

User Manual



BOMAG TELEMATIC

Catalogue No. 008 076 81

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Preface

Preface

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1 General

1.1 Screen overview



1 Navigation Switches between different screens, you can select from four menus

2 Functions Functions "Tools", "Help" and "Logout"

- 3 Screen content Displays content of the selected screen
- 4 Alert window Lists alarms and messages from each machine

Menus

Screens are part of four different menus:

- At A Glance
- History
- Report
- Administration

1.2 Login / Logout

How to login

- Navigate to the BOMAG TELEMATIC webpage by opening one of the following links in your internet browser.
 - o http://telematic.bomag.com
 - o https://telematic.bomag.com (for secure SSL connection)



- Enter "Username" and "Password".
- Click on "GO!".

If username and password are correct, the "At A Glance" page is displayed.

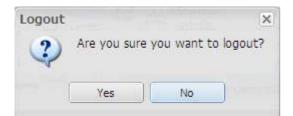


How to logout

O BOMAG		Tools Help Lognat
PANAT GROUP	At A Gance History Report Administratio	

• Click on the "Logout" button in the navigation.

General



• Confirm the "Logout" dialog with "Yes".

1.3 View & hide a panel

(e.g. "Fleets & Equipment")



• Click on the "Maximize" button to open the panel.



• Click on the "+" sign to show all machines of the fleet.

Fleets & Equipment	~
la Fleets list	**
BOMAG Rental	
BF 800 C - 66 1001	
800 C - 66 1008	
■BF 800 C - 71 1001	
BF 800 C - 71 1003 😡	
BF 800 C - 71 1004	
BF 800 C - 71 1011	
BF 800 C - 71 1013	
III BF 800 C - 71 1015	
■ BF 800 C - 71 1012	
III BM 500/15 - 00 1004	
III BM 500/15 - 00 1005	
III BM 500/15 - 00 1011	
BM 500/15 - 00 1015	
BM 500/15 - 00 1016	

• Click on the "-" sign to hide the "Fleet list".

General



• Click on the "Minimize" button to hide the panel.

1.4 Alert window

The "Alert" window is located at the bottom of every screen. It comprises 3 tabs:

- "Alarms"
- "Messages"
- "Equipment"

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Autor Boologue Equip	Jenoit Tear		Posterio Time

Alarms

Lists the alarms received from all machines in the fleet during the last 7 days. The alarm list contains a maximum of the last 100 alarms received.

- Click into the "Alert" window bar to view alarms.
- In the "Fleet list" click with the right mouse button on the machine that generates the alarm to open a pull down menu and select "Mark as read".
- When a user selects "Mark as read", the alarm will not be visible for all users working in the same "Vista" (See "Vista" definition in the "Administration → Vistas" section).

① Note

To view alarms older than 7 days, create an "Alarms report" (see chapter 4.2 - ""Alarms" report").

1.5 Data selector

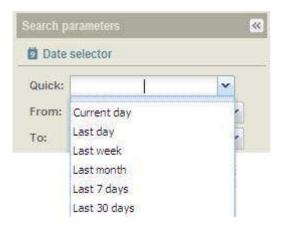
1.5.1 Date selector panel

The "Date selector" panel is used in history and report screens to select a date and time period.

Dat	e selecto	or					
Quick:	Last month						
From:	05/01/2009		12:00:00 am		~		
To:	05/31/2009		11:59:59 pm		¥		

Quick	Select a predefined time period
From	Select a user defined start date and time
То	Select a user defined end date and time

Predefined time periods



1.5.2 Equipment / User selector panel

The "Equipment selector" panel is used in history and report screens to select a machine.

Quick:					
rom:	05/01/2012		12:00:00 a	m	*
o:	05/31/2012		11:59:59 p	m	~
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	BF 800 C	8. X	2022		
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	BF 800 C				
	BF 800 C				
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ŭ	BF 800 C	- 71	1013		
1	BF 800 C	- 71	1015		
14	BF 800 C	- 71	1012		

How to operate the "Equipment selector" panel

- Press the "+" sign to the left of the fleet name to show all machines in the fleet.
- To select all machines in the fleet, tag the check box to the left of the fleet name.
- To select individual machines, tag the check box to the left of each machine name.
- To select all machines in all fleets, click on the "All" button.

To deselect a machine from the "Equipment selector" list, untag the check box to the left of the machine or fleet name. To deselect all machines in all fleets, click with the left mouse button on "None".

1.6 Table functions

1.6.1 Column header filters

A lot of tables in "Reports" / "Administration" and in the "Alert window" can be filtered by means of column filters.

Fence	-	Count	 Total	Active	Mileage [Km]
	10000	Sort Ascen Sort Descer			
		Columns	V Fen	ce	
			🔽 Cou	int	
			🔽 Tot	al	
			🛛 Acti	ive	
			🔽 Mile	eage [Km]	

- Move the mouse over to the right of a column header (e.g. "Fence").
- Click on the arrow for the drop down menu.
- Move the mouse over to "Columns".
- To select additional columns, tag the corresponding check boxes.
- To deselect columns, untag the corresponding check boxes.
- To remove criteria selections, click with the left mouse button a second time in the check box to the left of the selection.
- Close the drop down menu.

1.6.2 Data sorting in tables

Tabular data in "Reports" / "Administration" and in the "Alert window" can be sorted in ascending or descending order.

Fence	-	Count		Total	Active	e Mił	eage [Km]
	1986	Sort Ascen Sort Descer					
		Columns	▶	🔽 Fer	nce		
				🔽 Co	unt		
				🔽 То	tal		
				🔽 Ac	tive		
				🔽 Mil	eage [Km]		

- Move the mouse over to the right of a column header (e.g. "Fence").
- Click on the arrow for the drop down menu.
- Select "Sort Ascending" or "Sort Descending".

General

2 At A Glance

2.1 Overview

① Note

If you do not see the machine/fleet you are looking for, contact your Administrator.



Fleet & Equipment This is where your fleet(s) and machines are listed "Fleet list"			
Мар	The map showing the exact location of your machine(s).		
Other functions	Equipment summary: Summarizes how many machines are in various states of operation (e.g., 3 machines = Off, 6 machines = On/Idling, 12 machines = Moving/Working, etc.).		
	User settings: Saves and loads your default map.		
	Shape selector: Lists all shapes belonging to the user company. (See Administration \rightarrow Shape or Administration \rightarrow GeoFencing for further information.).		



2.2 Select, center & follow or cancel following a machine

To select a machine

• Double-click with the left mouse button on the machine in the "Fleet list".

A machine icon will appear on the map to the right of the "Fleet list" section.

To center a machine

- Click with the right mouse button on the machine name in the "Fleet list".
- Select "Center" from the pull down menu.

If no position has been sent from the machine, the application will show an "Invalid position" message.

To follow a machine

- Right click on the machine name.
- Select "Follow me" from the pull down menu.



On the map, a box will be placed around the selected machine.

- Click with the right mouse button on the machine name again.
- Select "Cancel follow" from the pull down menu.



The "Follow me" box around the machine immediately disappears from the map.

2.3 Alarms

Alarm & Message Icons



If a machine has received an alarm or message, the "not read" icon appears next to the machine name in the fleet list. The type of alarm and all other information concerning the alarms are shown in chapter 4.2 - "Alarms" report.

How to reset alarms

This function marks all alarms from the machine and alert window as read.

- Click with the right mouse button on the machine name.
- Select "Reset alarms" from the pull down menu.

2.4 Ping

Ping¹ is based on SMS² service and works only when the device on the machine is in ON or Standby mode. If the device is in Sleep mode or OFF (Hibernate), then the SMS (Ping) will be stored for a maximum of four (4) days and will be forwarded the next time the device is turned ON. When the machine is ON, the SMS response is delivered within 1-2 minutes by your carrier. The Ping will be referenced on the "At A Glance" and "History" screens. (For "Device" mode definitions, scroll down to the "Machine details" section).

How to ping a machine

This function allows the user to establish a GPS contact to a machine in the fleet. With the click of a button, you communicate with the onboard GPS device to retrieve the current location, heading, speed, etc.

① Note

The number of Pings available is limited; please, refer to the BOMAG After Sales contact for further information on this subject.

The application does not permit sending more than one Ping request every 5 minutes.



- Click with the right mouse button on the machine you wish to ping (locate).
- Click with the left mouse button on "Ping" in the drop down menu.

¹ Ping: The term ping refers to a manual request of updated information of a machine. The ping allows the User to receive the information in addition to the normal update intervals.

² SMS: Stands for short message service (aka text messaging) and is available through your wireless carrier. It is simply a method of communication that sends text between cell phones, or from a PC or handheld to a cell phone. The "short" part refers to the maximum size of the text messages: 160 characters (letters, numbers or symbols in the Latin

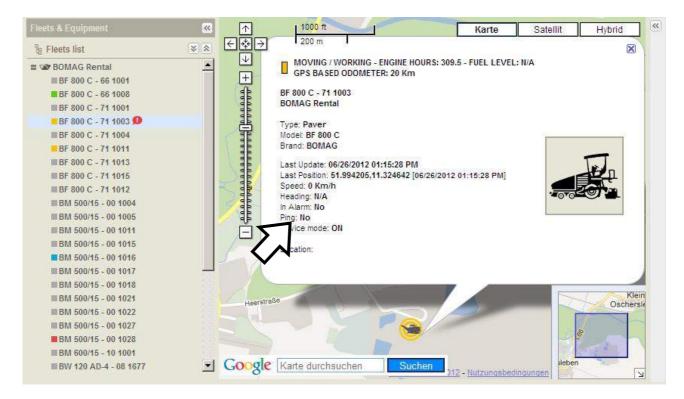
[&]quot;short" part refers to the maximum size of the text messages: 160 characters (letters, numbers or symbols in the Latin alphabet). For other alphabets, such as Chinese, the maximum SMS size is 70 characters. But the 160-character limit is not absolute.

At A Glance



• Left mouse click on "OK".

To view a Ping on the "At A Glance" screen



• Double click on the machine name.

The machine appears on the map to the right of the "Fleet list".

• Click with the left mouse button on the machine shown in the map.

A box with machine details appears (e.g. "Ping").

To view a Ping in the "History" screen



- Select the date and time period from the "Date selector" panel.
- Select a machine from the "Equipment selector" panel.
- Select the desired machine by tagging the check box to the left of the machine name.
- Click on the "Search" button. The machine appears in the map and in the "Results" panel on the right.

① Note

To deselect a machine from the "Equipment selector" list, untag the check box to the left of the machine or fleet name or click on the "None" button.

• Scroll through the "Results" panel, until "PING" appears in the "Text" column.

OR filter the "Results" panel:

- Move the mouse over the column header, e.g., "Text".
- Click on the arrow for the drop down menu.
- In the drop down menu click with the left mouse mouse button on "Sort Ascending" or "Sort Descending".
- Click the desired "PING". The machine appears in the map.

2.5 Machine details

This function shows details concerning equipment, firmware and location for each machine in your fleet(s).



To view details about equipment and firmware on a machine

- Click with the right mouse button on the machine name.
- Select "Equipment details" from the drop down menu.

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-	3	
	2	

- To view "Device: Firmware version Last update" details, click with the left mouse button on the "+" sign.
- To exit, click on "Close" or the "X"-button.

To view machine location details

MOVING / WORKING - ENGINE HOURS: 309.5 - FUEL LEVEL: N/A GPS BASED ODOMETER: 20 Km BF 800 C - 71 1003 BOMAG Rental Type: Paver Mode: BF 800 C Brand: BOMAG Last Update: 06/26/2012 01:15:28 PM Last Position: 51.994205,11.324642 [06/26/2012 01:15:28 PM] Speed: 0 Km/h Heading: N/A In Alarm: No Ping: No Device mode: ON Location:



X

• Click with the left mouse button on the icon of a machine displayed in the map, a balloon shape will show the information

Machine information

- Type and serial number of the device installed on the machine
- Fleet name
- Machine type
- Model
- Brand
- Date and time of last update
- Latitude, longitude and heading of last updated position
- Speed
- Heading (if machine is not moving heading: will show "NA")
- In alarm
- Ping
- Device mode (see definition below)
- Location

Device mode

- On Mode immediately after the ignition of the device is switched on and when the device is properly working. (After the ignition has been switched on, the device will download the firmware and any available updates.)
- Standby Mode immediately after the ignition has been switched off. In this mode the device draws current from the battery of the machine (if connected) or from the internal battery of the device. It is able to respond to Ping requests, send motion detection alarms (if enabled in "Administration->Power Management", "Motion detection" mode and "Sensitivity" settings), and will send wake-up information with each wake-up interval ("Administration->Power Management, Wakeup interval"). The device remains in

At A Glance

standby mode for a set period of time, as defined by the administrator in "Administration"-> "Power Management", "Standby interval".

Sleep mode Occurs after the standby interval period has elapsed. The device minimizes current consumption, stops using the machine's battery and starts using the device's internal battery. In this mode the device can wakeup just to send a wakeup information message or a motion detected message, as set in "Administration"->"Power Management", "Motion detection" mode and "Sensitivity". The minimum amount of time that the sleep interval can be set for is 24 hours.

