select one of the predefined Event Profiles that is applicable for it. Selecting an Event Profile for a shipment or sector means that the business rules, as defined in the Event Profile, are now applicable to the specific shipment or sector.

To access the Event Profiles, you need to go to the 'Configuration' tab in the Menu bar and click on Event Profiles.

Devices

REPORTING ▼

Shipment Dashboard

Excursions

Audit Trail

Custom Graph

Shipment Analysis

CONFIGURATION ▼

Carriers

Customers

Event Profiles

Packing Systems

Create

To create a new Event Profile, go to the Event Profile menu item and click on the button.

Provide a Name for the Event Profile and click OK.

Optionally you can select an existing Event Profile as a template in the Use Event Profile selection box. If you select an existing Event Profile as a template, then the new Event Profile will get the information that was already defined in the existing profile. This is useful in a situation when an Event Profile similar to an existing one needs to be created.

The Event Profile screen contains different sections for defining relevant information:

Message: Define the Message that needs to be sent in the notification email or SMS in case of an event excursion.

Main Recipients: The main recipients section defines the first recipients of the notification in case of an event excursion.

Recipients: Start typing the name of the user who needs to get the notification message. A list of user

names matching your typed keys will be visible. Select the name from the list. To define multiple recipients just type again and select the name from shown list.

Notification Type: Select the type of notification that the user will get in case of event excursion – Email, SMS, Email & SMS

Repetition Interval: Define the repetition interval of sending notifications in case an excursion situation persists.

Escalate Recipients: You can optionally define the escalated recipients who will be notified in case an event excursion persists for an Escalation Delay Period and none of the main recipients has acknowledged the excursion.

Event Rules: In this section the user defines the business rules for a situation that should be monitored. The breach of any of the rules defined by the user will trigger an excursion and a notification message will be sent to the recipients. Click on the icon and define the following fields as shown in the image below.

Sensor. : Select the sensor that needs to be monitored by the rule such as Temperature, Humidity, Contact and Power Status.
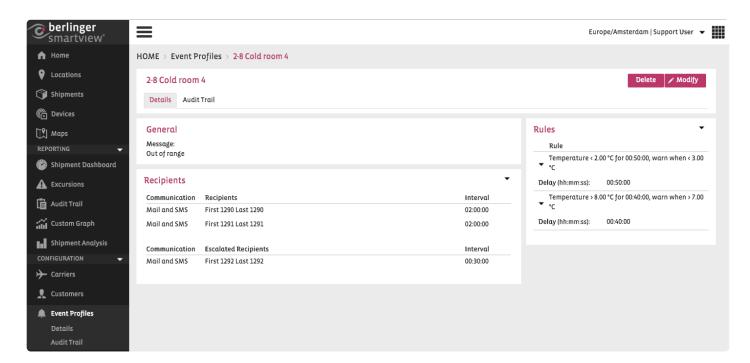
Condition: Select the appropriate mode for the rule, such as "< less than" or "> greater than" for the sensor. For Contact and Power Status sensors the only available Condition is "== equals".

Value: Define the alert value for the rule.

Delay: Optionally define a delay period for the rule, in case you want to get notified if the alert situation is found to be persisting for the delay period. For example, if you want to get notified in case the temperature crosses the limit for 20 minutes, then define 20 minutes in the delay period.

Warning: Optionally check this box if you want to define a Warning Value.

Warning Value: After checking the Warning option, define the warning value for which you want to get notified. For example, if you want to get a warning notification before the temperature crosses the limit of 8 °C, then you can define the warning value 7. In this case, if the temperature is found to be above 7°C but below 8°C, then you will get a warning notification about the temperature approaching the excursion situation.
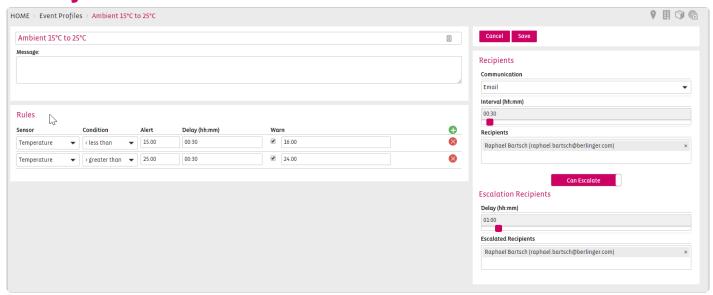
After creating an Event Profile, this can be applied to a Sector or a Shipment and can be reused as many times as required.

You can choose to Edit or Delete the Event Profile from the Event Profile overview, by clicking on the ☰ button and by choosing your action. The Modify page can be reached also from the Event Profile itself, by choosing the **✎ Modify** button.

Note: Editing or deleting an Event Profile does not affect the Shipments or Sectors to which the event profile is added. Editing an Event Profile will only affect the Shipments or Sectors to which the Event Profile will be added.

Modify

Every setting can be modified which you had to fill out or define when creating an Event Profile.

Delete

You cannot delete an Event Profile if it is in use.

Special Type Sensors

Besides the standard sensors that measure and report temperature and humidity continuously, there are following special type of sensors that report on events like Open/Close of contact, Shock.

Open/close Contact: This type of sensor can report on the state of its contact sensor – either OPEN or CLOSE. This type of sensor can be used to monitor the state of a door. You can use such a sensor to get an alert in case the 'Door is OPEN for 20 minutes'.

Power Monitoring: This type of sensors are actually network infrastructure devices installed in a location, like Gateway or MicroRouter. Although the main responsibility of such a device is to make sure that the data is forwarded to the right node(s), they can be configured to report on their power status. If a Power Monitoring device is running on its backup battery, it will report its status as BATTERY, otherwise it will report the status as MAINS POWER. Thus you can associate such a device to a sector to get an alert in case 'Power Status in on BATTERY for 5 minutes'.

Battery Voltage: This sensor serves the same purpose of the sensor Power Monitoring but for ILC2000 device only. You can use this sensor for power monitoring of an ILC2000 device.
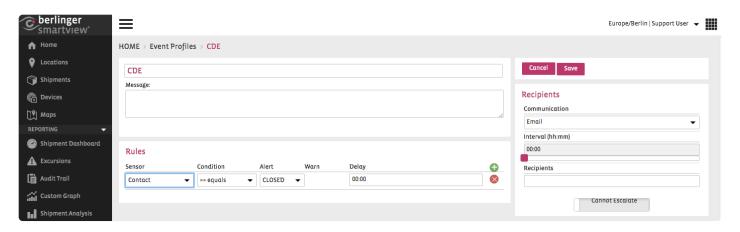
Light: This especial sensor originally reports on light event i.e. presence of light. This is only available with an ILC2000 device. This sensor should be confused with Light intensity (Lux) sensor of the device.

Shock: This is a measurement that indicates Shock/ Fall experienced by an ILC2000 device. Unlike the other sensor, this is not a separate sensor of ILC2000 device. If an ILC2000 device falls from 1-2 feet above from the ground or experiences a similar shock, it will report a shock event.

Note: Light and Shock reporting of an ILC2000 device is turned off by default. If you want to use these report please make sure have configured the device by turning these sensors ON in SmartView.

To define an Event Profile for any of these special type of sensors, create a new profile and define required rules <u>following the steps</u> described below.

