



**User manual**

**Petrol 24/7**

**MANUAL**

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# 1. INTRODUCTION

The Petrol 247 service is a web based application that allows viewing events that occurred on different sites. Sites are therefore regularly scanned by a polling system.

For each site and each type of equipment it's possible to define rules, alarms, filtering, severity and several other parameters.

Different users can be created, such as alarms managers, cards manager, site list manager, site group manager, configuration manager, user account manager, alarm configuration manager and statistics configuration manager. It is possible to assign several levels of authorization, which allows supervising login and access to P247 functionalities.

P247 informs about defined alarm conditions on sites and can notify directly people responsible via mail and/or SMS.

P247 allows tracking events from first occurrence to final solution. All the steps that are taken to solve the problems, for example by technicians, can be traced.

P247 gives a real-time global status overview of the defined sites allowing the users to react within minutes.

P247 analyses transactions to detect abnormalities on site allowing the responsible people to take preventative measurements.

P247 allows managing cards. This includes viewing cards on Blacklist or Override List, manually blocking and unblocking cards and unblocking cards that were blocked by velocity.

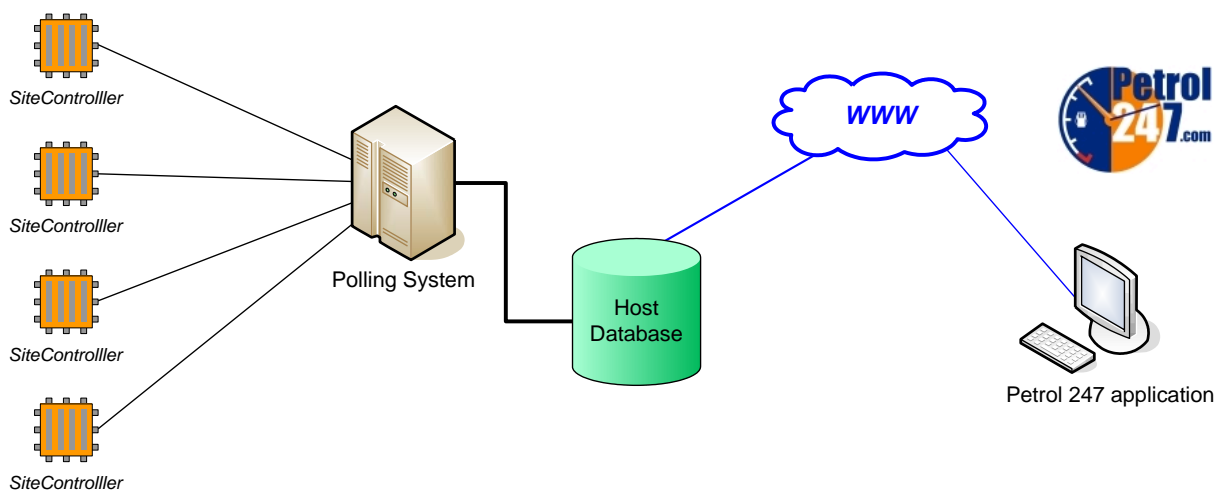


## 2. GENERAL

In each polled site, the event engine of the Site Controller is constantly running to generate all kind of events on equipment (SC, pumps, BNA, OPT ...) installed on the site. Collected data are all SC generated events, normal events and alarm events, related to the installed equipment.

A polling system scans the sites with a rate defined by the type of connection; this can be from once a day to on-line. All data is stored in a central database server from which the Petrol 247 application can make it available on the web.

**Image 1 Functional Diagram of the Petrol 247 Application**



## 3. GETTING STARTED WITH P247

### 3. 1. Logging in

#### 3. 1. 1. Prerequisites

Before starting the P247 application, your pc must have an Internet connection.  
You need an activated user login and password and, of course, you must have sufficient access rights.

#### Log in.

Use a local account to log in.

---

User name	<input type="text" value="helpdesk"/>
Password	<input type="password" value="••••••"/>
<input type="button" value="Log in"/>	

---

If your login screen shows messages like those marked in red, you must contact your administrator.

#### 3. 1. 2. First Time Log In

Start Internet Explorer and enter the URL of the P247 home page.  
The first time you log in to the P247 application you will have to allow cookies and add them to your trusted sites.

### 3. 1. 3. Logging In

- Start Internet Explorer and enter the URL of the P247 home page.



#### Services

- Alarm Control
- Transactions
- Card Management
- Statistic Analysis
- Reporting
- Wet Stock Data
- Messages
- Import / Export

[Learn more »](#)

#### Benefits

- Realtime site data
- Offers support in any operational business
- Intuitive and easy to use
- Interfaces any site controller system
- Customizable depending organizational needs
- Reduces down time
- Needs only a web browser
- Mobile Friendly

[Learn more »](#)

#### Getting Started

You can start easily, contact us for a demo or test account!

[Learn more »](#)

- Click the Log in button in the top right corner.

#### Log in.

Use a local account to log in.

User name	<input type="text" value="helpdesk"/>
Password	<input type="password" value="••••••••"/>
	<input type="button" value="Log in"/>





- Enter your user name and password.  
Click the Log in button below or <ENTER> to confirm.

If your login is successful, a Petrol 247 session starts and sends the P247 homepage.

In case of wrong or invalid login, the password will disappear giving you the opportunity to re-enter a value.

In case you are not authorized to log in, you'll get following messages.

**Unauthorised Access!**

**Sorry, you are not authorised to view the material in this part of the web site.**

In this case, try to log in with different user name and password or contact your administrator.

## 3. 2. Logging out

You can log out at any time. To do so, follow the steps below:

- Click the Log in button in the top right corner.



### Services

- Alarm Control
- Transactions
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### Benefits

- Realtime site data
- Offers support in any operational business
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[Learn more »](#)

### Getting Started

You can start easily, contact us for a demo or test account!

[Learn more »](#)



#### Attention

***A session will end automatically when there is no action within a certain time.***

*In this case, the page that was last accessed will stay on screen, until you select a button. Doing so, you will be redirected to the P247 login-screen. Please, then re-log in.*

# 4. PAGE LAY-OUT

After you logged in successfully, the homepage is loaded.

Depending on the user's rights, this page will show a number of menus on the top. Possible menus are Alarms Management, Cards Management, Statistics Management, Configuration. The logoff and Contact button are always visible.


## 4. 1. General Page Lay-out

Pages generated by the Petrol 247 application give overviews (alarms, events, users, transactions ...) or show details and parameters. They have the same general lay-out.

Overview pages (Image 2) and pages with details and parameters (Image 3) have two main fields.

**Image 2 Lay-Out of P247 Pages – Menu and Overview**

PETROL 24/7



Home
Alarms ▾
Cards ▾
Statistics ▾
Reports ▾
Configuration ▾
About
Contact
Hello, PHN I
Log off

**Tracking - Alarms**

No filter applied. [ Alarm Export ]

[Change filter](#)

Alarm	Severity	Description	Date	Time	Site	Status
669140	Medium	OPT2010 probleem ticketprinter	10/07/2017	14:00:13	Site 01	Cancelled
669139	Medium	OPT2010 probleem ticketprinter	10/07/2017	13:57:30	Site 01	On-hold
669138	Medium	OPT2010 probleem ticketprinter	10/07/2017	13:38:38	Site 01	Auto-Closed
669137	High	Alarm leideleedie tank	10/07/2017	13:33:52	Site 01	Cancelled
669136	Medium	Transactie duurt > 13 min	10/07/2017	13:07:22	Site 01	Auto-Closed
669135	Medium	Pistool niet ingehaakt	10/07/2017	13:00:01	Site 01	On-hold
669134	High	OPT2010 buiten dienst	10/07/2017	12:24:20	Site 01	Cancelled
669133	Medium	OPT2010 foutmelding pinpad	10/07/2017	12:24:20	Site 01	Cancelled
669132	High	Pomp buiten dienst	10/07/2017	12:15:00	Site 01	Auto-Closed
669131	High	Pomp buiten dienst	10/07/2017	12:15:00	Site 01	Auto-Closed
669130	Medium	Transactie duurt > 13 min	10/07/2017	11:55:56	Site 01	Auto-Closed
669129	High	Pump - Flow too slow	10/07/2017	11:00:50	Site 01	New
669128	Medium	Transactie duurt > 13 min	10/07/2017	11:00:48	Site 01	Cancelled
669127	High	OPT2010 buiten dienst	10/07/2017	11:00:38	Site 01	Cancelled
669126	Medium	OPT2010 probleem ticketprinter	10/07/2017	11:00:37	Site 01	Cancelled
669125	Medium	OPT2010 foutmelding pinpad	10/07/2017	11:00:37	Site 01	Cancelled
669124	Medium	Transactie duurt > 13 min	10/07/2017	10:55:50	Site 01	Auto-Closed
669123	High	Pomp buiten dienst	10/07/2017	10:43:40	Site 01	Cancelled
669122	High	Pomp buiten dienst	10/07/2017	10:43:39	Site 01	Cancelled
669121	Medium	Transactie duurt > 13 min	10/07/2017	10:36:55	Site 01	Auto-Closed
669120	High	OPT2010 buiten dienst	10/07/2017	10:36:28	Site 01	Auto-Closed
669119	Medium	OPT2010 foutmelding pinpad	10/07/2017	10:36:28	Site 01	Auto-Closed
669118	Medium	OPT2010 probleem ticketprinter	10/07/2017	10:36:25	Site 01	Auto-Closed
669117	Medium	OPT2010 probleem ticketprinter	10/07/2017	10:31:37	Site 01	Cancelled
669116	Medium	OPT2010 probleem ticketprinter	10/07/2017	10:29:37	Site 01	New
669115	High	Pomp buiten dienst	10/07/2017	10:26:40	Site 01	Auto-Closed
669114	High	Pomp buiten dienst	10/07/2017	10:26:40	Site 01	Auto-Closed
669113	Medium	Tank leidek niveau bereikt	10/07/2017	10:22:31	Site 01	New
669112	Medium	OPT2010 probleem ticketprinter	10/07/2017	10:21:55	Site 01	Cancelled
669111	High	Oleafschelder max. waterniveau bereikt	10/07/2017	10:17:19	Site 01	New


<< < Page 1 of 3291 pages > >>

Overview pages contain (see Image 2):

1. The Petrol 247 main-menu, which contains up to six buttons:
  - Five buttons to select the four P247 program parts
  - The Home button to return to the home page
  - The About button showing information on Petrol 247.
  - The Contact button showing contact information for Microlec.
  - The Hello! Button showing information of your account.
  - The Log off button.
2. The P247 data field showing data or parameters.

The main menu is always present on screen. The information in the Data Field depends on the chosen link in the main or sub-menu. For example: Alarm details (see Image 3).

**Image 3 Example Alarm - Details**

**PETROL 24/7**


Home Alarms ▾ Cards ▾ Statistics ▾ Reports ▾ Configuration ▾ About Contact
Hello, PHN ! Log off

**Alarm - Details**

Alarm-ID: 669140  
 Date/time: 10/07/2017 14:00:13

---

☐ Overview of the events that triggered the alarm:

Event-ID: 178236	Description: Printer OK Equipment: 2010 OPT Date/time: 10/07/2017 13:59:02	Device: 2 / Subdevice: 0						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #0056b3; color: white;"> <th>Property</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>RECSEQ</td> <td>103158</td> <td>Event record sequence number</td> </tr> </tbody> </table>	Property	Value	Description	RECSEQ	103158	Event record sequence number	
Property	Value	Description						
RECSEQ	103158	Event record sequence number						
Event-ID: 178234	Description: Printer error Equipment: 2010 OPT Date/time: 10/07/2017 13:59:01	Device: 2 / Subdevice: 0						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #0056b3; color: white;"> <th>Property</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>RECSEQ</td> <td>103156</td> <td>Event record sequence number</td> </tr> </tbody> </table>	Property	Value	Description	RECSEQ	103156	Event record sequence number	
Property	Value	Description						
RECSEQ	103156	Event record sequence number						

---


☐ Alarm status history:

Status	User	Date/Time	Action description
Cancelled	P247	10/07/2017 14:00:14	Automatic confirmation, alarm cancelled.
On-hold	P247	10/07/2017 14:00:13	Created

---

☐ Update the alarm status:

---



**Attention**

**You have no access to P247 functionalities of buttons marked in grey.**

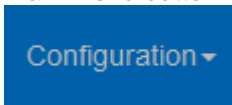
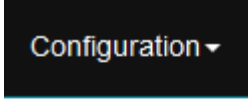
You cannot operate the P247 buttons or menus that are marked grey, you are not authorized to access the associated functions or program parts.  
 The P247 program parts that you can access are defined by your user level, i.e. your login id.

## 4. 2. Overview Menus

### 4. 2. 1. Configuration

The configuration is activated by clicking the “Configuration” button in the main menu; this will also load the associated sub menu. Table 1 gives an overview of all functionalities.

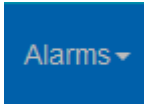
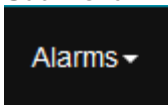
**Table 1** *Functionalities of Configuration*

Menus	Option	Functionalities
Main menu button  Sub menu:  <b>User Account configuration</b> Account Account list <b>Network configuration</b> Site list Site groups	<b>User account configuration Account</b>	Gives an overview of all details of the current user account: user account properties, roles associated with the account, notification preferences, time schedule.
	<b>User account configuration Account list</b>	Gives an overview of all employees in a Major Oil Company (MOC). Authorized users can: View and modify parameters of each employee. Delete employees and create new ones.
	<b>Network configuration Site list</b>	Gives an overview of all sites. Authorized users can: View and modify parameters of each site. Delete sites and create new.
	<b>Network configuration Site groups</b>	Gives an overview of all site groups. Authorized users can: View and modify parameters of each site group. Delete site groups and create new.

## 4. 2. 2. Alarms Management

The Alarms management is activated by clicking the “Alarms” button in the main menu. This will also load the associated sub menu. Table 2 gives an overview of all functionalities.

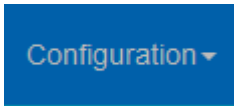
**Table 2** *Functionalities of Alarms Management*

Menus	Option	Functionalities
Main menu button:   Sub menu:   <b>Tracking</b> Alarms Events Transactions Status  <b>Definitions</b> Alarm definitions Rule definitions Events definitions	<b>Tracking Alarms</b>	Gives a chronological overview of alarms on all sites that are conImaged for this user. This overview includes alarm description, severity, status, site and time of creation. It also shows which steps have been taken to solve the alarm situation and by who. (Alarm history) Users can: Filter alarms on Alarm Id, Severity, Descriptions, Date, Time, Site and Status. View details of each alarm and alarm event(s).
	<b>Tracking Events</b>	Gives a chronological overview of all events generated on all sites conImaged for this user. It includes site, description, equipment, (sub)devices, time of generation and creation. Users can: Filter events on Event Id, Description, Site, Equipment, Device, Sub Device, Date and Time. View details of each alarm event.
	<b>Tracking Transactions</b>	Gives a chronological overview of all transactions generated on all sites conImaged for this user. It includes site, pump, nozzle, start and end time and date, product name, mop, terminal type an number. Users can: Filter transactions on Transaction Id, Site, Pump, Nozzle, Date, Time, Product, Mop, Terminal type, Terminal sequence number. View details of each transaction.
	<b>Tracking Status</b>	Gives an overview of the global status of a site. Sites that give an error are always on top, this way the user can have a quick look at his site park. This overview includes check date, check time and status of the site Users can: Filter on site group, site and status. View details of each equipment on site.
	<b>Definitions Alarm definitions</b>	Gives an overview of all alarm definitions including description. Authorized users can: View and modify alarm-definition parameters. Delete alarm definitions and create new.
	<b>Definitions Rule definitions</b>	Gives an overview of all defined alarm rules including description. Authorized users can: View and modify alarm rule parameters. Delete alarm rules and create new.
	<b>Definitions Event_definitions</b>	Gives an overview of all event definitions ordered per equipment type. It includes description and code. Users can view details of each event definition.

### 4. 2. 3. Administration Configuration

The “Administration Configuration” is reserved for system administrators. This program part is not described in the manual.

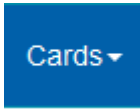
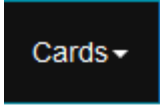
Users, who are authorized to access this P247 functionality, will find all Administration Configuration Utilities in the Menu Configuration.



### 4. 2. 4. Card Management

Card Management is activated by clicking the “Cards” button in the main menu; this will also load the associated sub menu. Table 3 gives an overview of all functionalities.