Hibernate The device is completely isolated from the power supply.

MOVING / WORKING - ENGINE HOURS: 309.5 - FUEL LEVEL: N/A GPS BASED ODOMETER: 20 Km



BF 800 C - 71 1003 BOMAG Rental

• To exit "Machine details", click with the left mouse button on the "Close" button.

2.6 Equipment summary

Other functions	»
🗉 Equipment summary	(±
🗉 User Settings	+
% Shape selector	

Click on the "+" sign to view the status of all machines in the "Equipment summary" section.



Each status is represented by a color. The number to the right of the status color indicates how many machines currently have this status and informs about the "TOTAL EQUIPMENT" in the fleet.

Status definitions

Grey	OFF	any position sent from the device when the machine is OFF (i.e. motion detection)
Blue	ON / Idle	Machine ON, but in idle state, depending on the "Idle time threshold" as defined by the status profile used
Red	Long Idle	Machine ON, but exceeding the "Idle time threshold" as defined in the status profile used
Yellow	Moving / Working	Machine ON, but between "threshold A" and "threshold B" as defined in the status profile (bases on CAN)
Green	High workload	Machine ON, but exceeding "threshold B" as defined in the status profile (based on CAN)

① Note

High workload is only available on machines equipped with CAN bus, after the status profile has been set to "Based on CAN" (only available with BOMAG TELEMATIC POWER).

• Click on the "-" sign to exit "Equipment summary".

2.7 User Settings

You may save a default map of your choice, which will then be loaded whenever you access the TELEMATIC application.

Other functions	>>
🗉 Equipment summary	+
🗉 User Settings	+
8 Shape selector	

- Click on the word "User settings" or the "+" sign.
- To exit "User settings" click with the left mouse button on the "-" sign.

Find your location in the map

Option 1



- When moving the mouse across the map, the mouse pointer changes to a hand (1).
- Point the hand at a continent, country, state or city and double click with the left mouse button.
- To find the exact area, repeat the double click with the left mouse button until you see the area you would like to save as your "Default map".

OR use the pan arrows, mouse wheel, keys and/or the zoom bar:

- Pan left, right, up or down by clicking on the pan arrows (2) with the left mouse button.
- Zoom up, down, in, or out by clicking on the Zoom bar (3) with the left mouse button.

Option 2



- In the "Search the map" field of the "Google® Map Search" tool, enter the location. Most popular search choices are:
 - o Name of state, province or country
 - o Name of city
 - o Names of city and state, city and province or city and country
- Press the "Search" button.



• When the "Get directions" pop-up screen appears click on the "Exit" button to close it.

A Italy	
More results	Clear results
Google Italy	Search 4 /2

- Remove the location icon by pressing the "Clear results" button in the "Google® Map Search" tool.
- If you need a more exact location, follow the instructions described in option 1.

Fleets & Equipment	Karte Satellit Hybrid Other functions
lg Fleets list	S S S S S S S S S S S S S S S S S S S
BOMAG Rental	Longia Dieblich Boppard Boppard Boppard Boppard
■ BF 800 C - 66 1001	+ Kobern-Gondorf Deutschland s
BF 800 C - 66 1008	Wegbeschreibung abrufen: Nach hier - Bechen Save Default Map
■ BF 800 C - 71 1001	Niederfell Von hier
BF 800 C - 71 1003 9	Load Default Map
BF 800 C - 71 1004	
BF 800 C - 71 1011	
■ BF 800 C - 71 1013	Spay Dachsenhau
■ BF 800 C - 71 1015	Alken 9 Oberspay Ober
■ BF 800 C - 71 1012	Alken Fine Osterspai Ober
BM 500/15 - 00 1004	Alken Hatz port Nortershausen Boppard Nortershausen Wegbeschreibung abruten: <u>Nach hier</u> -Bechen State Derault Map Load Default Map
III BM 500/15 - 00 1005	Hatze port Nortershausen Kamp-Bornhofen
BM 500/15 - 00 1011	9 - Buchenau
BM 500/15 - 00 1015	en Dahlheim
BM 500/15 - 00 1016	Ads by Google Bad Salzig
BM 500/15 - 00 1017	15 Hotels in Boppard
III BM 500/15 - 00 1018	Hotels in Boppard reservieren.
III BM 500/15 - 00 1021	Schnell und sicher online buchen.
BM 500/15 - 00 1022	www.booking.com/Boppard-Hote/s
III BM 500/15 - 00 1027	Boppard Carbach en San San San San San San San San San Sa
BM 500/15 - 00 1028	Boppard
III BM 600/15 - 10 1001	Weitere Ergebnisse Ergebnisse löschen
BW 120 AD-4 - 08 1677	Google Boppard Suchen hesbedingungen

Saving and loading a default map

- Click on the "Save default map" button at the right under "User Settings".
- Click on the "Load default map" button at the right under "User Settings".

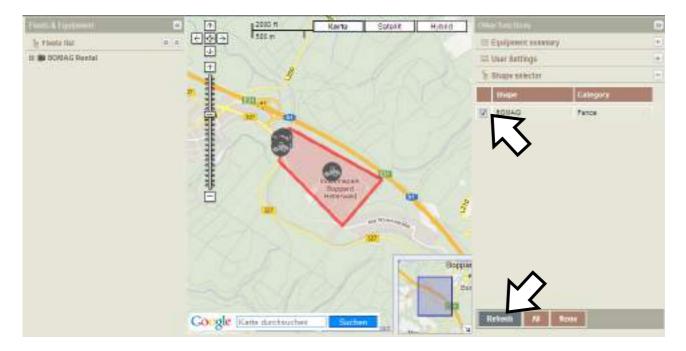
2.8 Show, hide & filter shapes

Depending on your access rights you can show and hide shape files linked with your "Vista" (see how to create and manage a "Vista" in "Administration→Vistas" and/or see how to create and manage "Shapes" in "Administration→Shape").

Show & hide shapes

• Open the "Shape selector" by clicking on the "+"- sign.

You will see the list of shapes available in your "Vista".



- To select/deselect one or more shapes from the list, tag the check box to the left of the shape name.
- Press the "Refresh" button.

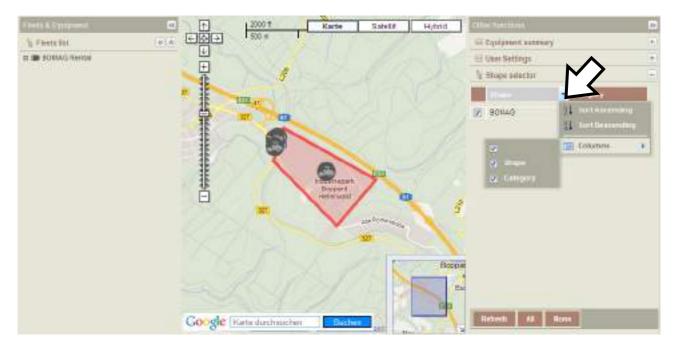
The map will immediately be updated with the shapes you selected/deselected.

• For quick selection/deselection, press the "All" button to see all shapes or press the "None" button to deselect all shapes.

Filter shapes

The "Shapes selector" may be filtered.

At A Glance



- Move the mouse pointer over to one of the column headings, then click the down arrow.
- Click with the left mouse button on "Columns".
- Select the columns you wish to view by tagging or untagging the corresponding check box.

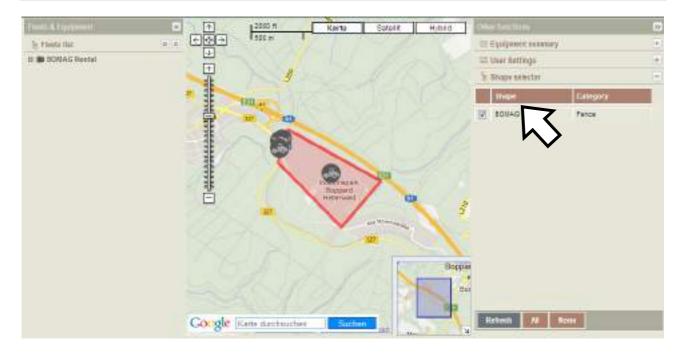
View a "GeoFence"

① Note

The device can manage up to 10 "GeoFences".

Each "GeoFence" behaves in accordance with each fence setting as defined by the Administrator in "Administration \rightarrow GeoFencing \rightarrow Create, Edit, Delete".

Fence breaks work when machines cross over the fence and alarms are only sent if the fence is set with a priority other than null.



• Double click on a shape in the shape list.

A shape will appear on the map.

3 History

3.1 Overview

The "History" screen is divided into 3 panels:



Search parameters	Date selector, equipment selector
Мар	The map showing the location and activity of your machines
Results	The shape selector lists all of the job site shapes and fences. (See "Administration \rightarrow Shape or Administration \rightarrow GeoFencing" for further information.)
	Results lists all the machine positions based on your search criteria.

3.2 How to show a track (Breadcrumb trail)

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T WY 154 10-4 AM - 52 1423	- :			BN 212 0H-4 - 06 10.	25/12/21	NA Erges DN	
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E 8W 263 8H.4 - 18 1270	王			BIN 213 DH-4 - 06 10	05/82/28	E Strepped sout	n
F BW 213 34L4 BVC - 16 1178 BW 213 31 - 16 1868	Ē	÷.		Page	oft	2 A 102	(\$100)
MY 80 AD 2 - 67 1913 MY 81 AD 2 - 67 1968 MY 81 AD 2 - 67 1968 104	Congle Fran		Sather	Details: Wate Location: 51 1875583. Equipment Status: DYP Execution: 05/01/2812 Speed: C DYS FM: 00 SPG Based Octometer	04-4 - 96 1888 1 64.84 29 PM	1/2012 04:04:29 PH	

- Select date and time period from the "Date selector".
- Select the machine from the "Equipment selector".
- Click the "Search" button.

The result is a path listed in the "Results" panel on the right side of the screen AND shown on the map with a sequence of little color coded squares; color coded squares represent the status the machine is in or was in at any given time, while switched ON (during the specified time period).

① Note

If no data is available for the query, a "No data with current parameters" message will be displayed.

The query can generate a large amount of data. This data will be listed on multiple pages in the "Results" panel. To view all history in the map for the entire selected date/time period, you must scroll through the pages.

By selecting a position in the "Results" panel, the corresponding position on the map appears as a bold printed, color coded square.

If an alarm has been received for a specific position in the path, the corresponding field "Description" (in the "Result" panel) shows the reason for the alarm.

3.3 History export

As soon as the result of a history search is available, the web page provides the possibility to export the positions list.

Results				>>
la Shape selec	tor		1	÷
🗟 Results				0
Equipment	Timestamp	Speed	Details	
BW 213 DH-4 - 0	6 10 05/01/20	3	0 Wake	
	CALCON IN CONTRACTO		A CARLES AND A C	BB

• Click on the "Export" button to export a file.

The exported file is a text file with the following parameter:

- Field separator: semicolon (";")
- Replacement character (every semicolon in a field is separated by this character): "|"
- Decimal separator: dot (".")
- Thousands separator: comma (",")

4 Reports

4.1 Export reports

Reports can be exported either as "PDF" or "MS Excel"® files.

Export as PDF

① Note

You must have a PDF reader installed on your computer to be able to view this report.



• Click on the "PDF" icon to export the report.

Export to MS Excel®

① Note

You must have MS Excel[®] installed on your computer to be able to export this report.

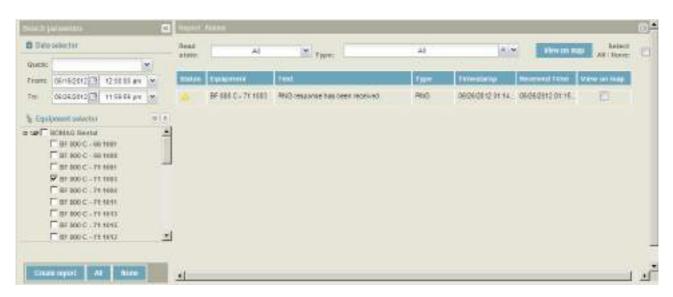
Read state:	All	Туре:	All	× v	View on m	ap All
Status	Equipment	Text	Туре	Timestamp	Received Time	View on map

• Click on the "Export" icon to download.

4.2 "Alarms" report

Report Overview

The "Alarms report" shows the status of "All", "Read" or "Unread" alarms received within a specified date and time period. See exemplary report below. To customize your reports please refer to the "How to filter a report" section.



Search parameters	"Date selector", "Equipment selector"
Report panel	"Report results", "Filter selection"

Report data

Status	"Read alarms", "Unread alarms"
Equipment	Machine designation
Text	Text sent about alarm
Туре	Type of alarm sent
Received time	Timestamp of when the alarm was received
View on map	View machine(s) in alarm on "Google® Maps'

How to change the alarm status from "Unread" to "Read"

• Click with the right mouse button on the "Unread" icon in the "Status" column and select "Mark as read". The "Unread" icon will change to the "Mark as read" icon.

