

MATERIAL HANDLING

## Toyota I\_Site Fleet Management System

User Manual v0120



I\_Site UK Helpdesk: I\_Site@uk.toyota-industries.eu

TOYOTA MATERIAL HANDLING

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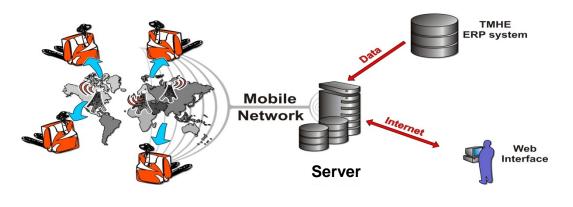
## 1 Introduction

## 1.1 Web application and machine communication

I\_Site is a web-based enterprise application that offers central administration of machines and driver access as well as provides information on driver performance, when and by whom machines are operated, rate of usage, battery maintenance (machine design dependant), impact registrations as well as follow-up of performed machine health checks. Machine access is achieved by entering a PIN code or by the use of personal id cards (*Smart Access* or *SA*). A supplementary feature, *My Fleet*, surveys carried out preventive and repair machine maintenance. My Fleet is described in a separate manual.

I\_Site utilizes GPRS communication between individual machines and a central database server. Equipment on the machines comprise Data Handling Unit (*DHU*), log-on keypad, antenna as well as shock sensor, panel for Pre-Operation Check (POC) and access card reader (SA). The system collects data and uploads the information regularly to the central server. A web interface is used to present the information and to perform administration commands.

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System overview

## 1.2 Precautions regarding the machine installed system

The cellular terminal inside the DHU transmits radio signals. According to the guidelines for human exposure, the antenna should be placed at least 20 cm away from human bodies. An information label (as illustrated) must be placed on the machine, easily visible.



Due to risk for interference, a DHU equipped machine must not be driven near medical equipment or explosives. Usage in areas with potentially explosive atmospheres requires that the installation has been appropriately protection modified in accordance with rules and regulations in force.

The DHU is sealed and must not be opened. Breaking the seal will terminate warranties and service support assistance will be discontinued.

## 2 Access and navigation

## 2.1 Logon

Logon to the web portal is done on the I\_Site website, which can be found at www.toyota-isite.eu.

To login:

- 1. Enter User name
- 2. Enter Password
- 3. Click SIGN IN

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## 2.2 First time sign in

To access I\_Site use the username and temporary password supplied in the invitation e-mail. On successful logon you will be asked to change your password before you can proceed to the home page.

The password is case sensitive.

## 2.3 Expiring password

A password will expire every 180 days and you will be required to change it prior to its expiration. You will have to enter a new password after logging on, but before you can proceed to the home page. If your password has expired and you cannot log on, you will need to recover your password.

## 2.4 Password recovery

In case you need to recover your password click on the **Forgot Your Password?** link or go to pwrecovery.toyota-industries.eu. Follow the instructions on the page to receive a temporary password to your email account. An auto-generated password will be e-mailed to you. Upon logon you may change to a personalized password.

If you have not received your new password within one hour contact your contract administrator.

## 2.5 Expiring account

If you haven't logged on for more than 3 months your account will expire and will be locked. Expired accounts will have all active notifications and subscriptions cancelled. It will not be possible to access I\_Site via mobile app either.

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To recover your account contact Toyota support line. It might take a few days before your account is reactivated.

## 2.6 Account recovery

If you have problems accessing your account or don't remember your logon credentials, contact your contract administrator.

## 2.7 Supported web browsers

I\_Site is supported on Internet Explorer 11 or newer and Google Chrome version 68 or newer. It is possible to access I\_Site using other browsers, but some behaviour might differ from described in the manual.

## 2.8 Settings

Clicking on settings will display checkbox with **I am an internal user** text next to it. This must be checked for Toyota employees that are working outside company network or are not connecting using VPN connection. Most users don't need to check this box and can safely ignore it.



## 3 Navigating I\_Site

## 3.1 Top navigation bar

Top navigation bar is the main means of moving around I\_Site and accessing various features and reports. The picture below shows the most advanced view with all features and roles enabled. Clicking on the icon will load the default report or function in a given module and load a side bar which shows all reports and features available in the module.

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Home	Dashboard
Utilization	View site, machine, driver and contract utilization
Shocks	View shocks on the machine, view shocks associated with drivers, comment shocks
Pre-Op. Check	Manage pre-op checklists, view pre-operation checklist reports, manage messages, view
	message reports
Manage Site	Create driver groups, create machine groups, configure machines, manage drivers
Administration	Manage user access
MyFleet	Information about fleet composition, cost and service

## 3.2 The left navigation panel

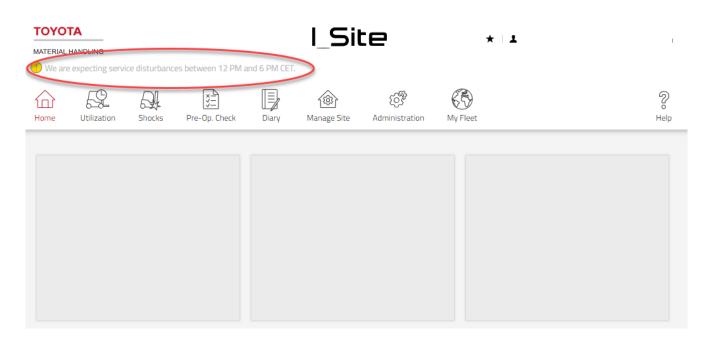
All modules have the left navigation panel with additional reports and functions that can be accessed. These are described in a section corresponding to each module. Clicking on the report / function name in the side bar will load the report / function window.

TOYOTA					l_Sil	te				*	
Home	Utilization	Shocks	Pre-Op. Check	Diary	KBP Manage Site	کری Administration	My Fleet				Co He
Utilizatio	n	~	Demo Warehouse LS Su	pport Gothei	nburg						
Sites Driver	>		Utilization -	Machir	nes						
Machine Contract	>		Machine	Fleet	Number	From date 10/20/2018	To date 11/19/2018	🗌 Inc	lude Histor	ical Data	
Activity			Select machine groups		~						_
Drivers Machines	>							SE	ARCH	CLEAR	
Batteries	>		<b>Total sum</b> Machines: 2 Run Ho		Utilization: 0.00%	Shocks: 0 Error: 0		Utiliza	ition 🔻	ት⊑ 🖬 ¥ එ እ	÷
			Machine 8DEM015-	10003	Fleet No 10003	Utilization 0.00%	Run Hours 00:00	Shocks <b>O</b>	<sup>bsi</sup> N/A	~	
			Machine 8DEMO-Ter	aTerm1	Fleet No	Utilization 0.00%	Run Hours 00:00	Shocks 0	<sup>BSI</sup> N/A	~	

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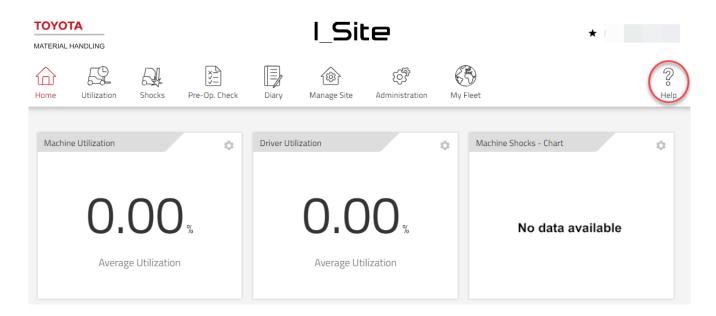
## 3.3 Maintenance notice

Notifications of planned maintenance and other web service information are posted above the top navigation bar.



## 3.4 Help

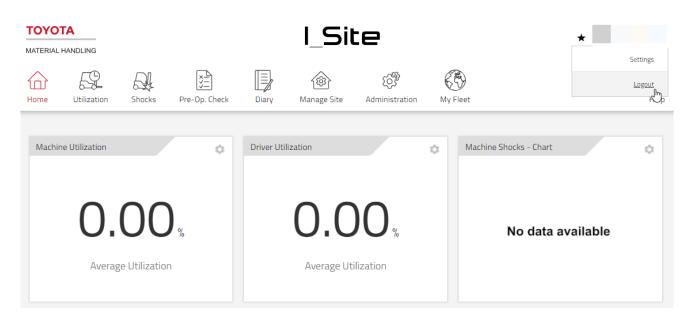
To access additional support materials, e-learning or to download smart access application and files click on help in the top right corner of the web portal.



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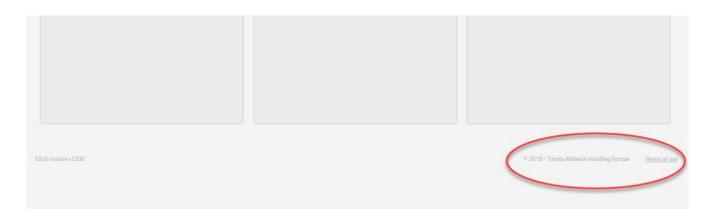
## 3.5 Logout

To logout click on the user name in the upper right corner of the web portal. It will expand a drop-down menu. Click logout and close the browser window to end session.



## 3.6 Terms of use

To view the current terms of use, click on the link in the bottom right corner of the web portal.



## 4 Navigating reports

All reports in I\_Site follow the same structure. They consist of the **search field** and **results**. The search field is used to determine the scope of the report that will be created. The results show the data that is matching the search criteria. This part consists of **summary row** and **results row(s)**.

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Machine	Fleet Number	From date	To date		
		09/01/2018	08/02/2018	🔲 Include Histori	cal Data
Select machine group	i				
Machine Groups		~			
				SEARCH	CLEAR
Total summa Machines: 7 Run H	•	% Shocks: 0 Error: 0	Uti		★ কী X+

## 4.1 Making a search

### 4.1.1 Selecting sites

I\_Site can display reports both from a single site and aggregated from multiple sites. If you have access to multiple sites, the default site that I\_Site will show information from is the first site alphabetically on the site list.

Demo Warehouse L	S Support Gothenburg			
Utilization	- Machines			
Machine	Fleet Number	From date 10/20/2018	To date 11/19/2018	Include Historical Data
Machine Groups	241	$\checkmark$		
				SEARCH CLEAR

### 4.1.2 Switching sites

If you want to receive report from a different available site:

- 1. Click on the red field at the top of the report page
- 2. Move the mouse over the site you want to see and it will be highlighted with a red ribbon

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- 3. Click on the highlighted site
- 4. Click outside the site selector menu

I\_Site will reload and show the data for the site you have selected.