Event rule for open/close contact sensor
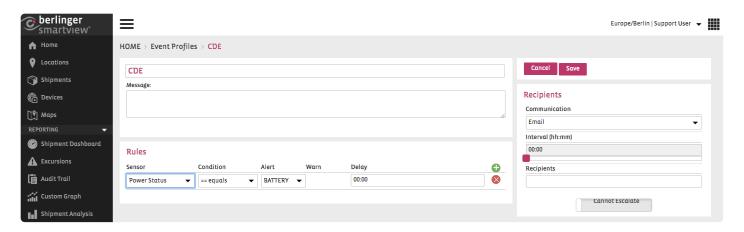
To define an Event Profile for open/close contact sensor, create a new Event Profile and follow the following steps

Go to the Edit Event Profile screen for the profile that you have just created and click on the ⊕ icon to add a rule. By default, the Temperature sensor is selected for the rule. Change the sensor by selecting Contact from the sensor list. The Condition field will be changed to '== equals' which is unchangeable.

In the Value field select the alert value for which you want to get the alert notification. For example if you want to monitor the state of a door and want to get notified if the door is open, select OPEN for Alarm.

If you want to get the alert if the door is OPEN for a certain period, then define the period by dragging the time (hh:mm) bar. While dragging the bar you can see the period in the Delay field.

Event rule for power monitoring

To define an Event Profile for power monitoring (by using devices like a ConnectGate or MicroRouter), create a new Event Profile and follow the following steps

Go to the Edit Event Profile screen for the profile that you have just created.

Click on the ⊕ icon to add a rule. By default, the Temperature sensor is selected for the rule. Change the sensor by selecting Power Status from the sensor list. The condition field will be changed to '== equals' which is unchangeable.

To get alert notification when the power status is on backup battery, select BATTERY in the Value field.

If you want to get the alert if the power status is on backup battery for a certain period, then define the period by dragging the time (hh:mm) bar. While dragging the bar you can see the period in the Delay field.

Event rule for Light event

To define an Event Profile for Light event (reported by ILC2000 devices only), create a new Event Profile and follow the following steps

Go to the Edit Event Profile screen for the profile that you have just created.

Click on the ⊕ icon to add a rule. By default, the Temperature sensor is selected for the rule. Change the sensor by selecting Light from the sensor list. The Condition field will be changed to '== equals' and the Value field will be changed to 'ON'. Both of these fields are unchangeable.

You will Delay, Warning and Warning Value fields are disabled as these are not required for monitoring light event.

Click on the Save button to save your changes.

Event rule for Shock event

To define an Event Profile for Shock event (reported by ILC2000 device only), create a new Event Profile and follow the following steps

Go to the Edit Event Profile screen for the profile that you have just created.

Click on the 🟢 icon to add a rule. By default, the Temperature sensor is selected for the rule. Change the sensor by selecting Shock from the sensor list. The Condition field will be changed to '== equals' and the Value field will be changed to 'ON'. Both of these fields are unchangeable.

You will Delay, Warning and Warning Value fields are disabled as these are not required for monitoring light event.

Click on the Save button to save your changes.

Event rule for Battery Voltage

To define an Event Profile for monitoring the battery voltage of an ILC2000, create a new Event Profile and follow the following steps

Go to the Edit Event Profile screen for the profile that you have just created.

Click on the 🟢 icon to add a rule. By default, the Temperature sensor is selected for the rule. Change the sensor by selecting Battery Voltage from the sensor list.

Select '< less than' from the condition field and in the Value field put the battery voltage value below which you want to get noticed.

Click on the Save button to save your changes.

10.4. Packing Systems
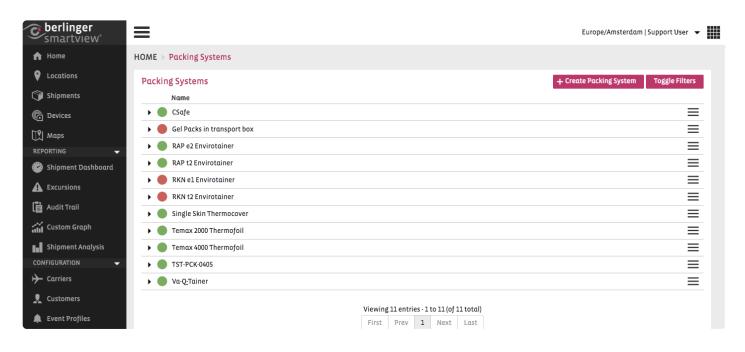
Create Packing Systems

The Configuration: Packing Systems menu item allows you to define the Packing Systems (e.g. Envirotainer). In practice the Packing System refers to a kind of packaging to which a Smart Sensor is mounted to monitor the relevant shipment.

You can define a list of frequently used Packing Systems for your shipments that are monitored by SmartView. While creating a Smart Sensor association to a Shipment, you can optionally select the Packing System.

Overview of Existing Packing Systems
To view an overview of Packing Systems already defined in the system, click on the menu item Configuration: Packing Systems. You will get an overview of all the Packing Systems as shown in the following image.

The coloured icons indicate whether the packing system is: 🟢 enabled or   🔴 disabled

Adding a Packing System
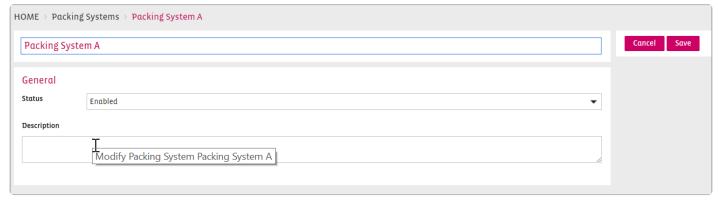
To create a new Packing System click on the [+ Create Packing System] button. Provide a non-existing and non-empty name for the new Packing System and click on the OK button.
The Packing System name can have a maximum length of 64 characters.

Editing and Deleting a Packing System

To Edit an existing Packing System simply click on the ☰ for the Packing System.

Note: You cannot delete an existing Packing System if it has already been defined against a Shipment Association.

Modify Packing Systems

HOME › Packing Systems › Packing System A

Packing System A   Cancel   Save

General

Status   Enabled   ▼

Description

Modify Packing System Packing System A

SkyCell CRT750

General

Status   Enabled   ▼

Modify Packing System SkyCell CRT750

Description
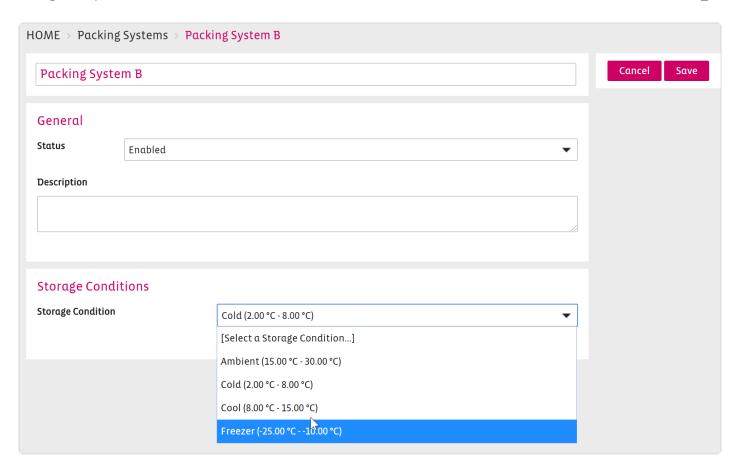
Changed Packing System from Package A to SkyCall CRT750
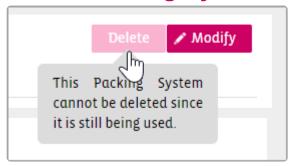
Modify Storage Conditions

HOME › Packing Systems › Packing System B

Packing System B   Cancel   Save

General

Status   Enabled ▼

Description

Storage Conditions

Storage Condition   Cold (2.00 °C - 8.00 °C) ▼

[Select a Storage Condition...]