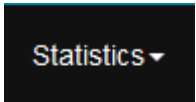
**Table 3** *Functionalities of Card Management*

Menus	Option	Functionalities
Main menu button: 	<b>Blacklist</b> <b>Blacklist</b> <b><u>Overview</u></b>	Gives an overview of all cards on the Blacklist. Authorized users can: View manually blocked cards and until when they are blocked. Remove manual blocking. View cards blocked by velocity
Sub menu: 	<b>Manual handling</b> <b>Block card</b> <b>Unblock card</b>	Allows manual blocking and unblocking cards. Authorized users can: Block cards for a certain period. Unblock blocked cards.
<b>Blacklist</b>	<b>Velocity handling</b> <b>Velocity</b> <b>Overview</b>	Gives an overview of all cards on the Override List. Authorized users can remove cards from the velocity list.
Blacklist Overview	<b>Velocity handling</b> <b>Add card to velocity list</b>	Velocity override list. Authorized users can: add cards to the Override List.
<b>Manual handling</b>	<b>Velocity handling</b> <b>Remove card from velocity list</b>	Velocity override list Authorized users can: remove cards from the Override List.
Block card Unblock card		
<b>Velocity handling</b>		
Velocity Overview Add card to velocity list Remove card from velocity list		

## 4. 2. 5. Statistic Management

Statistic Management is activated by clicking the “Statistics” button in the main menu; this will also load the associated sub menu. Table 34 gives an overview of all functionalities.


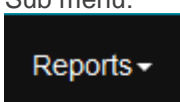
**Table 4** *Functionalities of Statistic Management*

Menus	Option	Functionalities
Main menu button:   Sub menu:   Analysis list Weight list	<b>Analyses list</b>	Gives an overview of all analysis results for each site per mop, pump and terminal. The result is displayed for every timeframe of the day. There are 24 timeframes in a day, starting from 0 (0 to 1 am) and ending on 23 (11 to 0 pm). Authorized users can: View the analysis result and details Pause or Stop the analysis. Restart the analysis
	<b>Weight list</b>	Allows to set up the thresholds used to determine when an event should be generated. Authorized users can: Set the positive threshold for each site and each time frame. Set the negative threshold for each site and each time frame.

## 4. 2. 6. Reporting

The reporting tool is activated by clicking the “Reports” button in the main menu; this will also load the associated sub menu. Table 35 gives an overview of all functionalities.

**Table 5** *Functionalities of Statistic Management*

Menus	Option	Functionalities
Main menu button:   Sub menu:   Sales Report Fuel Prices Report Tank Analyse Report	<b>Sales Report</b>	Allows to set up a sales report, expressed in amount, volume or per MOP, for a specific site or for a group of sites.
	<b>Fuel Prices Report</b>	Allows to set up report of the progression of the fuel prices for a specific site Set the negative threshold for each site and each time frame.
	<b>Tank Analyse Report</b>	Allows to set up a report of the wet stock status for a specific site.



# 5. CONFIGURATION

This part of Petrol 247 is used to access data on sites, site groups and users. Depending on the access level assigned by the system administrator, the user is able to view, modify, delete and/or create sites, users and site groups.

## 5. 1. Prerequisites

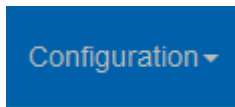
To describe all functionalities of the Configuration we must have access to all items in the submenu. You can access "Configuration" only if all three of the following requirements are met:

- You have a valid user login for P247 (i.e. you use the login ID and password user).
- This user login is "active"
- You have access rights as "User accounts manager" AND "Alarm configuration manager" AND "Configuration manager" AND "Site List manager" AND "Site group manager".

## 5. 2. Starting Configuration

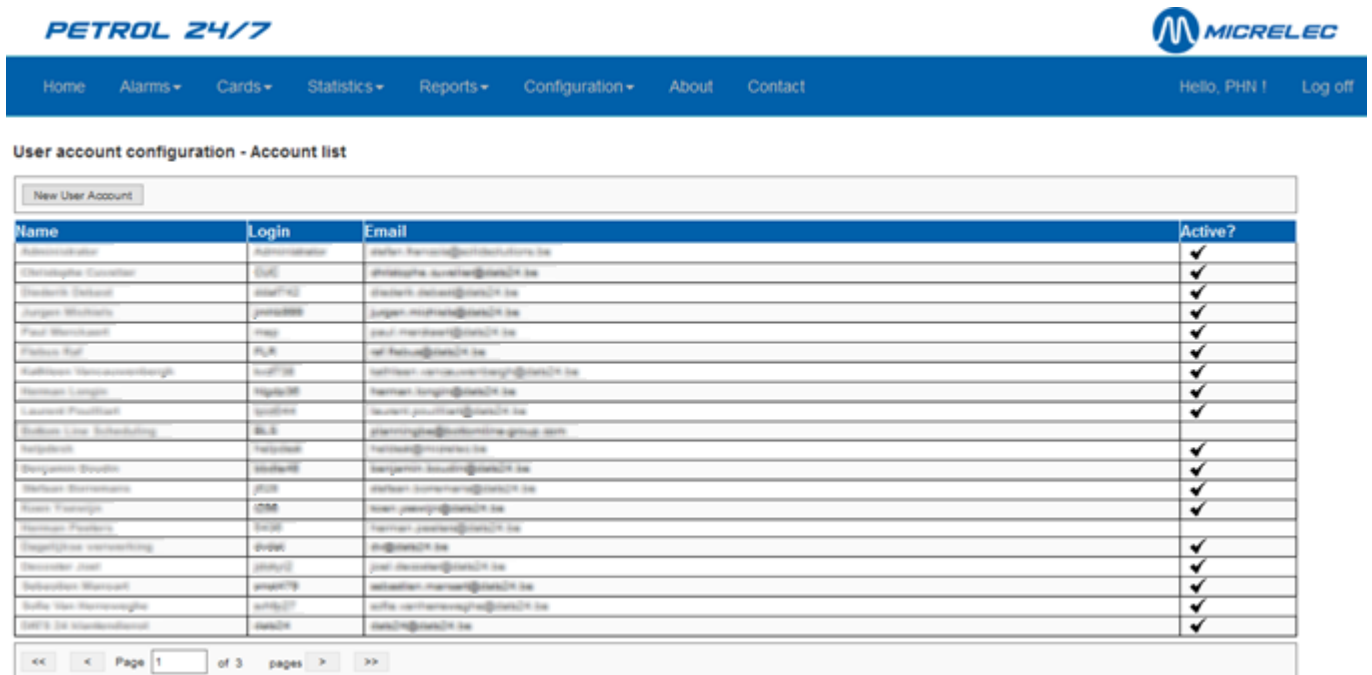
To access this part of the P247 program:

- Click the "Configuration" button in the main menu.



You should have access to all items in the "Configuration" menu.

Image 4 Configuration – User account configuration



The screenshot shows the 'User account configuration - Account list' page in the Petrol 24/7 system. The page features a navigation bar with 'Configuration' selected. Below the navigation bar is a table listing user accounts with columns for Name, Login, Email, and Active? (with a checkmark). A 'New User Account' button is located at the top left of the table area. The table contains 20 rows of user data.

Name	Login	Email	Active?
Administrateur	Administrateur	admin@petrol247.be	✓
Christophe Couvreur	CCU	christophe.couvreur@petrol247.be	✓
Stefanik Debaet	stefanik	stefanik.debaet@petrol247.be	✓
Jürgen Michiels	jmiel001	jurgen.michiels@petrol247.be	✓
Paul Willems	pwil	paul.willems@petrol247.be	✓
Patrick Raaij	PRR	patrick.raaij@petrol247.be	✓
Kathleen Vermeirswaerdegh	kvf020	kathleen.vermeirswaerdegh@petrol247.be	✓
Herman Longin	hlongin	herman.longin@petrol247.be	✓
Laurent Poulhaert	lpoulha	laurent.poulhaert@petrol247.be	✓
Walter Van Schooten	WVS	walter.van.schooten@petrol247.be	✓
Herman Debaet	hdebaet	herman.debaet@petrol247.be	✓
Bergeman Boublin	bboublin	bergeman.boublin@petrol247.be	✓
Walter Vermeirswaerdegh	WVS	walter.vermeirswaerdegh@petrol247.be	✓
Walter Vermeirswaerdegh	WVS	walter.vermeirswaerdegh@petrol247.be	✓
Walter Vermeirswaerdegh	WVS	walter.vermeirswaerdegh@petrol247.be	✓
Walter Vermeirswaerdegh	WVS	walter.vermeirswaerdegh@petrol247.be	✓
Walter Vermeirswaerdegh	WVS	walter.vermeirswaerdegh@petrol247.be	✓
Walter Vermeirswaerdegh	WVS	walter.vermeirswaerdegh@petrol247.be	✓
Walter Vermeirswaerdegh	WVS	walter.vermeirswaerdegh@petrol247.be	✓
Walter Vermeirswaerdegh	WVS	walter.vermeirswaerdegh@petrol247.be	✓
Walter Vermeirswaerdegh	WVS	walter.vermeirswaerdegh@petrol247.be	✓
Walter Vermeirswaerdegh	WVS	walter.vermeirswaerdegh@petrol247.be	✓

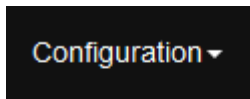
## 5. 3. User account configuration

To access Account details:

- Click the “Account” button in the “Configuration” menu.

To access Account list data:

- Click the “Account list” button in the “Configuration” menu.



User Account configuration

Account

Account list

### 5. 3. 1. Account details

You will find a few properties that can be modified.

#### User Account - Details

Account enabled

#### User account properties:

Name:   
Login:   
Email address:    
[\[Reset password\]](#)

#### Roles associated with the account:

Available roles	Applied roles
<input type="button" value="Up"/>          <input type="button" value="Dn"/>	Alarms manager Cards manager Site list manager Site group manager Configuration manager User accounts manager Alarm configuration manager Restricted site membership user Statistics configuration manager Reports manager <input type="button" value="Up"/> <input type="button" value="Dn"/>

#### Notification preferences:

Recieve sms  
(  )  -    
Select a cost center: Default

Receive email

#### Time Schedule:

Mon  Tue  Wed  Thu  Fri  Sat  Sun  
Time From : 00:00:00 (hh : mm : ss)  
Time To : 00:00:00 (hh : mm : ss)


#### Properties:

- Account enabled: this shows the status of the current account. You will not be able to modify this status
- User account properties: name, login, e-mailadress and possibility to reset password
- Roles associated with the account: roles and rights associated with the current account. In the left part you will find the available roles. These can be moved into the applied roles part.
- Notifiacion preferences: define how you want to be notified (sms/e-mail)
- Time schedule: define when you want to be notified.

When modifications need to be saved, click the "Save" button at the bottom of the page.

### 5. 3. 2. Account list Overview

The data field gives an overview of all accounts, sorted by creating date in ascending order.

**PETROL 24/7**


Home Alarms ▾ Cards ▾ Statistics ▾ Reports ▾ Configuration ▾ About Contact
Hello, PHN ! Log off

**User account configuration - Account list**

Name	Login	Email	Active?
Administrateur	Administrateur	admin@micrelec.be	✓
Christophe Couvreur	CCU	christophe.couvreur@micrelec.be	✓
Stewart Debaet	stewart	stewart.debaet@micrelec.be	✓
Jürgen Michiels	jmiel005	jurgen.michiels@micrelec.be	✓
Paul Willekens	pwil	paul.willekens@micrelec.be	✓
Floris Raaij	FR	floris.raaij@micrelec.be	✓
Kathleen Vermeirenbergh	kver008	kathleen.vermeirenbergh@micrelec.be	✓
Herman Linghe	hlinghe	herman.linghe@micrelec.be	✓
Laurent Poutiers	lpoutie	laurent.poutiers@micrelec.be	✓
Stefan Lise Schelding	SL	stefan.lise@micrelec.be	✓
Herman Peeters	hpeete	herman.peeters@micrelec.be	✓
Bergman Struvin	struvin	bergman.struvin@micrelec.be	✓
Walter Sommers	wsomm	walter.sommers@micrelec.be	✓
Ron Peeters	RPE	ron.peeters@micrelec.be	✓
Herman Peeters	hpeete	herman.peeters@micrelec.be	✓
Stéphane Vermeiren	svmeir	stephane.vermeiren@micrelec.be	✓
Stewart Debaet	stewart	stewart.debaet@micrelec.be	✓
Stefaan Willekens	swillek	stefaan.willekens@micrelec.be	✓
Sofie Van Herreweghe	svherre	sofie.vanherreweghe@micrelec.be	✓
Stefaan Willekens	swillek	stefaan.willekens@micrelec.be	✓

<< < Page 1 of 3 pages > >>

### 5. 3. 3. Viewing, modifying or deleting an account

- Click the Account Name to view its details.

#### User Account - Details

Account enabled

#### User account properties:

Name:

Login:

Email address:

[Reset password](#)

#### Roles associated with the account:

Available roles	Applied roles
<input type="button" value="Up"/> Configuration manager <input type="button" value="Dn"/>	<input type="button" value="Up"/> Alarms manager Cards manager Site list manager Site group manager User accounts manager Alarm configuration manager Restricted site membership user Statistics configuration manager Reports manager <input type="button" value="Dn"/>
<input type="button" value="&lt;"/> <input type="button" value="&gt;"/> <input type="button" value="&lt;&lt;"/> <input type="button" value="&gt;&gt;"/>	

#### Notification preferences:

Receive sms

(  )  -

Select a cost center:

Receive email

#### Time Schedule:

Mon  Tue  Wed  Thu  Fri  Sat  Sun

Time From:  (hh : mm : ss)

Time To:  (hh : mm : ss)

- Click "Save" to save modifications, "Delete" to delete this employee or "Back" to cancel modifications.

Command	Action	Messages
"Save"	P247 saves the actual user account details and his login, if any. You return to the overview.	No message.
"Delete"	If you click "Delete", the employee and his login data, if any, are deleted. You return to the overview.	No message.

### 5. 3. 4. Creating a new user account

To create a new employee:

- Go to "Account list" and click "New User Account". You will see the screen below:

#### User Account - Details

Account enabled

#### User account properties:

Name:   
Login:  \*  
Password:  \*  
Repeat password:   
Email address:

#### Roles associated with the account:

Available roles		Applied roles	
Up	Alarms manager Cards manager Site list manager Site group manager Configuration manager User accounts manager Alarm configuration manager Restricted site membership user Statistics configuration manager Reports manager		Up
	< > << >>		
Dn			Dn

#### Notification preferences:

Recieve sms  
(  )  -    
Select a cost center :


Receive email

#### Time Schedule:

Mon  Tue  Wed  Thu  Fri  Sat  Sun  
Time From :  (hh : mm : ss)  
Time To :  (hh : mm : ss)

- Fill in the fields. For more information, see Table 6.

**Table 6 User Account Data**

Parameter Name	Data Field or Option	Remarks
Account enabled	<input checked="" type="checkbox"/> Account enabled	Check this box if the user account needs to be enabled. An enabled user can login into P247
<b>User account properties:</b>		
Name	(max. 40 char.)	You have to give the user a name when you create him.
Login		Give the user a login name, this can be different from the user name.
Password	(Min. 8 char. - Max.64 char.)	Enter the password that the user will use to log in.
Repeat Password	idem	Enter this password a second time to confirm it.
<b>Roles associated with the account:</b>		
Administrator	By pressing following buttons, user roles can be applied.	An administrator has access to all functionalities of P247. This role is never given to an end user.
Alarms manager		An Alarms manager can View: alarms, events, transactions and status. Alarm definitions, rule definitions, events definitions Update the alarms status.
Cards manager		A Card manager can: View the Blacklist Block card manual Unblock card manual View the velocity handling Add card to the velocity Remove card from the velocity
Site list manager		A Site List manager can: View, Edit, Create and Delete Sites. View Site Groups
Site group manager		A Site group manager can: View, Edit, Create and Delete Site Groups. View Sites
Configuration manager		A Configuration manager can: View the Account List
User accounts manager		A user account manager can: View, Edit, Create and Delete User accounts.
Alarm configuration manager		A alarm configuration manager can: Edit, Add, Remove Alarm definitions. Enable or disable an alarm Note: user should also have the role as an alarm manager.