^	02 TMHE Roger Mjölby		
	02 TMHE Roger Mjölby		*
	03 TMHE Roger Mjölby		-
	. Select All		
-		09/01/2018 08/02/2018	
	Select machine groups	7	
	Machine Groups 🗸 🗸		
		SEARCH CL	EAR

### 4.1.3 Selecting multiple sites

If you want to see aggregated data for multiple sites:

- 1. Click on the red field at the top of the report page.
- 2. Select checkboxes for the sites you want the data for and click Select All to check all the checkboxes
- 3. Deselect the default site checkbox if you don't want to see the information for that site [optional]
- 4. Click outside the site selector window

Select All	
	09/01/2018 08/02/2018
$\sim$	
	SEARCH CLEAR

I\_Site will reload and show the data for the site you have selected. Name of the site displayed on the red ribbon will change to show that you can now perform search and see information from multiple sites.

1

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/	Multipl	e sites	seler	ted (2
	manap			100 12

## **Utilization - Machines**

Machine	Fleet Number		From date 10/20/2018	To date 11/19/2018	Include Historic	al Data
Select machine groups Machine Groups		$\sim$				
					SEARCH	CLEAR

### 4.1.4 Refining search by text criteria

Search results can be further refined by entering search criteria. Most common search criteria include:

Machine	Searching by machine serial number			
Driver	Searching by driver name			
Fleet Number	Searching by machines fleet / identification number			

Search criteria are individual for each report and will be listed in a given report description. Leaving search criteria blank will result with displaying all available information for a given time.

### 4.1.5 Refining search by group criteria

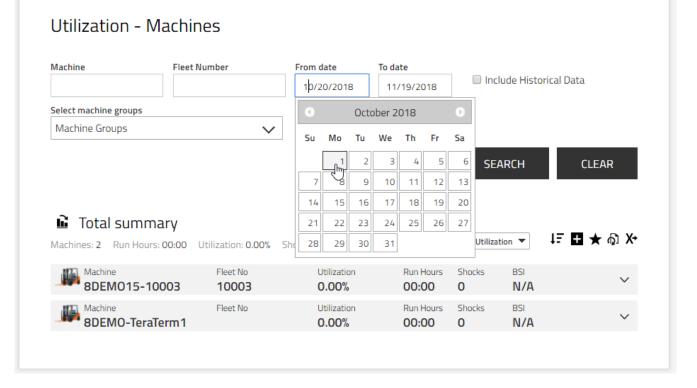
Search results can be narrowed down by selecting a particular set of data or a **group**. When selecting a group or groups any text search will be done within that selection.

### 4.1.6 Selecting time intervals

Data reports can be refined by timespan. Clicking on either the **From date** or **To date** field will expand calendar. Select the dates for which data should be displayed.

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#### ➤ Demo Warehouse LS Support Gothenburg



## 4.1.7 Including historical data

By default, data for the trucks that have been removed from I\_Site is not visible on site. To be able to see that data checkbox **Include Historical Data** must be selected prior to making search. This is only possible when only a single site is selected for search. Search on multiple sites must be done on a single site at the time. Historical trucks will be displayed as greyed out.

Demo Warehouse LS S	Support Gothenburg			
Utilization -	• Machines			
Machine	Fleet Number	From date 10/20/2018	To date 11/19/2018	☑ Include Historical Data
Select machine group Machine Groups	s V	•		
				SEARCH CLEAR

Historical data is only available for the following reports, charts and excel exports:

- Utilization Machines
- Shocks Machines

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• Pre-Op. Check – Machines

Following elements are excluded from information provided as historical data:

- Fleet Number
- Battery Status Information (BSI)
- Truck Ownership
- Last updated

**Include Historical Data** option is not selected by default. The user selection is remembered, and it will be pre-selected in the next session in any of the reports with historical data functionality.

## 4.2 Viewing search results

### 4.2.1 Sorting tables

Click on the title field to expand sorting options. A list of all table headers will be displayed. Click on the header name that you want to sort by. Sorting order will be applied automatically.

Machines: 16 Run Hours: 80:1	6 Utilization: 3.15%	Shocks: 241 Error: 0		Utili	zation 🔻	t⊑ 🖬 ★ ፴ አ↔
Machine RemoteDHUTest1	Fleet No	Utilization <b>37.83%</b>	Run Hours <b>63:34</b>	Shocks 6	BSI N/A	~

Click on the descending (arrow down) or ascending (arrow up) to define sorting order. Default value is descending.

Machines: 7 Run Hours: 02:55	Utilization: 0.26%	Shocks: 0 Error: 0		Utiliz	ation 🔻	(1 <u>5</u> ) <b>⊟</b> ¥ @ X+
Machine RemoteDHUTest1	Fleet No	Utilization 36.36%	Run Hours 02:55	Shocks <b>O</b>	bsi N/A	^
Site: 02 TMHE Roger Postal cod TMH- Fleet No: Last updated: 0 Last known state: Locked by super	08/02/2018 11:18:39 🔳 E	irror: N/A	,	h Trucks 🔳 N	lodel: RRB1 I	Brand: BT

## 4.2.2 Expanding view

Some non-essential information is hidden in the default view (compact). You can see this information by expanding the view.

To expand all rows, click on the 🖪

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## 🖬 Total summary

Machines: 1 R	un Hours: 14:29	Utilization: 0.50%	Shocks: 2	Error: 0		Utiliza	tion 🔻	↓= <b>(</b> ⊕);	★ ק1 X+
Machine Remot	eDHUTest1	Fleet No		ilization 50%	Run Hours 14:29		<sup>BSI</sup> N/A		~

#### To fold all reports, click on the minus sign.

Machines: 7 Run Hours: 02:5	55 Utilization: 0.26%	Shocks: 0 Error: 0		Utili	zation 🔻	ti 🔲 🕈 ወን 🕅
Machine RemoteDHUTest1	Fleet No	Utilization 36.36%	Run Hours <b>02:55</b>	Shocks <b>O</b>	bsi N/A	^
RemoteDHUTest1       36.36%       02:55       0       N/A         Site: 02 TMHE Roger       Postal code: 11111       City: Mjölby       Owner: Demo       Machine Family: REA - Reach Trucks       Model: RRB1       Brand: BT         TMH- Fleet No:       Last updated: 08/02/2018 11:18:39       Error: N/A         Last known state: Locked by supervisor lockout       Last known state change: 08/02/2018 11:18:39						

To expand a single row, click on the down arrow on the far right corner of the row.

Total summary 🖻							
Machines: 16 Run Hours: 80:16	Utilization: 3.15%	Shocks: 241 Error: 0		Utiliz	ation 🔻	ţŦ	+ ★ ๗ X+
Acchine RemoteDHUTest1	Fleet No	Utilization 37.83%	Run Hours 63:34	Shocks <b>6</b>	<sup>bsi</sup> N/A		$\checkmark$

To fold a single row, click on the up arrow on the far right corner of the row.

Machines: 7	Run Hours: 02:55	Utilization: 0.26%	bocks: 0 Error: 0		Utilia	ation <b>T</b>	t⊑ 🗖 ¥ ወ እ≁
Machi Rem	noteDHUTest1	Fleet No	Utilization <b>36.36%</b>	Run Hours 02:55	Shocks <b>O</b>	<sup>BSI</sup>	$\frown$
🔳 TMH- Flee	et No: 🔳 Last updated: O	8/02/2018 11:18:39 🔳 Er	Owner: Demo Machine F ror: N/A m state change: 08/02/2018		h Trucks 🔳 N	1odel: RRB1 🔳	Brand: BT

## 4.2.3 Favourites

Favourites are means of keeping track of data selection in the reports. By clicking on a favourite, you will be taken to the report with the exact data it was saved with.

To create a **favourite**:

- 1. Click the star icon to open the Save favourite dialogue window
- 2. Enter a name
- 3. Save

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Utilization - Ma	achines					
Machine	Fleet Number	From date 10/20/2018	To date 11/19/2018	🔲 Incl	ude Histor	ical Data
Select machine groups						
Machine Groups	Save favourite	×				
	Enter the name of you	u favourite		SE/	ARCH	CLEAR
🖬 Total summa	SAVE FAVOURITE	CANCEL				
Machines: 2 Run Hours: C		Shocks: 0 Error: 0		Utiliza	tion 🔻	†⊑ 🖬 ¥ ወୁ X↔
Machine 8DEM015-100	Fleet No 10003	Utilization 0.00%	Run Hours <b>00:00</b>	Shocks <b>O</b>	bsi <b>N/A</b>	~
Machine 8DEMO-TeraTe	Fleet No	Utilization 0.00%	Run Hours 00:00	Shocks 0	BSI N/A	~

To access saved **favourite** report:

- 1. Click on the star icon next to login name
- 2. Click on the favourite you want to access



To remove a **favourite**:

- 1. Click on the star icon next to login name
- 2. Click on the trashcan icon next to the favourite you want to remove



## 4.2.4 Subscriptions

Subscriptions are means of receiving excel exported reports on regular basis without the need to logon to I\_Site web portal. Subscriptions will be sent at a regular, selected interval and at specified time to an email

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address entered at the user creation process and/or e-mail that is indicated as the recipient of the subscriptions in **my profile**.

To create a subscription:

- 1) Visit the report you want to subscribe to
- 2) Select search criteria that you want the subscription to be based on
- 3) Click on the subscription icon
- A pop-up window will appear enabling you to do the following
- 4) Name the subscription
- 5) Select time interval at which the report should be sent
- 6) Specify hour and minute when the report should be sent
- 7) Click Add

Under **Subscriptions** heading in the pop-up window in my profile, you will see all active subscriptions for that report regardless of the search criteria.

🗸 ОЗ ТМНЕ	Report Subscriptions	×
Utiliz	Subscription Name	
Machine	Interval type       Weekly      Monthly	To date
Machine	Time of day	13/02/2018
Select ma	Day of week Monday	
Machin	Time zone (GMT) Coordinated Universal Time	•
		SEARCH CLEAR
	Subscriptions	
Total		
Machines		Utilization 👻 🖵 🛨 🛧 🔊 🗡
		Run Hours Shocks BSI 05:11 0 N/A
₽ E		Run Hours Shocks BSI
E B	ADD	Run Hours Shocks BSI

Subscriptions might be disabled for some sites or contracts. If that is the case, please contact your contract administrator to have this feature enabled.

It is strongly advisable to visit the web portal to obtain additional, non-subscriber information like battery reports.