Ambient (15.00 °C - 30.00 °C)

Cold (2.00 °C - 8.00 °C)

Cool (8.00 °C - 15.00 °C)

Freezer (-25.00 °C - -10.00 °C)

You can choose a Storage Condition for your packing system which you have predefined under Site Settings / Storage Conditions.

Delete Packing Systems

The Packing System can only be deleted if the Packing System is not in use anywhere.

10.5. Products
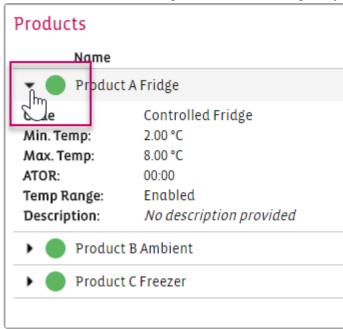
Create

Create your Products you ship with the button
For example you ship or store products for a fridge, freezer or ambient temperature.

Click the small black triangle to see the settings of your Product

Products

Name	
Product A Fridge	
	Controlled Fridge
Min. Temp:	2.00 °C
Max. Temp:	8.00 °C
ATOR:	00:00
Temp Range:	Enabled
Description:	No description provided
Product B Ambient	
Product C Freezer	
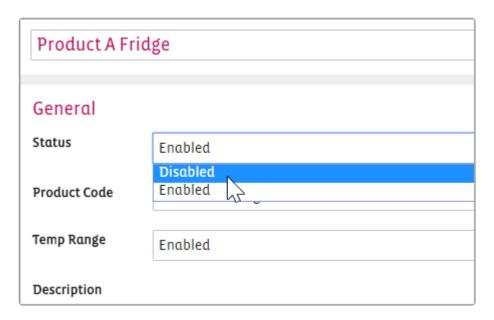
Modify

If you want to Modify your Product settings, click the Product name to get inside the product settings.

Click   to change settings and save afterwards.

Delete

You can only delete a Product if it's Status is Disabled and in the Product is not in use.
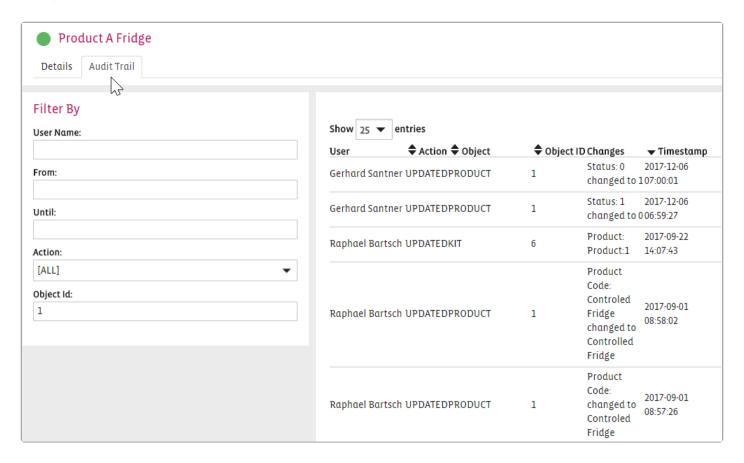
The Delete button is greyed out as long as the Product is in use.
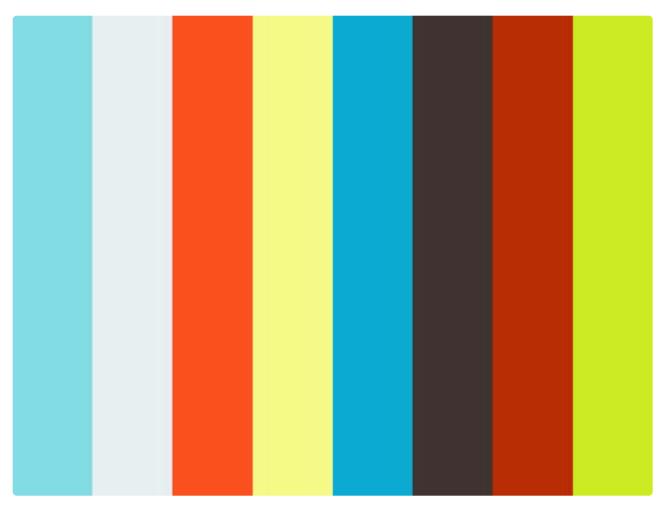
Audit Trail

The Products Audit Trail shows you all the changes you have made.

● Product A Fridge

Details   Audit Trail

Filter By

User Name:

From:

Until:

Action:

[ALL] ▼

Object Id:

1

Show 25 ▼ entries

User	Action	Object	Object ID	Changes	Timestamp
Gerhard Santner	UPDATED	PRODUCT	1	Status: 0 changed to 1	2017-12-06 07:00:01
Gerhard Santner	UPDATED	PRODUCT	1	Status: 1 changed to 0	2017-12-06 06:59:27
Raphael Bartsch	UPDATED	KIT	6	Product: Product:1	2017-09-22 14:07:43
Raphael Bartsch	UPDATED	PRODUCT	1	Product Code: Controled Fridge changed to Controlled Fridge	2017-09-01 08:58:02
Raphael Bartsch	UPDATED	PRODUCT	1	Product Code: changed to Controled Fridge	2017-09-01 08:57:26

10.6. smartAlert Unit

The smartAlert Unit menu item allows you to add an audio/visual alert device for your facility.
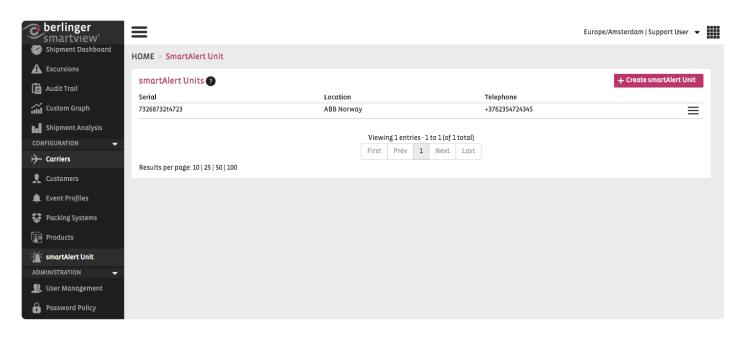
https://player.vimeo.com/video/178155401

Note: This functionality will only be visible if you are using the application for facility monitoring and if an audio/visual alert device has been installed in your facility.
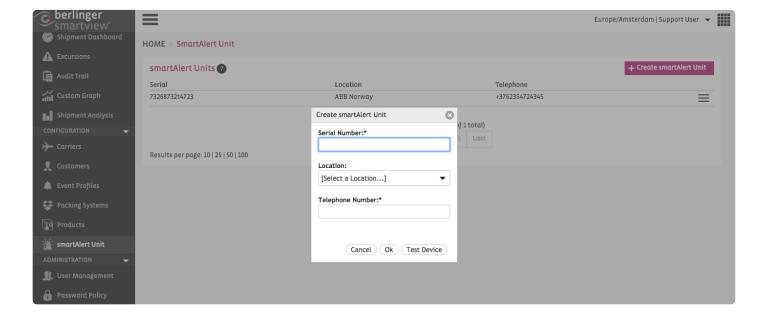
To add an alert device, click on the [+ Create smartAlert Unit] button as indicated in the following image:

This will lead you to the screen that allows you to add a location, a serial number and a telephone number for your alert device. After defining the details for your alert device, you have the option to test the device. Click on the Test Alert Device button and SmartView will automatically send a trigger to the defined phone number for test purposes. If the test is successful and you want to save the changes to your alert device, click the Create Alert Device button:

11. Administration

The Administration button in the Main Menu enables you to Manage your own and other users' account settings.