How to filter a report

Read state:	All	~	Type:	Fence,Curfew,Maintenance	× ~	
	All			All	Jon and and	
	Unread			Not Set		
	Read			Fence		
				CAN		
				PING		
				Equipment not reporting		
				Curfew		
				Input		
				Motion Detection		
				SMS delivery error		
				Maintenance		

- Open the drop down menu of the "Read state" filter.
- Select "All", "Unread" or "Read".

Your selection will turn light blue and appear in the filter field.

- Open the drop down menu of the "Type" filter.
- Select "All" OR select each individual filter criterion required.

Your selection(s) will turn light blue and appear in the filter field.

• To deselect one or more of the selected criteria, click with the left mouse button a second time to deselect your selection.

Report: Alar	ms				
Read state:	All	~	Type:	Fence,Curfew,Maintenance	

- To deselect all criteria at once, click with the left mouse button on the "X".
- Close the drop down menu.

How to view machines in alarm status in the map

кероп.	Alarms			_	N		8
Read state:	All	туре:	All		View on n	Select All / None:	C
Status	Equipment	Text	Туре	Timestamp	Received Time	View on map	
	BF 800 C - 71 1003	PING response has been received.	PING	06/26/2012 01:14	06/26/2012 01		

- For each machine you wish to see on the map tag the check box in the "View on map" column.
- Click on the "View on map" button.
- To deselect machines in alarm status on the map, untag the corresponding check box in the "View on map" column.

Reports

Read state:	All	Туре:	All	×v	View on m	All / None:	
Status	Equipment	Text	Туре	Timestamp	Received Time	View on ma	7

- To view all machines in alarm status on the map tag the check box "Select All / None".
- Click on the "View on map" button.
- To deselect all machines in alarm status, untag the "Select All / None" check box.

4.3 "Engine hours" report

Report Overview

The "Engine hours" report shows up-to-date total engine hours for all machines in your fleet(s). See exemplary report below. To customize your reports refer to the "How to Filter a Report" section.

Regulation and	in and	Madel	150	Brighter Installer	Readout Title	Interaction Total	Arran	
NO PILTER	NO FILTER	· NO FILTER	 NO FILTER 	· NOFLITE	NO FLIP	NOPETER	FILTER OLD	1
RF 800 C - 66 9001	accesso .	INF NOL C	Pawar	3812	0621-120817-56-203	Edge 05-640	set engine hours	
6F 800 C - 66 1005	BOBAG	07 900 C	Panar	82.6	0638/12/01:45:12 PM	0000000	set engine hours	
EP' 600 C - F1 1001	BORRAD	BF 800 C	Point	051.4	WTT1005121100	15 days IESE200	est engine hours	
B* 800 C - 71 4005	BORING	BF 800 C	Pater	9402	0526/12/01 (6:22 FM	COLORIDA	Get engine travel	
BY 800 C - 71 1004	BOBAG	157 800	Poer	222.8	0052019210219211-008	11:50:01	set ingine hours	
BY 800 C - 71 1011	DOBING	0.000 MS	Paer	2864	0596/12/01:40:54 PM	00:00:00	set engine hours	
BF 160.0 - 71.1013	BORRA .	DF 1600 P	Potent	94.4	0626/1201.07-40 FM	003500	out any involvement	E.
9F 800 C - 71 1016	BORING	EF ADD C	Presar	16.5	06251211-01-20.001	138/122100	est engine houre	
er aco c - 71 1012	BORNES	EM BOD P	PONE	21.5	0000120135-0010	47-6165 3023-01	set engine hours.	
EM 300110 - 00 1004	BORNO	EM 000/10	Cohdploweet	1897.6	00023/12/10/28/40 AM	4-skyo 05/34/90	east angine hours	
BM 509/15-00.1006	BOBAG	1542 500/15	Coldplos ser	407.5	002381421130142240	02-0001	set englise hauss	
1101 00 - B1/0CC W5	HOBAG.	154 500°B	Goldplaneer	104.7	000011112454 AM	02.3800	set implicit hours	
CIN 200-15-00.1015	DOBNG	211000.005	Cohipkerse	222.4	0555-12 00:30:30 PM	17,49000	set engine hours	
00100-51/031030	ROBING	041300/15	Cold place sor	174.7	0636/1201-4811 FM	chichan	net angine toxate	
84 300/15- 00 1017	BORINO	EM 900/15	Coldplemaal	290	062012042646.PM	6daye 21.9680	ant original hours	×,

Report data

Engine hours	Total engine hours up to the last "Received time"
Received time	Last position timestamp received from the machines
Inactive time	Total time the machines were inactive (or in Off position) since the last "Received time".
Action	Set current engine hours

How to filter a report

The "Engine hours" report can be filtered using filter fields in each column (e.g. "Brand"):

Brand	Model	
NO FILTER 🛛 🔻	NO FILTER	•
BOMAG		
All		
ALL STREET		
BOINAG	DIVISORD	1

- Click the down arrow to the right of the "Brand" filter field.
- Select the "Brand" name(s) from the drop down menu by tagging the corresponding check box or click on the "All" button to select all "Brands".
- To deselect a "Brand" name, untag the corresponding check box.
- Click on the "Apply" button.

Filtered results immediately appear in the "Brand" column.

- Repeat the above steps for each additional filter you wish to set.
- To deselect all brand names click on the "None" button.

• Click on the "Close" button.

4.4 "Engine ON/OFF" report

Report overview

For the date and time period selected, the "Engine ON/OFF" report shows in graphical form how long each selected machine was ON, OFF or NOT AVAILABLE.

tunit pasaero 🛛 🕄 🗄	
C linte salectus	
Galet, Later Friege Image Prome: 24/15/2012 12/2012 12/2012 I 1n 10/202012 11/2010 In In 1n 10/202012 11/2010 In In 1n In/202012 11/2010 In In 1n In/202012 11/2010 In In 1n In/202012 11/2010 In In 1n In In In In In 1n In In In In In In 1n In In	EPORT: ENGINE ON OFF FROM: OFFSCORE 12:00:00 on - TO) OFFSCORE 11:00:00 gr OATE TOTAL HOURE NATE NATE NATE NATE NATE NATE NATE NA
Search parameters	"Date selector", "Equipment selector"
Details	Report results
Definitions	
OFF	Key in OFF position
ON	Key in ON position
NOT AVAILABLE	No data has been received over the chosen period
OUT OF RANGE	
RUN TIME	
How to run a report	

- Select the "Date" and "Time" period from the "Date selector" panel.
- Select machine(s) from the "Equipment selector" panel.
- Press "Create report" to create the report.

If no data is available for the query, a "No data with current parameters" message will be displayed.

How to export a report to PDF

① Note

You must have a PDF reader installed on your computer to be able to view this report.

• Click on the PDF icon to export the report.

4.5 "Maintenance" report

① Note

Please note that the system does not contain any BOMAG maintenance plans. To be able to use this feature you should create your own maintenance plans by referring to the maintenance instructions for your machine.

Report overview

The "Maintenance" report shows the maintenance status of every machine in your fleet in form of lines. To customize your reports refer to the section "How to filter a report".

The "Maintenance" report screen is divided into 2 panels:

Search parameters		Re	port: Maintenance					E
% Equipment selector	*		Overdue D	ue soon Inco	empliete In pr	ogness 📃 Not du	16	
= ₩ 7 Test TPS AM50-2 BobMcC - 1109 AM50-2 Ron 1109-48	- SN49		Equipment ID	Fleet	Status	Last se rvice	Next service	View on map Select All / None 🗖
AM50-2 Savage 63			AM50-2 BobMcC - 1109 - S	Test TPS	Overdue	06/02/2009	06/21/2009	
- HADD'L DUTUGO US			AM50-2 Ron 1109-48	Test TPS	Incomplete			
			AM50-2 Savage 63	Test TPS	Incomplete			
<u> </u>	<u> </u>	_						
Create report All	None	L	View on map					

Search parameters	Equipment selector
Report panel	Report results

Maintenance status legend

Red	Overdue	The next machine maintenance is overdue.
Yellow	Due soon	The machine is soon due for the next maintenance.
Blue	Incomplete	Maintenance has not been defined because initial maintenance setting is missing from the "Administration \rightarrow Maintenance \rightarrow Create, Edit, Delete" section.
Purple	In progress	Machine is "In progress" (being serviced).
Green	Not due	Machine maintenance is up-to-date. Service "Not due" yet.

How to create a report

Search parameters	~	Report: Maintenance							(
% Equipment selector	*	Overdue	Due soon	Inc	omplete	In pr	ogress 📃 Not du	le	
= ₩ Test TPS M AM50-2 BobMcC - 1109 AM50-2 Ron 1109-48	- SN49	Equipment ID	Fleet		Status		Last service	Next service	View on map Select All / None 🗖
AM50-2 Savage 63			2 Sort Ascending		Overdue		05/02/2009	06/21/2009	
-		AM50-2 Ron 1109-48			Incomplete				
			📰 Columns 🕨						
				Se	View on map elect All / None 🔲				
•	•								
Create report All	None	View on map							

- Filter the report by using the column header filters.
- Select machine(s) from the "Equipment selector" panel.
- Press "Create report".

How to update a maintenance status

This section shows you how to change the status of each machine for which maintenance is to be performed. Two status scenarios are shown below; "Overdue" and "Incomplete".

Scenario "Overdue"

Search parameters 🔍	Re	port: Maintenance					۵
% Equipment selector		Overdue D	ue soon Inco	ompliete 📃 in pro	ogress 📃 Not du	6	
= ₩ F Test TPS F AM50-2 BobMcC - 1109 - SN49 F AM50-2 Ron 1109-48		Equipment ID	Fleet	Status	Last service	Next service	View on map Select All / None 🔳
AM50-2 Savage 63		AM50-2 BobMcC - 1109 - S	Test TPS	Overdue	06/02/2009	06/21/2009	
		AM50-2 Ron 1109-48	Test TPS	Incomplete			
		AM50-2 Savage 63	Test TPS	Incomplete			
<u> </u>							
Create report All None		View on map					

- Create a report.
- Click on the "+" sign to the left of the Equipment ID name (machine name).

Search parameters	**	Report: Maintenan									
a Equipment selector	* *	Overdue	Due soon	Inc	omplete	In pr	ogress	Not du	e		
■ See Test TPS	- SN49	Equipment ID	Fleet		Status		Last service		Next service		View on map Select All / None 🗖
AM50-2 Ron 1109-48		AM50-2 BobMcC -	1109 - S Test TPS		Overdue		06/02/2009		06/21/2009		
		Туре		Status		Last serv	ice	Next ser	vice	Option L	ist
		Timing Test hours		Overdue		06/02/200	9	06/21/200	19	Option Li	st
		B AM50-2 Ron 1109-	48 Test TPS		Incomplete						
		B AM50-2 Savage 63	Test TPS		Incomplete						
d											

• Click on the "Options list" link and click on "New service".

Search parameters	-	Rep	ort: Maintenance									E
& Equipment selector	**	_	Overdue) ue saion	In	complete	In pre	igness	Not	lue		
= ₩ Test TPS AM50-2 BobMcC - 1109	- SN49		Equipment ID	Fleet		Status		Last se rvice		Next servi	:e	View on map Select All / None 🗖
♥ AM50-2 Ron 1109-48 ♥ AM50-2 Savage 63			AM50-2 BobMcC - 1109 - S	Test TPS		In progress		06/02/2009		06/21/2009		
			Туре	Status	Inte rval	Measurement u	Threshold I	ow Thresh	old medi La	st service	Next service	Option List
			Timing Test hours	In progress	3	Engine Hours	56	8	06	02/2009	8 engine hours at 06/21/2009 p	le Option List
		Э,	AM50-2 Ron 1109-48	Test TPS		Incomplete						
		•	AM50-2 Savage 63	Test TPS		Incomplete						
•	•											
Create report All	None	۷	liew on map									

The status will immediately change to "In progress" (purple).

• Once the service has been completed, click on the "Options link" and click on "Close service".

% Equipment selector		Overdue	D	ie saon	Incom	plete	In progress		Not due			
Test TPS AM50-2 BobMcC - 1109 - SN4 AM50-2 Ron 1109-48	9		F	Close service date:			×	vice			View on map Select All / None 🗖	
AMS0-2 Non 1109-48 AMS0-2 Savage 63	۲	AM50-2 BobMcC - 1109		07/13/2009				09	D6/21/2009)		
		Туре		Engine hours: 20.1		Cost [\$]:		eshold me	li Last service	Next service	Option List	
		Timing Test hours		Notes:					06/02/2009	8 engine hours at 06/21/2009 p	lle Option List	
		AM50-2 Ron 1109-48		Ök: Can cel								
		AM50-2 Savage 63		1836 11 A								

A window opens and displays a form to be completed.

- Enter the required data into the window:
 - Close service date: The system shows today's date as default date to close the maintenance, but the user can change this date to the actual date of service.

- Engine hours: The system shows the actual engine hours at the end of maintenance, but the user can update these to the actual hour meter reading at the time of service. This meter reading will reset the clock for the next service due.
- o Cost: Enter the total cost of service. (Example in numeric format: 70.50.).
- Notes: Notes that have been entered by the user at the start or end of service will be stored in the database.
- Press the "Ok" button.
- Confirm that the "Save" process has been completed by clicking on the "Ok" button.