Parameter Name	Data Field or Option	Remarks
Restricted site member user		This will restrict the user to only those alarms, events, statuses and transactions that were generated for the site he or she is monitoring
Statistics configuration manager		A Statistic configuration manager can: View the analyses list Pause, Stop en Restart the analyses View the Weight list
<b>Notification Preferences:</b>		
Receive sms	<input type="checkbox"/> Receive sms ( ) - <input type="text"/> <input type="button" value="Send Test SMS"/> <small>Select a cost center: Default</small>	If a sms is needed to receive the alarm, just check the box and fill in a mobile number. With the "Send Test SMS" button, it is possible to test if the sms service is working and the mobile number is valid.
Receive email	<input type="checkbox"/> Receive email	If an email is needed to receive the alarm, just check the box
<b>Time schedule:</b>		
Time schedule	<input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat <input type="checkbox"/> Sun Time From: 00:00:00 (hh : mm : ss) Time To : 00:00:00 (hh : mm : ss)	Indicate when (days/time) you would like to be notified.



(\*) Don't forget to enter a valid email address or mobile number if you selected one of the options "Receive email" or "Receive SMS" (on alarm).  
The addressee must participate in one or more Alarm Output Groups.

### Attention

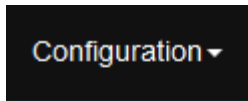
- Click "Save" to save the new user account details or Browser "Back" to return to the overview without saving.
- Click "Delete" to erase the user account.



## 5. 4. Sites

To access site data:

- Click the “Sites list” button in the “Configuration” menu.



### User Account configuration

Account

Account list

### Network configuration

**Site list**

Site groups

### 5. 4. 1. Site overview

The screen will show an overview of all the sites. For each site you will see the “Site-id” and “Site name”.

#### Network configuration - Site list

Site-id	Site name
0005	Aars (N)
0019	Aalst (N)
0056	Aars (N)
0033	Anderlecht (N)
0047	Anderlecht (N)
0023	Aars (N)
0087	Aars (N)
0031	Aars (N)
0018	Aars (N)
0080	Aars (N)
0067	Aars (N)
0114	Aars (N)
0024	Aars (N)
0073	Aars (N)
0072	Aars (N)
0111	Aars (N)
0083	Aars (N)
0008	Aars (N)
0026	Aars (N)
0057	Aars (N)
0052	Aars (N)
0123	Aars (N)
0101	Aars (N)
0075	Aars (N)
0000	Aars (N)
0109	Aars (N)
0048	Aars (N)
0044	Aars (N)
0059	Aars (N)
0043	Aars (N)

The sites are sorted by name in ascending alphabetical order.

## 5. 4. 2. Viewing, modifying or deleting a site

- In the overview, click the “Site-id” to view its data.

### Site - Details

Site ID:

Site name:

- If required, modify site data. Refer to Table 7.
- Click “Update” or “Back” to save or cancel modifications or click “Delete” to delete the site.

Command	Action	Messages
“Update”	P247 saves the actual site data. You return to the overview.	No message.
“Delete”	P247 deletes the actual site data. You return to the overview.	No message.
“Back”	If you click Browser “Back”, button, P247 returns to the overview.	

## 5. 4. 3. Creating a new site

To create a new site:

- Go to the site overview and click “Create New Site”.

### Site - Details

Site ID:

Site name:

- Fill in the fields. For more information, see Table .

**Table 7 Site Data**

Parameter Name	Data Field or Option	Remarks
Site ID	(only numeric)	When you create a new site you first have to give it a "Site ID". The P247 program uses this ID to identify the site. Once created, the user can not modify this ID. This Site ID must be identical to the Site ID defined in the TMS server.
Site name:	(max. 40 char.)	The site name is optional. It can be modified later.

### Site - Details

Site ID:

Site name:

- Click "Create" to save the new site data or Browser "Back" to cancel it. In any case you return to the overview.




### Attention

*You can view alarms and events of the new site only after the P247 program has accepted its ID and as soon as a polling system collected generated events from the site.*

## 5. 4. 4. Error Messages

When you make an error modifying site data or creating a new, you will get an error as shown below:

### Site - Details

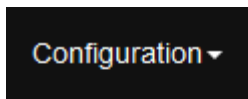
 **The requested action failed!**

<b>Site ID:</b>	8035
<b>Site name:</b>	Micrelec

## 5. 5. Site Groups

To access Site Groups:

- Click the “Site groups” button in menu “Configuration”.



### User Account configuration

Account

Account list

### Network configuration

Site list

Site groups

### 5. 5. 1. Site Groups Overview

The data field gives an overview of all site groups, sorted by Group-id in ascending alphabetical order.

#### Network configuration - Site groups

Group.id	Group name
0	All Sites
52	Technische dienst
97	Leverancier
102	Dagelijkse verwerking
105	Schadegevallen
117	LVT - Total
118	LGS
122	Flow te traag
124	Micros Preventief
134	Netwerk Monitoring
135	Gateway monitoring
136	Fraude Detectie
157	SMS Group

## 5. 5. 2. Viewing, modifying or deleting a site group

- Click a Group-id to view its data.

### Site group - Details

#### Site group properties:

Group ID:   
Group name: All Sites

#### Sites:

Available Sites	member Sites
Up	8037 : Gent (N)
	8059 : Denderleeuw (N)
	8011 : Heverlee (N)
	8018 : Ath (N)
	8000 : Weertse (N)
	8003 : Waars (N)
	8052 : Tricht (N)
	8019 : Aalstberg (N)
	8053 : Nieuwe (N)
	8040 : Oost (N)
	8054 : Herze Bathou (N)
	8026 : Jemeppe-Sur-Sambre (N)
Dn	Up

#### Contacts:

Available contacts	member contacts
Up	Administrator
Helpdesk	
Helpdesk BE Monitoring 1	
Helpdesk BE Monitoring 2	
Dn	Up

- See

- Table 8 for more information on how to modify Site group data.
- Click “Update” to save modifications, “Delete” to delete this Site group or Browser “Back” to cancel modifications.

Command	Action	Messages
“Update”	P247 saves the actual Site group. You return to the overview.	No message.
“Delete”	P247 deletes the actual Site group. You return to the overview.	No message.
“Back”	If you click the Browser “Back” button, you return to the overview.	

### 5. 5. 3. Creating a new site group

To create a new Site group:

- Go to the site group overview and click “Create New Site Group”.

#### Site group - Details

Site group properties:

Group ID:   
Group name:

Sites:

Available Sites		member Sites	
Up	8037 : Gent (N) 8059 : Denderleeuw (N) 8011 : Heverlee (N) 8018 : Igh (N) 8060 : Marbais (N) 8003 : Melle (N) 8062 : Tiel (N) 8019 : Alkenberg (N) 8063 : Wolve (N) 8040 : Dour (N) 8004 : Herve Sartise (N) 8028 : Jemeppe Sur Sartise (N) Dn	< > << >>	Up Dn

Contacts:

Available contacts		member contacts	
Up	Administrator Ivan Raem Bergeman Bouwin Bart Van Hever Bottom Line Scheduling Bruno Pfaen Bruno Van Der Bogaert Christophe Couvreur Coffinckx Erik Coppelides Vermeirijck DCTS Dr Willemschans David Couvreur Dn	< > << >>	Up Dn

Create Delete

- Fill in the fields. For more information, see Table 8.

**Table 8 Site Group Data**

Parameter Name	Data Field or Option	Remarks
Group ID	You cannot access this field	The P247 program uses the "Group ID" to identify the Site Group. <i>This ID is assigned by the P247 program after the Site Group is created.</i> The user cannot modify this ID.
Group name	(max. 40 char.)	You have to give the Site Group a name when you create him. Once the Site Group has an ID you can modify this name.
Sites	<div style="text-align: center;"> <input type="button" value="←"/>  <input type="button" value="→"/>  <input type="button" value="⇐"/>  <input type="button" value="⇒"/> </div>	Add the Sites to the Site Group by clicking the buttons.
Contacts	<div style="text-align: center;"> <input type="button" value="←"/>  <input type="button" value="→"/>  <input type="button" value="⇐"/>  <input type="button" value="⇒"/> </div>	Add the Contacts to the site Group by clicking the buttons.

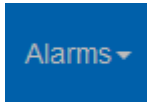
- Click "Create" to save the new Site Group data or Browser "Back" to return to the overview without saving.
- The created Site Group can now be used in the Alarm Definitions to enable an Alarm for a certain Site Group and inform the Contacts added in this Site group for the defined Alarm.



## 6. ALARMS MANAGEMENT

To access Alarm Management:

- Click the “Alarms” button in the main menu.



Note that the “Alarms” menu is active after successful log in of Petrol 247. The menu shows the submenus.

### 6. 1. Alarm setup

#### 6. 1. 1. Viewing alarm rules

To access alarm rule definitions:

- In the main menu, click the “Alarms” button.
- In the “Alarms” menu, click “Rule definitions”.

The browser gives an overview of the alarm rules with description (see Image 5).

*Image 5 Alarms Management – Rule Definitions*

#### Alarms configuration - Rule Definitions

Rule-ID	Type	Description
BN01CF	CONFIRMATION	BNA Connected to SC
BN01DV	DEVICE	BNA Disconnected from SC
BN02CF	CONFIRMATION	BNA In operation
BN02DV	DEVICE	BNA Out of order
BN03CF	CONFIRMATION	BNA Reader operational
BN03DV	DEVICE	BNA Reader jammed
BN04CF	CONFIRMATION	BNA Door closed
BN04DV	DEVICE	BNA Door open
BN05CF	CONFIRMATION	BNA tampering ok
BN05DV	DEVICE	BNA Tampering attempt
BN06CF	CONFIRMATION	BNA Printer Ok
BN06DV	DEVICE	BNA Printer error
BN07CF	CONFIRMATION	BNA Bank note reader ok
BN07DV	DEVICE	BNA Bank note reader error
BN08CF	CONFIRMATION	BNA Stack Ok
BN08DV	DEVICE	BNA Stack fail
BN09CF	CONFIRMATION	BNA Stack closed
BN09DV	DEVICE	BNA Stack open
BN10CF	CONFIRMATION	BNA Stack emptied
BN10DV	DEVICE	BNA Stack full

The rules are sorted in alphabetical order of name. To view other overview pages, if any, click “2”, “3” ....

## 6. 1. 2. Viewing Alarm Rule Details

- In the overview, click the “Rule-ID” to see its details.

Example of Alarm rule details: e.g., “Banksys PTO disconnected”

### Alarm management - Rule definition

Rule ID:

Rule Type :

Description:

one of these conditions
  all of these conditions

Rule Entries:

Event	BS: Banksys PTO: Disconnected from SC	is true	00:00:00
-------	---------------------------------------	---------	----------

More Less

Confirmation Possibilities :

Available Confirmation Rules:		Possible Confirmation Rules:	
Up	BN01CF : BNA Connected to SC	<input type="text" value="BS01CF : Banksys PTO connected"/>	Up
	BN02CF : BNA In operation		
	BN03CF : BNA Reader operational		
	BN04CF : BNA Door closed		
	BN05CF : BNA tampering ok		
	BN06CF : BNA Printer Ok		
	BN07CF : BNA Bank note reader ok		
	BN08CF : BNA Stack Ok		
	BN09CF : BNA Stack closed		
	BN10CF : BNA Stack emptied		
Dn	IO01CF : Oil separator water full cleared		

Save Delete

Example of Alarm rule details: e.g., “Recurring nozzle not rehooked”

**Alarm management - Rule definition**

Rule ID:   
 Rule Type :   
 Description:

One of these conditions       All of these conditions

Rule Entries:

Recurring Event	PU: Nozzle not rehooked	4	23:59:59
-----------------	-------------------------	---	----------

Confirmation Possibilities :

Available Confirmation Rules:		Possible Confirmation Rules:	
Up	BN01CF : BNA Connected to SC		Up
	BN02CF : BNA In operation		
	BN03CF : BNA Reader operational		
	BN04CF : BNA Door closed		
	BN05CF : BNA tampering ok		
	BN06CF : BNA Printer Ok		
	BN07CF : BNA Bank note reader ok		
	BN08CF : BNA Stack Ok		
	BN09CF : BNA Stack closed		
	BN10CF : BNA Stack emptied		
Dn	BS01CF : Banksys PTO connected		Dn

A complete set of events that can be used to define an alarm rule can be found in the “SC-Events” document. Rules are always defined by Micrelec. A rule can be based on an event, a recurring event, an event property or a rule.

## 6. 2. Alarm definitions

To access alarm definitions:

- In the main menu, click the “Alarms” button.
- In the “Alarms” menu, click “Alarm definitions”.

### 6. 2. 1. Viewing Alarm Definitions

The browser gives an overview of the alarm definitions with ID, description, Rule, severity level and enable/disable status (see Image 6). The alarm definitions are sorted in alphabetical order of ID.

**Image 6 Alarms Management – Alarm definitions**

#### Definitions - Alarm definitions

New Alarm Definition				
Definition	Description	Rule	Severity	Enabled
BS0002	Banksys OPT communicatieprobleem	BS01DV	⚠ Medium	✓
GE0001	No heartbeat	GE0001	🚫 High	
GE0002	No HeartBeat - Check TMS	GE0002	🚫 High	
IO0001	Olieafscheider max. waterniveau bereikt	IO01DV	🚫 High	✓
IO0002	Olieafscheider max productniveau bereikt	IO02DV	🚫 High	✓
IO0003	Alarm lekdetectie tank	IO03DV	🚫 High	✓
OP0001	OPT2010 communicatieprobleem	OP01DV	⚠ Medium	
OP0002	OPT2010 buiten dienst	OP02DV	🚫 High	✓
OP0003	OPT2010 probleem papier ticketprinter	OP03DV	⚠ Medium	
OP0004	OPT2010 foutmelding pinpad	OP04DV	⚠ Medium	✓
OP0005	OPT2010 foutmelding kaartlezer	OP05DV	⚠ Medium	✓
OP0006	OPT2010 staat open	OP06DV	⚠ Medium	
OP0007	OPT2010 probleem ticketprinter	OP07DV	⚠ Medium	✓
OP0008	3x verkeerde code	OP0001	⚠ Medium	
OP0009	Kaartlezer herhaaldelijke fouten	OP08DV	⚠ Medium	✓
OP0010	Period End Not in Balance	OP09DV	⚠ Medium	✓
PS0001	Prijzenbord communicatieprobleem	PS01DV	⚠ Medium	✓
PU0001	Pomp algemeen probleem	PU0001	⚠ Medium	✓
PU0004	Pomp communicatieprobleem	PU01DV	⚠ Medium	
PU0005	Pomp buiten dienst	PU02DV	🚫 High	✓
PU0006	Transactie duurt > 13 min	PU03DV	⚠ Medium	✓
PU0007	Terugkerend probleem connectie pomp	PU04DV	⚠ Medium	
PU0008	Herhaaldelijk pomp buiten dienst	PU05DV	⚠ Medium	
PU0009	Herhaaldelijk pistool niet ingehaakt	PU06DV	⚠ Medium	
PU0010	Herhaaldelijk nultransacties	PU07DV	⚠ Medium	
PU0011	Pistool niet ingehaakt	PU08DV	⚠ Medium	✓
PU0012	Vapour Recovery communicatieprobleem	PU10DV	⚠ Medium	✓
PU0013	Vapour Recovery Pump uitgeschakeld	PU11DV	🚫 High	✓
PU0014	Vapour Recovery Timer gestart	PU12DV	🚫 High	✓
PU13DV	Pump - Flow too slow	PU13DV	🚫 High	✓

<< < Page 1 of 2 pages > >>

To view other overview pages, if any, click “2”, “3” ....

## 6. 2. 2. Viewing and Editing Alarm Details

- In the overview click the alarm definition name you want to see details of.  
Example of Alarm definition: Pump out of order

### Alarm Definition - Details

#### Alarm definition properties:

Enabled

Definition: PU0005

Description: Pomp buiten dienst

Severity:
 

- High
- Medium
- Low

#### Rule assignment:

Rule: PU02DV: Pump out of order

Combine with a confirmation rule.

Rule: PU02CF: Pump in operation

Timeout: 00:30:00 (hh : mm : ss)

Close this alarm automatically.

Timeout: 00:00:00 (hh : mm : ss)

#### Site assignment:

Available SiteGroups		Member SiteGroups	
Up	All Sites Leverancier VDS Schadegevallen LVT - Total Vaporix Flow te traag Micros Preventief Netwerk Monitoring Gateway monitoring Fraude Detectie SMS Group	Technische dienst DATS 24 Dagelijkse verwerking DATS 24	Up
Dn			Dn

Commit Delete

Command	Action	Messages
“Commit”	P247 saves the actual Alarm definition. You return to the overview.	No message.
“Delete”	P247 deletes the actual Alarm definition. You return to the overview.	No message.
“Back”	If you click the Browser “Back” button, you return to the overview.	