### 4.2.5 Exporting to excel

Many reports and lists support **export to excel** function. To do so click on the export to excel icon. Report download should begin automatically. The excel has a ready to print layout and is prepared with pivot tables in mind.

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#### **i** Total summary

Machines: 2 Run Hours: 00:00 Utilization: 0.00% Shocks: 0 Error: 0

## 4.2.6 Charts

Charts are a different way to view reports. They show less amount of information but highlight the most important information in the graphical form. To switch between table, view and chart view click on the chart / table view next to the report name.

#### To switch to chart view.



#### To switch to table view.

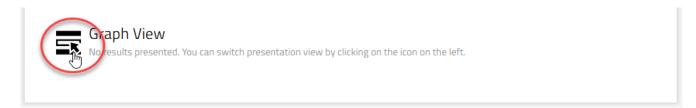


Table view is a default view for all the reports.

### 4.2.7 Exporting reports

Reports can be saved as PNG files. To save a report:

- 1) Right click on the report
- 2) Click Save Image As...
- 3) Enter name
- 4) Save

Reports can also be copied to another document (i.e. excel or word). To copy report:

- 1) Right click on the report
- 2) Click Copy Image
- 3) Paste image to another document

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Utilization 🔻

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## 5 User and driver administration

(Requires the 'User Administrator' role)

### 5.1 Creating system user accounts

- 1) Go to the 'Administration' tab and click **Users** on the left navigation panel. Press **Create user** to open the 'Create user' dialogue window. Enter the user e-mail address.
- 2) Press Next.
- 3) Press **Save** when confirmed.
- 4) Enter data as required. The **Username (User ID)** can be alphanumeric based on name initials or other significance but must be without spaces. The **Username** cannot be modified at a later stage (requires system maintenance support), however first and last names can be updated (see 'My profile').

				l_Sit	e			•
Home Utiliza		Pre-Op. Check	Diary	(B) Manage Site	Correction Administration	My Fleet		8 Help
	₽.							
Manage Site Machine Groups Machines Driver Groups Drivers Access Ove	> > > ate user	User Admir First Name	Last No		User ID	Site name	SEARCH	CLEAR
Administ	Users Email	noreturn@telia.com	1					
Customer S	<ol> <li>No user were</li> </ol>	found, please enter t	he information	to create a new us	ser.			CREATE USER
Users	Username	nope66		Company:	BT Europe AB			
Language	First Name	No	2	Last Name:	Penny			
Diagnostics Error Summ	City	Mjolby		Country:		~		
Error Code:	Site	TMHLS Mjölby Mjö	lby XSE00054	576 Mjölby 59581		×		
Linkard Cire	PREVIOUS					SAVE		

5) Press **Save** to open the dialogue windows for assigning sites and roles.

You will be advised by e-mail of the new user you have added, containing 'User ID' and a temporary password. Forward the information to the new user together with any additional instructions that might be useful. Note that it takes the system 15 minutes to configure a new user.

Refrain from logging in as the user you just created since the password is a "one-time use" only and will have to be changed on first log-in.

6) To assign sites, click the **Sites** bar to view **Available sites** Click the icon to add a site to the user's profile. The user must be given access to at least one site.

### TOYOTA MATERIAL HANDLING

To assign several sites, it might be useful to check mark the sites and press Add selected sites.

- 7) Assigned sites are saved automatically. Click the bar again to close the expanded view.
- 8) To assign roles, click the 'Roles' bar to view 'Available roles'. Click the 🟵 or the 🕯 icon to add the role to the user's profile.
- 9) Assigned roles are saved automatically. Click the bar again to close the expanded view.

	45.5				I_Si	te		*	
₩ Home	Utilization	Shoc	ks Pre-Op. Check	Diary	Manage Site	Administration	(G) My Fleet		<b>N</b> Help
Manag	ge Site								
Machine	e Groups	>	Manage sit	tes and ro	oles for B	ox Ox			
Machine		Ś	UserID	Box				_	
Driver G		Ś	First Name	Box					DELETE
Drivers	( output	>	Last Name	Ox					
Access (	Overview	>	Email	norep	ly@toyota-indus	tries.eu			
Admin	istration		Sites						
Custom	er Setup	>	Users sites					SEL MTALL REMO	WE SELECTED SITES
Users		>	Site name			City		Post Code	×
Languag	ze	>	Demo War XSE00054	ehouse LS Su	pport	Gothenburg		41313	^
Diagnos	itics	>	X5E00054	597					
Error Su	mmary	>							
Error Co	des	>	Site name	City		Post Code			
Upload S	Sims	>							
			Select Key Account			•			
			Key Account			•			
								SEARCH	CLEAR
			Please make a s	earch to see	available sites				
			Roles						
			Selected role	25					
			No features select	ed					

### TOYOTA MATERIAL HANDLING

#### Roles

## Selected roles

Driver Administrator	۲
Manage driver access	
Driver Administrator	
Manage driver access	
Machine Admir	۲
Manage machine configuration for the fle	et

The range of roles comprises the following (your profile may include a selection only):

Role	Description
Driver Administrator	Add and edit driver profiles and machine access.
Machine Administrator	Add driver machine access and edit machine settings.
Manage Pre-Op Checklists	Create, modify, delete and publish POC lists. The role is not needed to only view results or use the Messaging function
Remote Shock Lockout Reset	Allows for shock lockout reset from the I_Site portal. (Should primarily be reserved for appointed supervisors)
Immobilizer	Allows for immobilizing machines (impairing operation as supported by machine functions) from the I_Site portal including reset. (Should primarily be reserved for appointed supervisors)
User Administrator	Add and edit access to the I_Site portal. (Should be limited to one or at the most two people at each site or group of sites)

### TOYOTA MATERIAL HANDLING

My Fleet - Fleet list	Enables access to view Fleet List
My Fleet - Contract cost	Enables access to view Fleet Cost
My Fleet - Service Reports	Enables access to view Service Reports
My Fleet - PM Accuracy	Enables access to view PM Accuracy
My Fleet - Non-Contract Cost	Enables access to view Non-Contract Cost
My Fleet - Service Reports detailed	Enables user to view Vehicles Off the Road (VOR), First-fix and Response Time
Driver Info	Enables access to view driver info

## 5.2 Editing user accounts

Current users are edited in the 'User Administration' dialogue windows as described above. Click **Search** to get a listing of the users that you've added to the system.

Assigned sites and roles are removed by the delete 😂 icon.

The 'User Administrator' profile allows you to delete sites or roles from your own account, but you cannot add them back. That has to be done by a supervisor.

To delete user accounts, click Delete and confirm in the pop-up window.

Manage sites	and roles for	
User ID	Ue	
First Name	Ue	DELETE
Last Name	Man	
Email	ue	
Sites	Delete user 🗙	$\bigcirc$
	Are you sure that you would like to delete this user?	
Roles		()
	DELETE	

## 5.3 Site management – Drivers

(Requires the 'Driver Administrator' role)

### 5.4 General

Driver management comprises:

## TOYOTA MATERIAL HANDLING

- Adding drivers in the system and assigning machine access by means of PIN codes and, if applicable, set up usage of personal access cards (SA).
- Specifying driver profiles, work shift schedules and machine access time limitations (Driver license validity period).
- Forming driver groups.

PIN codes may be either 'Machine Managed', i.e. stored in the keypads, based on **4** digits or 'Server Managed', i.e. downloaded from the I\_Site portal to each DHU, requiring **5** digits. 'Machine Managed' is the default setting. To enable PIN code usage at your site and for switching to 'Server Managed', consult your TMH service representative.

## 5.4.1 Machine log-on and log-off

To start machines, an assigned PIN code has to be entered on the installed keypad followed by pressing the green key (I). If entered correctly, the green indication light will be lit. A failed entry will be indicated by the red light. Alternatively, with Smart Access (SA), an access card has to be put on the installed reader followed by pressing the green key (I) on the keypad. The SA feature is described in 5.7.

If the machine is equipped with Pre-Operation Check (POC), the driver will have to respond to displayed questions. The feature is described in section 6.2.4.

Working passes are ended by pressing the red key (O), or via inactivity timeout.

**Safety**: The red key (O) must never be pressed while operating the machine. It may cause the machine to come to an abrupt stop with the risk of personal injuries and/or damages to the goods.

## 5.4.2 Default log-on codes

Keypads and DHUs are pre-programmed with default codes to be used until driver PIN codes have been stored. The default codes are voided when driver PIN codes have been stored.

To comply with safety regulations, new default access codes have been introduced replacing previous codes, 0001, 0002 and 0003 (may still be applicable to earlier 'Machine managed' installations).

Access codes: 1258, 2258 and 3258

Reset codes: 1111 (Machine managed) or 11111 (Server managed)

In case all driver PIN codes have been erased (emptied) from a keypad or DHU, the default codes are reactivated and will have to be used. Driver PIN codes should however be restored promptly since the default codes do not allocate operating performance to the actual drivers.

### 5.4.3 Default Smart Access log-on

For Smart Access installations, a generic transit/start-up access card is provided with the machine to be used until driver access cards have been programmed (downloaded) into a DHU. The generic access card is then annulled.

In case the codes for all driver access cards have been erased (emptied) from a DHU, any card can be used to start the machine. Driver access cards should however be restored promptly since operating

## TOYOTA MATERIAL HANDLING

performance will not be allocated to the actual drivers and POC questions may not be triggered unless activated for lock-out reset profiles.

## 5.5 Machine managed installations

### 5.5.1 Assigning machine access (adding drivers)

Drivers are assigned by programming or activating PIN codes and profiles on the keypads (requires assistance from TMH service technician).

Drivers will be added to the I\_Site portal as working passes are uploaded to the server.

### 5.5.2 Editing driver details.

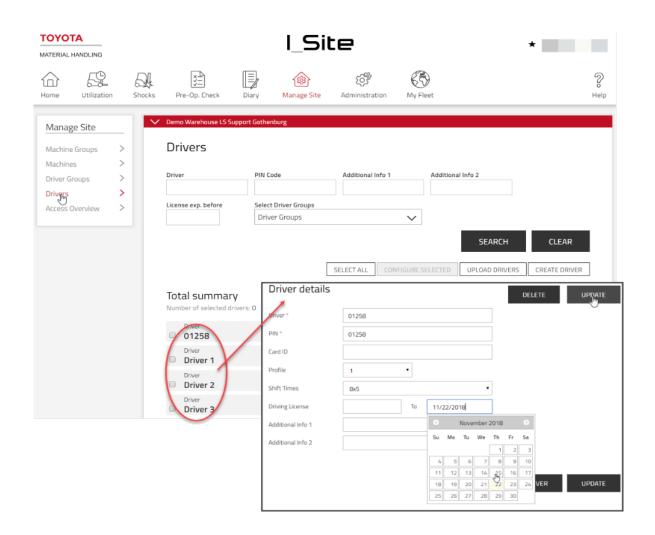
Before edited, uploaded drivers will be shown as their PIN codes in reports.