The status will immediately change to "Not due" (green).

To enter initial maintenance information for machines with "Not defined" status:

Search parameters	~	Report: Maintenance					
% Equipment selector	* *	Overdue	Due soon	Incomplete	In progress	Not due	
Test TPS	- SN49	Equipment ID	Fleet	Status	Last service	Next service	View on map Select All / None 🗖
₩ AM50-2 Ron 1109-48 ₩ AM50-2 Savage 63		B AM50-2 Ron 1109-48	Test TPS	Incomplete			
		Туре		Status	Last service	Next service	Option List
		Ron Test 4		Not defined			Option List
		■ AM50-2 BobMcC - 1109 -	S Test TPS	In progress	05/02/2009	06/21/2009	
		 AM50-2 BobMcC - 1109 - AM50-2 Sarage 63 	S Test TPS Test TPS	In progress Incomplete	05/02/2009	06/21/2009	
1					05/02/2009	06/21/2019	

- Create a report.
- Click on the "+" sign to the left of the "Equipment ID" (machine name).
- Click with the left mouse button on the "Options list" link and click on "New service".
- Enter all required information.
- Press the "OK" button.
- Confirm "Save to database" by pressing the "OK" button.

Search parameters	-	Re	port: Maintenance									
% Equipment selector	* *		Overdue	Due soon	In	icomplete	ln pr	ogress	Not du	iē		
= wr Test TPS AM50-2 BobMcC - 1109	- SN49		Equipment ID	Fleet		Status		Last se rvice		Nextsen	vice	View on map Select All / None 🗖
AM50-2 Ron 1109-48			AM50-2 Ron 1109-48	Test TPS		Due soon		07/10/2009		07/10/200	9	
			Туре	Status	Inte rva	Measurement u	Threshold I	low Threshold n	nedi Last	service	Next service	Option List
			Ron Tiest 4	Do in 18 hours	2	Engine Hours	56	8	07/1	0/2009	2 engine hours at 07/10/2009	lle Option List
<u> </u>	•											
Create report All	None		View on map									

Note that the machine status has immediately changed to "Due soon" (yellow).

• To activate the start of service, click with the left mouse button on the "Options link" and click on "Active service".

Search parameters 🛛 🖾	R	eport Maintenance									5
% Equipment selector 🛛 😤 🛎		Overdue	Due	e saion 📃 Inco	mplete In pro	igne	ss 📃 No	oft due	9		
= w/ Test TPS AM50.2 BobMcC - 1109 - SN49 AM50.2 Ron 1109-48							st se rvice			38	View on map Select All / None 🔳
AMSD-2 Kon 1109-48	٦	AM50-2 Ron 1109-48	T	PITTE		×	0/2009		07/10/2009		
		Туре	St	Notes:			Threshold medi			Next service	Option List
		Ron Tiest 4	De				8	017/10	/2009	2 engine hours at 07/10/2009 p	le Option List
				Ok Cancel			J				
K											
Create report All None											

• Enter any notes you wish to add and press the "OK" button. Note that the machine status has immediately changed to "In progress" (purple).

Search parameters	-						E
% Equipment selector	* *	Overdue	Due soon 📃 Ir	icomplete 📃 in pr	ogress 📃 Not du	18	
= See Test TPS AM50-2 BobMcC - 1109 AM50-2 Ron 1109-48	- SN49	Equipment ID					View on map Select All / None 📕
AMSD-2 Savage 63		AM50-2 Ron 1109-48	Test TPS	in progress	07/10/2009	07/10/2009	
		Туре	Status Ok	Management of Threet old	low Threshold medi Last	i service Next service	Option List
		Ron Tiest 4	In community	ss complietely successfully.	8 017/1	0/2009 2 engine hours at 07/10/2009 p	lle Option List
				ок			
<u> </u>	•						
Create report All	None						

• Press the "OK" button to confirm the "Save" process.

How to view machines on the map

Search parameters	~	Report: Maintenance					8
	* *	Overdue E	lue soon Inco	omplete In pro	ogress Not du	е	
■ Several Test TPS AM50-2 BobMcC - 1109 AM50-2 Ron 1109-48	SN49	Equipment ID	Fleet	Status	Last service		View on map Select All / None 🗔
AM50-2 Kon 1109-46		B AM50-2 BobMcC - 1109 - S	Test TPS	Overdue	06/02/2009	06/21/2009	
		AM50-2 Ron 1109-48	Test TPS	Incomplete			
		B AM50-2 Savage 63	Test TPS	Incomplete			
	J.						
Create report All I	None	View on map					

- To view all machines in a fleet or in fleets, tag the check box to the right of "Select All / None".
- To deselect all machines, untag the check box again.
- To view one or more machines in a fleet, select each machine by tagging the check box in the "View on map" column.

Reports

- To deselect, untag the checkbox in the "View on map" column.
- Press the "View on map" button.

Example of a map showing machines in a fleet



• Press the "Close" button to exit the map.

4.6 "Maintenance Notes/History" report

Report overview

The "Maintenance Notes/History" report shows all notes entered under "Administration \rightarrow Devices, Administration \rightarrow Equipment, Administration \rightarrow Maintenance", etc.

Date selector	Equipment ID	Type:	Engine hours	Service date	Activation user	Activistion notes	Active service date	Closure user	Closure notes	Close service date
Buick: Last month	ANSO-2 BobMc	service	97.74	05/21/09	Sanger	Test for User Manua.	08/21/09	Sanger	Test for User Manua.	08/21/09
From: 08/01/2009 3 12:00:00 am	AM50-2 BobMc	service	97.74	05/21/09	Sanger	Test for User Manua	05/21/09	Sanger	Test for User Manua	08/21/09
o: 08/31/2009 3 11 59 59 pm 👻	AM50-2 BobMc	service	194.74	05/21/09	Sanger	Test for User Manua.	05/21/09	Sanger	Test for User Manua.	05/21/09
er ogsårsone i 11.56.56 bei -	AMSG-2 BobMc	service	97.74	05/21/09	Sanger	Test for manual - nms	05/21/09	Sanger	Test close for manu	05/21/09
Equipment selector	AM50-2 RonL	4 Hour Test	128.30	06/16/09	Ludchak		05/19/09	Ludchak		08/19/09
Arizona 1	AM50-2 RonL	4 Hour Test	125.20	05/15/09	Ludchak		08/19/09	Ludchak		06/19/09
F Team Excevating	AM50-2 Ront	General map	125.20	05/17/09	Ludchak		05/19/09	Ludchak		05/19/09
PT Test TPS	AMSO-2 RonL	General insp	130.56	05/21/09	Sanger		05/21/09	Sanger	Test for User Quide	05/21/09
P AM50-2 BobMcC - 1109 - 5840 P AM50-2 Dick 5 - 63	AM50-2 Ronk -	General insp	129.27	05/19/09	Ludchak	Started Test Service	06/20/09	Ludchak	Test Completed	08/20/09
	AMSO-2 RonL -	Oilservice	101.10	05/10/09	Ludcheit	Test	05/10/09	Ludchak.		08/19/09
F AM50-2 RonL - 1109 - 48	AM50-2 RonL	Oliservice	122.81	06/20/09	Ludchak		08/18/09			05/19/09
U.S.A Job site Illinois	AM50-2 RonL -	Oliservice	102.31	00/10/09	Ludchak		05/11/09	Ludchak		06/19/09
	AM50-2 RonL	Oil service	122.81	05/17/09	Ludchak		05/18/09	Ludchak		05/19/09
	AM50-2 Ronk	Oliservice	123.20	05/15/09	Ludchak		05/19/09	Ludchak		06/19/09
	AMS0-2 DickS -	Of service	319.60	05/10/09	Savage	Test	07/20/09	Ludchak		08/11/09
	AMSO-2 DickS -	OFservice	200.00	05/25/09	Savage	Done Test 2	08/28/09	Savage	Done Test 2	08/28/09
	AM50-2 Dick5 -	Oliservice	205.00	05/28/09	Savage	Activation Test.	08/25/09	Savage	All done test.	08/28/09
2	AM50-2 DickS -	service	200.00	05/27/09	Sevepe		06/25/09	Savage		08/28/09
	AM50-2 DickS -	service	200.00	05/25/09	Savage	Done Test 1	05/26/09	Savage.		05/25/09

Search parameters "I	Date selector", "Equipment selector"
----------------------	--------------------------------------

Report panel Report results

How to create a report

- Select the "Date" and "Time" period from the "Date selector" panel.
- Select machine(s) from the "Equipment selector" panel.
- Click "Create report" to create the "Maintenance notes/history" report.

Note

If no data is available for the query, a "No data with current parameters" message will be displayed.

How to export a report to MS Excel®

① Note

You must have MS Excel[®] installed on your computer to export this report. Click on the "Export" icon to download.

• Click on the "Export" icon to download.

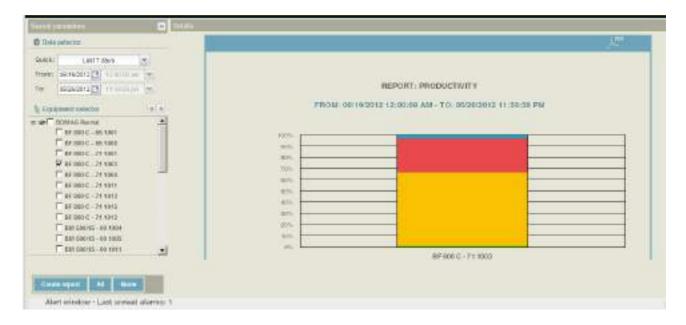
4.7 "Productivity" report

Report overview

① Note

The difference between the "Productivity" report and the "Activity" report is the fact that the "Productivity" report only shows the working status of machines, whereas the "Activity" report shows the working status and OFF status of machines.

The "Productivity" report shows in graphical form and in percent how much time each selected machine has spent in each status over the time period selected.



Search parameters	"Date selector", "Equipment selector"

Details Report results (see exemplary report below).

How to create a report

- Select the "Date" and "Time" period from the "Date selector" panel.
- Select machine(s) from the "Equipment selector" panel.
- Click on "Create report".

① Note

If no data is available for the query, a "No data with current parameters" message will be displayed.

How to export a report to PDF

① Note

You must have a PDF reader installed on your computer to be able to view this report.

• Click on the PDF icon to export the report.

4.8 "Equipment Utilization" report

Report overview

The "Equipment Utilization" report shows how much time each selected machine was ON, OFF or NOT AVAILABLE in form of lines for the chosen date and time period. See exemplary report below.

NAME AND A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTIONO		f g g ment	Bard	Monteri	1000	10 Million Cont
11 20202012 1 12 00 00 am		BF 808 C - 71 1883 BW 213 DH-4 EVC - 16 1175 BW 154 AF-4 AK-10 2041 MM1 125 - 25 1854	BOWAG BOWAG BOWAG BOWAG	97.500 C 593 213 244 5VC 593 154454 400 094 125	Pandri Singa Drum Rolan Tamberi Rolan Moly (dri	57 x 28 + 20 x 10 + 5 x 17 m 2 x 30 h
ENV 000019-1071001 ENV 000019-1071021 ENV 000019-001022 ENV 000019-001022 ENV 000019-001022 ENV 000019-001022 ENV 000019-001022 ENV 000019-010100 ENV 100 AD-4 -001007 ENV 100 AD-4 -00100	F					
P. DIVATES IN THE CHILDREN						

Justines the 2 tears (y) lised more than 30 Hours (D Date autoriter • Marches Galeki 8 24 8F880 C-71 1083 57 h 35 m Freene | 00/18/2010 12 12 03 00 mm -3F 800 C Favel 810 213 01-4 5VG - 15 1176 14 BW 213 DH-4 590 Single Druini Apher 20 m 10 m 000000012 T 11:00:00 pm 🐲 Tix. BUI 154 AD-4 AM- 88 2841 ****** Tandent Roller 6n.17m Columna . . 11/3 HPH 125 - 20 1064 211.00.11 Recycles by Equipment autocov ["" HAT 600/10- 80 1018 -T BH 80075 - 80 1021 T 810 600/15- 80 1022 T BHI SOUTS - 80 1027 T ISU \$00115-80 1025 1000 OF - 51/000 III T mil-170 All-4 - 10 4577 1 BUR 154 AU-4 AN - 52 1083 P 88 154 AF-4 AN -50 2011 T DI2 1/4 AF-4 AN - T0 1118 T BU 213 0H-4 - 06 1885 T mir 213 88-4 - 14 1375 P mit 210.0H-4 SVC - 15 1178 -Page I of 1 Casale report: NI Rate 1400

How to create a report

Reports panel

Filter the report by using the column header filters.

Report results

Reports

- Select the "Date" and "Time" period from the "Date selector" panel.
- Select machine(s) from the "Equipment selector" panel
- Click on "Create report".

① Note

If no data is available for the query, a "No data with current parameters" message will be displayed.

How to modify values

In Note

Modify values before creating a report.