This functionality provides two options:

- User Management – The User Management option allows you to create new users and to modify the settings of existing users (status, access rights, restrictions, etc.)
- Password Policy – The Password Policy functionality enables you to define a personalised password policy for your users.

✳   The Administration functionality is only available to Admins.

11.1. User Management

In SmartView we distinguish between three types of SmartView users:
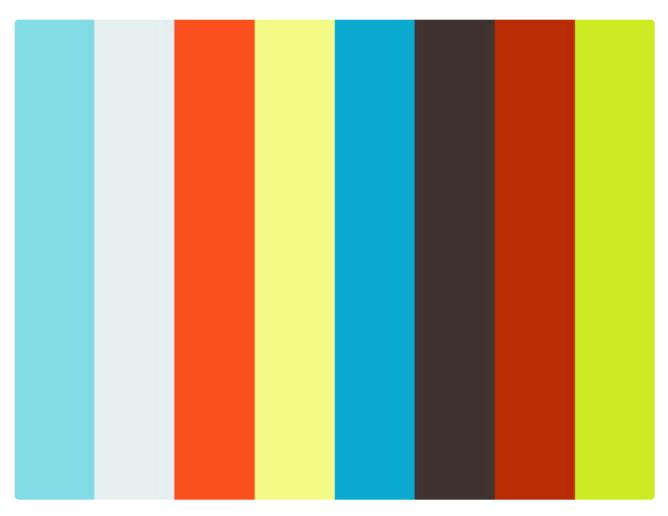
Admin – have full access and full rights in SmartView including viewing, editing and deleting information. SuperUsers also have the role of administrators of the database and can manage other user accounts including defining the access rights and setting user restrictions.

User – regular users with viewing and/or editing rights, depending on the access rights set by the SuperUser.

Q-Tag upload user – users who only have the right to upload Q-Tag data in SmartView. These type of users will only be able to view the screen that allows them to upload the Q-Tag data file. No other access rights are applicable to these type of users and no other information is available for them.

11.1.1. User Templates
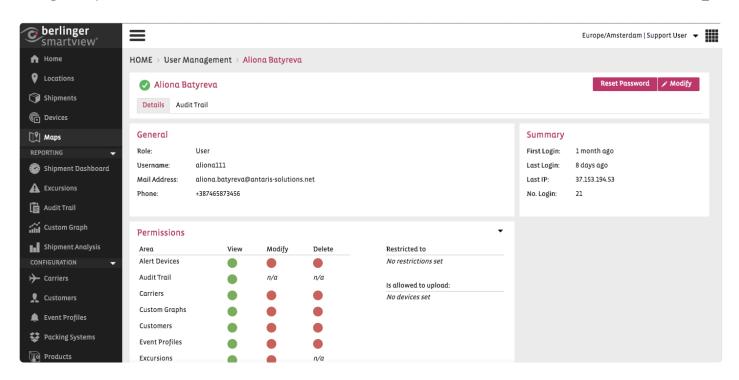
The Admins have the option to manage other users including to create, enable or disable users.
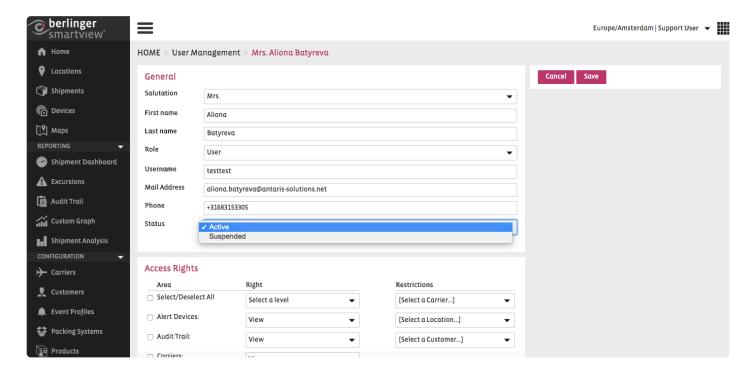
https://player.vimeo.com/video/178190982

To **create a User**, simply click on the [+ Create User] button and fill in the necessary contact details.

An Admin can View the details of any type of user by clicking either on the user name and can modify the details of that specific user by clicking on the [✎ Modify] button.
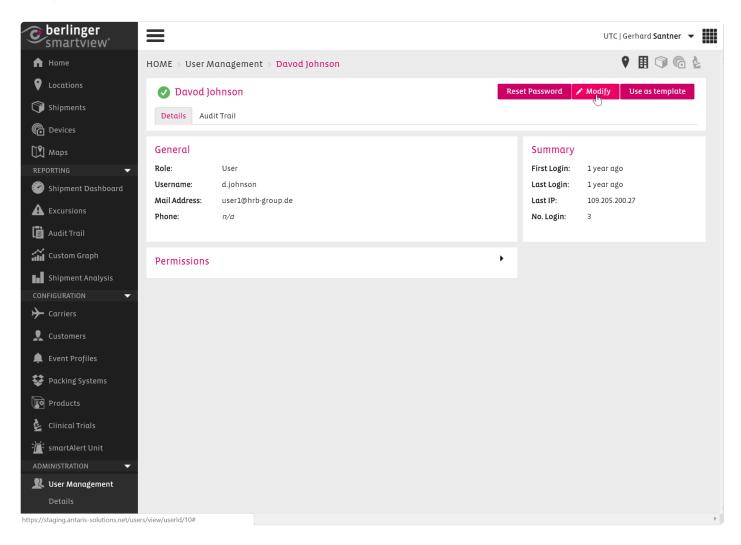
A user (of any type) cannot be deleted, but can be suspended. An Admin can suspend a User, a Q-Tag upload user or another Admin in case one is not entitled to have access to the system any longer. This can be done by selecting the '**Suspended**' status in the Modify screen and by clicking the Save button. The same way, a user can be activated, after it has been suspended, by selecting the '**Activated**' status.
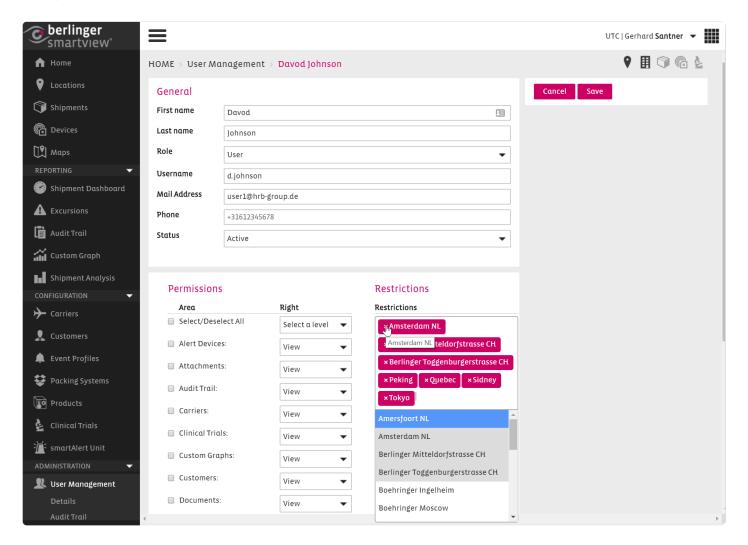
User Restrictions

An administrator can restrict a user to one or multiple locations.
Navigate to User and click modify.