- 1) Go to the Manage Site tab (select site if you have access to more than one site)
- 2) Click **Drivers** on the left navigation panel.
- 3) Press **Search** to get a listing of uploaded drivers.
- 4) Click the driver name to open the Driver details' dialogue window.
- 5) Enter driver name, shift time, driving license period and additional information as applicable. See 5.1 for descriptions.

Note that 'Machine managed' installations do not offer the possibility to assign drivers to machines from the portal and the driving license period serves as information only (does not cut off machine access). The profile is set on the machine and portal settings have no effect on driver operations.

6) Press **Update** and **Save** (Sending SMS has no effect and can be disregarded.

## TOYOTA MATERIAL HANDLING



## 5.5.3 Driving license expiry

Driver license date can be set for each machine family or one driver license date for all machine families. It is possible to set driver license date for one driver or several drivers at the same time. When sending message with driver licenses the message need to contain driver license expiry time for each machine family (CB IC, CB Electric, Stackers, Order Pickers, VNA Trucks, Reach Trucks, Low Lifters, Tow Tractors). The message is implemented.

- 1) Go to manage Site.
- 2) On the left navigation pane, press Drivers.
- 3) Type a name of a driver that you are looking for and press search.
- 4) To edit driver license press Edit, after choosing driver license press Ok.

## TOYOTA MATERIAL HANDLING

		l_Site	*				
ame Utilization Shock	ks Pre-Op. Check	Diary Manager to Administration My Fleet		, Help			
Manage Site	Driver details		DELETE	UPDATE			
Driver Graups >	Driver *	00001	Driving License	0/0/2017	To 5/31/20		2
	Profile Shift Times	1 * 8x5 *	CB Electric	8/8/2017 8/8/2017	To 5/31/20		
	Driving License Additional Info 1		CB IC	8/8/2017 8/8/2017	To 5/31/20		
	Additional Info 2		Order Pickers Reach Trucks	8/8/2017 Driving License	To 5/31/20	19	
	* Field is hidden for user	s without the role Driver Info	Stackers	Same for all		То	
			Tow Tractors VNA Trucks	CB Electric	1/1/2018	To	1/1/2019
				Low Lifters		To	
				Reach Trucks	7/1/2018	To	12/31/2019
				Stackers Tow Tractors		To To	
				VNA Trucks		To	
							GK CAN

Shift time and driving license period may be updated for several drivers at once by marking checkboxes to the left of the names and click **Configure Selected.** 

Other items, i.e. 'Driver Groups, 'Access overview' and machine related have little or no significance when operating 'Machine managed'.

### 5.6 Server managed installations

PIN codes and profiles as well as machine access are configured on I\_Site and downloaded to the DHU by means of prompted synchronizations. The following sections describe the procedures.

### 5.6.1 Adding single drivers

- 1) Go to the **Manage Site** tab (select site if you have access to more than one site).
- 2) Click **Drivers** on the left navigation panel.
- 3) Press **Create driver** to open the 'Create driver' dialogue window.
- 4) Enter driver name or designation, PIN code and permitted driving period.
- 5) Press **Create driver** to save the driver and to open the 'Driver details' dialogue window (see following sections).

## TOYOTA MATERIAL HANDLING

	TERIAL HANDLING							
Home	Utilization	Shocks	¥ ∛ Pre-Op. Check	Diary	(B) Manage Site	کری Administration	K My Fleet	Неlp
Mana Machir	Creat	e driver						
Machir	Driver *		DriverName					
Driver Drivers	PIN *		00007					
Access	Driving Lic	ense		То	14/11/2018			
	Site		TMHE Service	e Market Mjö	ilby	~		CLEAR
								,

## 5.6.2 Adding drivers from template

- 1) Go to the **Manage Site** tab, (select site if you have access to more than one site) and click **Drivers** on the left navigation panel.
- 2) Press **Upload Drivers** to open dialogue windows for batch upload.

DriverUploadTempl ate.xlsx

- 3) Open the Excel template by clicking the hyperlinked 'here':
- 4) Complete the table. Use drop-downs for 'Site', 'Profile' and 'Shift time'. Up to 5000 drivers can be entered.
- 5) Save (name the worksheet) and close.
- 6) Press **Choose File** and navigate to the file.
- 7) Press **Next.** A successful import is confirmed by pop-up note.

## TOYOTA MATERIAL HANDLING

	HANDLING				I_Sil	te		*
6 Home	Utilization	Shocks	¥= Pre-Op. Check	Diary	Manage Site	کری Administration	My Fleet	2 Help
Machin	ge Site	~	TMHE Service Market	Mjölby				
Acc	iroups > pload Drivers • To add a batch		Driver you must use the Driv late is unique for you Browse		nplate that can be			ARCH CEEAR

If unsuccessful, a message will specify incorrect worksheet entries.

8) Download the 'Upload Report' and make the required corrections. Continue per steps 6) – 8) above.

Upload Drivers	×
• To add a batch of Drivers you must use the Driver Upload Template that can be downloaded here. Please note that the template is unique for you and must not be shared with others.	
Select file Browse	
	NEXT

#### 5.6.3 Editing driver details

- 1) Go to the **Manage Site** tab (select site if you have access to more than one site).
- 2) Click Drivers on the left navigation panel.
- 3) Enter search criteria for 'Driver name', 'Driver group' (see next section), 'Add info' or 'License expires before' or leave blank.
- 4) Press Search.
- 5) Mark the checkbox for a driver (or click the driver name) or mark a range of drivers or press Select All.
- 6) Press **Configure Selected** to open the 'Driver details' dialogue window.

With several drivers selected, data that differ between the drivers will be shown as 'Multiple values'. Data entered in those fields will apply to all the selected drivers. Individual driver data will not change if left as 'Multiple values'.

## TOYOTA MATERIAL HANDLING

TOYOTA MATERIAL HANDLING			I_Si	te		,	*
Home Utilizatio	n Shocks	Pre-Op. Check	Diary Manage Site	Administration	K My Fleet		? Help
Manage Site		Demo Warehouse LS	Support Gothenburg				
Machine Groups Machines	>	Drivers					
Driver Groups Drivers Access Overview	> > >	Driver	PIN Code Select Driver Groups Driver Groups	Additional Info 1		SEARCH	CLEAR
		Total summa		SELECT ALL CON	IFIGURE SELECTED		
		Driver 01258 Driver Driver 1	Driver * PIN *	01258		DELETI	
		Driver 2 Driver 2 Driver 3	Card ID Profile Shift Times	2 8x5	T	•	
			Driving License Additional Info 1 Additional Info 2	11/6/2018       Driver one       Reach Trucks	To 11/22/2018	MACHINES TO DRIVE	R UPDATE

## 5.6.3.1 Driver name (*Single driver selected only*).

When changing a driver name, earlier operating data will be referred to the new name.

## TOYOTA MATERIAL HANDLING

Driver details	
Driver *	01258
PIN *	01258
Card ID	
Profile	1
Shift Times	8x5 •
Driving License	То
Additional Info 1	
Additional Info 2	

## 5.6.3.2 PIN code (*Single driver selected only*).

Driver PIN codes may be changed; however, it can affect the accuracy of reports. Alternatively, recreate the driver and remove machine access from the earlier driver account.

## 5.6.3.3 Card ID

The feature requires that your site is enabled for the Smart Access usage. Please consult your TMH representative. The feature is described in 5.7.2.

## 5.6.3.4 Profile

Profile settings affect machine performance as activated on the machines. Please consult your TMH service representative.

The 'Lockout Reset' profile allows resetting shock and POC lock-outs (see following sections).

The 'Supervisor Lockout' profile provides possibility to block the usage of a machine. Note: The profile does not include the lock-out reset possibility.

### TOYOTA MATERIAL HANDLING

Driver details		
Driver *	Supervisor Lockout	
PIN *	00050	
Card ID	C74A	
Profile	Supervisor Lockout	]
Shift Times	1 2	•
Driving License	3 4 5	Го
Additional Info 1	6	
Additional Info 2	8	
	Lockout Reset	
	Supervisor Lockout	

## Shift times

The shift time specifies drivers work schedule and forms the basis for utilization calculations (see following sections).

Select the appropriate shift time from the drop-down menu. For best utilization calculations, select the maximum number of days the driver is likely to be working, i.e. 7 days even if working weekends only occasionally. The '0x0' alternative will not add to utilization rates – Suitable for servicing personnel.

Recorded utilization rates will not be recalculated when changing shift schedule settings.

Profile 1-8: Standard driver.

**Profile 9:** For autopiloted machines.

## 5.6.3.5 Driving license

The driving license period controls for how long drivers will have machine access. When expired, the driver access is blocked. If left blank, there is no time limit.

## 5.6.3.6 Additional info

May be used for any driver related information, e.g. driver group or work area.

## 5.6.3.7 Delete drivers

The delete driver function will erase earlier data. An alternative as a first step is to disable machine access and change to the 0x0 work schedule.

To delete a driver, press Delete.

### TOYOTA MATERIAL HANDLING

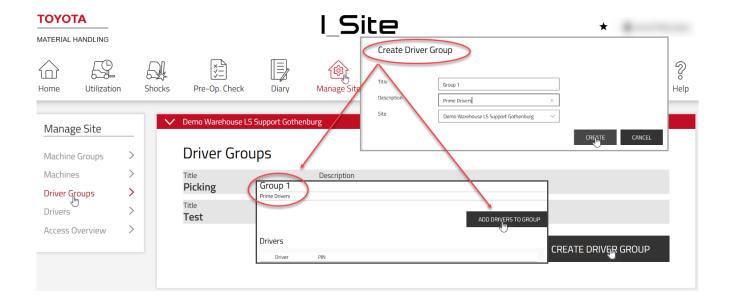
When done, click **Update.** In the pop-up, select **Save** if there are more drivers to be edited. When finished with all drivers, select **Send SMS & Save** for a prompt download. Parameters that are server settings only will not generate the **Save/Send** window.

### 5.6.4 Driver groups

## 5.6.4.1 Creating driver groups

For better overview and swifter driver management it might be useful to form driver groups, e.g. departments or work shifts. Drivers can belong to several groups.