Report: Equipment Ut	ilization					
Used less than	2	Hours	Used more than	30	Hours	

- Untag the check box "Used less than" and/or "Used more than".
- Enter the new value in the corresponding input field.
- Create the report.

How to export a report to MS Excel®

① Note

You must have MS Excel® installed on your computer to be able to export this report.

• Click on the "Export" icon to export the report.

4.9 "Fuel Consumption" report

① Note

The "Fuel consumption" report is only available if you are using the CANbus profile with the "Engine fuel rate" activated for reports, transmitted by the machine (works only with BOMAG TELEMATIC POWER).

Report overview

The "Fuel consumption" report shows gallons or liters of fuel used by each selected machine per hour, in graphical form for the chosen date and time period.

D Date	wieter		
Dalek			
Prosts.	06/19/2012 3 12:00:00 am	*	
tπ	08/28/2012 13 11:58:58 pm	*	
i Emi	internet and sectors	(8.8)	REPORT: FUEL CONSUMPTION
~~	COULAG Rumbul T br 200 C . 46 1001 T br 200 C . 46 1001 T br 200 C . 46 1000 T br 200 C . 71 1001 T br 200 C . 71 1004 T br 200 C . 71 1011 Br 200 C . 71 1011 Br 200 C . 71 1011 T br 200 C . 71 1011 T br 200 C . 71 1012 T br 200 C . 71 1012 T br 200 C . 71 1012		FROM: 06/19/2012 12:00:00 AM - TO: 06/26/2012 11:09:59 FM
	T 802 500/15 - K0 1065 T 802 500/15 - 68 1011	4	REPORT: FUEL BURNED
	v opact AT None		FROM: 06/19/2012 12:00:00 AM - TO: 06/26/2012 11:59:55 PM

Search parameters "

"Date selector", "Equipment selector"

Report panel

Report results.

How to create a report

- Select the "Date" and "Time" period from the "Date selector" panel.
- Select machine(s) from the "Equipment selector" panel.
- Click on "Create report".

① Note

If no data is available for the query, a "No data with current parameters" message will be displayed.

How to export a report to PDF

O Note

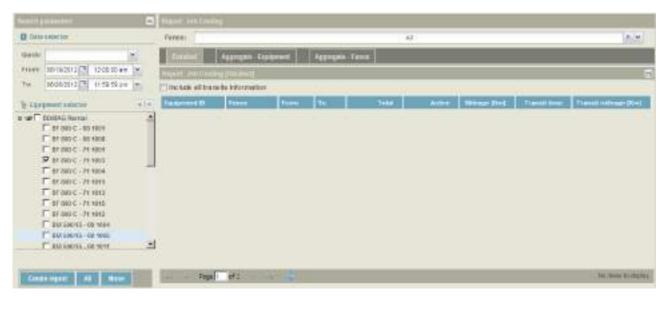
You must have a PDF reader installed on your computer to be able to view this report.

• Click on the PDF icon to export the report.

4.10 "Job Costing" report

Report overview

This report feature contains 3 separate reports: "Detailed", "Aggregate - Equipment", and "Aggregate - Fence". These reports have been designed to enable the user to monitor all machine activities on a jobsite, and to create reports that help maximize productivity, minimize cost and track job costing expenses in a timely and efficient manner.



Search parameters	"Date selector", "Equipment selector"
Report panel	Report results

"Detailed" report

This report, in form of lines, provides detailed information about every working session performed by each chosen machine (or groups of machines), in each chosen fence, between the entry and exit date and time within the period you selected.

Fence:				Å	dl.			××
Detailed	Aggregate - E	quipment	Aggregate - I	Fence				
Report: Job Cos	ting [Detailed]							E
🗌 Include all tra	insits informatio	n						
Equipment ID	Fence	From	To	Total	Active	Mileage [Km]	Transit time	Transit mileage [Km]

Report data

Equipment ID	Machine designations
Fence	Designation of "GeoFence"
From	When selected machines have entered the fence
То	When selected machines have exited the fence

Total	Total time the selected machines were present in the fence
Active	The total time selected machines were in idle, long idle, working, and/or high workload status
Mileage (km)	Total miles or kilometers driven
Transit time	
Transit mileage (km)	

"Aggregate - equipment" report

This report, in line format, provides detailed information about each selected working machine (or groups of machines), in each fence, between the entering and exit date and within the time period you selected. Every row lists a different machine with all related aggregate results.

Report: Job Cos	ting						
Fence:			All				××
Detailed	Aggregate - Equip	ment Aggregate - I	Fence				
Report: Job Cos	sting (Aggregate - Equ	ipment]					8
Equipment ID		Fence	Count	Total	Active	Mileage [Km]	

Report data

Equipment ID	Machine designations
Fence	Designation of "GeoFence"
Count	
Total	Total time the selected machines were inside the fence
Active	The total time the selected machines were in idle, long idle, working, and/or high workload status
Mileage (km)	Total miles or kilometers driven

"Aggregate - Fence" report

This report lists information about each working machine (or group of machines) in a specific fence (selected from the "Fence" filter), between entering and exit date, and within the time period you selected. Every line lists a different fence and all related aggregate results.

Reports

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Report data

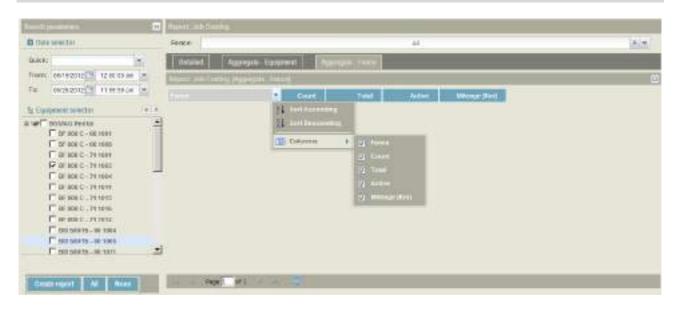
Fence name	Designation of "GeoFence"
Count	Number of times the selected machines have entered the fence
Total	Total time the selected machines spent inside the fence
Active	The total time the selected machines were in idle, long idle, working, and/or high workload status
Mileage (km)	Total miles or kilometers driven

How to create a report

① Note

62

Before a "Job Costing" report can be created, a "GeoFence" must be set up (using the "Administration \rightarrow GeoFencing" section) and assigned to the machines. In order to track all data needed for "Job Costing", machines must be started and then enter and exit the "GeoFence".



BOMAG

- Filter the report by using the column header filters.
- Select the "Date" and "Time" period from the "Date selector" panel.
- Select machine(s) from the "Equipment selector" panel.
- Select fences from the drop down menu "Fences" by clicking on each fence name you wish to include in your report. You can make single or multiple selections.
- Click the down arrow to return to the full screen.
- Select the report you wish to create by clicking on the tab: "Details, Aggregate Equipment", or "Aggregate - Fence" (in upper middle of your screen).
- Click on "Create Report".

① Note

If no data is available for the query, a "No data with current parameters" message will be displayed.

How to export a report to MS Excel®

O Note

You must have MS Excel® installed on your computer to be able to export this report.

• Click on the "Export" button to export the report.

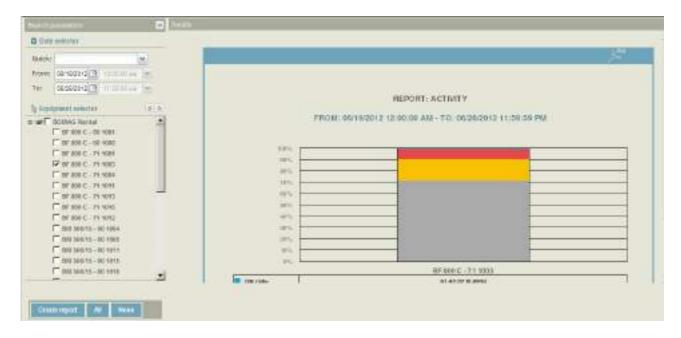
4.11 "Activity" report

① Note

The difference between the "Productivity" report and the "Activity" report is the fact that the "Productivity" report only shows the working status of machines, whereas the "Activity" report shows both the working status and the OFF status of machines.

Report overview

The "Activity" report shows in graphical form how long each selected machine was in the corresponding status.



Search parameters "Date selector", "Equipment selector"

Report panel Report results

How to create a report

- Select the "Date" and "Time" period from the "Date selector" panel
- Select machine(s) from the "Equipment selector" panel
- Click on "Create Report".

① Note

If no data is available for the query, a "No data with current parameters" message will be displayed.

How to export a report to PDF

① Note

You must have a PDF reader installed on your computer to be able to view this report.

• Click on the PDF icon to export the report.

4.12 "Idle vs. Work" report

Report overview

The "Idle vs. Work" report in form of lines informs about the time each machine was idling vs. working. Refer to the "How to filter a report" section to customize your report.

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OCCC212 1111 50 cm Execution Execution										

Search parameters	"Date selector", "Equipment selector"
Report	Report results (see exemplary report below).

Report data

Equipment	Machine designations
Fleet	Fleet designation
Brand	Brand of machines
Model	Model number of machines
Туре	Type of machine
Short Idle time	Machine ON but in idle status, depending on the "Idle time threshold" as defined in the status profile used
Long Idle time	Machine ON but exceeding the "Idle time threshold" as defined in the status profile used.
Total Idle time	The total time a machine was ON.
Moving / Working time	Machine ON but is exceeding "Idle time threshold" as defined in the status profile.

How to filter a report

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• Filter the report by using the column header filters.

How to create a report

- Select the "Date" and "Time" period from the "Date selector" panel
- Select machine(s) from the "Equipment selector" panel
- Click on "Create report" to create the report

① Note

If no data is available for the query, a "No data with current parameters" message will be displayed.

How to export a report to MS Excel®

① Note

You must have MS Excel® installed on your computer to be able to export this report.

• To download, click on the "Export" button.

4.13 "CANbus data" report

Report overview

The CANbus data report in line form shows all data collected from the CANbus of selected machine(s) for the date and time period selected.

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		•					1	<u>±</u>			

Search parameters	"Date selector", "Equipment selector"
Report	Report results
Report data selection	Select report data

Report data

- Engine coolant temperature
- Engine fuel rate usage
- Engine hours
- Engine oil pressure
- Engine percent load at current speed
- Engine speed

How to create a report

- Select the "Date" and "Time" period from the "Date selector" panel
- Select machine(s) from the "Equipment selector" panel
- Click on "Search" to list the CANbus parameters with available data covering the search period.

① Note

If no data is available for the query, a "No data with current parameters" message will be displayed.

• Select the parameters you would like to view in the right panel.

Reports

How to export a report to MS Excel®

① Note

You must have MS Excel[®] installed on your computer to be able to export this report.

• Click on the "Export" button to download.

4.14 "Input/Output" report

Report overview

For the chosen date and time period, the "Input/Output report" in graphical form informs about the duration of digital input and counter readings for selected machines. This reporting feature contains 2 separate reports: "Detailed" and "Aggregate".

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Search parameters "Date selector", "Equipment selector"

Report

Report results

Report "Detailed"

This report, in form of line and in graphical format, provides detailed information about every working session spent by each selected machine (or groups of machines).

Dealert Aggright				_					
Engine an anno 100 a maine	Deption	llegition	Dej e graven	BOTH IC	Dig Liverie	Big 1 on	Dig Lam	Dig Tigraphie	Bgran

Report data

Equipment	Machine designation(s)
From	When selected machines have entered the fence
То	When selected machines have exited the fence
Engine on time	Total engine hours while on
Dig0 on	Total time and percentage that Input0 was On
Dig0 off	Total time and percentage that Input0 was Off
Dig0 graphic	Graphical information showing how much time the input was on (dark blue) and off (light blue)
Dig0 n. tr	Total number of changes between Off and On

Reports

① Note

If Dig1 has been configured, the same information will be reported.

"Aggregate" report

This report, in form of lines and in graphical format, provides a single line summary for every working session of each selected machine (or groups of machines).

Search parameters	<u>«</u>	Detailed	Aggregate							
Date selector		Report: 1/0	Report: I/O							
Quick:	~	Equipment	Engine on time 🔺	Dig 1 name	Dig 1 on	Dig 1 off	Dig 1 graphic	Dig 1 n. tr.		
From: 06/19/2012 12:00	:00.am 🚩	BM 500/15	12:23:45	Milling On	04:22:24 [21%]	08:01:21 [79%]		107		

Report data

Equipment	Machine designations
Engine on time	Total engine hours while on
Dig0 on	Total time and percentage that Input0 was On
Dig0 off	Total time and percentage that Input0 was Off
Dig0 graphic	Graphical information showing how much time the input was on (dark blue) and off (light blue)
Dig0 n. tr	Total number of changes between Off and On

① Note

If Dig1 has been configured, the same information will be reported

How to create a report

- Select a report type by clicking on either the "Detailed" tab or "Aggregate" tab.
- Select the date and time period from the "Date selector" panel.
- Select machine(s) from the "Equipment selector" panel.
- Click on "Create report".

How to export a report to MS Excel®

O Note

You must have MS Excel® installed on your computer to be able to export this report.