## 6. 2. 3. Creating a new alarm definition

To create a new Alarm Definition:

- Go to the Alarm definitions overview and click “New Alarm Definition”

### Alarm Definition - Details

Alarm definition properties:

Enabled

Definition:

Description:

Severity:

- High  
 Medium  
 Low

Rule assignment:

Rule:

Close this alarm automatically.




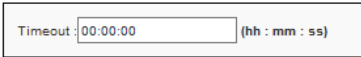

Timeout:  (hh : mm : ss)

Site assignment:

Available SiteGroups		Member SiteGroups	
Up	All Sites Technische dienst DATS 24 Leverancier VDS Dagelijkse verwerking DATS 24 Schadegevallen LVT - Total Vaporix Flow te traag Micros Preventief Netwerk Monitoring		Up
		< > << >>	
Dn	Gateway monitoring		Dn

- Fill in the fields. For more information, see Table 9.

**Table 9 Alarm Definition Details**

Parameter Name	Data Field or Option	Remarks
Enabled	checkbox	Check this box if you want the alarm to be enabled
Definition:		Definition of the alarm, mostly first to characters of the device followed by a four digit number
Description:	Max. 40 chars	The description of the alarm
Severity:		Define how severe the alarm is. This can be used to filter alarms on severity in the Alarm Tracking.
Rule assignment:		The selection of the rule where the alarm is based on can be done by the drop down box. If this rule has no possibility of a confirmation, the confirmation rule part is not shown. In this case a rule will generate immediately an alarm.
	Rule:  <input type="checkbox"/> Close this alarm automatically. Timeout: 	By checking the “Combine with a confirmation rule” box, the alarm can be closed or cancelled automatically. This is defined by the Timeout box. When an event matches a rule an “On-hold” alarm is created. If within the defined timeout P247 receives an event that matches the confirmation rule, the alarm is “Cancelled”. If no event is received that matches the confirmation rule, the alarm will be created as “New”
Site assignment:		By adding one or more Available SiteGroups to the Member SiteGroups, the member Sites will be checked for this alarm and the member Contacts will be informed of this alarm. Each Member SiteGroup may have common member Sites or member Contacts.

- Click “Commit” to save the new Alarm Definition or Browser “Back” to return to the overview without saving.

## 6. 3. Tracking alarms

### 6. 3. 1. Tracking outstanding alarms

To view outstanding alarms:

- In the main menu, click the “Alarms” button.
- In the “Alarms” menu, click “Tracking – Alarms”.

The browser gives the latest alarm tracking on all sites (see Image 7).

**Image 7 Alarm Tracking**

#### Tracking - Alarms

Alarm	Severity	Description	Date	Time	Site	Status
670525	High	Pomp buiten dienst	11/07/2017	12:01:43	Zaventem (V)	On-hold
670524	High	Pomp buiten dienst	11/07/2017	12:01:43	Zaventem (V)	On-hold
670523	High	Pomp buiten dienst	11/07/2017	12:01:38	Zaventem (V)	Auto-Closed
670522	High	Pomp buiten dienst	11/07/2017	12:01:37	Zaventem (V)	Auto-Closed
670521	High	OPT2010 buiten dienst	11/07/2017	11:56:26	Wetteren (V)	Cancelled
670520	Medium	OPT2010 probleem ticketprinter	11/07/2017	11:56:26	Wetteren (V)	Cancelled
670519	Medium	OPT2010 foutmelding pinpad	11/07/2017	11:56:26	Wetteren (V)	Cancelled
670518	High	Alarm lekdetectie tank	11/07/2017	11:54:11	Beyne-Heusay (W)	Auto-Closed
670517	High	Alarm lekdetectie tank	11/07/2017	11:54:11	Beyne-Heusay (W)	Auto-Closed
670516	High	Alarm lekdetectie tank	11/07/2017	11:54:11	Beyne-Heusay (W)	Auto-Closed
670515	High	Alarm lekdetectie tank	11/07/2017	11:54:10	Beyne-Heusay (W)	Auto-Closed
670514	Medium	OPT2010 probleem ticketprinter	11/07/2017	11:51:33	Brukom	Cancelled
670513	High	Alarm lekdetectie tank	11/07/2017	11:51:31	Brukom	Cancelled
670512	High	Alarm lekdetectie tank	11/07/2017	11:51:31	Brukom	Cancelled

Table 10 explains the details shown per alarm.

**Table 10 Details of Outstanding Alarm Tracking**

Item	Description
Alarm ID	Identifier used by the system to identify the P247 generated alarm.
Severity	Alarm severity
Alarm Description	Describes the alarm (description is taken from the defined alarm)
Created Date	Date the alarm is created [format: dd/mm/yyyy]
Created Time	Time the alarm is created [format: hh:mm:ss]
Site name	The name of the site in which the alarm condition took place
Status	Alarm status

By default, all alarms are shown, but you can use the “Change filter” button to filter by various options. Table 11 gives the menu options.

**Define filter**

Alarm from:  to:

Severity: --- No filter ---

Description: --- No filter ---

Date from:  to:

Time from:  to:

Site: --- No filter ---

Status: --- No filter ---

Apply Cancel Reset



**Table 5 Filtering Alarms**

Filter	Options	Description
<b>Alarm from: to:</b>		Filter alarms on alarm id
<b>Severity:</b>	--- No filter --- --- No filter --- High Medium Low	Filter alarms on severity. This is defined in the Alarm definitions.
<b>Description</b>	--- No filter --- --- No filter --- 3x verkeerde code Alarm lekdetectie tank Banksys OPT communicatieprobleem OPT20 - ... OPT20 - ... OPT20 - ... OPT20 - ... OPT20 - ... OPT20 - ... Herhaaldelijk nultransacties Herhaaldelijk pistool niet ingehaakt Herhaaldelijk pomp buiten dienst Kaartlezer herhaaldelijke fouten No heartbeat No HeartBeat - Check TMS Oleafscheider max productniveau bereikt Oleafscheider max. waterniveau bereikt OPT2010 buiten dienst OPT2010 communicatieprobleem OPT2010 foutmelding kaartlezer	Filter the alarms on descriptions.
<b>Date from: to:</b>	[format: dd/mm/yyyy]	Filter the alarms on date
<b>Time from: to:</b>	[format: hh:mm:ss]	Filter the alarms on time
<b>Site:</b>	--- No filter --- --- No filter --- Microlec 1 Microlec 2 Microlec 3 Microlec 4 Test 1 Test 2 Test 3 Test 4	Filter the alarms on Site
<b>Status:</b>	--- No filter --- --- No filter --- Open Cancelled Closed Auto-Closed On-Hold	Filter the alarms on Status

**Image 8 Example of Filtering Alarm Tracking**

**Tracking - Alarms**

Showing alarms with severity **High** and description 'Pomp buiten dienst' that are generated between 1/01/2017 and 11/07/2017 and between 9:00:00 and 12:30:00. [ Alarm Export ]

[Change filter](#)

Alarm	Severity	Description	Date	Time	Site	Status
670525	High	Pomp buiten dienst	11/07/2017	12:01:43	Test	New
670524	High	Pomp buiten dienst	11/07/2017	12:01:43	Test	New
670523	High	Pomp buiten dienst	11/07/2017	12:01:38	Test	Auto-Closed
670522	High	Pomp buiten dienst	11/07/2017	12:01:37	Test	Auto-Closed
670496	High	Pomp buiten dienst	11/07/2017	11:37:18	Test	Cancelled

The applied filter is described on top of the page.  
 If the overview takes more than one browser page:

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Page 
of 78 pages
>
>>

- Click “1”, “2”, “3”, “4” ... to display the corresponding page.

## 6. 3. 2. Viewing alarm details

To view details of an alarm:

- Click the corresponding “Alarm ID” in the Alarm Tracking overview.

### Alarm - Details

Alarm-ID: 670525  
Date/time: 11/07/2017 12:01:43

#### Overview of the events that triggered the alarm:

Event-ID: 167332	Description: Pump out of order Equipment: Pump Date/time: 11/07/2017 12:01:25	Device: 1 / Subdevice: 0
Property	Value	Description
RECSEQ	168501	Event record sequence number

#### Alarm status history:

Status	User	Date/Time	Action description
New	P247	11/07/2017 12:18:42	Notified by mail : Dagelijkse verwerking (dv@dats24.be)
New	P247	11/07/2017 12:18:42	Notified by mail : Dimitra Siopi (dimitra.siopi@dats24.be)
New	P247	11/07/2017 12:18:42	Notified by mail : Coffernils Erik (erik.coffernils@dats24.be)
New	P247	11/07/2017 12:18:42	Notified by mail : Diederik Debast (diederik.debast@dats24.be)
New	P247	11/07/2017 12:18:42	On-hold time out expired.
On-hold	P247	11/07/2017 12:01:43	Created

#### Update the alarm status:

**Table 12 Alarm and Event Details**

Alarm Details	Description
<b>Alarm-ID</b>	Alarm ID
<b>Date/time</b>	Date/Time of the initial alarm
<b>Overview of the events that triggered the alarm</b>	<p>Gives an overview of the event(s) that triggered the rule to generate an alarm. When the alarm is not Cancelled, Closed or Auto-Closed a new event of this kind will NOT trigger a new alarm but will be cumulated with the rest of the events.</p> <p>When an event is generated that triggers the rule of an alarm confirmation, the alarm will be cancelled if the corresponding Timeout of the alarm is not finished and no notification will be done. When an event is generated after this Timeout the alarm will be Auto-Closed and the corresponding Contacts will be informed. By clicking the Event-ID it is possible to view the event details directly.</p>
<b>Alarm status history</b>	<p>Gives an overview of the alarm history. An alarm is always created On-hold. Depending on the existence of a Timeout, the status of an alarm goes to New when the Timeout is expired, if not the alarm will be cancelled and there will be no notification. If the alarm goes to New there will be a notification if there are any Contacts active for this alarm AND if those contacts have a valid email address or SMS number filled in AND if “receive email” or “receive SMS” is checked within the User Account.</p>

Alarm Details	Description
<b>Update alarm status</b>	<p>When an alarm is not closed automatically, the user has to use the “Update alarm status” to close the alarm if the problem is resolved on site. If the alarm is not closed manually, no new alarms of this kind will be generated. The events causing this alarm to trigger will just be cumulated with the existing events.</p> <p>With this feature it is also possible to re-open an alarm. The reason why the alarm is Closed or re-opened can be filled in in the Description field. Once filled in and saved by pressing the “Commit” button, the description will be visible in the Alarm status history.</p>

☐ Update the alarm status:

Status:

Description:

## 6. 4. Tracking events

### 6. 4. 1. Viewing event tracking

To view all events received from all sites:

- In the main menu, click the “Alarms” button.
- In the “Alarms” menu, click “Tracking – Events”.

The browser gives the events received from all sites (see Image 9).

**Image 9 Alarms Management - Tracking Events**

Tracking - Events

No filter applied.  
[Change filter](#)

ID	Description	Site	Equipment	Device	Subdevice	Generated	Created
164660 / 8059	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:28:51	11/07/2017 12:35:17
193391 / 8022	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:25:43	11/07/2017 12:29:49
173770 / 8042	No paper		2010 GPT	2	0	11/07/2017 12:24:20	11/07/2017 12:31:25
166505 / 8038	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:23:35	11/07/2017 12:33:50
167748 / 8082	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:23:10	11/07/2017 12:32:59
172146 / 8003	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:22:39	11/07/2017 12:34:56
173769 / 8042	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:22:15	11/07/2017 12:31:24
8275 / 8124	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:21:38	11/07/2017 12:25:29
164559 / 8059	QP height difference		Tank	1	0	11/07/2017 12:21:36	11/07/2017 12:35:16
161920 / 8083	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:21:22	11/07/2017 12:31:01
176761 / 8015	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:21:08	11/07/2017 12:34:50
162452 / 8000	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:20:38	11/07/2017 12:26:34
231951 / 8030	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:19:45	11/07/2017 12:29:26
163361 / 8088	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:19:42	11/07/2017 12:29:56
177008 / 8023	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:19:42	11/07/2017 12:33:40
199879 / 8045	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:19:31	11/07/2017 12:28:42
165835 / 8089	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:19:00	11/07/2017 12:27:15
168596 / 8041	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:18:54	11/07/2017 12:31:49
170013 / 8012	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:18:00	11/07/2017 12:32:15
167300 / 8086	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:17:58	11/07/2017 12:35:29
157613 / 8080	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:17:56	11/07/2017 12:32:32
129748 / 8100	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:17:44	11/07/2017 12:26:59
175353 / 8004	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:17:24	11/07/2017 12:32:09
188880 / 8061	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:17:17	11/07/2017 12:28:10
172514 / 8016	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:17:17	11/07/2017 12:27:23
168569 / 8005	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:16:47	11/07/2017 12:24:33
81183 / 8108	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:16:40	11/07/2017 12:28:13
155870 / 8067	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:16:38	11/07/2017 12:33:07
93832 / 8109	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:16:38	11/07/2017 12:25:24
111382 / 8103	Testalarm (periodical)		Site Controller	0	0	11/07/2017 12:16:33	11/07/2017 12:21:15

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Table 13 explains the details shown per event.

**Table 13 Details of Events Tracking**

Item	Description
Event ID	Identifier used by the system to identify the P247 event.
Description	Description of the event
Site	Description of the Site where the event took place (taken from the site description)
Equipment	Equipment where the event took place, full description of the equipments and events can be found in the SC-Events document.
Device	The device id where the event took place, example 2 for Equipment Pump means "Pump 2". Be aware that not all equipments have a device id
Subdevice	The subdevice id where the event took place, example 2 for Equipment Pump means "Nozzle 2". Be aware that not all equipments have a subdevice id.
Generated	Date the event is generated on site [format: dd/mm/yyyy hh:mm:ss]
Created	Date the event is created in P247 [format: dd/mm/yyyy hh:mm:ss]

By default, all events are shown, but you can use the "change filter" button to filter by various options. Following Table 14 gives the menu options.

**Define filter**

Event from:  to:

Description: --- No filter ---

Site:

Equipment:

Device:

Subdevice:

Date from:  to:

Time from:  to:

Table 14 Filtering Events

Filter	Options	Description
Event from: to:		Filter events on event id
Description:	<ul style="list-style-type: none"> <li>--- No filter ---</li> <li>--- No filter ---</li> <li>2010 OPT - 10xCard validation fail</li> <li>2010 OPT - 10xIFSF ola authorisation request fail</li> <li>2010 OPT - 10xPin verification fail</li> <li>2010 OPT - 3 Wrong PIN entries</li> <li>2010 OPT - 3 x wrong pin with pan</li> <li>2010 OPT - Bank note reader error</li> <li>2010 OPT - Bank note reader ok</li> <li>2010 OPT - Blocked BancCard Transaction</li> <li>2010 OPT - Card validation ok</li> <li>2010 OPT - Cardreader error</li> <li>2010 OPT - Cardreader OK</li> <li>2010 OPT - Connected to SC</li> <li>2010 OPT - Disconnected from SC</li> <li>2010 OPT - Door close detected</li> <li>2010 OPT - Door closed</li> <li>2010 OPT - Door open</li> <li>2010 OPT - Door open detected</li> <li>2010 OPT - Exception File Cleared</li> <li>2010 OPT - Exception File Detected</li> </ul>	Filter the events on descriptions.
Site:	<ul style="list-style-type: none"> <li>--- No filter ---</li> <li>--- No filter ---</li> <li>Micrelec 1</li> <li>Micrelec 2</li> <li>Micrelec 3</li> <li>Micrelec 4</li> <li>Test 1</li> <li>Test 2</li> <li>Test 3</li> <li>Test 4</li> </ul>	Filter the events on a particular site.
Equipment:	<ul style="list-style-type: none"> <li>--- No filter ---</li> <li>--- No filter ---</li> <li>2010 OPT</li> <li>P247</li> <li>BNA</li> <li>Banksys</li> <li>Coin dispenser</li> <li>EPS</li> <li>IO Device</li> <li>POS</li> <li>Price sign</li> <li>Pump</li> <li>Site Controller</li> <li>Tank</li> <li>TMS</li> </ul>	Filter the events on a particular equipment

<b>Device:</b>	--- No filter --- ^ 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Filter the events on a particular device
<b>Subdevice:</b>	--- No filter --- v --- No filter --- 0 1 2 3 4 5 6 7 8	Filter the events on a particular subdevice
<b>Date from:</b> <b>to:</b>	[format: dd/mm/yyyy]	Filter the events on date
<b>Time from:</b> <b>to:</b>	[format: hh:mm:ss]	Filter the events on time

**Image 10 Example of Filtering Events Tracking**

**Tracking - Events**

Showing events with description 2010 OPT - Blocked BancCard Transaction for equipment 2010 OPT that are generated between 1/01/2017 and 11/07/2017 and between 9:00:00 and 15:43:00.