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UTC | Gerhard **Santner**

HOME › User Management › Davod Johnson

- Home
- Locations
- Shipments
- Devices
- Maps

REPORTING

- Shipment Dashboard
- Excursions
- Audit Trail
- Custom Graph
- Shipment Analysis

CONFIGURATION

- Carriers
- Customers
- Event Profiles
- Packing Systems
- Products
- Clinical Trials
- smartAlert Unit

ADMINISTRATION

- User Management
    - Details

✓ **Davod Johnson**

Reset Password   ✏ Modify   Use as template

Details   Audit Trail

General

Role:	User
Username:	d.johnson
Mail Address:	user1@hrb-group.de
Phone:	n/a

Summary

First Login:	1 year ago
Last Login:	1 year ago
Last IP:	109.205.200.27
No. Login:	3

Permissions   ▶

https://staging.antaris-solutions.net/users/view/userId/10#

Now you can select the locations you want to restrict.

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≡

UTC | Gerhard **Santner** ▾   ▦

HOME › User Management › Davod Johnson

- Home
- Locations
- Shipments
- Devices
- Maps

REPORTING ▾
- Shipment Dashboard
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CONFIGURATION ▾
- Carriers
- Customers
- Event Profiles
- Packing Systems
- Products
- Clinical Trials
- smartAlert Unit

ADMINISTRATION ▾
- User Management
  - Details
  - Audit Trail

General

Cancel   Save

First name	Davod
Last name	Johnson
Role	User ▾
Username	d.johnson
Mail Address	user1@hrb-group.de
Phone	+31612345678
Status	Active ▾

Permissions

Area	Right
☐ Select/Deselect All	Select a level ▾
☐ Alert Devices:	View ▾
☐ Attachments:	View ▾
☐ Audit Trail:	View ▾
☐ Carriers:	View ▾
☐ Clinical Trials:	View ▾
☐ Custom Graphs:	View ▾
☐ Customers:	View ▾
☐ Documents:	View ▾

Restrictions

Restrictions

× Amsterdam NL
× Amsterdam NL teldorfstrasse CH
× Berlinger Toggenburgerstrasse CH
× Peking   × Quebec   × Sidney
× Tokyo

Amersfoort NL
Amsterdam NL
Berlinger Mitteldorfstrasse CH
Berlinger Toggenburgerstrasse CH
Boehringer Ingelheim
Boehringer Moscow

11.1.2. Admin

For Admins, a tab called "User Management" will appear in the menu bar as displayed in the below image.

By clicking on the 'User Management' tab, the Admin can edit the configuration of any type of user by selecting it from the overview list. A number of rights are assigned to the Admin:

https://player.vimeo.com/video/178461865

An Admin can View the details of any type of user by clicking either on the user name or on the ☰ icon in the overview list.

- An Admin can add a **User**, **Q-Tag upload user** or another **Admin** by clicking on the 'Create user' button in the User Overview page.

- An Admin can **edit the account settings** for a User or for another Admin by clicking on the ☰ icon of an individual user in the overview list or by clicking on the user name and then on the

  ✎ **Modify** button of that particular user.
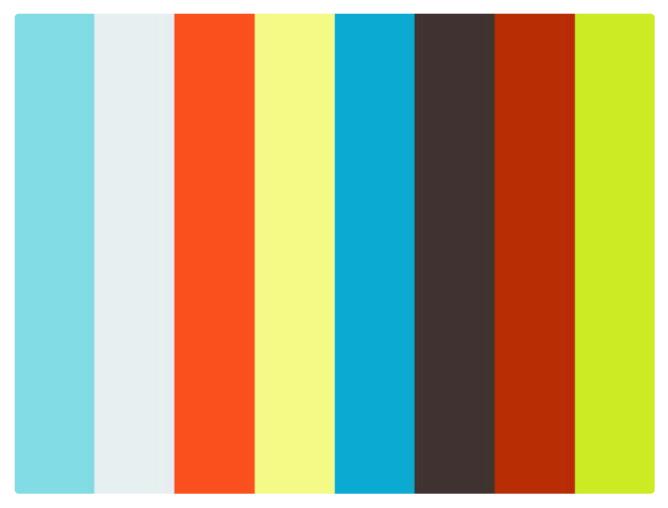
- A user (of any type) cannot be deleted, but can be suspended. An Admin can **suspend** a User, a Q-Tag upload user or another Admin in case one is not entitled to have access to the system any longer. This can be done by selecting the 'Suspended' box in the Edit: User screen and by clicking the Save button.

- An Admin can activate any type of user in case the account needs reactivation following the same steps as for suspending the user by selecting the 'Active' box in the Edit: User screen and by clicking 'Save' .

- An Admin can trigger a password reset for any of the users by clicking on the **Reset Password** button. An automatic email providing a link will be sent to the email address for which the password should be reset.

- An Admin can select and **modify the access rights** for a regular User, by clicking on the **Modify** button.

Note: The access rights of an Admin cannot be modified, as these are set by default to have full rights and full access in SmartView.

- For the **Q-Tag upload users**, the option to edit the access rights will not be visible, as the access rights for this type of users are set by default to only be able to upload Q-Tag data files. The Q-Tag upload users will only see a screen as displayed in the following image:
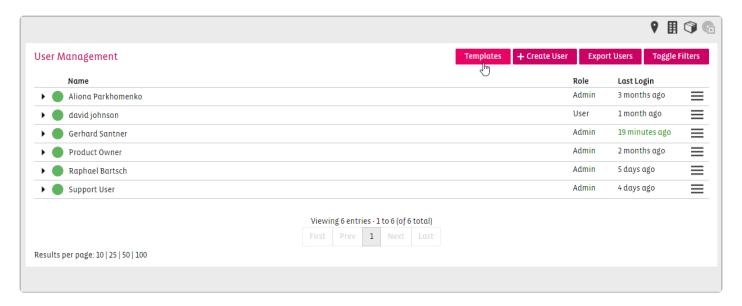
- An Admin can **export an Excel document** containing all the existing users in the system by clicking on the 'Export' button.
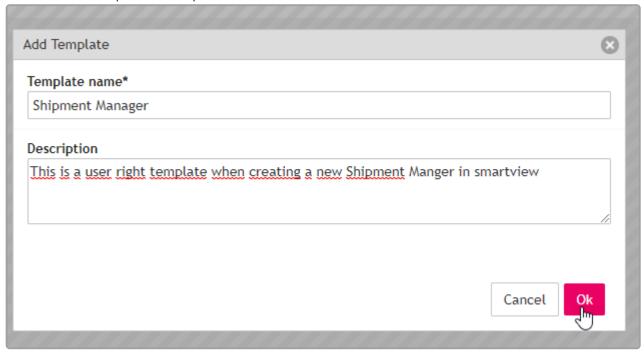
Create a new User Template

An Admin can create the following User Templates:
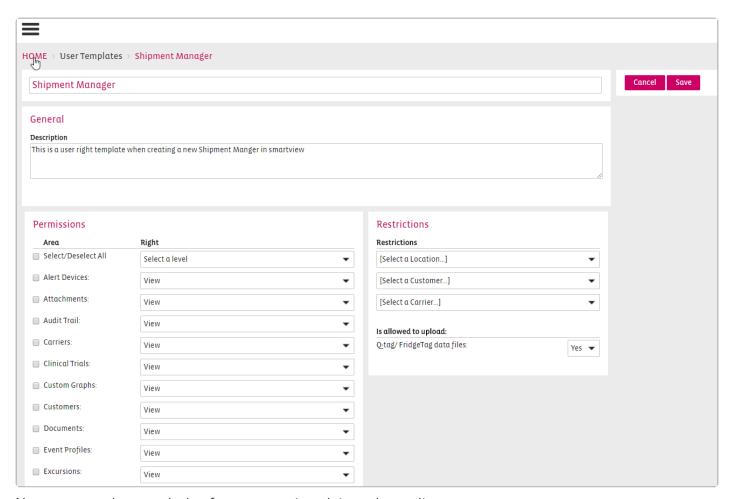
Create a new Template with the following steps