• Click on the "Export" button to download.

5 Administration

5.1 Administration - Users

① Note

You must have administrator rights to create or modify user settings.

Overview

Items list				**	Details	
Users					Surname:	Vīstas
Add Re	Add Remove				Mustermann	A Name
Surname	Name	Login	Role	Vista	Name: Max	BOMAG_REN
Mustermann	Max	max.musterm	CON COMMON	BOMAG_REN	Login:	
					max.mustermann	
					Password:	

					Change Password	
					Office phone number:	
					Expiration date	Select all Select none
					12/31/2050	
					Role:	Email address:
					Administrators	×
					Language:	Visible in
						notification list
					User Settings:	•
					international	
					Save Undo	

Items list	The panel shows current users, their access right level (Group)
	and the "Vista" they have been assigned to.
	The "Add" button is located near the top of the panel.
Details	This is where you will create, update or modify details about each user's access right level.

How to add a new user

Items list				«	Details	
Users Add Re	move				Surname: Mustermann	Vistas
Surnar	Vame	Login	Role	Vista	Name: Max	BOMAG_REN
Mustermann	Max	max.musterm	Administrators	BOMAG_REN	Login: max.mustermann Password: Change Password Office phone number:	
					Expiration date 12/31/2050 Role: Administrators	Select all Select none Email address:
					Language: English User Settings: International Save Undo	Visible in notification list

• Press the "Add" button.

A new line will be inserted at the top of the "Users list" (highlighted in a light blue).

• Add the following information in the "Details" panel:

Surname	User's last name
Name	User's first name
Login ID	To create a user's login, enter the name followed by a dot and the family name.
	Example: John Brown = john.brown
Password	Passwords are case sensitive
	Suggested minimum number of characters is 8
	System's maximum number of characters is 100
	• All alphabetic and numerical characters as well as symbols such as !, @, #, etc., are accepted
	Blank spaces are not accepted
Language	Select from the drop down menu
User settings	Select from the drop down menu
Office phone number	
Expiration date	Select date from drop down calendar
Vista	Select a Vista from the drop down menu to assign to the user.

Visible in Tag the check box if you want the user to appear in the "Items list". notification list



Email address

- Press the "Edit" icon button.
- In the popup edit box, enter the Email address.
- Press "OK".



- To erase information entered or selected from drop down menus, click on the "Undo" button (before saving).
- Click on "Save".
- Click on "OK" in the popup screen to confirm completion of the save process.

Email verification

① Note

You must not have administrator access rights to verify your e-mail address.

A verification e-mail is sent to the user which has been created above.

• Follow the instructions in the e-mail to verify your e-mail address in BOMAG TELEMATIC.

Dear Customer,

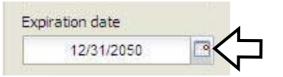
Thank you for registering your e-mail address in the BOMAG TELEMATIC System.

Your verification code is: 15858 Follow these steps to confirm your e-mail address:

- 1 Log into BOMAG TELEMATIC web (http://www.bomag.com/telematic).
- 2 Under Administration, click on Users Settings.
- 3 Select your User from the User list on the left.
- 4 In the details section on the right, click on the Red X box near to the e-mail address field.
- 5 Enter the verification code.
- 6 Click the Ok button.

The BOMAG TELEMATIC Team

How to deactivate a "User Profile"



- Select the user from the "Items list".
- Change the date in the field "Expiration date" to the date you wish the user account to be deactivated (any date from 'today" onwards).
- Click on "Save"

How to change a password

		 	0.00.00	 0.00.00
	Second second second second second second			 -

- Select the user from the "Items list".
- Click on the "Change Password" button in the "Details" panel.
- Enter the new password and click on "OK".
- Click on "Save".

5.2 Administration - Vistas

① Note

You must have administrator access rights to create or modify a Vista.

Overview

A "Vista" groups machines of different fleets or companies, which are visible in the BOMAG TELEMATIC (e.g. all machines of the same machine type).

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	Second Property in the second s	
		1

How to add or remove a "Vista"

• Click on "Add" or "Delete" in the "Items list" to add / remove a "Vista".

After you have clicked on the "Add" button, the following picture appears:

Please sele	ct the parent	vista for the new vista
	BOMAG_F	
Select	Cancel	•

- Open the drop-down menu and select the parent "Vista" for the new "Vista".
- Click on "Select".

Details					
Name:					Fleets
			BOMAG_RE	INTAL	A Name
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- Insert the "Vista" name
- Select the fleet(s) visible by this "Vista".
- Click on "Save".

5.3 Administration - Equipment

① Note

You must have administrator access rights to create or modify an Equipment profile.

Overview

• In this section the administrator can create a profile for each machine in his fleet.

PF 80.0	(ulpanor)					Equatorial 20:	Brand
FF 800 C+- S01443 S01443 S01440 Poler SF 880 0 617,558 SF 880 C+- S01443 S01440 Poler SF 880 0 617,558 SF 880 C+- S01443 S01440 Poler SF 880 0 617,558 SF 880 C+- S01445 S01445 Poler SF 880 0 617,558 SF 880 C+- S01445 S01445 Poler SF 880 0 617,558 SF 800 C+- S0145 S0145 Poler SF 880 0 617,558 SF 800 C+- S0145 S0145 Poler SF 800 C 617,558 SF 800 C+- S0145 S0145 Poler SF 800 C 617,558 SF 800 C+ S0145 S0146 Galerianne S158175 617,1591 S158175 S17,1591 S158175 S17,1591 S158175 S17,1591 S158175 S17,1591 S158175 S17,1591 S181817 S17,1591	bourten. Deut	Bont.	Depe	Unne	And a state of the local division of the loc	BF 868 0 - 71 1012	BONAG *
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NY 51 AD., 50 KAO 30 KAO 74 SEY KORE 5/ 15 AD 117,1100 NEW 122-2, 50 KAO 80 KAO Ratios Ceta, 100 123-2 (17,1575	HW 213 DL _ BOM 43	EOMAG	Single Drain	BV 218 0H-4	817-2672		1000000000
	BY ERAD SOMAD	SOMAD	Tansen Roter	BIV BR AD	\$17-1700		Drgine Servi:
MPH 125 - SOMAG SOMAG Resycler IIPH 125 617-2573 Potest	UPH 122-2 BOMAG	20140	Return Comp.	IPH 122-2	617-1676		
	IPH 125 BOMAG	EDMAG	Resycle/	IIPH 125	617-2573		P/o Selic

Items list	The panel shows a list of existing machines which have already been set up.
	The number in the "Device" column is the number of the TELEMATIC module.
Details	Here you enter (and edit) information about each machine in your fleet. You can display detailed data for individual machines by clicking on any machine in the "Items list"

How to create an equipment profile

Concernant of the second	-	100 F L			100	Equipment 2
Bygetters., Please	homit.	Type	Hone	Sec. 1		9
9F 810 C+ BOWAS	BOWNO	Paver	B7 888 P	617-1598		Piede:
8F 800 C BOM 43	BOMAG	Faver	9F 888 C	617-2558		117-1000
9F 800 0 + BOW40	BOMAG	Paver .	BF 881 C	(17-1849		Machine eet
97 600 C+ 50MAD	BOMAD	Paver	BT 585.0	017-2001		
97 800 C+ BOMAG	BOMAG	Faver	81,000 C	617-2850		Ties Zonei
1*800 E + 809/AG	BONAG	Davar	81 888	817-2812		ofMT-01:0
9" 000 C+ BOMAG	SDNAG	Pavet	Rf 888 C	117-2855		Vest of you
P 000 C+ BOWAG	SDMAG	Paver	37.000 P	017-1518		
1 800 C+ 80MAG	BOMAG	Rever	BT 888 C	617-1757		
BY SULVIS BORAG	BUNAG	Cald planner	BH 543715	817-1800		Plat vo
CAVOR 2P/082 10	BOMAO	Call planner	BH 553/45	617-1792		VICAND
68 E80/15 80V49	80849	Call states	Bit E80/1E	617-1784		
er BROME BOWAD	BOMAG	Call plamer	89 58815	617.1907		
BI EBOHE BOWAD	30940	Call planer	811588/15	617-1918		12 Engl
H 500/15 BOM49	90MA0	Coll plainer	B16 53 1/15	617-1991		famiCA
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01 580/15 50M40	CANOS:	Cell sisino	01/100/10	617-1681		Last up PM
REERVIE _ BOWAG	3004G	Calif planner	BH 505/15	117.1005		
10 100/15 . SDMAG	BOMAG	Cold planner	517 520/15	617-2441		Engine to
SAVIDE	BOWAG	Cold planner	BR 300/15	617-2439		
61 880/15 BOMAG	BOMAG	Colt planner	8/1400/15	617-1903		and in
W 120 A BOMAG	BOWAG	Tarden Roler	51V 121 AD-4	617-1772		-
W 154 A. BOWAG	BDMAG	Tarcen Roler	BN 15+ AD-4	617-2546		GPS Sam
WINAR GOUND	BOMAG	Tandam Roller	BA IGAAR-	617-1791		UP-3 Date
NV 174 AF BOMAS	30140	Tangers Roley	80-1744P.4	817.2555		1000
W 210 DH BOW40	80448	Single Dram	BW 212 DH-4	617.1769		110
WV 213 DH BOW 43	BOMAG	Single Drum	8/V 210 DH-#	817.1781		
W 218 DH . BOW49	90440	Single Drum	8/1210 DH-4	817.1774		
W 213 DL _ BOM 43	EOMAG	Single Draim	BV 215 0H-4.	817-2572		
NY ERAD SOMAD	SOMAD	Tansen Roter	BIV BR AD	617-1760		
IPH 122-2 . EDMAG	#0M4Q	Return Comp.	IPH 122-2	\$17-1878		
IPH 125 BOMAG	EDMAG	Ret/de/	IIPH 125	617-2573		



- Select the machine from the "Items list".
- Add the following information in the "Details" panel:

Equipment ID	This is the name that you assign to the machine in your fleet. The name will be used throughout the application
Plate:	The license plate number of your machine
Machine Serial Number	The machine serial number
Fleets	The name of the fleet this machine belongs to
Time Zone	Insert the time zone of the area where your machine is used, so that any alarms will be stamped with the correct time zone.
	The "Time Zone" (local time) you select will be used throughout the application

	(e.g. "At a glance", "Ping", "History", "Reports", etc.)
Year of manufacter	Year of manufacture of the machine
Not visible	You can optionally hide this in the fleet list.
	Selected = hide
	Deselected = display
CANbus present	The "CANbus present" check box is used to note whether CANbus is present on an AM50 device and whether this is SAE J1939 compliant (only available with BOMAG TELEMATIC POWER).
Engine hours from CANbus	The machine engine hours transmitted via CANbus.
Last update	Last update regarding GPS odometer and engine hours received from the device. You can manually set this value with the edit button.
Engine hours	A field where you can change the operating hours of the engine.
GPS based odometer	The GPS based odometer is automatically updated by GPS. Should this value be disaligned (i.e. GPS signal missing), you can set it up manually by clicking on the "Set" button.
	Please consider that the value received from the GPS odometer is less accurate than the value provided by the odometer of the machine.
Brand	The brand of machine (e.g. BOMAG).
Туре	The type of machine (e.g. tandem roller).
Model	The model of the machine (e.g. BW 174 AP-4).
Engine Model	The model of the machine's engine.
Engine Brand	The brand of the machine's engine.
Engine Serial	The serial number of the machine's engine.

Save Undo

- Click on "Undo" to clear all fields and selections.
- Click on "Save".

The "Equipment profile" information appears in the "Items list".

How to filter data

quipment					
Equipmen	Fleet 🔺	Brand	Туре	Model	Device
BF 800 C	BOMAG	Sort Asc	A Sort Ascending		617-2556
BF 800 C	BOMAG	'∰ Sort Des		BF 800 C	617-2581
BF 800 C	BOMAG				617-1596
BF 800 C	BOMAG			BF 800 C	617-1649
BF 800 C	BOMAG	Filters		>	0
BF 800 C	BOMAG	BOMAG	Paver	BF 800	617-2812

• Filter the "Items list" by using the column header filters.

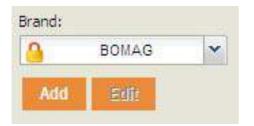
Example: You have multiple fleets and wish to see all data for the fleet named "BOMAG":

• Enter the first two or three characters of the fleet name in the input field.

The "Items list" will immediately fill up, only with the machines from the "BOMAG" fleet.

How to add a new brand, type or model

If the brand, type and/or model of a machine you are looking for cannot be found in the list, you can add it to the drop down menu in the "Details" panel.



Using "Brand:" as an example:

- Select the machine you wish to add the new brand for from the "Items list"
- Click on the "Add" button for "Brand" in the "Details" panel.

Equipment ID:	Brand:
BF 800 C - 71 1012	
Plate:	
617-1596 - AM50 Rev2 - 4010 - 374	Save Undo
Machine serial number:	Jave Oliuo
821 837 71 1012	Fleets
Time Zone:	A Name
(GMT+01:00) Amsterdam, Berlin, B	BOMAG Rental
Year of manufacture:	Bolikas Rental
2012	

- In the "Brand:" field, enter the missing brand name.
- If necessary, select a different type from the "Type:" drop-down menu.
- Click on the "Add" button under the "Type:" field.
- Click on "Save" or "Undo" to cancel changes.