- 1) Go to the **Manage Site** tab.
- 2) Click Driver Groups on the left navigation panel.
- 3) Press **Create Driver Group** to open the 'Create Driver Group' dialogue window.
- 4) Enter Title and Description and select Site.
- 5) Press Create.
- 6) Press Add drivers to group.
- 7) Enter search criteria (driver name, add. info) or leave blank for all drivers.
- 8) Press Search.
- 9) Add drivers by clicking the 🛨 (not drag and drop). Added drivers will be listed in the left column.
- 10) Press **Close** when finished.



TOYOTA MATERIAL HANDLING

## 5.6.4.2 Editing driver groups

- 1) Go to the **Manage Site** tab (select site if you have access to more than one site).
- 2) Click **Driver Groups** on the left navigation panel.
- 3) Click the driver group to be edited.
- 4) Add drivers as described above. Delete drivers by clicking the x-sign next to the driver name.
- 5) Press **Close** when finished.

## 5.6.4.3 Deleting driver groups

Deleting a driver group requires that all drivers in the group have been removed from the group. A garbage can will then appear.

- 1) Remove all the drivers from the driver group.
- 2) Press trash bin icon to delete driver group.

### 5.6.5 Assigning machine access

Assigning machine access can be done from both the driver and the machine dialogue windows. This section describes the procedures using the driver windows alternative. For assigning access by using the machine dialogue windows, see 6.4

- 1) Go to the **Manage Site** tab (select site if you have access to more than one site).
- 2) Click **Drivers** on the left navigation panel.
- 3) Enter search criteria in the fields for 'Driver name', 'Driver group', 'Add info' or 'License expires before' or leave blank.
- 4) Click Search.
- 5) Mark the checkbox for a driver (or click the driver name), mark a range of drivers or press Select all.
- 6) Press **Configure Selected** to open the 'Driver details' dialogue window.

TOYOTA MATERIAL HANDLING

Driver	PIN Code	Additional Info 1	Additional Info 2	
License exp. before	Select Driver Groups			
	Driver Groups	$\sim$		
	SEL		SEARCH	CLEAR RS CREATE DRIVER
Total summary Number of selected drivers:	Driver details	1		DELETE UPDA
Driver 01258	Profile	1		
Driver Driver 1	Shift Times Driving License	8x5	▼ 11/22/2018	
Driver  Driver 2	Additional Info 1	Multiple values		
	Additional Info 2			
		1		CLOSE UPDA
	Assigned machine	es		
	Machine	Model Machi	ne Brand	
	8DEM015-10003	8FGF15		
	8DEMO-TeraTerm1	8FG15 Fleet P	lo	

See 5.6.5 for an illustration of steps 1) - 6.

- 7) Click Add machines to driver.
- 8) Leave search fields blank or limit the search by selecting machine group (see following section) from the drop down or enter criteria for:
  - Driver name Convenient for copying the machine access of a current driver to a new or a range of new drivers as selected. The entire name has to be entered and correctly spelled.
  - Machine number Incomplete machine number can be entered.
  - Machine brand Enter a brand's two-letter designation.
  - Fleet number Incomplete fleet numbers can be entered.

### TOYOTA MATERIAL HANDLING

9) Press Search.

Machines, that the selected driver or any of the drivers of the selected range already can access, are displayed in the left column.

- 10) Add machine access by clicking on the  $\textcircled{\bullet}$  icon or press **Add all.** The selected drivers will get access to the added machines.
- 11) Click **Update** when done. In the pop-up, select **Save** if there are more drivers to be assigned machine access. When finished with all drivers, select **Send SMS & Save** for a prompt download.

#### 5.6.6 Synchronizing driver information

Machines that are not updated with the latest driver information are indicated by a '**NN machine(s) out of sync'** button. To synchronize:

- 1) Go to the **Manage Site** tab. Several sites may be selected.
- 2) Click Drivers.
- 3) Press the **NN machine(s) out of sync** button.
- 4) Press Send.

$\sim$	ТМНЕ				
	Drivers				
	Driver	PIN Code	Additional Info 1	Additional Info 2	
	License exp. before	Select Driver Groups	~		
		Update machines with latest driver in Do you want to send driver info to the again?		SEARCH	CLEAR
	SELE	<ul> <li>STO</li> <li>20</li> <li>63</li> <li>POC</li> <li>Disc</li> </ul>	/ERS	CREATE DRIVER 21 MA	CHINE(S) OUT OF SYNC
		63 DEMO Test Demo	v		

#### 5.6.7 Driver access overview

Drivers access to the various machine types is available from the 'Access Overview' chart.

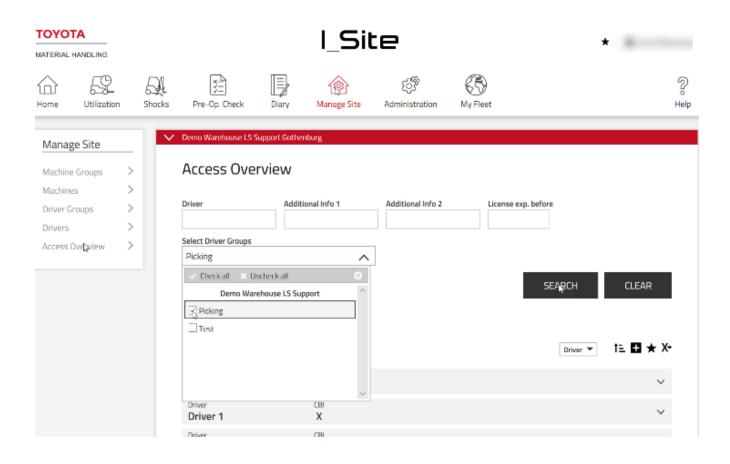
- 1) Go to the Manage Site tab. Several sites may be selected.
- 2) Click Access Overview on the left navigation panel.
- 3) Leave search fields blank or limit the search by making a selection.

### TOYOTA MATERIAL HANDLING

#### 4) Click Search.

Passing the cursor over the machine type acronym will display the full description.

Passing the cursor over the X will display the number of trucks of that type and how many of these the driver may access.



### 5.6.8 Deleting machine access

Deleting machine access can be done from both the driver and the machine dialogue windows. This section describes the procedures using the driver windows alternative. For deleting access by using the machine dialogue windows, see 6.4.2.

- 1) Go to the **Manage Site** tab (select site if you have access to more than one site).
- 2) Click Drivers.
- Enter search criteria in the fields for 'Driver name', 'Driver group', 'Add info' or 'License expires before' or leave blank.
- 4) Click Search.
- 5) Mark the checkbox for a driver (or click the driver name), mark a range of drivers or press Select all.
- 6) Press **Configure Selected** to open the 'Driver details' dialogue window.

See 5.5.2. for an illustration of steps 1) - 6).

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- 7) Click the S icon to the left of the machine number to delete access for the driver or range of drivers as selected.
- 8) Press Update. In the pop-up select Send SMS & Save for a prompt download.

Manage Site Machine Groups Machines	>	Driver details			DELETE	UPDATE
Driver Groups	>	Driver *	01258			
Drivers	>	PIN *	01258			
Access Overview	>	Card ID				
		Profile	1	•		
		Shift Times	8x5		•	
		Driving License		То		
		Additional Info 1				
		Additional Info 2				
		* Field is hidden for users wi Assigned machines		nfo	CLOSE	UPDATE
		Machine	Model	Machine	Brand	
		8DEM015-10003	8FGF15 ^	Fleet No Select machine group	or family 🔻	

# 5.7 Smart Access

### 5.7.1 Assigning machines by means of Smart Access

Available with DHU, generation 2. Please consult with your TMH representative for this add-on feature.

With the Smart Access feature, drivers may access machines by means of personal id cards (requires that DHU, gen.2 is installed on all machines the driver can access). Besides the card reader on the machine, a programmer unit and corresponding software is required.

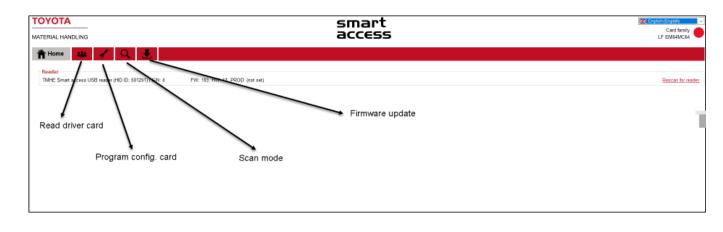
Smart Access software and installation instructions can be found in the I\_Site help menu, which is located in the upper right corner of the I\_Site web page.

# TOYOTA MATERIAL HANDLING

TOYOTA MATERIAL HANDLING	smart access		English (English)     Coloring (Carcol)     Coloring (Carcol)     Devision (Carcol)     Devision (Carcol)     English (English)     English (English)     Epshhol (Spanish)
Home     Lat.     Image: Comparison of the state	4 FW 1 HW 1 FROD (not set) Smart access	Card tanks	Espeñal (Santh) - Sav (Innoh) Magar (Innoh) Magar (Innoh) Magar (Innoh) Magar (Innoh) Malan (Nanh Palan (Nanh Pala
ТОУОТА	Put a sample card of the desired card family on the card reader and click 'Start' to scan. LE LE LE LE LE Current Le LE Le Smart		
MATERIAL HANDLING	Put a driver card on the reader.	U U	
	Copy Close		

To **assign drivers** to Smart Access card usage, proceed as follows:

- 1. Open the Smart Access program. Select language and 'I\_Site mode'.
- 2. In the 'Scan mode' tab: Place the driver access card above the programmer and click **Start.** The card family of your card will be identified by the scanner.
- 3. In the 'Read driver card' tab: Place the driver access card above the programmer again. The card id should say '(detected)'. Click **Copy.**



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- 4. Open I\_Site and go to 'Manage Site' and 'Drivers'.
- 5. Select the driver that should be assigned to the card and click **Configure Selected**.
- 6. Paste the copied number in the 'Card ID' field.
- 7. Click **Update**. In the pop-up, press **Save** if you are assigning several drivers. Select the **Send SMS and Save** alternative when you are finished only.

Driver details		DELETE UP	DATE
Driver *	01258		Ŀ
PIN *	01258		
Card ID			
Profile	1		
Shift Times	8x5	T	
Driving License	То		
Additional Info 1			
Additional Info 2			

To program a Configuration card for machine reader, proceed as follows:

- 1. Open the Smart Access program. Select language and 'I\_Site mode'.
- 2. In the 'Scan mode' tab: Place the driver access card above the programmer and click **Start.** The card family of your card will be identified by the scanner.
- 3. In the 'Setup Config Card' tab: Place the configuration card on the 'USB' reader to pick up the driver card type.
- 4. Press 'Write'. The card type will be recorded and confirmed by Config card data written successfully.
- 5. On truck: Place the configuration card on **each machine reader** to download the driver card type. Download is confirmed by the two indicator lights lightning up in blue for a second.