[Change filter](#)

ID	Description	Site	Equipment	Device	Subdevice	Generated	Created
170068 / 8026	Blocked BancCard Transaction	Test	2010 OPT	2	0	11/07/2017 12:56:26	11/07/2017 13:28:20
162227 / 8027	Blocked BancCard Transaction	Test	2010 OPT	2	0	11/07/2017 12:06:30	11/07/2017 12:44:21
111378 / 8103	Blocked BancCard Transaction	Test	2010 OPT	1	0	11/07/2017 12:04:29	11/07/2017 12:21:13
169485 / 8062	Blocked BancCard Transaction	Test	2010 OPT	1	0	10/07/2017 11:31:40	10/07/2017 15:40:03
169481 / 8062	Blocked BancCard Transaction	Test	2010 OPT	2	0	10/07/2017 11:25:16	10/07/2017 15:40:01
162105 / 8027	Blocked BancCard Transaction	Test	2010 OPT	1	0	10/07/2017 10:22:01	10/07/2017 11:09:21

The applied filter is described on top of the page.  
If the overview takes more than one browser page:

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- Click “1”, “2”, “3”, “4” ... to display the corresponding page.



## 6. 4. 2. Viewing event details

To view details of an event:

- Click the corresponding “Event ID” in the Event overview.

### Event - Details

**Event-ID:** 189485      **Generated:** 10/07/2017 11:31:40  
**Description:**Blocked Bancard Transaction      **Created:** 10/07/2017 15:40:03  
**Site ID:** 8062      **Equipment:** 2010 OPT  
**Site Name:** Tielt (V)      **Device/Subdevice:**1/0

Property	Value	Description
RECSEQ	42313	Event record sequence number

Refer to Table 15 for description of details.

**Table 65 Details of Completed Alarm Events**

Item	Description	Example	
<b>Event-ID:</b>	Event Identifier P247 generated per site	“18686”	
<b>Description:</b>	Describes the event, refer to Appendix A.	“Low level reached”	
<b>Site ID:</b>	IDentifier of Site in which the event is occurred.	“3367”	
<b>Site Name:</b>	Site name	“109826 Test Lessines”	
<b>Generated:</b>	Date and time the event took place [format: dd/mm/yyyy - hh:mm:ss]	“1/09/2009 7:09:27”	
<b>Created:</b>	Date and time P247 received the event [format: dd/mm/yyyy - hh:mm:ss]	“1/09/2009 7:18:17”	
<b>Equipment:</b>	Equipment on which the event took place.	“PU” (Pump)	
<b>Device:</b>	Devices of equipment on which the event took place.	Pump number “3”.	
<b>Subdevice:</b>	Sub device of device on which the event took place.	Nozzle number “1” (of pump “3”).	
<b>Event Properties:</b>	<b>Property description:</b>	Refer to Appendix A.	“Event record sequence number”
	<b>Property ID:</b>	Property IDentifier	“RECSEQ” / “FILT”
	<b>Property value:</b>	Value	“26580”

### 6. 4. 3. Viewing event definitions

To view event definitions:

- In the main menu, click the “Alarms” button.
- In the “Alarms” menu, click “Definitions – Events definitions”.

The browser gives an overview of all events defined per equipment type and properties, if available. They are listed in alphabetical order of description and completed with the MICRELEC Event Code.

#### Definitions - Event definitions

Event ID	Equipment type	Description
30101/30201	Site Controller	SC has become operational
30101/30202	Site Controller	Testalarm (periodical)
30101/30203	Site Controller	SC power down received from UPS
30101/30204	Site Controller	SC harddisk damaged
30101/30205	Site Controller	SC harddisk OK again
30101/30206	Site Controller	Attend mode on
30101/30207	Site Controller	Attend mode off
30101/30208	Site Controller	Test mode on
30101/30209	Site Controller	Test mode off
30101/30210	Site Controller	Last received price change effective
30101/30211	Site Controller	Duty call from host
30102/30212	Pump	Disconnected from SC
30102/30213	Pump	Connected to SC
30102/30214	Pump	Pump out of order
30102/30215	Pump	Pump in operation
30102/30401	Pump	Pulse alarm
30102/30402	Pump	Display alarm
30102/30403	Pump	Nozzle not rehooked
30102/30404	Pump	Prepay overshoot
30102/30405	Pump	Null transaction
30102/30406	Pump	Pumpindex corrupted
30102/30407	Pump	Index error
30103/30212	Banksys	Banksys PTO: Disconnected from SC
30103/30213	Banksys	Banksys PTO: Connected to SC
30103/30216	Banksys	Banksys PTO: Z-total request failed
30104/30212	2010 OPT	Disconnected from SC
30104/30213	2010 OPT	Connected to SC
30104/30214	2010 OPT	Out of order
30104/30215	2010 OPT	In operation
30104/30217	2010 OPT	No paper

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If the overview takes more than one browser page:

- Click “1”, “2”, “3”, “4” ... to display the corresponding page.

### 6. 4. 4. Viewing event definition details

To view details of an event definition:

- Click the corresponding Micrelec event-id in the overview.

#### Event definition - Details

Event ID: 30101/30201  
 Equipment type: Site Controller  
 Description: SC has become operational

Property	Description	Value type
FILT	Detections during delay filtration	CD
RECSEQ	Event record sequence number	CD

## 6. 5. Tracking transactions

### 6. 5. 1. Viewing transactions tracking

To view all transactions received from all sites:

- In the main menu, click the “Alarms” button.
- In the “Alarms” menu, click “Tracking – Transactions”.

The browser gives the transactions received from all sites (see 11).

**Image 11 Alarms Management - Tracking Transactions**

#### Tracking - Transactions

Showing transactions for site Gilly (W). [\[ Transactions Export \]](#) [\[ Last Transactions \]](#)

[Change filter](#)

Id	Site	Pump	Nozzle	Transaction Start	Transaction End	Product	MOP	Terminal Type	Terminal Sequence Nr	Transaction Amount	Transaction Volume
544842		6	2	11/07/2017 15:25:24	11/07/2017 15:27:00	Eurosuper 95	31	OPT	3	50,010	40,04
544841		2	3	11/07/2017 15:24:04	11/07/2017 15:26:01	Diesel	31	OPT	0	61,980	53,94
544838		1	3	11/07/2017 15:23:53	11/07/2017 15:24:43	Diesel	31	OPT	1	10,000	8,70
544839		8	2	11/07/2017 15:23:37	11/07/2017 15:24:44	Eurosuper 95	47	OPT	2	30,010	24,03
544840		3	3	11/07/2017 15:23:14	11/07/2017 15:24:55	Diesel	47	OPT	1	44,280	38,52
544837		7	2	11/07/2017 15:21:09	11/07/2017 15:22:11	Eurosuper 95	47	OPT	2	30,160	24,15
544836		1	3	11/07/2017 15:18:59	11/07/2017 15:19:39	Diesel	31	OPT	0	10,000	8,70
544835		3	3	11/07/2017 15:14:16	11/07/2017 15:16:17	Diesel	31	OPT	1	30,000	26,11
544834		4	3	11/07/2017 15:11:59	11/07/2017 15:12:44	Diesel	31	OPT	1	20,030	17,43
544833		6	2	11/07/2017 15:10:33	11/07/2017 15:12:23	Eurosuper 95	47	OPT	3	45,000	36,03
544832		5	3	11/07/2017 15:09:57	11/07/2017 15:12:20	Diesel	47	OPT	3	47,660	41,48
544831		2	3	11/07/2017 15:09:33	11/07/2017 15:10:12	Diesel	47	OPT	0	11,490	10,00
544829		8	3	11/07/2017 15:04:01	11/07/2017 15:05:07	Diesel	47	OPT	2	30,000	26,11
544828		5	3	11/07/2017 15:02:48	11/07/2017 15:03:37	Diesel	31	OPT	3	20,020	17,42
544827		4	1	11/07/2017 15:02:26	11/07/2017 15:03:31	Superplus 98	31	OPT	1	25,000	17,83
544826		3	3	11/07/2017 15:02:20	11/07/2017 15:03:24	Diesel	31	OPT	1	30,000	26,11
544825		1	3	11/07/2017 15:01:25	11/07/2017 15:02:35	Diesel	47	OPT	0	30,000	26,11
544823		4	2	11/07/2017 15:01:08	11/07/2017 15:01:33	Eurosuper 95	31	OPT	1	6,210	4,97
544830		6	3	11/07/2017 14:59:56	11/07/2017 15:06:53	Diesel	31	OPT	3	28,200	24,54
544822		8	2	11/07/2017 14:59:51	11/07/2017 15:00:50	Eurosuper 95	47	OPT	2	20,200	16,17
544824		2	3	11/07/2017 14:59:43	11/07/2017 15:01:46	Diesel	47	OPT	0	53,000	46,13
544821		2	3	11/07/2017 14:54:44	11/07/2017 14:55:55	Diesel	31	OPT	0	32,740	28,49
544820		8	3	11/07/2017 14:54:28	11/07/2017 14:55:44	Diesel	31	OPT	2	35,180	30,82
544819		8	1	11/07/2017 14:50:10	11/07/2017 14:51:09	Superplus 98	47	OPT	2	13,000	9,27
544818		6	3	11/07/2017 14:49:43	11/07/2017 14:51:02	Diesel	31	OPT	3	40,020	34,83
544817		2	2	11/07/2017 14:49:37	11/07/2017 14:50:07	Eurosuper 95	31	OPT	1	10,140	8,12
544814		4	3	11/07/2017 14:47:26	11/07/2017 14:48:03	Diesel	31	OPT	1	10,000	8,70
544815		8	3	11/07/2017 14:46:58	11/07/2017 14:48:51	Diesel	47	OPT	2	49,500	43,08
544816		1	3	11/07/2017 14:46:19	11/07/2017 14:49:01	Diesel	47	OPT	0	80,630	70,17
544813		6	3	11/07/2017 14:46:02	11/07/2017 14:46:10	Diesel	47	OPT	3	35,000	30,46

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Table 66 explains the details shown per transaction.

**Table 16 Details of Events Tracking**

Item	Description
<b>ID</b>	Identifier used by the system to identify the P247 transaction.
<b>Site</b>	Description of the Site where the transaction took place (taken from the site description)
<b>Pump</b>	Pump number
<b>Nozzle</b>	Nozzle Number
<b>Transaction Start</b>	Date and Time the transaction started [format: dd/mm/yyyy hh:mm:ss]
<b>Transaction End</b>	Date and Time the transaction ended [format: dd/mm/yyyy hh:mm:ss]
<b>Product</b>	Description of the Product that is taken
<b>MOP</b>	Mop number of the transaction
<b>Terminal Sequence Nr</b>	Terminal sequence number where the transaction took place

By default, all transactions are shown, but you can use the “change filter” button to filter by various options. Following Table 17 gives the menu options.

**Advanced search**

Transaction from:  to:

Site:

Pump:

Nozzle:

Date from:  to:

Time from:  to:

Value from:  to:

Volume from:  to:

Product:

MOP:

Terminal type:

Terminal sequence nr:

**Table 17 Filtering Transactions**

Filter	Options	Description
<b>Transaction from: to:</b>		Filter transactions on transaction id
<b>Site:</b>	<div style="border: 1px solid gray; padding: 5px;"> <div style="background-color: #e0e0e0; padding: 2px;">--- No filter ---</div> <div style="background-color: #0070c0; color: white; padding: 2px;">--- No filter ---</div> <div style="padding: 2px;">Micarelec 1</div> <div style="padding: 2px;">Micarelec 2</div> <div style="padding: 2px;">Micarelec 3</div> <div style="padding: 2px;">Micarelec 4</div> <div style="padding: 2px;">Test 1</div> <div style="padding: 2px;">Test 2</div> <div style="padding: 2px;">Test 3</div> <div style="padding: 2px;">Test 4</div> </div>	Filter the transactions on a particular site.
<b>Pump:</b>	<div style="border: 1px solid gray; padding: 5px;"> <div style="background-color: #0070c0; color: white; padding: 2px;">--- No filter ---</div> <div style="padding: 2px;">0</div> <div style="padding: 2px;">1</div> <div style="padding: 2px;">2</div> <div style="padding: 2px;">3</div> <div style="padding: 2px;">4</div> <div style="padding: 2px;">5</div> <div style="padding: 2px;">6</div> <div style="padding: 2px;">7</div> <div style="padding: 2px;">8</div> <div style="padding: 2px;">9</div> <div style="padding: 2px;">10</div> </div>	Filter the transactions for a particular pump
<b>Nozzle:</b>	<div style="border: 1px solid gray; padding: 5px;"> <div style="background-color: #0070c0; color: white; padding: 2px;">--- No filter ---</div> <div style="padding: 2px;">0</div> <div style="padding: 2px;">1</div> <div style="padding: 2px;">2</div> <div style="padding: 2px;">3</div> <div style="padding: 2px;">4</div> <div style="padding: 2px;">5</div> <div style="padding: 2px;">6</div> <div style="padding: 2px;">7</div> <div style="padding: 2px;">8</div> <div style="padding: 2px;">9</div> <div style="padding: 2px;">10</div> </div>	Filter the transactions for a particular nozzle
<b>Date from: to:</b>	[format: dd/mm/yyyy]	Filter the transactions on date
<b>Time from: to:</b>	[format: hh:mm:ss]	Filter the transactions on time

<b>Product:</b>	<input type="text" value="--- No filter ---"/> <ul style="list-style-type: none"> <li>Super ASP</li> <li>Normale</li> <li>Diesel</li> <li>Lpg</li> <li>Eurosuper 95</li> <li>Gasolie</li> <li>Euro Normal</li> <li>Superplus 98</li> <li>Diesel EXTRA</li> <li>Diesel Truck</li> <li>AdBlue</li> <li>Oil Diesel Mot</li> <li>Petroleum</li> <li>Mixed</li> </ul> <input type="text" value="--- No filter ---"/>	Filter the transactions on product
<b>Mop:</b>	<input type="text"/>	Filter the transactions on mop number
<b>Terminal type:</b>	<input type="text" value="--- No filter ---"/> <ul style="list-style-type: none"> <li>--- No filter ---</li> <li>OPT</li> <li>ATTENTED</li> <li>BNA</li> <li>CONSOLE_POS</li> <li>TEST</li> </ul>	Filter the transactions on Terminal type
<b>Terminal sequence nr:</b>	<input type="text"/>	Filter the transactions on Terminal sequence number

**Image 12 Example of Filtering Transactions Tracking**

**Tracking - Transactions**

Showing transactions for pump 1 that are generated between 1/01/2017 and 11/07/2017 and between 9:00:00 and 12:30:00 where the sold product was Diesel.

[\[ Transactions \]](#)     [\[ Last \]](#)  
[Export](#)     [Transactions](#)

[Change filter](#)

Id	Site	Pump	Nozzle	Transaction Start	Transaction End	Product	MOP	Terminal Type	Terminal Sequence Nr	Transaction Amount	Transaction Volume
419168		1	3	11/07/2017 12:30:40	11/07/2017 12:31:32	Diesel	47	OPT	1	30,060	25,65
470327		1	3	11/07/2017 12:30:38	11/07/2017 12:31:36	Diesel	31	OPT	0	37,120	32,25
307463		1	3	11/07/2017 12:30:32	11/07/2017 12:32:35	Diesel	31	OPT	1	78,930	66,78
492141		1	3	11/07/2017 12:30:29	11/07/2017 12:31:04	Diesel	31	OPT	0	12,090	10,34
431475		1	3	11/07/2017 12:30:20	11/07/2017 12:32:44	Diesel	47	OPT	1	93,610	82,19
302251		1	3	11/07/2017 12:30:15	11/07/2017 12:31:48	Diesel	31	OPT	1	50,070	42,76
375308		1	3	11/07/2017 12:30:14	11/07/2017 12:30:55	Diesel	31	OPT	1	20,370	17,65
568877		1	3	11/07/2017 12:30:08	11/07/2017 12:31:30	Diesel	31	OPT	1	50,400	44,60
205680		1	3	11/07/2017 12:30:05	11/07/2017 12:30:48	Diesel	31	OPT	0	20,000	17,51

The applied filter is described on top of the page.  
 If the overview takes more than one browser page:

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- Click “1”, “2”, “3”, “4” ... to display the corresponding page.

## 6. 5. 2. Viewing transaction details

To view details of an event:

- Click the corresponding “Id” in the Transaction overview.