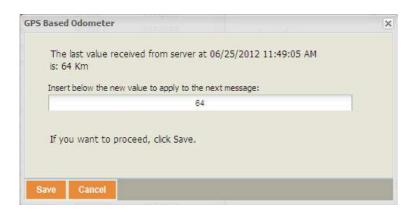
- Click on "Save". The new brand is immediately added to the drop down menu.
- To add a new "Type" or "Model", repeat the steps above.

How to set up the GPS odometer

The GPS based odometer is automatically updated by GPS. In case this value is disaligned (i.e. GPS signal missing), you are allowed to set up it manually.

Please consider that the value provided by the GPS odometer is not as accurate as the value provided by the machine's odometer.

- Select the machine from the "litems list".
- Click on "Set". (The "Set" button is only available when the machine is running).



- Enter the new value.
- Click on "Save".

The new value will be applied to the next message.

5.4 Administration - Fleets

① Note

You must have administrator access rights to create or modify a Fleet.

Overview

leets	Name:						Descr	iption:	
Add Remove	F I,		BOMAG F	Rental				BOMAG Rental	
	Equip	oment List				۹,	Vist	as	
Name		Covingsont ID	Brand	Model	Туре		*	Name	
BOMAG Rental	V	BF 800 C - 71	BOMAG	BF 800 C	Paver	<u> </u>		BOMAG_RENTAL	Show User L
		BM 500/15 - 00	BOMAG	BM 500/15	Cold planner				
	◄	BF 800 C - 66	BOMAG	BF 800 C	Paver				
		BM 500/15 - 00	BOMAG	BM 500/15	Cold planner				
		BW 174 AP-4	BOMAG	BW 174AP-4	Tandem Roller				
		BM 500/15 - 00	BOMAG		Cold planner				
		BM 600/15 - 10	BOMAG	BM 600/15	Cold planner				
		BW 154 AD-4			Tandem Roller				
		BM 500/15 - 00	BOMAG	BM 500/15	Cold planner				
		MPH 122-2 - 07			Refuse Compactor				
		BM 500/15 - 00			Cold planner				
	_	MPH 125 - 20	BOMAG	MPH 125	Recycler	_			
	Se	lect all Sel	ect none				S	select all Select none	

Items list

The panel shows a list of existing fleets that have already been set up

Details

The panel shows details about each fleet and contains the "Save" and "Undo" buttons.

How to add or remove a fleet

- Click on "Add" or "Remove" in the "Items list".
- Enter fleet name and description.
- Link the new fleet to the "Vistas".

With this operation the user associated with the selected "Vista", will see the selected fleet.

• Click on "Save".

5.5 Administration - Devices

Overview

In this section the user can view device details. Editing data is not possible. However, "Notes" may be added.

na lit						Induite				
mikas						Тура:		Courwit:	Plates:	
Certal Roother	Interested	Time	Saturn must	meet		Service level	10	Finisher and the second second		2
917-1588	FF 889 E	4850 Rev2	Pener	80==B		Brew	100	And reaction in the		
617-1849	87 050 C - 85 1908	AM50 Rev2	Perver	10/140	11	Setellurbe:				
937-1767	2109 PT - 2 680 TE	AND REVE	Pliner.	801140	_	#1/-15m				
817-1780	BIN M AD-2-42 51.	Al150 7 5-2	Ourt -	501040	_					
017-1781	5W213D1++-141-	Alf50 Revil	Paner.	101140	_					
917,1769	9W210DH.4.961.	ARED Rev2	PENEC	BOINAB	- 1					
617-1772	2W 120 AD-4 - 38 1 -	AMRO Rev2	2brt	10IAS	_					1.0
£17.1776	BH/21204.19/01	AND REAL	Forver	4000.0		-			-	-
017-1781	SWITE AP	44450 Marv2	Fentr	TOTAD		344				
617-1782	5031 30 - 01/003 NB	A050 Am/2	PErver	10//HD	-	Sec. 10	-			_
817-1784	BIT 100-1100-00 1011	AMED REV2	ester .	\$0145						
617-1800	581 100/11 - 00 1004	AMS0 Rev2	Power	BOINAS.						
917.1018	96 SED C . 74 1013	61480 Re.2	Forward Parker	\$0.0.0						
817-1308	847 500/10 - 01 1016	A040 Gev/2	Fenst	101/40						
617-1070	VPH 122-2 + 87 1080	AU 20 Rev2	Start	101140						
017-1081	BM 800/18-00 1921	AMBO REVZ	PERE	101140						
517-1881	58 50015-00 1017	AMSO Rev2	Faner	BOINS .		40.0				

Items list	The panel shows a list of existing machines that have already been set up.
	The number in the Serial number column is the serial number of the machine.
Details	The panel shows details about each device and enables the addition of notes and contains also the "Save" and "Undo" buttons.
Details	
Туре	The model number of the installed device.
Service level	The subscription level; Power and Start.
Serial Number	The serial number of the installed device.
Equipment	This is the name that you assign to the machine in your Fleet.
Firmware version	The current firmware version on the installed device.

How to hide / show devices

					2	Salara P.				
amiteo						Trow:		Eg.priert: Notes:		
contraction and	- Contract of	2004	Service land	Theat		AND Deci		17 AU 1 - 21 HI 2 (w)		-
617.1596	al for American	50 8 m/2	PING'	BOILAG		Service even	10	Avion-2 U.S.M. (M)		
617-1649	1 ter bestenden		Power	BOUAG	111	Salial Numbers		Participante de la companya de		
017.1757	and the second second	1 1 1		BOILAG		Serve Funders				
617-1700	Columna.			BOMAG		11.1.24				
e17.4791	Pis \$12.0+.5 , 16 f			POILER						
017-1700	DW 210.04-4-201	41 100 100000		DONAD						
617-1772				DOM+G						
817-1214	BW 21004-4 BVC -	2 H		90.040	_					
817-1711	BN ISA AP-4 All	A Day Interes		BUNAG		- Same Line				
617-1790	BARROWS-OF 1805	AL IN COMPANY		BOULD		Terrando Brown				
617-1754	811 100/15-00 1011			BOMAD						
Q17.1800.	BH 180/16 .00 1808	ALL TRANSPORT		ROHLAG						
617-1818	2111 FT - 3 005 YE	44 -		BOUND						
617-1000	89 580/15 - 00 1016			DOMAD						
617-1878	MINH 102-2 - 57 1089			BOWAR						
017-1081	BH 180/15 - 01 (82)	2 - Date		3064G						
017-1081	591100/15-00 1011			SUMAD	-	41				
		Contraction of the local division of the loc								

• Filter the Items list by using the column header filters.

How to add device notes

- Select a machine from the "Items list".
- Enter the desired notes into the "Notes:" field.
- Click on "Save".

5.6 Administration - Company data

① Note

You must have administrator access rights to create or modify the "Company" profile.

Overview

In this section the administrator enters data about his company.

		Details	
Company		Company name:	Address:
	_	BOMAG Rental	
Company name		Email address:	Zip code:
BOMAG Rental		service.telematic@bomag.com	
		Phone number:	City:
		Notes:	Country:
		1.5 BOMAG Rental	Germany 💌

Items list This panel shows a list of existing "Company" names that have already been set up.

Details Here you enter specific information about your company, as shown below.

How to enter / modify data

- To modify existing company and user data, highlight the data you wish to change, then either delete these or overwrite them.
- To undo all information (before saving), click on the "Undo" button.
- Click on the "Save" button to save the changes.

5.7 Administration - User Settings

① Note

You must have administrator access rights to create or modify the settings of another user.

The following settings may also be made or modified in the "Administration \rightarrow Users" section:

- Language
- Time zone
- Password
- Email address.

If these settings are added or modified in the "Users" section, they will be reflected in this section and if added or modified in this section, they will be reflected in the "Users" section.

Overview

In this section the administrator can modify default "User Settings".

With the exception of the "Date & Time" format fields, the application automatically selects the correct unit of measurement system (e.g., Mph vs. Kmph, Gph vs. Lph, etc.) based on the "User Settings" criteria you selected from the drop down menus in the "Administration→ Users" profile section.

The measuring units will be used throughout the application on screens and in the reports you create.

Items list 🔍	Details				
User Settings	Language:	Load Default Settings:			
	English	International 👻			
User	Time Zone:	Date Format:			
Mustermann Max		~			
	Password:	Time Format:			
	*******	×			
	Change Password	Speed Unit of Measurement:			
		Km/h 💙			
	Email address:	Flow Rate Unit of Measurement:			
		L/h 👻			
		Pressure Unit of Measurement:			
		kPa 🎽			
		Temperature Unit of Measurement:			
		deg C 👻			
		Volume Unit of Measurement:			
		Liters			
		Length Unit of Measurement:			
		Km 👻			
	Save Undo				

Items list This panel shows a list of existing "Company" names that have already been set up.

Details Here you can modify default values for each user.

How to modify default User Settings

- Select a user from the "Items list".
- In the "Details" panel click on the drop down arrow to the right of each setting you wish to modify, then select a setting by clicking on it with the left mouse button.
- Click on "Undo" (before saving) to undo information selected from drop down menus.
- Click on "Save".

Passwords

- Passwords are case sensitive.
- Suggested minimum number of characters is 8.
- System's maximum number of characters is 100.
- All alphabetical and numerical characters as well as symbols such as !, @, #, etc., are accepted.
- Blank spaces are not accepted.

To modify or add an Email address



- Click on the "Edit" button.
- In the popup edit box, enter Email address.
- Click on "OK".
- Access your email account and locate the verification email. Copy the verification code (refer to chapter 5.1 "Administration Users")



- Click on the "Status" button.
- Paste or enter the verification code from the Email
- Click on "OK".

5.8 Administration – "GeoFencing"

5.8.1 "GeoFencing" - create, edit, delete

① Note

You must have administrator access rights to create, edit or delete a GeoFence profile.

Overview

The "GeoFencing" function gives the Administrator the possibility to define a virtual geographical area on the map and receive information when machines exit or enter into the area. If a designated boundary is crossed, a notification or alert can be transmitted by email or text or web notification.

Items list		8	Details	
Geo fences			Shape: Create / View / Edit	Alarm priority:
Add Import shapefile Remove	Assign to equipment	de	Shape: Create / View / Edit Fence description: BOMAG Use only for Job Costing From inside to outside From outside to inside Warning: By assigning a configuration with both alarm modes checked to an AM50 Rev1 device, only one alarm will be generated when the unit leaves the fence. Waypoint	Alarm priority: Alarm priority: Low Medium Alarm in web and notification Stotification groups [Edit] Notification 1 Notification 2 Notification 2 Notification 3 Notification 3
				Notification timeout [Minutes]:

Items list	The panel shows a list of existing "GeoFences" that have already been set up, as well as buttons for creating "GeoFences" from existing shapes; or create "GeoFences" from a new shape, remove a "GeoFence" and a shortcut to assign "GeoFences" to equipment.
Details	Here the administrator creates, edits or deletes a "GeoFence" and uses the (alarms) "Notification groups [Edit]" function, adds, edits, deletes and assigns a system user or external user to a notification group.
Items list – button definit	tions
"Import shapefile"	Allows you to add a new fence based on an existing shape. (An existing

shape is one that has already been set-up in the "Administration → Shape" section.) Refer to the "GeoFence" editor paragraph for details.
 "Add"
 Allows you to add a new fence by drawing a new shape into the map. The "GeoFence" editor's map window will be displayed to the administrator.

	(Scroll down to the "GeoFence Editor" paragraph for details).				
"Remove"	Allows you to remove a fence from the list. However, the fence will not be removed from the list if it has been assigned to a machine and has produced an alarm or "Job Costing" results. The fence will be disabled but past data will be accessibile.				
"Assign to equipment"	Is a short cut to the sub-section "GeoFencing $ ightarrow$ Assign to equipment".				
Items list - column header definitions					
Description	The fence description or the fence name.				
Description Shape	The fence description or the fence name. The shape name.				

Inside If tagged and the priority is unequal null (none), it means that the fence will produce an alarm when the machine is entering the fence. For more details, refer to the "GeoFence and Devices" paragraph.

Details - button definitions

"Shape:Create/View/Edit" button	Allows you to create / view or edit a shape in the map.
"Notifications groups [Edit]" button	Allows you to add, remove, and edit notification groups and to add, remove and edit users in one or more notification groups. Refer to the "How to use the notification groups [Edit]" paragraph for details.