Name		Role	Last Login	
▶ 🟢 Aliona Parkhomenko		Admin	3 months ago	☰
▶ 🟢 david johnson		User	1 month ago	☰
▶ 🟢 Gerhard Santner		Admin	19 minutes ago	☰
▶ 🟢 Product Owner		Admin	2 months ago	☰
▶ 🟢 Raphael Bartsch		Admin	5 days ago	☰
▶ 🟢 Support User		Admin	4 days ago	☰

User Management   Templates   + Create User   Export Users   Toggle Filters

Viewing 6 entries - 1 to 6 (of 6 total)

First   Prev   **1**   Next   Last

Results per page: 10 | 25 | 50 | 100

Name and description of template

Add Template   ✕

Template name*

Shipment Manager

Description

This is a user right template when creating a new Shipment Manger in smartview

Cancel   Ok

Permissons of the new template

Shipment Manager

Shipment Manager

Cancel   Save

General

Description

This is a user right template when creating a new Shipment Manger in smartview

Permissions

Area	Right
☐ Select/Deselect All	Select a level ▼
☐ Alert Devices:	View ▼
☐ Attachments:	View ▼
☐ Audit Trail:	View ▼
☐ Carriers:	View ▼
☐ Clinical Trials:	View ▼
☐ Custom Graphs:	View ▼
☐ Customers:	View ▼
☐ Documents:	View ▼
☐ Event Profiles:	View ▼
☐ Excursions:	View ▼

Restrictions

Restrictions

[Select a Location...] ▼

[Select a Customer...] ▼

[Select a Carrier...] ▼

Is allowed to upload:

Q-tag/ FridgeTag data files: Yes ▼

Now you can give permission for your new template and save it.

When creating a new user you can use the templete from the list.

Add User ⊗

Salutation

[Select Salutation...] ▼

First name*

david ▤

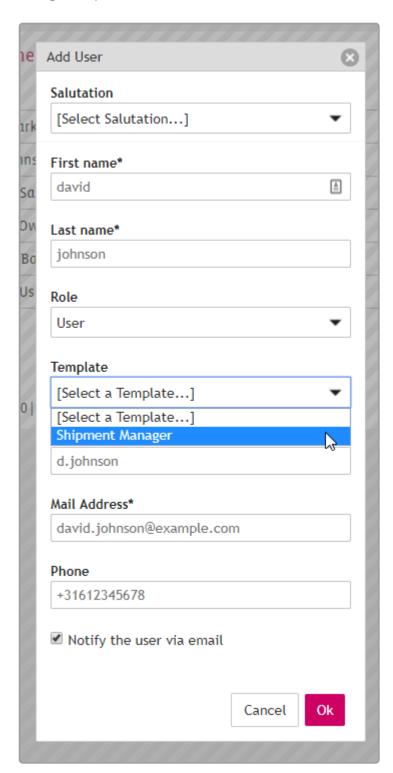**Last name***

johnson

Role

User ▼

Template

[Select a Template...] ▼

[Select a Template...]
Shipment Manager

d.johnson

Mail Address*

david.johnson@example.com

Phone

+31612345678

☑ Notify the user via email

Cancel   **Ok**

Create a User Template from an existing User

Only Administrators can make new User Templates. You can not make a Template out of a Administrator Account.
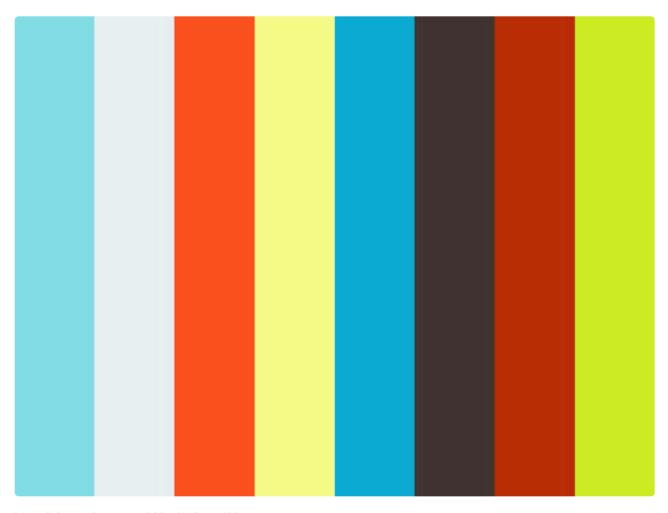You cannot assign Templates to CLm doc User uploaders only

11.1.3. Restricted user accounts

SmartView provides the option to restrict the viewing and/or editing rights of regular users. This can be done from the "Modify user" option or from the [✏ Modify] button of a specific user.

https://player.vimeo.com/video/178447190

Access can be restricted for ONLY ONE of the three filters:

Carriers – users can view and/or edit only the information related to a specific carrier and no other information.

Customer – users can view and/or edit only the information related to a specific customer and no other information.

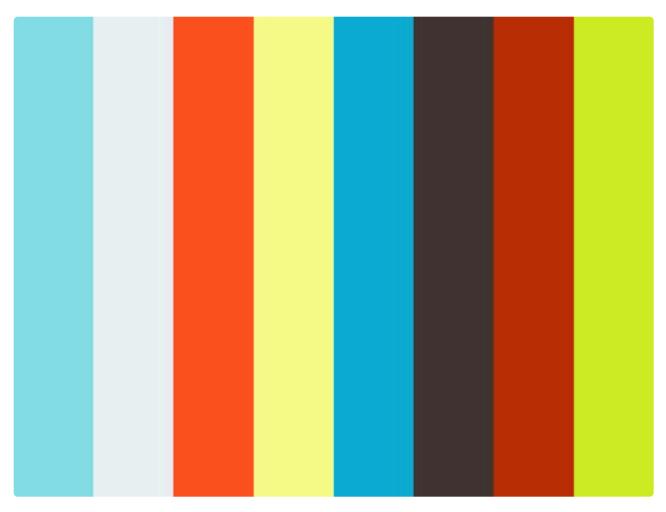**Location** – users can view and/or edit only the information related to a specific location and no other information.

Note: Only Admins have access to this feature and have the right to restrict the viewing and/or editing rights of a user. Please note that **only one restriction per user** can be applied, e.g. a user can be restricted to a location, but the same user cannot be restricted to another entity.

11.2. Password Policy

smartview by default has a highly secure password policy. However, you also have the option to strengthen this policy if necessary.

Create

https://player.vimeo.com/video/178449758
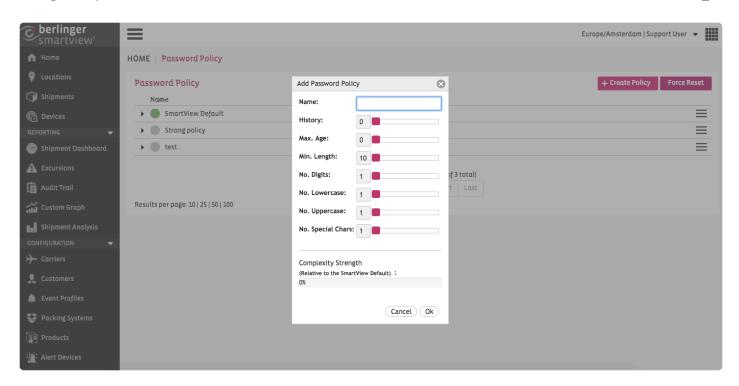
You can create a new password policy and determine your own requirements for the password of your users
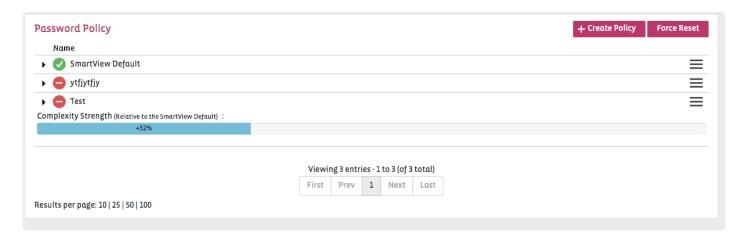
by clicking on the button.