### Transaction - Details

Transaction-ID: 419168			
Site ID:	8085	Site name:	Lovendegem (V)
Start transaction:	11/07/2017 12:30:40	End transaction:	11/07/2017 12:31:32
Fueling point ID:	1	Nozzle ID:	3
Product code:	3	Product description:	Diesel
Tank ID:	3	Seqnr / pump:	112
Terminal type:	1	Terminal nr:	1
MOP ID:	47	Seqnr / terminal:	4604
Amount:	30,060 €	Volume:	25,65 l
Unit price:	1,172 €	Prepay value:	117,200 €
Rounded value:	30,060 €		
Index status:	1	Index value:	361921060
Index volume:	74488765		
Type code:	0	Transaction status:	2
Transaction error:	0	Booking seq nr SC:	1398
Software vers. SC:	207	Book. seqnr Termin.:	1398
PAN nr OPT:	7005470xxxxxxxxx1=50	EFT Transaction Flag.:	1
PAN nr Loyalty card:	00000000000000000000		

See Table 18 for description of details.

**Table 18 Details of Transaction**

Item	Description
<b>Transaction-ID:</b>	Transaction Identifier P247 generated per site
<b>Site ID:</b>	IDentifier of Site in which the transaction is occurred.
<b>Start Transaction:</b>	Start Date and time the of the transaction [format: dd/mm/yyyy - hh:mm:ss]
<b>Fueling point ID:</b>	Pump number
<b>Product Code:</b>	SC product code
<b>Tank ID:</b>	Master tank of the product
<b>Terminal type:</b>	Equipment type code 1: OPT 3: Attended 5: BNA mechanical 6: Console 8: Test
<b>MOP ID:</b>	ID of the MOP
<b>Amount:</b>	Total amount of the transaction
<b>Unit price:</b>	Unit price of the fuel
<b>Rounded value:</b>	Rounded amount of the transaction
<b>Index status:</b>	0: No information 1: Information 2: Index corrupt
<b>Index volume:</b>	Index in liters of the pump
<b>Type code:</b>	Not used at this point
<b>Transaction error:</b>	Error code from pump
<b>Software vers. SC:</b>	Software version of the Site Controller
<b>Pan nr OPT:</b>	Pan number of the card if paid through OPT
<b>Pan nr Loyalty card:</b>	Pan number if a loyalty card is used
<b>Site name:</b>	Site name as defined in the Site Description
<b>End transaction:</b>	End Date and time the of the transaction [format: dd/mm/yyyy - hh:mm:ss]
<b>Nozzle ID:</b>	Nozzle used for this transaction
<b>Product description:</b>	Product description as defined by the customer
<b>Seqnr / Pump:</b>	Transaction sequence number per pump
<b>Terminal nr:</b>	Terminal sequence number starting from 0
<b>Seqnr / terminal:</b>	Transaction sequence number per terminal
<b>Volume:</b>	Volume in liters
<b>Prepay value:</b>	Maximum amount that is allowed for this transaction
<b>Index value:</b>	Index in amount of the pump
<b>Transaction status:</b>	2: registrated transaction 7: sending transaction to logger failed 8: sending transaction to logger succeeded
<b>Booking seq nr SC:</b>	Site Controller booking period sequence number
<b>Book. Seq nr Termin.:</b>	Terminal booking period sequence number
<b>Eft Transaction Flag.:</b>	0: Online transaction 1: Offline transaction



## 6. 6. Tracking status

### 6. 6. 1. Viewing status tracking

To view all statuses received from all sites:

- In the main menu, click the “Alarms” button.
- In the “Alarms” menu, click “Tracking – Status”.

The browser gives the statuses received from all sites (see Image 13).

**Image 13 Alarms Management - Tracking Statuses**

Tracking - Status

No filter applied.  Auto-refresh

[Change filter](#)

Site-id	Site	Date	Time	Status	SC	P1	P2	P3	P4	P5	P6	P7	P8	T1	T2	T3	T4	T5	T6	T7	T8	O1	O2	O3	O4	UPS
8033	Test	11/07/2017	15:57:46	Error	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8104	Test	11/07/2017	15:32:25	Error	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8090	Test	11/07/2017	15:40:33	Error	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8016	Test	11/07/2017	15:47:22	Error	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8005	Test	11/07/2017	15:51:28	Error	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8035	Test	11/07/2017	15:45:01	Normal	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8019	Test	11/07/2017	15:40:13	Normal	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8056	Test	11/07/2017	15:54:39	Normal	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8047	Test	11/07/2017	15:51:02	Normal	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Table 19 explains the details shown per status.

**Table 19 Details of Events Tracking**

Item	Description
Site-ID	Identifier used by the system to identify the P247 Site.
Site	Description of the Site (taken from the site description)
Date	Date when the last status was taken form the site [format: dd/mm/yyyy]
Time	Time when the last status was taken from the site [format: hh:mm:ss]
Status	Status of the site: Normal: no problems on site Error: problem(s) on site Dated: it has been to long a valid state was processed by the system

The states are defined by a selection of rules and conditions. These rules and conditions are not scope of this document and are defined by MICRELEC as agreed with the customer.

By default, all sites are shown, but you can use the “change filter” button to filter by various options. Following Table 20 gives the menu options.

**Define filter**

Site group: --- No filter --- ▾

Site: --- No filter --- ▾

Status: --- No filter --- ▾

**Table 20 Filtering Statuses**

Filter	Options	Description
<b>Site group:</b>		Filter statuses on site group as defined by the user in the Site Group List
<b>Site:</b>		Filter the statuses on a particular site.
<b>Status:</b>	<div style="border: 1px solid #ccc; padding: 2px;"> <span>--- No filter ---</span> ▾  <span>--- No filter ---</span>            Error            Normal         </div>	Filter the transactions on a particular status

**Image 14 Example of Filtering Statuses Tracking**

**Tracking - Status**

Showing the status for sites that belong to group **All Sites** with a status of **Normal**.  Auto-refresh

[Change filter](#)

Site-id	Site	Date	Time	Status	SC	P1	P2	P3	P4	P5	P6	P7	P8	T1	T2	T3	T4	T5	T6	T7	T8	O1	O2	O3	O4	UPS
8035	Test	12/07/2017	9:11:15	<span style="color: green;">●</span> Normal	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>
8019	Test	12/07/2017	9:16:16	<span style="color: green;">●</span> Normal	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>
8056	Test	12/07/2017	9:03:44	<span style="color: green;">●</span> Normal	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>
8047	Test	12/07/2017	9:31:39	<span style="color: green;">●</span> Normal	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>
8023	Test	12/07/2017	9:13:35	<span style="color: green;">●</span> Normal	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>
8087	Test	12/07/2017	9:16:01	<span style="color: green;">●</span> Normal	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>
8031	Test	12/07/2017	9:29:17	<span style="color: green;">●</span> Normal	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: green;">●</span>

The applied filter is described on top of the page. If the overview takes more than one browser page:

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>>

- Click “1”, “2”, “3”, “4” ... to display the corresponding page.

## 6. 6. 2. Viewing status details

To view details of a status:

- Click the corresponding “Site-id” in the Status overview.

### Status - Details

Site: Test  
Date/time: 12/07/2017 9:11:15

Overview of the equipment on this site:

<p>● Equipment: Sitecontroller Device: 1 Subdevice: 0</p>			
<p>● Equipment: Pump Device: 1 Subdevice: 0 Reported state: • Authorised but no transaction</p>	<p>● Equipment: Pump Device: 2 Subdevice: 0</p>	<p>● Equipment: Pump Device: 3 Subdevice: 0</p>	<p>● Equipment: Pump Device: 4 Subdevice: 0 Reported state: • Authorised but no transaction</p>
<p>● Equipment: Pump Device: 5 Subdevice: 0</p>	<p>● Equipment: Pump Device: 6 Subdevice: 0</p>		
<p>● Equipment: Vaporix Device: 1 Subdevice: 0 Reported state: • Side A</p>	<p>● Equipment: Vaporix Device: 2 Subdevice: 0 Reported state: • Side B</p>	<p>● Equipment: Vaporix Device: 3 Subdevice: 0 Reported state: • Side B</p>	<p>● Equipment: Vaporix Device: 4 Subdevice: 0 Reported state: • Side A</p>
<p>● Equipment: Tank Device: 1 Subdevice: 0</p>	<p>● Equipment: Tank Device: 2 Subdevice: 0</p>	<p>● Equipment: Tank Device: 3 Subdevice: 0</p>	<p>● Equipment: Tank Device: 4 Subdevice: 0</p>
<p>● Equipment: Tank Device: 5 Subdevice: 0 Reported state: • No info</p>			
<p>● Equipment: Terminal Device: 1 Subdevice: 0</p>	<p>● Equipment: Terminal Device: 2 Subdevice: 0</p>	<p>● Equipment: Terminal Device: 3 Subdevice: 0</p>	<p>● Equipment: Terminal Device: 4 Subdevice: 0</p>

When viewing de Status details, all equipment on site is shown along with its corresponding status. If no problem is detected all statuses are green. If an error is detected, the status of that type of equipment becomes red and the problem is mentioned.

<p>● Equipment: Pump Device: 1 Subdevice: 0 Reported state: • Out of service • Disconnected</p>	<p>● Equipment: Pump Device: 2 Subdevice: 0 Reported state: • Out of service • Disconnected</p>
---	---

## 7. STATISTICS MANAGEMENT

To access the Statistics management part:

- Click the “Statistics” button in the main menu.



Note that “Statistics” is active after successful log in of Petrol 247.  
The menu shows the submenus.

### 7. 1. Transaction analysis

#### 7. 1. 1. Introduction

The purpose of alarms generated based on frequency of transactions is to detect out of service situations of site equipment. The alarms generated will notify those responsible for the site so that they can take the appropriate action. This aims to help reduce overall downtime.

Mop, pump and terminal transactions will be analyzed to determine if their frequency is above or below a threshold defined as to be expected.

Transactions will be stored per site in a database for the time necessary to perform analysis. A per site, per terminal, per pump, per nozzle transaction behavior will be learned by the application. This transaction behavior will be continuously re-evaluated based on new transaction information received. Statistic information will be updated on a daily base for each hour.

Unattended sites - which should be operational 24hours a day, 7 days a week regardless of working days, weekends or holidays - will be analyzed by the application. The transactions will be provided for analysis in batches on a predefined time schedule.

#### 7. 1. 2. Analysis list

To access the analyses list:

- In the main menu, click the “Statistics” button.
- In the “Statistics” menu, click “Analysis list”.

The browser gives an overview of the analyses for each station, per mop, pump and terminal.

The results are displayed for every timeframe of the day. There are 24 timeframes in a day, starting from 0 (0 to 1 am) and ending on 23 (11 to 0 pm).

### Image 15 Transaction analysis – Analysis list

#### Statistics - Analyses list

No filter applied.

[Change filter](#)

	Site ID	Site name	Type	ID	Sub ID	Time frame	Start	Last Analysis	Status			
[View]	2082	101130 <small>General Aalenberg</small>	MOP	31	0	0	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	35	0	0	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	43	0	0	25/05/2017 0:20:55	13/07/2017 23:32:52	Learning			[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	44	0	0	27/02/2017 0:00:23	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	45	0	0	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	50	0	0	3/03/2017 1:26:05	30/06/2017 0:05:04	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	52	0	0	12/01/2017 0:32:33	6/07/2017 0:29:30	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	54	0	0	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	PUMP	1	0	0	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	PUMP	2	0	0	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	PUMP	3	0	0	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	PUMP	4	0	0	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	TERM	1	0	0	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	31	0	1	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	35	0	1	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	44	0	1	10/05/2017 1:13:50	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	45	0	1	12/01/2017 0:32:33	8/07/2017 23:05:25	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	50	0	1	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	52	0	1	19/03/2017 0:31:00	10/06/2017 0:57:45	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	53	0	1	2/05/2017 0:54:10	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	54	0	1	12/01/2017 0:32:33	1/04/2017 0:55:38	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	PUMP	1	0	1	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	PUMP	2	0	1	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	PUMP	3	0	1	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	PUMP	4	0	1	12/01/2017 0:32:33	14/04/2017 0:58:06	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	TERM	1	0	1	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	31	0	2	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	35	0	2	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	45	0	2	13/05/2017 0:29:31	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]
[View]	2082	101130 <small>General Aalenberg</small>	MOP	52	0	2	23/05/2017 0:29:40	13/07/2017 23:32:52	Learning			[Restart]

**Table 21 Details of Analyses list**

Item	Option	Description
Site-ID		Identifier used by the system to identify the P247 Site.
Site name		Description of the Site (taken from the site description)
Type	MOP TERM PUMP	Type of the analysis
ID		ID of the Type example PUMP 1
Sub ID		Sub ID of the TYPE
Timeframe	0 .. 23	Timeframe of the analysis
Start		Date and time of first transaction that is taken to calculate the average
Last Analysis	[format: dd/mm/yyyy - hh:mm:ss]	Date and time of the last transaction that is taken to calculate the average
Status	Valid Learning Stopped On Hold	The Learning period can be set by Torex in the config file. This learning period should be big enough to calculate a valid average for the transactions. The learning period will verify if there is enough data available to make a decent average calculation. A statistic analysis will initially have the status "LEARNING" (or code 0). This means that the results that this analysis contains are not considered "VALID" (or code 1). The status of the analysis changes when the learning period has been completed. This means that upon creation of the analysis, the analysis' property "StartDateTimeStamp" is set to the date of the first transaction of the collection of transactions the analysis is based on. Once set, this property's value does not change. The LastDateTimestamp property will get the date of the last transaction. This means that we can use these two properties to: a. Get the date of the earliest transaction this analysis is (was) based upon b. Get the date of the last transaction this analysis is based upon. Every time the analyses are created / updated a check is performed where the start date is increased by the learning period value and the resulting date is compared to the "LastDateTimestamp". If the "LastDateTimestamp" is older then the start date + learning period, the status of this analysis is set to "VALID" (1).
[Pause] [Stop] [Start]	On Hold Stopped	Pause the analysis for a certain time frame Stop the analysis for a certain time frame Start the analysis for a certain time frame
[Restart]		Delete all average calculations of all time frames for this site.

By default, all analyses are shown, but you can use the “change filter” button to filter by various options. Following Table 22 gives the menu options.

**Define filter**

Site:

Type:

ID:

Sub ID:

Time frame:

Date from:  to:

Time from:  to:

Status:

Apply Cancel Reset

**Table 7 Filtering Analyses**

Filter	Options	Description
Site		Filter the analyses on a particular site.
Type	<input type="text" value="--- No filter ---"/> <ul style="list-style-type: none"> <li>--- No filter ---</li> <li>MOP</li> <li>PUMP</li> <li>TERM</li> <li>NULL</li> </ul>	Filter the analyses on a particular type.
ID		Filter the analyses on a particular ID.
Sub ID		Filter the analyses on a particular Sub ID.
Time frame	0 .. 23	Filter the analyses on a particular time frame.
Date from to	[format: dd/mm/yyyy - hh:mm:ss]	Filter the analyses on a particular Date.
Time from to	[format: dd/mm/yyyy - hh:mm:ss]	Filter the analyses on a particular Time.
Status	<input type="text" value="--- No filter ---"/> <ul style="list-style-type: none"> <li>--- No filter ---</li> <li>Learning</li> <li>Valid</li> <li>On hold</li> <li>Stopped</li> </ul>	Filter the analyses on a particular Status.

**Image 16 Example of Filtering Statuses Tracking**

**Statistics - Analyses list**

Showing analyses for site **11111 Test - Microlec123456** and time frame 5 with type TERM and status Valid.

[Change filter](#)

	Site ID	Site name	Type	ID	Sub ID	Time frame	Start	Last Analysis	Status			
[View]	2082	11111 Test - Microlec123456	TERM	1	0	5	12/01/2017 0:32:33	13/07/2017 23:32:52	Valid	[Pause]	[Stop]	[Restart]

The applied filter is described on top of the page.

If the overview takes more than one browser page:

Page  of 76 pages

- Click “1”, “2”, “3”, “4” ... to display the corresponding page.

### 7. 1. 3. Viewing anaylis detail

- In the overview, click the “View” you want to see details of.