Details - field and box definitions

Fence description	The name you assign to the Fence.
Use only for Job Costing	No alarm will be produced if this box is tagged. Data captured will be reflected in the "Job Costing Report".
From Inside to Outside (Alarm Mode)	If tagged and the priority is unequal null, the fence will produce an alarm when the machine is exiting the fence. Refer to the "GeoFence and Devices" paragraph for details.
From Outside to Inside (Alarm Mode)	If tagged and the priority is unequal null, the fence will produce an alarm when the machine is entering the fence. Refer to the "GeoFence and Devices" paragraph for details.
	 Note: Alarms are sent once per "Key On"/"Key Off" session if the alarm priority is unequal null and if an "Alarm Notification" with the same priority has been set up in "Administration → Alarm Notification".
Waypoint:	If tagged denotes a "circular" GeoFence. If you want alarm notification, also select one or both of the "Alarm Modes" listed above.
Alarm priority	There are four "Alarm Priorities" available to choose from:

	Low (Yellow)	The fence will be used to provide data for "Job Costing" and to send out alarms when the machine violates a fence.		
	Medium (orange)	The fence will be used to provide data for "Job Costing" and to send out alarms when the machine violates a fence.		
	High (red)	The fence will be used to provide data for "Job Costing" and to send out alarms when the machine violates a fence.		
	Note			
	The above color of for your convenied	coding of "Alarm Priorities" is only a label and is intended nce. You may assign Low, Medium, and High as you wish. alarm priority will appear in the "Status" column of the "Alert		
Alarm in web only	If tagged, no alarm notification will be sent via Email. The user can only view alarms on the web site			
Alarm in web and notification	If tagged, the user will be able to view alarms on the web site and, depending on whether an email address was entered in the "User" or "User Settings" profile setup, receive an alarm notification via e-mail.			
Notification 1	lf tagged, an alarn mail.	n notification will be send as per user's profile setup; via e-		
Notification 2 & Notification timeout [Minutes]	"Notification 2 time	enabled and the alarm is not marked as read before the eout", the system notifies users aligned to the notification 2 , refer to the next sub-section "How to use the notifications on".		
Notification 3 & Notification timeout [Minutes]	"Notification 3 time	enabled and the alarm is not marked as read before the eout", the system notifies users aligned to the notification 3 , refer to the next sub-section "How to use the notifications on".		

5.8.2 "GeoFence" editor

The "GeoFence Editor" is where the Administrator creates or modifies a shape in the map. By zooming with the upper left slider or by using the search tool available in the bottom left corner, the user selects the portion of the map where the Geofence will be located. (If you are new to navigating through Google[®] maps, see chapter 2.7 – "User Settings").

tems list			Cetails	
Geo fences			Shape: Create / View / Edit	Alarm priority:
Add Import shapefile	Remove Assign to equ	lipment	-	A Low
Destated	Outside	Inside	Fence description:	A Low A Medium
Description	and the second second			A High
BOMAG			Job Costing	O Alarm in web and notification
			From inside to	Notification groups [Edit]
			outside	Notification 1
			From outside to inside	×
			Warning: By assigning a	Notification 2
			configuration with both alarm modes checked to an AM50 Rev1	~
			device, only one alarm will be generated when the unit leaves the	N. P.
			fence.	.0
			Waypoint 🗌	Notification 3
				~
				Notification timeout [Minutes]:
				0

How to create a new fence using an existing shape

- Click on the button "Create from existing shape". (An existing shape is one that has already been set-up in the "Administration→ Shape" section.)
- Click on the drop down arrow to select an existing shape then press "Create".

In the details page:

- Enter the fence description
- Press the drop down arrow to select an alarm priority (low, medium or high).
- To select an alarm mode, tag the check box to the left of "From inside to outside" or "From outside to inside".
- To create a fence with a waypoint, tag the check box to the left of "Waypoint"³. (A Waypoint fence must be circular.)
- Click on "Save".

The description of the fence and the alarm criteria are saved and appear in the "Items list".

Details	
Shape: Create / View / Edit	

• Click on the "Shape: Create/ View / Edit" button.

³ A Waypoint is a cycle time tool for measuring productivity. Unlike the typical GeoFence, which is used to provide alerts, Waypoints are used to count how many cycles have occurred over a user defined period of time.

If you select "Polygonal shape"



- Click on "Start edit".
- Click each point or corner you wish to edit and drag it to the desired location.
- Click on the "Stop edit" button once you have made all of your changes.
- Click on "Save and Close".

Your work has been saved and you will be taken back to the main "GeoFences" screen.

- To remove the modified shape, click on the "Remove" button and select "Yes" to confirm shape deletion.
- Click on "Save and close".

If you select "Circular shape"

	С	enter
Olick 1	the map to set the ce	enter position of the circular shape
중 성영왕	31 coordinates:	
Longitud		
Latitude		
		a and a second
		adius

- To reset the center of the circle, tag "Click the map to set the center position of the circular shape"
- OR tag "WGS84⁴ coordinates:" then enter new longitude and latitude coordinates.
- Enter the new radius of the circle (depending on users settings, the radius measurement will either be in miles or kilometers).
- Click on "Ok".
- Click on "Save and close".

⁴ The World Geodetic System (WDS84) is a standard for use in cartography, geodesy, and navigation. It comprises a standard coordinate frame for the Earth, a standard spheroidal reference surface (the datum or reference ellipsoid) for raw altitude data, and a gravitational equipotential surface (the geoid) that defines the nominal sea level.

The latest revision is WGS 84 (dating from 1984 and last revised in 2004), which will be valid up to about 2010. Earlier schemes included WGS 72, WGS 66, and WGS 60. WGS 84 is the reference coordinate system used by the Global Positioning System.

① Note

The "Cancel" button closes the window without saving last changes.

The "Clear" button clears the shape from the map.

How to create a new fence

"GeoFence" Tip

Fences drawn too tightly around a perimeter can produce undesired behavior. Too small fences may produce unexpected behavior. The device needs about 30 seconds to confirm that the machine has entered/exited a fence. The device must perform this action in order to avoid recording an inaccurate fence violation. Example: A machine that drives near the GeoFence border.

It is suggested that a buffer is used around a perimeter in order to eliminate excess "GeoFence" alerts.

Items list			K Details	
Geo fences			Shape: Create / View / Edit	Alarm priority:
Add Import shapefile	Remove Assign to equip	ment	Fence description:	A Low
Description	Outside	Inside	BOMAG	A Medium
BOMAG			Use only for Job Costing	Alarm in web and notification
			From inside to outside	Notification groups [Edit]
			From outside to inside	Notification 1
			Warning: By assigning a configuration with both alarm	Notification 2
			modes checked to an AM50 Rev1	~
			device, only one alarm will be generated when the unit leaves the	
			fence.	.0
			Waypoint 🗌	Notification 3
				~
				Notification timeout [Minutes]:
				0

• Click on the "Add" button.



Pan and zoom to find the desired location in the Google® Map.

- Click on the "Start Draw" button
- Select either a "Polygonal" or "Circular" shape.

If a "Polygonal shape" is selected

• Click on the map for each point needed (maximum of 30 points).

① Note

The polygon⁵ does not need to be closed; it will be closed by clicking on the "Stop Draw" button, then clicking on "Polygonal shape". An almost transparent color will fill the inside of the new shape drawn.

 $^{^{\}rm 5}$ A Polygon is a closed shape bounded by straight lines.

If a "Circular shape" is selected

		Center
		t the center position of the circular shape
⊙ WGS Longitu	81 coordinates	
Sec. 1		
Latitude	:	
		Radius
Radius [Miles]:	

- To set the center of the circle, either click on the radio button in front of "Click the map to set the center position of the circular shape"
- OR click on the radio button for "WGS4 coordinates", then enter longitude and latitude coordinates.
- Enter the radius of the circle (depending on users settings, the radius measurement will either be in miles or kilometers).
- Click on "Ok".

In Note

The "Cancel" button closes the window without saving last changes.

The "Clear" button clears the shape from the map.

Before you can save and see the "GeoFence" you just created, you will need to name it and assign alarm priority to it.

ems list			Cetails	
o fences			Shape: Create / View / Edit	Alarm priority:
Add Import shapefile	Remove Assign to	equipment	Fence description:	A Low
escription	Outside	Inside	BOMAG	🔺 Medium
DMAG			Use only for	A High
			Job Costing	Alarm in web and notificatio
			✓ From inside to outside	Notification groups [Edit]
				Notification 1
			From outside to inside	~
			Warning: By assigning a	Notification 2
			configuration with both alarm modes checked to an AM50 Rev1	~
			device, only one alarm will be generated when the unit leaves th	Notification timeout [Minutes]:
			fence.	.0
			Waypoint 🗌	Notification 3
				~
				Notification timeout [Minutes]:
				0

- Enter a "Fence description".
- Select an "Alarm priority" from the drop-down menu. Choices are: Low, Medium, High
- Select an "Alarm mode" by tagging one of the check boxes.
- Press "Save".

The new GeoFence appears at the top of the GeoFence list on the left side of the screen.

How to remove a fence

- Select the fence you wish to remove by clicking with the left mouse button on text in one of the columns "Description", "Shape" or "Alarm Priority".
- Click on the "Remove" button.

A confirmation window opens.

• Click on the "Yes" button.

The fence is immediately removed from the list.

① Note

The fence will not be removed from the list if it has been assigned to a machine and has produced an alarm or Job Costing results. The fence will be disabled, but past data will be accessible.

To view the right side of the screen ("GeoFence Editor" paragraph) again, click with the left mouse button on any of the fence names shown on the left side of the page under the GeoFences list.

How to Setup Alarms Notifications

Using the "Notification groups [Edit] function" enables the administrator AND user (by GeoFence) to add or remove alarm notification groups and add, edit, delete and assign system users and external users to/from each "Notification group".

See chapter 5.15- " (Alarm) "Notification groups [Edit]" function" for further information.

5.8.3 GeoFencing - assign to equipment

① Notes

You must have administrator access rights to create or modify settings.

Overview

In this section the administrator can assign a GeoFencing profile created in the "Administration \rightarrow GeoFencing \rightarrow Create, Edit, Delete" section to each machine.

How to Filter Equipment

 By filtering the fleet, brand, and/or type columns, the administrator may assign multiple "GeoFencing" profiles at one time.

						F 140
O PILTE)	NO FILTER	NO PLIER	•	NO PILITER	+ NO PILTER	* [NO FLT
	HF 500 C - 90 1008	ROMAG		IONIG	C Coll play	ndar.
ø	8F 800 G - 71 1008	BOMING		ROMAG	E Power	
9	BF-800/G - 71 1004	BOMAG		BONH4G	T Roland G	
	8F-800 C - 71 1011	HOMAG		ROMAG	C Grob Cri	
9	BF 800 C- 71 1013	BOMAG		ROMAG	C Tordeni	ödör
¥	IF 800.0 - 71 1015	BOMAG		IOMAG	10.00	
¥	18"A000-21 1012	BOMAG		BORING	Pave	F
8	MR 500/15-00 1004	BD404G		IC4045	Colliphone	F
F	184 100/10 - 00 1000	HOMAG		BCHMAD1	cuttploreor	F
9	BM 800/15-00 1011	BOMAG		BONIAG	Coldplaneor	Π.
PL		And a second second			- 11 II.	10 A

- From the drop down menu under the fleet, brand and/or type column headers, tag or untag the check box to select or deselect a criterion
- OR click on "All".
- Click on "Apply".
- Once you click on "Apply", the drop down menu automatically closes.
- If you wish to close the drop down menu without applying changes, click on the "Close" button.

How to assign GeoFencing profiles to equipment

				Brand		
E ser						E 661
IO FILTE		NO FILTER	*	NO FILTER	▼ NO FILTER	▼ NO FILTE
v	BF 800 C - 66 1008	BOMAG		BOMAG	Paver	
•	BF 800 C - 71 1003	BOMAG		BOMAG	Paver	
N	BF 800 C - 71 1004	BOMAG		BOMAG	Paver	
	BF 800 C - 71 1011	BOMAG		BOMAG	Paver	
V	BF 800 C - 71 1013	BOMAG		BOMAG	Paver	
V	BF 800 C - 71 1015	BOMAG		BOMAG	Paver	
V	BF 800 C - 71 1012	BOMAG		BOMAG	Paver	Π
v	BM 500/15 - 00 1004	BOMAG		BOMAG	Cold planner	
•	BM 500/15 - 00 1005	BOMAG		BOMAG	Cold planner	
V	BM 500/15 - 00 1011	BOMAG		BOMAG	Cold planner	
-	D11.500.45 00.1015	501110			e.u. 1.	-

- Filter the machines.
- Deselect the machine(s) that you do NOT wish to assign to the profile by untagging the corresponding check boxes.
- Select the machine(s) that you wish to assign to the profile by tagging the corresponding check boxes.

Configura					
Selected	P slament ID		Brand	Туре	BOMAG
	$\langle \Box$				
NO FILTE	FILTER	NO FILTER	▼ NO FILTER	▼ NO FILTER	VI NO FILTE
	BF 800 C - 66 1008	BOMAG Alfonsine II BOMAG Rental	BOMAG	Paver	

Tag the check box in the header of the first column and press "SET".

• Tag the check box in the header of the fence column and click on "SET"

This quickly matches all equipment selected in the first column to the profile.



- To cancel selections made in the fence column(s), click on the "Undo" button and wait a few seconds for the application to refresh the screen.
- Click on "Save changes"
- Click on the "Ok" button to confirm changes.