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### 5.7.2 Log on with Smart Access

To log on to a machine equipped with Smart Access :

- 1) Put the card on the card reader. The green light on the card reader will flash for 5 seconds.
- 2) Press the green button on the keypad while the green light is flashing. A green light on the keypad confirms that you are logged on.
  - A red light on the card reader indicates that you lack access to the machine.
  - Neither Green nor red lit up on the reader indicates that the reader has not been programmed for your type of access card.

# 6 Site management – Machines

(Requires the 'Machine Administrator' role)

# 6.1 General

Machine management comprises:

- Configuring machines regarding shock settings, server communication frequency and work shift schedules.
- Forming machine groups.
- Assigning driver access.

# 6.2 Configuring machines

1) Go to the Manage Site tab

You may select more than one site if machines at different sites should be configured in the same way. For adding driver access (see 5.3), a single site has to be selected

- 2) Click **Machines** on the left navigation panel.
- 3) Enter search criteria for **Machine**, **Fleet Number or Model** or make a selection based on **Machine family** or **Machine group** (see following section for grouping machines) or leave blank.
- 4) Press Search.

TOYOTA MATERIAL HANDLING

Manage Site	$\checkmark$	Demo Warehouse LS Support	t Gothenburg (XSE0005459	7)			•
Machine Groups	>	Machines					
Machines Driver Groups Drivers Access Overview	> > >	Machine Select machine family Machine Family	Fleet Number	Model Select machine groups Machine Groups	~		
		Total summary	nes: 1 Mar	hine Configura			 ) 
		Machine     BDEMO-Te					TRIGGER COMMUNICATION UPDATE
		BDEM015-	-10003		Machine ID 8DEM015-10015	Model 8FBE10	Brand TO
		Machine 8DEM015-	-10015		Fleet No 10015	Machine Family CBE - CB Electric	Has internal shock sensor N/A
			-	90	Lift Capacity N/A	Year Model N/A	
					<sub>Energy</sub> Electric	Key Hours (A)	Operating Hours (B)
					Drive Hours (C)	Lift Hours (D)	Owner Demo
					Last known state change 10/16/2019 1:01:39 PM	Last known state Locked out (Shock)	
							Machine Managemen RESET SHOCK LOCKOUT IMMOBILIZE ON/OFF

- 5) Mark the checkbox for a machine (or click the machine number), or mark a range of machines or click **Select all**.
- 6) Press **Configure Selected** to open the 'Machine Configuration' dialogue window.
- 7) Click the Machine Configuration to expand the configuration table. The table will have default settings filled in. The Desired configuration column is for adjusting parameters. The Current Configuration column shows actual settings on the machine.
- 8) Enter new settings by clicking the parameter value or the icon to the right. The configuration parameters are described in the drop-down list.

	Recommended	Current Configuration	Desired Configuration				
Shocks							
Lockout Enabled		Yes	Yes				
X-Threshold	19	19	0				
Y-Threshold	19	19	Yes				
Normal Profile Reset		No	0				
Normal Profile X Interval		19 -					
Normal Profile Y Interval		19 -	20-				

9) Click **Update** when completed. In the confirmation pop-up window, press **Send SMS & Save** for an immediate download.

Successfully downloaded and after refreshing the page, the left column should match the right column. Parameters that are server settings only will not generate **Save and Send**.

# TOYOTA MATERIAL HANDLING

# Shock settings

Shocks are registered in the forward / reverse directions (X axis) and left / right directions (Y axis) and reported on I\_Site.

Shock recordings vary with machine types and type of operation. Early shock level settings may therefore have to be adjusted after some time to fit your installation.

Factors that influences shock registrations are discussed in the attached appendix.



# 6.2.1 Shock levels

Shocks are registered as Low, Medium and High impacts depending on settings (see also 6.10).

- 1) Enter start number for the low level.
- 2) Continue with start numbers for the medium and high levels. The application will set the range ending values.

Changing shock level settings will not adjust earlier recordings.

Machine Configuration		
_	Current Configuration	Desired Configuration
Shocks		
Lockout Enabled	NO	No B
X-Threshold	15	15 3
Y-Threshold	15	15
Normal Profile Reset	No	No
Reporting Level Low	10 - 14	10 - 14
Reporting Level Medium	15 - 19	15-19 Jm 3
Reporting Level High	20 and above	20 and above

# 6.2.1.1 Shock lock-out

The shock lock-out feature offers an opportunity to closely monitor machine operations. When activated, impacts exceeding threshold levels will trigger the lock-out function. For many machine models, shock lock-outs impair operations, requiring machine reset. On I\_Site, shock lock-out incidents are indicated as padlock icons (see section 6.10).

TOYOTA MATERIAL HANDLING

Miscellaneous	I			
Comm Freq		Weekly, Monday	Weekly, Monday	3
				3
PIN reporting		Yes	Yes	3
Shift Times		8x5	8x5	3
Pre-Operational Check				
Enable Pre-Op. Check		Yes, once per 24h, all drivers	Yes, once per 24h, all drivers	ß
Start time		08:00	08:00	ß
Time until Timeout		1 minutes	1 minutes	3
For Lockout Reset profile		No	No	
Randomized questions		Yes	Yes	3
Checklist		Mats test 2	No	3

Shock lock-outs may be reset on the machine from I\_Site smartphone app or from the portal by means of the **Reset Shock Lockout** button, see 6.10.5.

Depending on which generation of DHU is installed (please consult your service representative), shock lock-out settings vary in that the upgraded version (DHU2) allows drivers to reset at lower shock levels, while supervisor reset is still required for higher levels. Related table rows are added automatically for DHU2 installations.

#### DHU – Generation 1

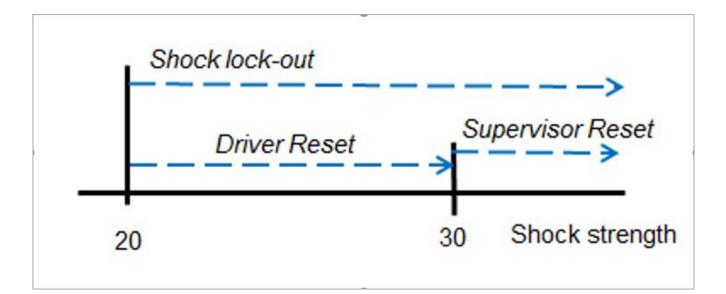
- 1) To activate, set Lockout Enabled to 'Yes'.
- 2) Set the threshold values for the X and Y directions.
- 3) If drivers are permitted to reset a shock lock-out, enter 'Yes' in the field for **Normal Profile Reset**. Requiring the 'Lockout Reset' profile, leave as 'No'.

# TOYOTA MATERIAL HANDLING

Machine Configuration			
	Current Configuration	Desired Configuration	
Shocks			
Lockout Enabled	Yes	Yes	
X-Threshold	7	Yes	1 0
Y-Threshold	7	No	3
Normal Profile Reset	No	No	12
Normal Profile X Interval	7 -	8 -	12
Normal Profile Y Interval	7 -	8 -	12
Reporting Level Low	2 - 3	2 - 3	12
Reporting Level Medium	4 - 5	4 - 5	13
Reporting Level High	6 and above	6 and above	12

#### DHU2- Generation 2

The generation 2 offers the opportunity for operators to reset shock lock-outs at a defined interval. The graph to the right illustrates the scenario that corresponds to the settings below.



- 1) To activate, set Lockout Enabled to 'Yes'.
- 2) Set the threshold values for the X and Y directions.
- 3) If drivers are permitted to reset a shock lock-out, enter 'Yes' in the field for **Normal Profile Reset**. Requiring the 'Lockout Reset' profile, leave as 'No'.

# TOYOTA MATERIAL HANDLING

4) For 'Yes', enter the upper values for the 'Normal Profile' resetting intervals. The example has it set to 29. Impacts stronger than 30 will then require a supervisor reset. The interval starting level is decided by the threshold settings.

Machine Configuration			
	Recommended	Current Configuration	Desired Configuration
Shocks			
Lockout Enabled		No	No 🕑
X-Threshold	15	15	29 🕜
Y-Threshold	15	15	29 🕜
Normal Profile Reset		No	Yes
Normal Profile X Interval		15 -	30 -
Normal Profile Y Interval		15 -	I
Reporting Level Low	10	10 - 14	20 - 28
Reporting Level Medium	15	15 - 19	29 - 29
Reporting Level High	20	20 and above	30 and above 🕜

If the 'Normal Interval' fields are left blank, the 'Normal Profile Reset' applies to all impacts above the threshold levels. To enable the reset function in this case, it is required, however, that at least one supervisor/driver with the 'reset profile' is assigned to the machine.

### 6.2.2 Battery settings

For machines that offer battery monitoring, parameter values are pre-entered for your installation but may require adjustments. If necessary, consult your TMH service representative for parameter setting assistance.

The **Enable BDI Notification** has to be set to 'Yes' and **When BDI lower than** has to be filled in to enable notification. To activate, see Notifications section 8.2 For battery performance viewing, see descriptions in 6.11.

For Li-ion Battery machine configuration view looks like the example below:

Battery Settings					
Battery size [Ah]	210 Ah	210 Ah	3		
Enable BDI Notification	No	Yes	3		
When BDI lower than	20	20	3		

# **TOYOTA** TOYOTA MATERIAL HANDLING

For electric (Lead) battery type it shows like example below:

Battery Settings			
Machine always uses the same battery	No	No	8
Battery size [Ah]	620 Ah	620 Ah	3
Rapid discharge parameter 1	45 minutes	45 minutes	8
Rapid discharge parameter 2	30 minutes	30 minutes	3
Enable BDI Notification	No	No	8
When BDI lower than	20	20	3

Note! The battery setting between battery type lead and Li-ion is done automatically based on the data sent by the truck, so if the truck has not sent data, there is a risk that the battery type is not adapted.

### 6.2.3 Miscellaneous

# 6.2.3.1 Communication frequency

Operating data collected by the DHU is conveyed to the I\_Site portal by means of scheduled communications. Daily communication is quite satisfactory for most installations.



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# 6.2.3.2 PIN reporting

For driver follow up, PIN reporting has to be activated.

Miscellaneous			
Comm Freq	Hourly, 2	Hourly, 2	3
			3
PIN reporting	Yes	Yes	•
Shift Times	8x5	Yes	3
Pre-Operational Check		No	2

# 6.2.3.3 Shift times

The shift time specifies work schedule and forms the basis for utilization calculations (see following sections).