Choose the new requirements for your password policy.
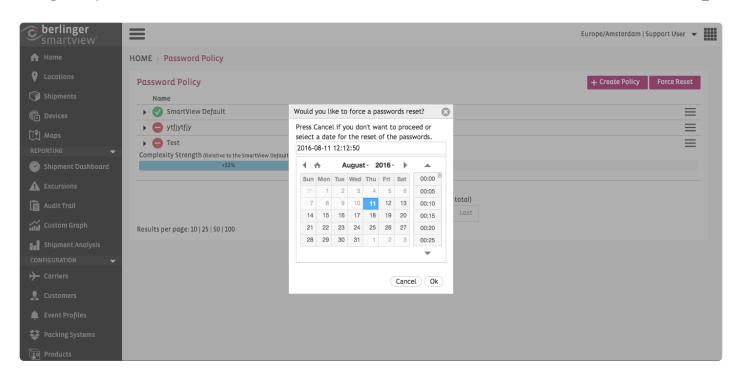
The created password policies can be activated or deactivated at any time, and you can recognise the status of a password policy by the status icon.

To activate/deactivate a password policy, simply click on the button and choose your action.
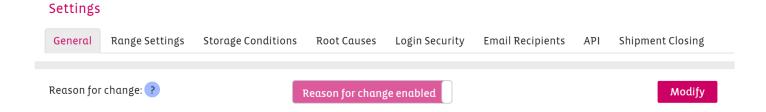
A pop-up will appear, asking you whether you would like to force a password reset for all users or whether you would like to schedule this action:

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☰

Europe/Amsterdam | Support User ▾

- 🏠 Home
- 📍 Locations
- 📦 Shipments
- 🌀 Devices
- 🗺 Maps

REPORTING ▾
- 🕐 Shipment Dashboard
- ⚠ Excursions
- 📋 Audit Trail
- 📊 Custom Graph
- 📶 Shipment Analysis

CONFIGURATION ▾
- ✈ Carriers
- 👤 Customers
- 🔔 Event Profiles
- 🔀 Packing Systems
- 📦 Products

HOME › Password Policy

Password Policy

Create Policy   Force Reset

Name

▸ ✅ SmartView Default

▸ ⛔ ytfjytfjy

▸ ⛔ Test

Complexity Strength (Relative to the SmartView Default

+32%

Would you like to force a passwords reset? ✕

Press Cancel if you don't want to proceed or select a date for the reset of the passwords.

2016-08-11 12:12:50

◂ 🏠		August ▾	2016 ▾	▸	▴

Sun	Mon	Tue	Wed	Thu	Fri	Sat	
31	1	2	3	4	5	6	00:00
7	8	9	10	11	12	13	00:05
14	15	16	17	18	19	20	00:10
21	22	23	24	25	26	27	00:15
28	29	30	31	1	2	3	00:20
							00:25

▾

Cancel   Ok

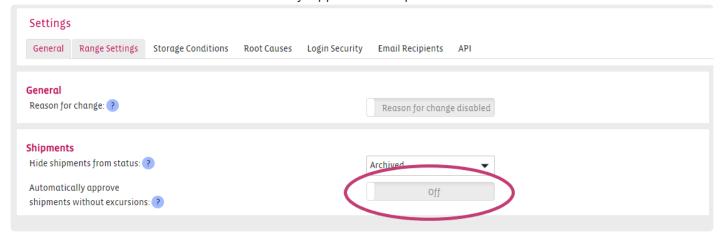Results per page: 10 | 25 | 50 | 100

total)

Last

11.3. Site Settings

General

The Administrator can activate the "Reason for Change" functionality which will require the user to provide a reason when changing shipment or facility monitoring information.

Settings

| General | Range Settings | Storage Conditions | Root Causes | Login Security | Email Recipients | API | Shipment Closing |

Reason for change: (?)   Reason for change enabled   Modify

Approve Automatically

The Administrator can define to automatically Approve all shipments that contain no excursions

Settings

| General | Range Settings | Storage Conditions | Root Causes | Login Security | Email Recipients | API |

General
Reason for change: (?)   Reason for change disabled

Shipments
Hide shipments from status: (?)   Archived
Automatically approve
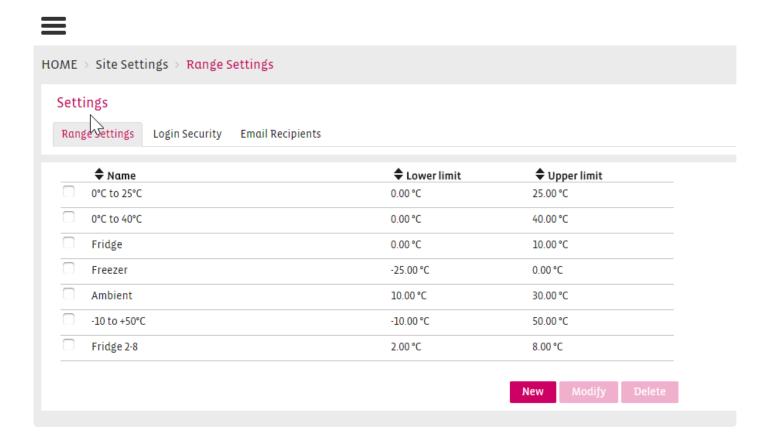shipments without excursions: (?)   Off

The following points can be modified in the Site Settings

- Range Settings
- Storage Conditions
- Root Causes:
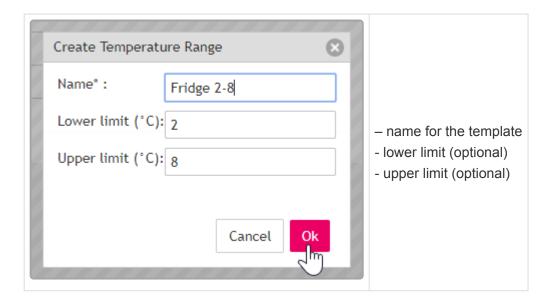- Login Security
- Email Recipients
- API
- Shipment Closing

11.3.1. Range Settings

Range Settings Temperature y-scale for Graph View

A Super user can define upper and lower limits for the graph view (y-scale) to make easier to compare different reports side by side.

Fields that should be provided:

– name for the template
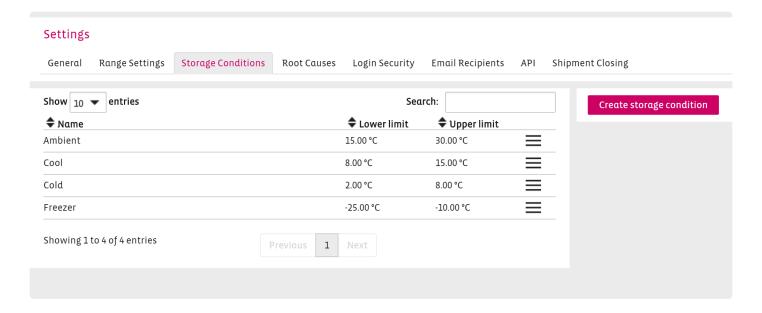- lower limit (optional)
- upper limit (optional)

At least one of the limits should be filled in. Ranges set on the basis of the user settings (F or °C).
Max amount of the ranges are 10.