#### Analysis Detail

Site ID:	<input type="text" value="2082"/>	Site name:	<input type="text" value="11111 Test-Microlec123456"/>				
Time frame:	<input type="text" value="5"/>	Type:	<input type="text" value="TERM"/>	ID:	<input type="text" value="1"/>	Sub ID:	<input type="text" value="0"/>
	Mo	Tu	We	Th	Fr	Sa	Su
Time frames	6	6	6	6	5	6	6
Transactions	7	5	5	4	3	1	0

**Table 23 Details of Analysis**

Item	Description
Site ID	Identifier used by the system to identify the P247 Site.
Site name	Description of the Site (taken from the site description)
Time Frame	Current time frame of the details
Type	Equipment Type (MOP, TERM or PUMP)
ID	Device ID
Sub ID	Sub device ID

For each day of the week the average transactions of the current time frame is calculated and mentioned under Transactions. The number in the Time Frames column shows how many times frames where used to make this calculation. (3 weeks in this example)



## 7. 1. 4. Weight list

To access the weight list:

- In the main menu, click the “Statistics” button.
- In the “Statistics” menu, click “Weight list”.

Through the weight list, the user can define the thresholds used to determine when an event should be generated. These can be defined per site.

**Image 17 Transaction analysis – Weight list**

### Statistics - Weight List

No filter applied.		
<a href="#">Change filter</a>		
	Site ID	Site Name
[View]	8037	Test
[View]	8069	Test
[View]	8011	Test
[View]	8018	Test
[View]	8060	Test
[View]	8003	Test
[View]	8062	Test

**Table 24 Details of Weight list**

Item	Option	Description
Site-ID		Identifier used by the system to identify the P247 Site.
Site name		Description of the Site (taken from the site description)

By default, all analyses are shown, but you can use the “change filter” button to filter by various options. Following Table 25 gives the menu options.

<b>Define filter</b>
Site: <input type="text" value="--- No filter ---"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Reset"/>

**Table 25 Filtering Weight**

Filter	Options	Description
Site		Filter the weight list on a particular site.

**Image 18 Example of Filtering Weight list**

**Statistics - Weight List**

Showing the status for site **Test** .

[Change filter](#)

	Site ID	Site Name
[View]	8035	Test

The applied filter is described on top of the page.  
 If the overview takes more than one browser page:

<< < Page 1 of 76 pages > >>

- Click “1”, “2”, “3”, “4” ... to display the corresponding page.

## 7. 1. 5. Viewing and editing the weight list

- In the overview, click the “[View]” link of the site for which you want to view or edit the weight list.

### Statistical Weight Details

Site: Test

	00hrs	01hrs	02hrs	03hrs	04hrs	05hrs	06hrs	07hrs	08hrs	09hrs	10hrs	11hrs
Pos:	100	100	100	100	100	100	100	100	100	100	100	100
Neg:	100	100	100	100	100	100	100	100	100	100	100	100

	12hrs	13hrs	14hrs	15hrs	16hrs	17hrs	18hrs	19hrs	20hrs	21hrs	22hrs	23hrs
Pos:	100	100	100	100	100	100	100	100	100	100	100	100
Neg:	100	100	100	100	100	100	100	100	100	100	100	100

Thresholds can be set in percentages for each time frame. Both a positive and negative percentage can be set. Minimum is 0 and Maximum is 100.

## 7. 1. 6. Sliding window

The Sliding Window can be set by MICRELEC in the config file. The analyses are calculated on a collection of transactions. This collection of transactions consists of every transaction for a given site that has occurred after a certain date. This date is calculated by subtracting the value of the sliding window from the current date. The average calculations will “slide” from day to day.

NOTE THAT: even though an analysis may be updated by calculating it for a given collection of transactions that span from the calculated date until today, the StartDateTimeStamp property of the analysis is only set when the analysis is first created and not when updating an analysis.

The reason for this sliding window is that we want to ensure that the statistical data we generate here is relevant for the current situation at the concerning site. If no sliding window is respected, we could base our results on transactions that took place too long back to be of any use for instance. The bigger the Sliding Window is set the slower the average calculation will react on sudden changes but the more accurate the calculation will be.

## 7. 1. 7. Statistic analyzer service

The Statistic Analyzer service will transactions and calculate statistical information from the received transactions. Transactions will be analyzed when new ones are posted in the database. The result of these analyses is statistic information that is used to evaluate against the current site transaction behavior and to update stored statistics. Per monitoring equipment an event definition is created. For every site an average of transactions for every hour in a day is calculated per terminal, per pump and per mop. A week is divided into seven days, each day divided into 24 timeslots. Every timeslot has a weight indicating the thresholds for that timeslot. Events will be created when abnormal frequency of usage is detected for the monitoring equipment. An alarm definition could then lead the events to an alarm

## 7. 1. 8. Event Generator

The event generator will run on a defined schedule, typically every 60 or 120 minutes. It will load the statistical analysis table, what is known as a normal behavior for this statistic type, and check if the statistic information can be used. (Check if the status is valid)

If all information is valid, it will calculate the difference between the actual site behavior and the statistic behavior, and verify this with the allowed thresholds defined in the Weight List for the current time frame. If unexpected behavior is detected, it will generate an event.

The events can be used to generate alarms by defining alarm rules. These alarms can be activated for a site by adding the site into the alarm definition.

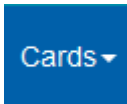
## 8. CARD MANAGEMENT

This chapter gives a description and procedures for managing blacklist cards:

- Viewing the Cards Blacklist, removing manually blocked cards from the Blacklist and moving cards blocked by velocity from Blacklist to Velocity Override List (8.1.1. Viewing cards blacklist).
- Terminology used (8.2. Terminology used on card management pages).
- Manually blocking cards for a certain period and manually unblocking cards (8.3. Manually blocking and unblocking cards **Fout! Verwijzingsbron niet gevonden.**).
- Viewing the Velocity Override List, removing cards from the Velocity Override List (8.4. Velocity override list).
- Moving cards, blocked by velocity, for a certain period from Blacklist to Override List (8.5. Adding to velocity override list).

To access this part of the P247 application:

- In the main menu, click the “Cards” button.



The menu shows the submenu

### 8. 1. Cards blacklist

#### 8. 1. 1. Viewing cards blacklist

To view blocked cards:

- In the “Cards” menu, click “Blacklist – Blacklist Overview”.

**Image 19 Card Management - Cards Blacklist**

**Blacklist - Overview**

Only show PAN's that begin with a number greater than or equal to:

PAN	Blocked by	Blocked Until	Description	Action	Get Transactions
7005470319916289	Velocity	<not available>		[ Unblock card ]	[ Show Transactions ]
7005470881782509	Velocity	<not available>		[ Unblock card ]	[ Show Transactions ]
7005470895810338	Velocity	<not available>		[ Unblock card ]	[ Show Transactions ]
7005470899236645	Velocity	<not available>		[ Unblock card ]	[ Show Transactions ]
7005470934531513	Velocity	<not available>		[ Unblock card ]	[ Show Transactions ]

The initial page gives the codes of the first ten cards on the blacklist.

- To view the previous or next (ten) cards, click the <**Forward**> or <**Reverse**> buttons (only P247, no browser buttons).

If you want to change the displayed cards in the list, enter a value next to “Only show PAN’s that begin with a number greater than or equal to:”.

Only show PAN's that begin with a number greater than or equal to:

The card management pages give an overview of the Blacklist cards and the way they are blocked.

Via these P247 pages you can unblock cards for an undefined time by:

- Removing *manually blocked cards* from the Blacklist.
- Adding *cards blocked by velocity* to the Override List.

## 8. 2. Terminology used on card management pages

This part gives an explanation of the terminology used in Card Management pages.  
Refer to the Images in this chapter.

“Card Pan”, “Card Number”:	Primary Account Number of the client card. The card PAN must contain only numerals.
“Format”:	Part of the card PAN that is common for a group of cards as defined by the company. Use this drop down menu to select “Format” and associated company.
“Type”:	Use the radio buttons to select the action type: <ul style="list-style-type: none"><li>▪ “Block” Put on the Blacklist.</li><li>▪ “Unblock” remove from the Blacklist.</li></ul>
“Manually Blocked Until”:	Indicates date and time until which the card will stay manually blocked, i.e., will be on the Blacklist.
Period:	Use the radio buttons to select the period of time during which: <ul style="list-style-type: none"><li>▪ A manually blocked card will be on the Blacklist.</li><li>▪ A card blocked by velocity will be on the Velocity Override List.</li></ul> You can select one day, one week or one month.
“Remove Manual Blocking”	Use this command to unblock the manually blocked card, i.e., to remove it from the Blacklist.
“Blocked by <b>Velocity</b> ”:	Indicates the card has been blocked by a velocity check application, its Pan code is included in the Blacklist. The blacklist card cannot be used as long as it is on the list. However, it can be unblocked by adding it to the Velocity Override List.
Velocity Override:	Override the blocking of a blacklist card by putting it on the Override list for a defined or undefined period of time.
“Add to Velocity Override List”:	Use this command to add the Blacklist card to the Velocity Override List.
“Search”	Use this command to search a card in the Blacklist or Override List after entering the code.
“Show”	Use this drop down menu to select the number of cards shown per Blacklist or Override List page. You can select 10, 20 or 50 items per page.
“Group Blocking”:	Actually not used (future application).

## 8. 3. Manually blocking and unblocking cards

### 8. 3. 1. Accessing this page

- In the “Cards” menu, click “Manual handling - Block/Unblock card”.

Via this P247 “Card Blacklisting” page you can:

- Manually block cards for a certain period of time.
- Unblock cards that have been manually blocked.

#### Manually block a card

PAN: 700547 ▾ |

IIN: 700547

Description: Micrelec

Blocking period:

One Day

One Week

One Month

Block Card

#### Manually unblock a card

PAN: 700547 ▾ |

IIN: 700547

Description: Micrelec

Unblock

The “Block Card” button (Manually block a card), allows to manually put cards on the Blacklist for one day, one week or one month. The “Unblock” command (Manually unblock a card), allows you to remove cards from the Blacklist.

### 8. 3. 2. Manually blocking/ unblocking a card

This procedure describes blocking and unblocking cards.


Only blocking is shown in the example, but unblocking is performed in a similar way.

- In the “Cards” menu, click the “Blacklist Overview” submenu and verify whether the card is on the Blacklist.
- In the “Cards” menu, click the “Block card” button and in the “PAN” data field, enter the Card PAN code. You can do it in two ways:
  - Either enter the entire code.
  - Or select the applicable “Format” from the drop down menu and complete the code. In the example above, the PAN format is ‘700547’
- In case of Blocking, select the period during which you want the card to be blocked (one day in the example above).
- Click the “Block card” button to confirm.



If the operation succeeded, a message shows that this card has been successfully blocked/ unblocked.

**Manually block a card**

 Card 7005470319916289 is now blocked!

PAN:    
IIN: 700547  
Description: Micrelec

Blocking period:

- One Day
- One Week
- One Month

It will appear on the Blacklist Overview.

If not, you will get an error message.  
Example:

**Manually block a card**

PAN:   Invalid card PAN  
IIN: 700547  
Description: Micrelec

Blocking period:

- One Day
- One Week
- One Month

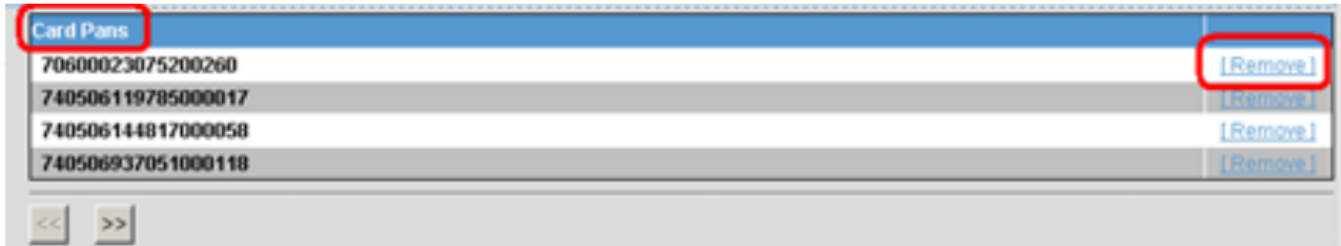
## 8. 4. Velocity override list

### 8. 4. 1. Viewing velocity override list

- In the “Cards” menu, click “Velocity handling – Velocity overview”.

*Image 20 Card Management - Velocity Override List*

Velocity override list - Overview



Card Pans	
70600023075200260	[Remove]
740506119785000017	[Remove]
740506144817000058	[Remove]
740506937051000118	[Remove]

The Velocity Override List contains all the cards that were blocked by a velocity check application, but that have been unblocked by an override command.

The Velocity Override of these cards can be performed:

- Via the [“Blacklist”](#) menu with an “Add to Velocity Override List” command.
- Via the [“Add to Override List”](#) menu with an “Add” command.
- Use the **<Forward>** and **<Reverse>** buttons to scroll through the pages.
- Use the **<Show>** button and the drop down menu to define the number of displayed cards.
- Use the **<Search>** button to search a card via its PAN code.

## 8. 4. 2. Removing a card from the override list

- In the “Cards” menu, click “Velocity handling – remove card from velocity list”
- In the following screen, enter the PAN and its format.

*Image 20 Card Management - Removing a Card from the Override List*

**Velocity override list - Remove a card**

PAN: 700547

IIN: 700547

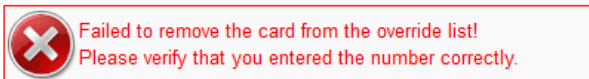
Description: Micrelec

- Click the “Remove Card” button to confirm.

The card will disappear from the Override List (unblocked cards) and reappear in the Blacklist (blocked cards).

If this action failed, you will see the following message:

### Velocity override list - Remove a card



PAN: 700547

IIN: 700547

Description: Micrelec

Click <Back> if you want to cancel this operation.

## 8. 5. Adding to velocity override list

### 8. 5. 1. Accessing this page

- In the “Cards” menu, click “Velocity handling – Add card to velocity list”.

Via this P247 page you can unblock blacklist cards for a certain period of time. These cards were originally blocked by a velocity check application .

**Image 21 Card Management - Removing a Card from the Override List**

**Velocity override list - Add a card**

PAN: 700547

IIN: 700547
Description: Mirelec

Blocking period:

One Day

One Week

One Month

The “Add card” command allows putting a blocked card on the Override List for one day, one week or one month.

## 8. 5. 2. Adding a blocked card to the override list

- First, you have to be certain that the blocked card is on the Blacklist. You can look it up via the “Blacklist Overview” menu, for example, by copying its code.

There are two ways to enter the blocked card’s PAN code:

- If you know (or copied) the PAN code, enter (or paste) it in the “PAN” data field.
- If you can find the blocked card’s “Format” in the drop down menu, the card is issued by one of the mentioned companies:
  - Select the appropriate “Format” to have this code part filled in. In the example above, the format is ‘700547’
  - Complete the PAN code.
- Select the period during which you want the card to be unblocked. In the example above, the period is one day.
- Click the “Add card” command.

If successful, this card is put on the Override List and will disappear from the Blacklist. If not, error messages will appear.

A wrong or non-existing card PAN will not be accepted.

In following example, the entered Card PAN contains non numerical characters:

### Velocity override list - Add a card

PAN: 700547 ▾ abodefg **Invalid card PAN**

IIN: 700547  
Description: Micrelec

Blocking period:

One Day  
 One Week  
 One Month

## 8. 6. Card Descriptions

Only authorized users have access to this functionality. This part is not described in the manual.

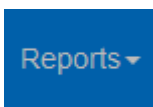
## 9. Reports

This chapter gives a description on how to use the Petrol 247 reporting tool. There are 3 types of reports:

- Sales report: report of sales, expressed in amount, volume or per MOP, for a specific site or for a group of sites.
- Fuel price report: report of the progression of the fuel prices for a specific site.
- Tank analyse report: report of the wet stock status for a specific site.

To access this part of the P247 application:

- In the main menu, click the “Reports” button.



The menu shows the submenu.

Note that “Statistics” is active after successful log in of Petrol 247.

### 9. 1. Sales Report

To create sales reports:

- In the main menu, click the “Reports” button.
- In the “Reports” menu, click “Sales Report” button.

The browser gives access to a filter.

**Image 23 Sales Report - filter**

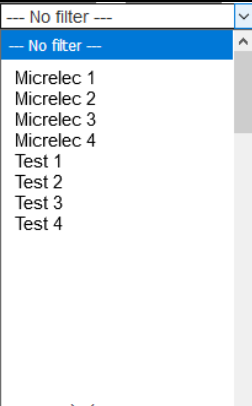
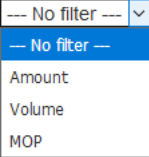
#### Reports - Sales Report

No filter applied.  
[Change filter](#)

You can use the “Change filter” button to filter by various options. Table 26 gives the filter options.