Select the appropriate shift time from the drop down menu. For best utilization calculations, select the maximum number of days the machine or machines are likely to be operated, i.e. 7 days even if being used weekends only occasionally.

Recorded utilization rates will not be recalculated when changing shift schedule settings.

Miscellaneous			
Comm Freq	Hourly, 2	Hourly, 2	ß
			ß
PIN reporting	Yes	Yes	ß
Shift Times	8x5	8x5	T
Pre-Operational Check		5x6 5x7	•
Enable Pre-Op. Check	Yes, once per 24h, all drivers	5.5x5	rs 🕜
Start time	15:30	5.5x7 6x5	3
Time until Timeout	5 minutes	6x6	3
For Lockout Reset profile	No	6.5x5 7.5x5	3
Randomized questions	Yes	7.5x6	3
Checklist	170904 test	7.5x7 7.6x5	3
		8x5	

TOYOTA MATERIAL HANDLING

### 6.2.4 Pre-Operational Check (POC)

Machine configuration parameter settings as well as creating check lists and results are described in section 6.2. and section 10.8

#### 6.2.5 Immobilize On/Off

The immobilizing feature offers impairing machine operation (Immobilize On) and resetting impaired machines (Immobilize Off) from the portal. Requires the 'Immobilizer' role.

- 1) Press the Immobilize On/Off button to open the dialogue window.
- 2) Enter the reason for the activity.
- 3) Press **On** to impair operation (as supported by machine functions).
- 4) Press Off to reset the machine (POC lock-out or Immobilize On)

Ma	chine Configura	tion		
				TRIGGER COMMUNICATION UPDATE
	MP.A	Machine ID 8DEMO15-10015	Model 8FBE10	Brand TO
		Fleet No 10015	Machine Family CBE - CB Electric	Has internal shock sensor N/A
	RO	Lift Capacity N/A	Year Model N/A	
Immobilize On/Off		×	Key Hours (A)	Operating Hours (B)
Enter reason for Immobil	ize On/Off		Lift Hours (D)	owner Demo
Immobilize ON			Last known state Locked out (Shock)	
	(		R	

#### TOYOTA MATERIAL HANDLING

#### 6.2.6 Last known state

The last known state offers information on the latest management action taken on the unit and when it occurred. The following states are shown:

- Locked by supervisor at the machine.
- Locked from Immobilize On.
- Locked out from POC failure or high shocks.
- Active, the machine is operational. Any lock-out was reset.

Machine	I	Fleet Number	From date 10/21/2018	To date 11/20/2018	🔲 Incl	lude Historical D	ata
Select machin	ne groups						
Machine Gr	roups	$\sim$	•				
					ŞE/	ARCH	CLEAR
🖬 Tota	al summary	/					
		<b>/</b> :00 Utilization: 0.00%	Shocks: 0 Error: 0		Utiliza	tion <b>v</b> 17	∎ ★ ୠ X•
Machines: 2	Run Hours: 00:	:00 Utilization: 0.00% Fleet No	Utilization	Run Hours	Shocks	BSI	<b>ቿ ★</b> ඛ X• ^
Machines: 2 Mach 8DE	Run Hours: 00: nine EM015-1000	:00 Utilization: 0.00% Fleet No <b>3 10003</b>	Utilization 0.00%	00:00	Shocks O	BSI N/A	^
Machines: 2 Mach 8DE	Run Hours: 00 hine EMO15-1000 No Warehouse LS Sup et No. 10003 = Las	00 Utilization: 0.00% Fleet No 3 10003 pport Postal code: 41313 topdated: 7/27/2018 11:20	Utilization 0.00% City: Gothenburg Own 0:51 AM Error: N/A	00:00	Shocks O	BSI N/A	^
Machines: 2 Mach 8DE	Run Hours: 00: nine EMO15-1000 No Warehouse LS Sup Chio: 10003 🚍 Las No state: Communica	00 Utilization: 0.00% Fleet No 3 10003 apport Postal code: 41313	Utilization 0.00% City: Gothenburg Own 0:51 AM Error: N/A	00:00	Shocks O	BSI N/A	^

### 6.2.7 Trigger communication

The feature may be used to request data transfer between the server and machine on demand. It will download from the server any machine or driver settings that have not yet been updated on a machine or range of selected machines.

To request, press **Trigger communication** at the top of the page (for illustration, see 6.2).

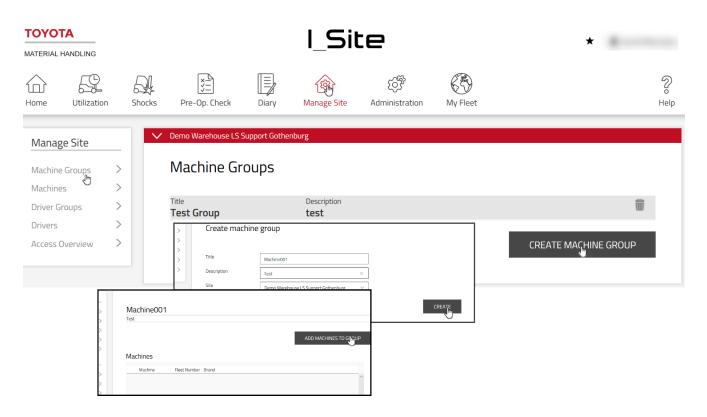
#### TOYOTA MATERIAL HANDLING

### 6.3 Machine groups

For better overview and swifter machine management, it might be useful to group machines, e.g. departments or work shifts. Machines can belong to several groups.

#### 6.3.1 Creating machine groups

- 1) Go to the Manage Site tab.
- 2) Click Machine Groups on the left navigation panel.
- 3) Press Create machine group to open the 'Create machine group' dialogue window.
- 4) Enter **Title** and **Description** and select **Site**.
- 5) Press Create.
- 6) Press Add machines to group.
- 7) Enter search criteria or select machine family from the drop-down menu or leave blank for all machines on the site.
- 8) Press Search.
- 9) Add machines by clicking the 🛨 (not drag and drop). Added machines will be listed in the left column.
- 10) Press **Close** when finished.



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#### 6.3.2 Editing machine groups

- 1) Go to the Manage Site tab (select site if you have access to more than one site).
- 2) Click Machine Groups.
- 3) Click on the machine group to be edited.
- 4) Add machines as described above. Delete machines by clicking the x-sign next to the machine serial number.
- 5) Press **Close** when finished.

#### 6.3.3 Deleting machine groups

Deleting a machine group requires that all machines have been removed from the group. A garbage can will then appear.

### 6.4 Assigning driver machine access

Assigning driver access from the machine dialogue windows require the 'Server Managed' setting, see 5.4. To assign driver access from the driver dialogue windows, see 5.6.5.

- 1) Go to the **Manage Site** tab (select site if you have access to more than one site).
- 2) Click **Machines** on the left navigation panel.
- 3) Enter search criteria for Machine, Fleet Number or Model or make a selection based on Machine family or Machine group or leave blank.
- 4) Press Search.
- 5) Mark the checkbox for a machine (or click the machine number), mark a range of machines or press Select all.
- 6) Press **Configure Selected** to open the 'Machine Configuration' dialogue window.

See for an illustration of steps 1) – 6).

7) Click the **Driver bar** to expand the driver table.

Drivers that have access to the selected machine already or to any of the machines of the selected range will be displayed

- 8) Press Add drivers to open the dialogue window.
- 9) Leave search fields blank or enter criteria for:
  - Driver name Incomplete driver name can be entered.
  - Additional Info
  - Machine number Convenient for copying the driver list of a machine already in operation to a new or a range of new machines as selected. The entire machine number has to be entered correctly.
- 10) Press Search.
- 11) Add driver access by clicking the ⊕ icon or press **Add all.** Added drivers will get access to the machine or range of machines as selected.

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- 12) When done, click **Update.** In the pop-up, select **Save** if there are more drivers to be assigned machine access. When finished with all machines, select **Send SMS & Save** for a prompt download.
- 13) Click the **Driver bar** to minimize the driver table.

		Add drivers		×	L DRIVERS ADD DRIVERS	5
	Description				ifo 1	
0	Driver 1	Driver	Additional Info 1	1	2	
0	Driver 2	Driver001	SuMan		,	
٥	Driver 3	Additional Info 2			ee	
٥	Supervisor Lock				Lockout	
٥	Unlock			D ALL CEADELL		
			AD	D ALL SEARCH		5

### 6.4.1 Synchronize machine with latest driver list

A machine that is not updated with the latest driver list will have an indication *(Machine out of sync)* on the 'Drivers' bar. To synchronize:

- 1) Click the **Driver bar** to expand the driver table.
- 2) Press the **Resync PIN codes** button.
- 3) In the pop-up window, press **Send.**

Alternatively, use the **Trigger communication** function, see 6.2.

Drive	rs (Machine out of sync)			(J	)
			REMOVE ALL DRIVI	TERS RESYNC PIN CODES ADD DRIVERS	5
	Description	PIN Code		Additional Info 1	
0	Ant	98		Sat	
0	Esi	55		Yrit	

#### 6.4.2 Delete drivers from machine access

- 1) Go to the **Manage Site** tab (select site if you have access to more than one site).
- 2) Click Machines on the left navigation panel.
- 3) Enter search criteria for Machine, Fleet Number or Model or make a selection based on Machine family or Machine group or leave blank.
- 4) Press Search.

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- 5) Mark the checkbox for a machine (or click the machine number), or mark a range of machines or click **Select all.**
- 6) Press **Configure Selected** to open the 'Machine Configuration' dialogue window.

See for an illustration of steps 1) –6).

- 7) Click the **Driver bar** to expand the driver table.
- 8) Click the S icon to the left of the driver name to delete access from the machine or range of machines as selected.
- 9) Press **Update**. In the pop-up select **Send SMS & Save** for a prompt download.

# 6.5 Report viewing sites

#### 6.5.1 Site summary

- 1) Click the Utilization tab to open the site overview window.
- 2) Enter search criteria if you have access to several sites or leave blank. Press **Search**.

A summary of machines and drivers at the site or sites, as selected, will be displayed.

- 3) Click the hyperlinked numbers of machines or drivers to open detailed dialogue windows:
  - 'Quantity' Number of machines and drivers at the site. May differ from current conditions if the numbers have changed during the period.
  - 'Util. Avg.' Average utilization rates based on number of machines and drivers during the period.
- 4) 'Shock Avg.' Average number of shocks

Click the  $\checkmark$  icon to display location details. Click the  $\land$  icon to close.