11.3.2. Storage Conditions

Storage condition settings are used in multiple areas of SmartView.

Therefore, SmartView provides the functionality to define storage conditions in the Admin settings so that these conditions can be reused when assigning to **products**, **packaging systems**, **shipments** and **sectors**.

Settings

| General | Range Settings | Storage Conditions | Root Causes | Login Security | Email Recipients | API | Shipment Closing |

Show 10 ▼ entries   Search: [   ]   **Create storage condition**

⬍ Name	⬍ Lower limit	⬍ Upper limit	
Ambient	15.00 °C	30.00 °C	≡
Cool	8.00 °C	15.00 °C	≡
Cold	2.00 °C	8.00 °C	≡
Freezer	-25.00 °C	-10.00 °C	≡

Showing 1 to 4 of 4 entries   Previous   1   Next

11.3.3. Root Causes

In the Root Causes tab, the administrator can define customized reasons for excursions.
These reasons can then be used when managing a specific excursion by selecting a root cause and providing an appropriate action for handling the excursion.

Settings

General   Range Settings   Storage Conditions   **Root Causes**   Login Security   Email Recipients   API   Shipment Closing

Search: [   ]   **Create root cause**   **Modify**

Name	Shipment	Sector	Device
Active container problem	✓	✓	✓
Calibration of equipment	✓	✓	✓
Cargo build-up in progress	✓	⊖	✓
Cargo de-consolidation	✓	✓	✓
Cargo misplaced	✓	⊖	✓
Cargo on hold	✓	✓	✓
Cleaning in storage area	✓	✓	✓
Defrost cycle	✓	✓	✓
Device stopped reporting	✓	✓	✓

11.3.4. Login Security

System will lock out user account after repeated, unsuccessful login attempts.
Administrator can provide amount of unsuccessful login attempts and block time period on which user will be blocked.

HOME > Site Settings > Login Security
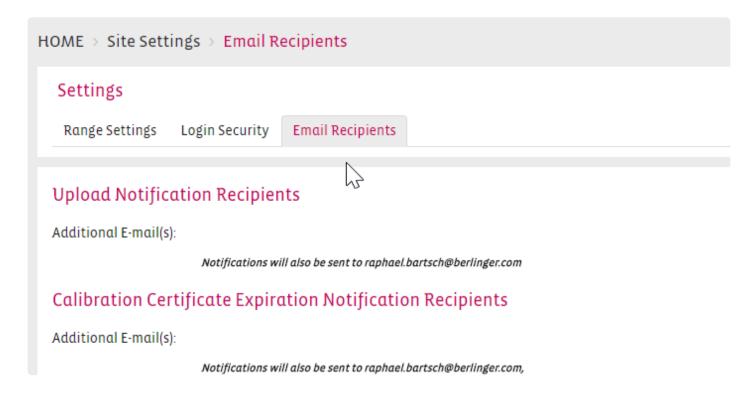
Regular user do not have access to the tab Login Security.
System will show warning message on the login page that user account was blocked.
System will send email notifications to a user that his account was blocked because of too much unsuccessful login attempts. Also email will be send to the site admin.

11.3.5. Email Recipients

Upload Notification Recipients:

Up to 5 additional E-mail recipients can be added by the Admin.

Calibration Certificate Expiration Notification Recipients:

Up to 5 additional E-mail recipients can be added by the Admin. 2 months before a calibratoin of a device expires an email reminder will be sent per mail to the Admin and up to 5 additional users (optional) assigned by the Admin.

Shipment Approval Digest Notification Recipients

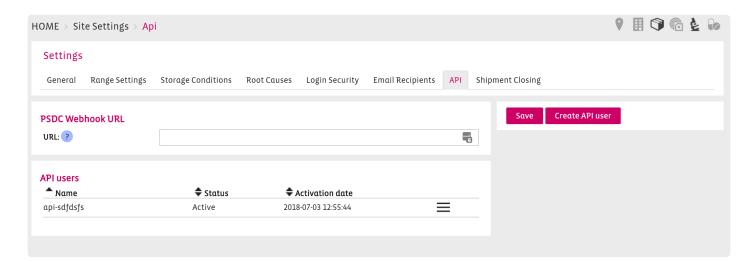Up to 5 additional E-mail recipients can be added by the Admin.
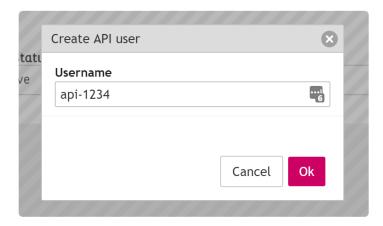
Shipment Approval Digest Notification Recipients
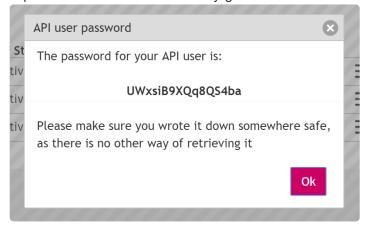
Additional E-mail(s):

11.3.6. API

In the API Tab the Admin can allow integration with other applications by way of

- Webhook URL's
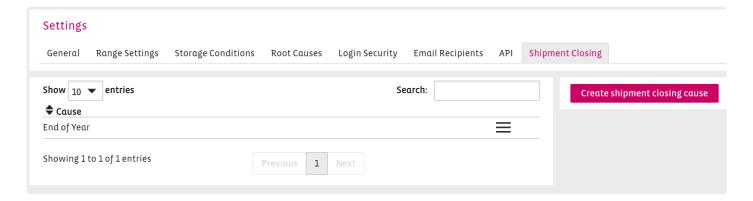- API Users

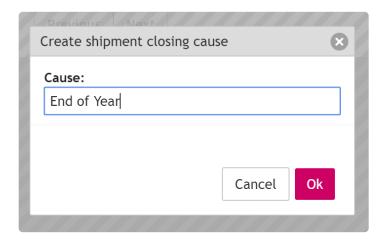A password will be automatically generated.

API Structure

❈ The structure of the SmartView API and the available Endpoints you will find here.

11.3.7. Shipment Closing

In the Shipment Closing Tab the Administrator can define reasons for manually closing a shipment.
When a shipment is closed manually, the user will be required to select one of these pre-defined reasons.

Settings

| General | Range Settings | Storage Conditions | Root Causes | Login Security | Email Recipients | API | Shipment Closing |

Show 10 ▼ entries   Search: [   ]   Create shipment closing cause

⬍ **Cause**

End of Year   ☰

Showing 1 to 1 of 1 entries   Previous   1   Next

Create shipment closing cause   ⊗

Cause:

End of Year

Cancel   Ok

✳ The functionality to manually close shipments is planned to be available in SmartView 4.8.

12. Profile

The Profile shows you information about the user and settings.
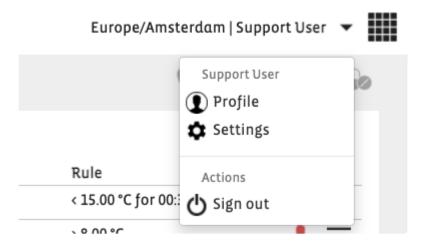
12.1. User

Profile

Settings

Subscriptions

Password

13. Sign Out

Europe/Amsterdam | Support User

Support User

Profile

Settings

Rule

< 15.00 °C for 00::

> 8.00 °C

Actions

Sign out

By using the "Sign Out" button, you can log out of SmartView.

14. Frequently Asked Questions (FAQ)

For technical problems or questions, please visit the Berlinger Support Center: FAQ – SmartView