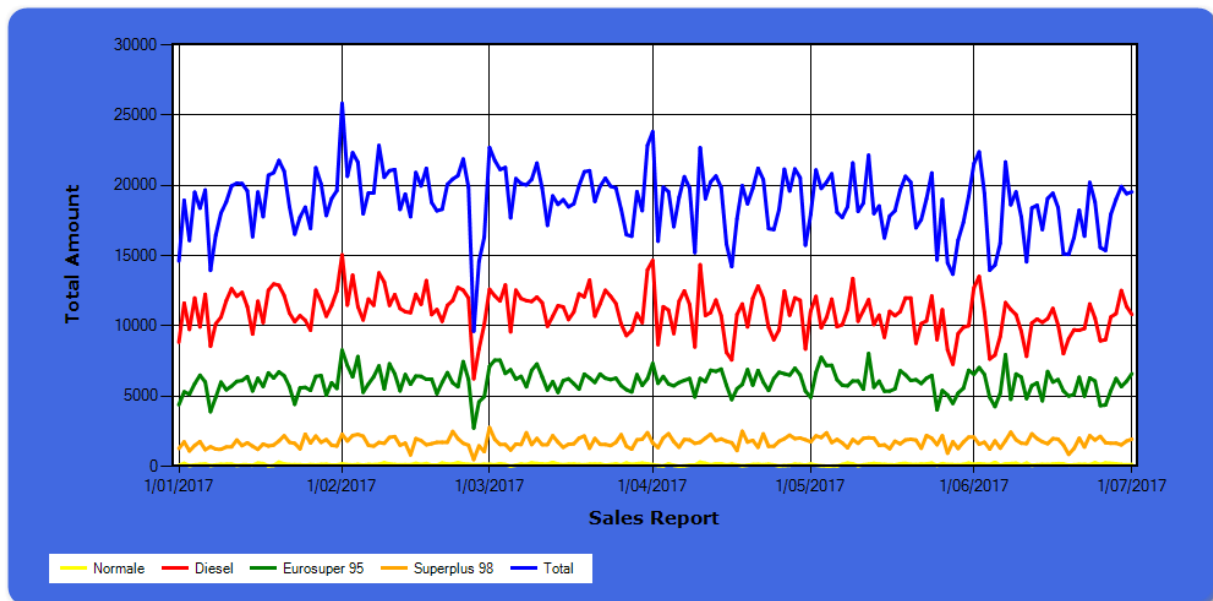
Define filter	
Site group:	All Sites ▾
Site:	--- No filter --- ▾
Date from:	1/01/2017 to: 1/07/2017
Type:	--- No filter --- ▾
Show Total:	<input type="checkbox"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Reset"/>	

**Table 26 Filtering Sales Report**

Filter	Options	Description
Site group		Filter statuses on site group as defined by the user in the Site Group List
Site		Filter the statuses on a particular site.
Date from to	[format: dd/mm/yyyy]	Filter the transactions on date
Type		Select the type of sales report you would like to create: based on amount, volume or MOP.
Show Total	Show Total: <input type="checkbox"/>	Tick the box to show the totals.

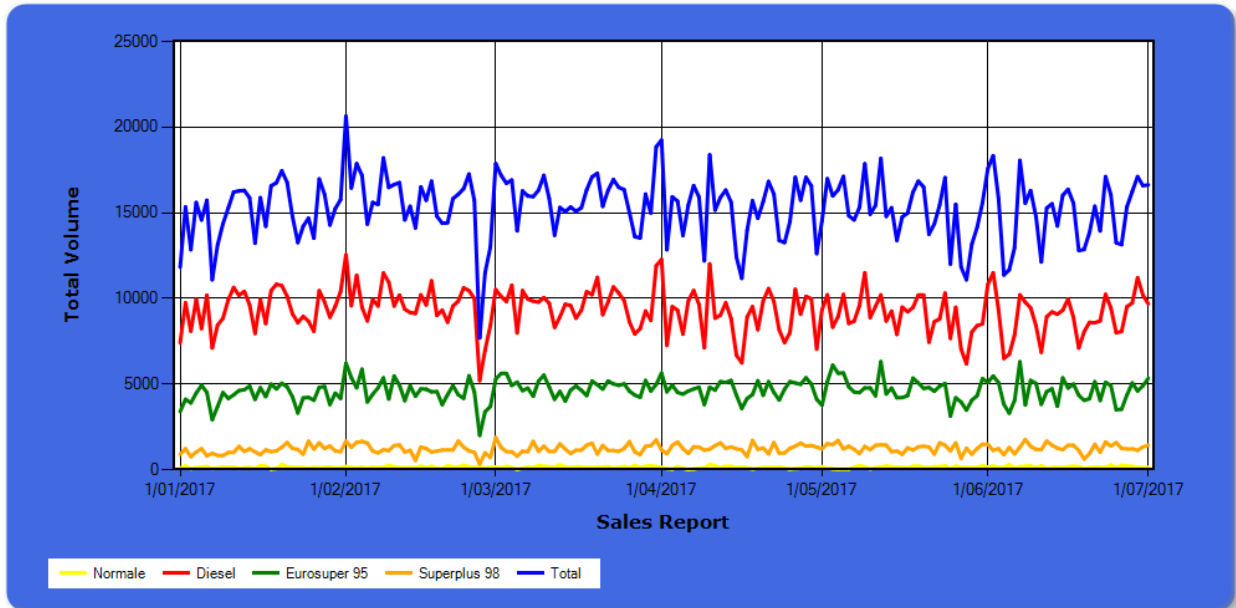
Below you will find examples of the different types of sales reports.

**Image 24 Example Sales Report – Amount**



Total Amount for this period: 3441462  
 Total Volume for this period: 2787628  
 Average Amount a day: 43  
 Average Volume a day: 35

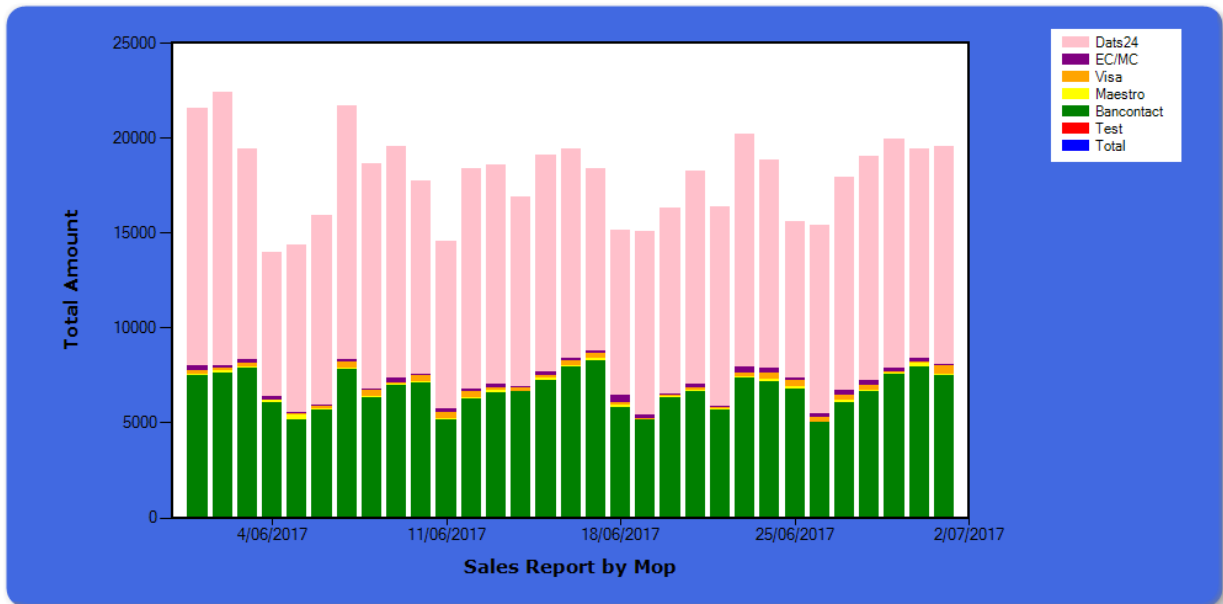
Image 25 Example Sales Report – Volume



Total Amount for this period: 1094790  
Total Volume for this period: 841847  
Average Amount a day: 40  
Average Volume a day: 31

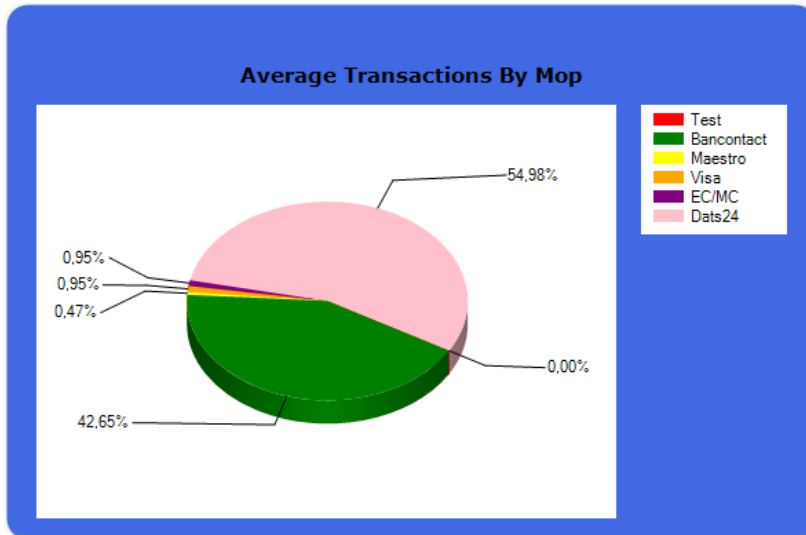


Image 26 Example Sales Report – MOP



Mop Number	Mop Description	Total Transactions	Average Transactions
30	Test	0	0
31	Bancontact	5588	180
33	Maestro	84	2
44	Visa	151	4
45	EC/MC	134	4
47	Dats24	7197	232

Total Transactions for this period: 13132  
Average Transactions a day: 422



## 9. 2. Fuel Prices Report

To create fuel prices reports:

- In the main menu, click the “Reports” button.
- In the “Reports” menu, click “Fuel Prices Report” button.

The browser gives access to a filter.

*Image 27 Fuel Prices Report - filter*

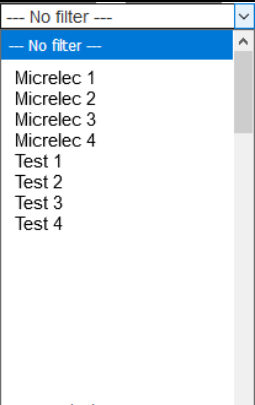
### Reports - Fuel Prices Report

No filter applied.  
[Change filter](#)

You can use the “Change filter” button to filter by various options. Table 27 gives the filter options.

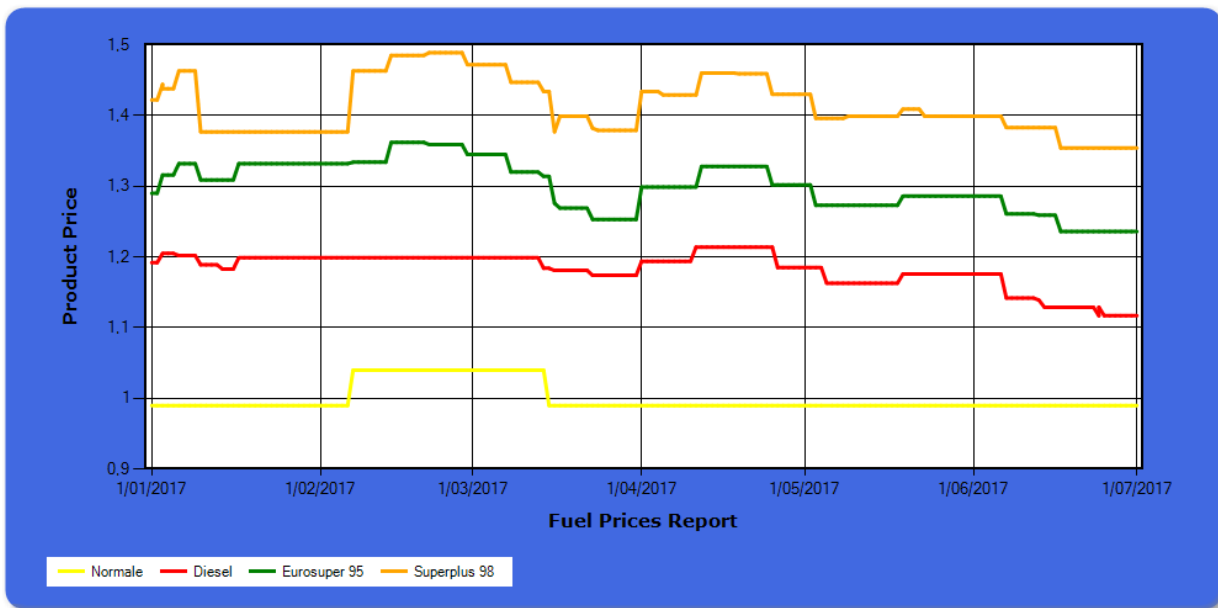
Define filter	
Site group:	--- No filter --- ▾
Site:	--- No filter --- ▾
Date from:	<input type="text"/> to: <input type="text"/>
Status:	--- No filter --- ▾
<input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Reset"/>	

**Table 27 Filtering Fuel Prices Report**

Filter	Options	Description
Site group		Filter statuses on site group as defined by the user in the Site Group List
Site		Filter the statuses on a particular site.
Date from to	[format: dd/mm/yyyy]	Filter the transactions on date

Below you will find an example of a fuel prices report.

**Image 28 Example Fuel Prices Report**



## 9. 3. Tank Analyse Report

To create fuel prices reports:

- In the main menu, click the “Reports” button.
- In the “Reports” menu, click “Tank Analyse Report” button.

The browser gives access to a filter.

**Image 29 Tank Analyse Report - filter**

### Reports - Tank Analyse Report

No filter applied.  
[Change filter](#)

Visual Tank Information

You can use the “Change filter” button to filter by various options. Table 28 gives the filter options.

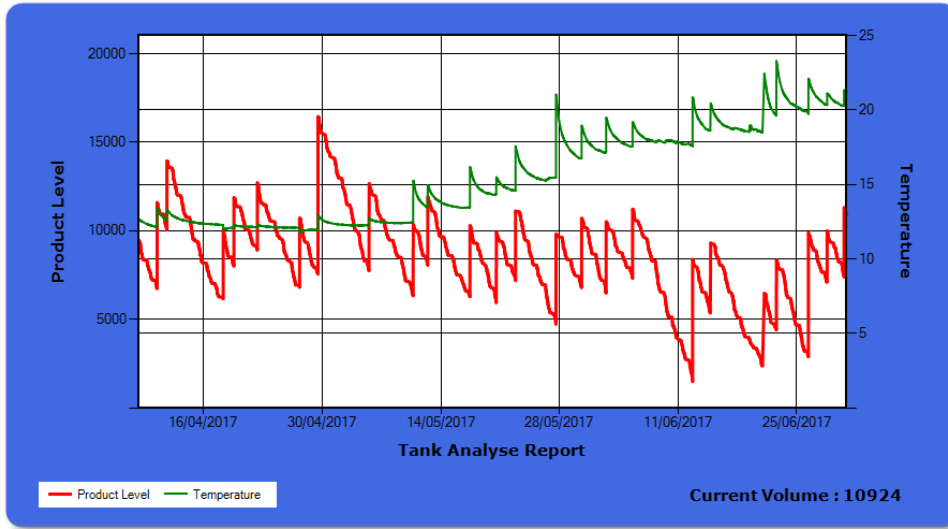
Define filter	
Site:	<input type="text" value="--- No filter ---"/>
Tank Number:	<input type="text" value="--- No filter ---"/>
Date from:	<input type="text"/> to: <input type="text"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Reset"/>	

**Table 28 Filtering Tank Analyse Report**

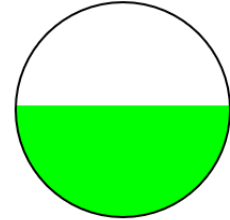
Filter	Options	Description
Site	--- No filter --- --- No filter --- Micrelec 1 Micrelec 2 Micrelec 3 Micrelec 4 Test 1 Test 2 Test 3 Test 4	Filter the statuses on a particular site.
Tank Number	--- No filter --- --- No filter --- 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Filter the tank on a particular site.
Date from to	[format: dd/mm/yyyy]	Filter the transactions on date

Below you will find an example of a tank analyse report. Under Visual Tank Information you will find the current volume for the filtered tank.

Image 30 Example Tank Analyse Report



Visual Tank Information



Tank Capacity : 21029  
Current Volume : 10924