#### TOYOTA MATERIAL HANDLING ΤΟΥΟΤΑ l Site MATERIAL HANDLING ß ×. Þ Z f)} Ð 64 ínì 鎆 Home Utilization Shocks Pre-Op. Check Manage Site My Fleet Help Diary Administration Utilization Utilization - Site > Sites > Driver Name Postal code City From date To date > Machine 13/10/2018 12/11/2018 > Contract Select country Activity Country $\sim$ Show only active sites Drivers > SEARCH CLEAR Machines > > Batteries Total summary Sites: 3 Total machines: 32 Machine utilization: 0.64% Machine shocks: 3.63 te 🖪 ★ എ X+ Site name 🔻 Total drivers: 276 Driver utilization: 0.37% Driver shocks: 0.35 Machine Drive Site name Shock Ouantity Util. Avg. Quantity Util. Avg Shock Demo Warehouse LS Support Avg. **2** 0.00% 9 0.00% Avg. 0.00 0.00

# 6.6 Report viewing machines

# 6.6.1 Utilization rates

- 1) Click the Utilization tab (select site or sites if applicable).
- 2) Go to the **Utilization** heading on the left navigation panel.
- 3) Click Machines.
- 4) Enter search criteria or leave blank. The field for machine groups will appear if a group or groups have been created (several groups may be selected).
- 5) Press Search.

A summary of site data is given at the top of the listing.

The following data are shown for the selected time period:

- 'Machine' = Machine serial number.

Click the number to open the 'Machine Configuration' page.

- 'Fleet No' = Machine reference number at the site.
- 'Utilization' = Operated [Run] hours in relation to the set work schedule.
- 'Run Hours' = Total time the machine has been operated.
   Click the number to open the Activity report, see next section.

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- Shocks = Number of impacts. Click the number to open the Shocks Machines (6.10) wrong index
- BSI = Battery status indicator. Click the icon to open the battery graph (6.15.3). wrong index
- Machine serial number. Click the number to open the 'Machine Configuration' page.
- 6) Click the icon to expand machine details. Besides site information, type of ownership and machine specifications the following is also shown:
  - 'Last updated' is when data was last transferred between the unit and the server.
  - 'Last known state' and '... change', see 6.2.6.
- 7) Click the Ticon to close details.

TOYOT	rerial handling								*			
Home	Utili	Shoc	· –	p. Check	Diary	ि Manage Site	ری Administration	K Fleet				Help
Utilizati	on		V Demo Wa	rehouse LS Si	upport Goth	enburg						
Sites		>	Utiliz	ation -	Machi	nes						
Driver		>										
Maching		>	Machine		Fleet	t Number	From date	To date		lude Histo	rical Data	
Contract		>					15/10/2018	14/11/2018		.1000 111500	ncui Data	
0			Select ma	chine groups			_					
Activity		- 11	Machine	e Groups	F	$\sim$	•					
Drivers		>							SE	ARCH		LEAR
Machines		>										
Batteries		>										
			🖬 To	otal sum	mary							
			Machines Error: <b>0</b>	: <b>2</b> Run Ho	ours: <b>00:00</b>	Utilization: 0.00%	Shocks: <b>0</b>		Utiliza	ution 💌	te 🖶	★ എ X+
				lachine DEMO1	10003	Fleet No 10003	Utilization 0.00%	Run Hours <b>00:00</b>	Shocks <b>O</b>	<sup>bsi</sup> N/A		$\checkmark$

#### TOYOTA MATERIAL HANDLING

#### 6.7 Activity reports

- 1) Click the **Utilization** tab. Multiple sites may be selected but the listing will not separate machines to the selected sites.
- 2) Go to the Activity heading on the left navigation panel
- 3) Click Machines.
- 4) Enter search criteria or leave blank. The field for machine groups will appear if a group or groups have been created (several groups may be selected).
- 5) Press Search.

A summary of activity data is given at the top of the listing.

Operating data are reported for each working pass per machine and for the selected time period (limited to 1 month), comprising:

- 'Machine' = Machine serial number (For a long number, pass the cursor over it to see it in full).
- 'From To time' = Working pass start and finish hour.
- 'Key time' = Time the machine has been turned on.
- Drive and lift times add up to the operating time (Op. Time). Simultaneous driving and lifting add as a single movement.
- Op. Ratio = Operating ratio, i.e. the ratio between operating and key times.
- 6) Click the V icon to expand details including machine and driver information. 'Time with Load' is the operating time that a load is carried on the forks. Please consult your TMH service technician about availability on your machines.
- 7) Click the 🔨 icon to close details.

TOYOT					l_Sit	e				*	
Home	Utilization	Shocks	¥= Pre-Op. Check	Diary	ر کی Administration	65) My Fleet					? Help
Utilizati	ion										
Sites	>		Activity - Ma	achines							
Driver	>	,				_					
Machine		>	Machine	Fleet Nur	nber	From date 07/11/201	To date	1/2018			
Contract	>	·	Select machine groups			07717201	1471	72010			
Activity	1		Machine Groups		$\sim$						
Drivers					ſ						
Machines	5	•							SEARCH	CLE	AR
			🖬 Total sum	mary							
			Key Time: 964 Operating Ratio: 38%	Operating Tir	ne: <b>368</b>				From date 🔻	E∎★	ୁ କାX+
			Machine 64	From time 13:31	To time 13:31	Key Time 00:00:04	Drive Time: 00:00:00	Lift Time: 00:00:00	Op. Time 00:00:00	Op. Ratio 0%	Îm
			From date: 14/11/20	018 13:31:06  ■ To		3:31:10		Logoff Method Model: LP	: Normal III Time w. Loa	d: 00:00:00	Ŭ
			Machine 66	From time 13:19	To time 13:20	Key Time 00:00:34	Drive Time: 00:00:00	Lift Time: 00:00:00	Op. Time <b>00:00:00</b>	Op. Ratio 0%	~
			Machine 65	From time 13:05	To time 13:05	Key Time 00:00:02	Drive Time: 00:00:00	Lift Time: 00:00:00	Op. Time <b>00:00:00</b>	Op. Ratio 0%	$\sim$

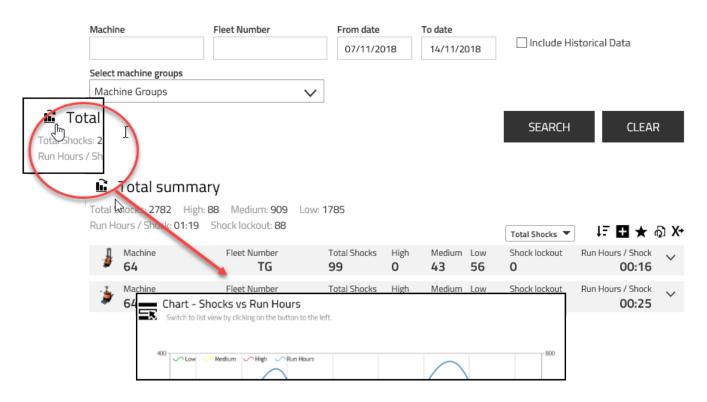
#### TOYOTA MATERIAL HANDLING

# 6.8 Charts

Reported utilization, activities and shocks information may be viewed as charts.

- 1) Click the chart icon at the left top corner of the table.
- 2) Adjust time settings and resolution as you find useful.
- 3) Click the table icon to get back to the listing.

# Shocks - Machines



# 6.9 Shocks – Drivers

To access Shocks drivers:

- 1. Click on the SHOCKS in the top bar
- 2. Click on **DRIVERS** in the side bar under Shocks

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TOYOTA	ING				I_Si	te			*
Home Uti	lization	Shocks	Pre-Op. Check	Diary	Manage Site	ر Administration	(F) My Flee	t	Неlp
Shocks		~	Demo Warehouse LS	Support Gothent	ourg				
Drivers Machines	>		Shocks - D	rivers					
Shock Details	>		Driver	Additio	nal Info 1	Additional Info 2		From date         To date           10/16/2018         11/15	5/2018
			Select Driver Groups			_			
			Driver Groups		$\sim$	•			
								SEARCH	CLEAR
			🖬 Total sur	nmary					
					0 Low: 0 Ru	in Hours / Shock: 00:00	)	Total Shocks 🔻	t⊑ 🖬 ¥ ĝ X↔
			Driver ID 01258	T (		ligh Medium D O	Low O	Run Hours / Shock	^
			Site: Demo Wareh	ouse LS Support 🗏	Postal code: 41313	City: Gothenburg 🗏 Ad	ditional Info 1:	Additional Info 2:	

### 6.9.1 Searching shocks drivers

Following filters can be used to search drivers that created shocks. Searching without any filters applied will result in showing drivers assigned with data relating to the last 30 days.

Driver	Search by full or partial name of the driver
Additional	Additional info regarding the driver
Info 1	
Additional	Additional info regarding the driver
Info 2	
From date	Search from a specific date. Modifies driver related statistics. Default value is
	date 30 days in the past. Date selection is mandatory
To date	Search by a specific date. Modifies the driver related statistics. Default value
	is current date. Date selection is mandatory

# Total summary

Total Shocks: 2800 High: 306 Medium: 868 Low: 1626 Run Hours / Shock: 02:31

Ruil Houls / Shock. 02.51					Total Shocks 🔻	ៃ 🖬 ★ ໖ እ↔
Driver ID	Total Shocks 148	High <b>22</b>	Medium 56	Low 70	Run Hours / Shock 00:20	^
Site:	Postal code:	Cit	y: OOSTRUM	Additional Inf	fo 1: expeditie 🗏 Additional Info 2: flex	

#### TOYOTA MATERIAL HANDLING

Driver ID	Name of the selected driver
Total Shocks	Total amount of shocks registered on the selected driver
High	The number of high level shocks created in the selected time span
Medium	The number of medium level shocks created on the selected time span
Low	The number of low level shocks created on the selected time span.
Run Hours/Shocks	The amount of time the driver has worked before creating a shock.
Site	Name of the site where the driver is located
Postal Code	Postal code of the site where the driver is located
City	Name of the city where the drivers site is located
Additional Info 1	Here you can find additional information regarding the driver profile
Additional Info 2	Here you can find additional information regarding the driver profile

### 6.9.2 Investigating further

### 6.10 Shocks – Machines

#### 6.10.1 Shocks summary

- 1) Click the **Shocks** tab (select site or sites if applicable).
- 2) Click **Machines** on the left navigation panel.
- 3) Enter search criteria or leave blank. The field for machine groups will appear if a group or groups have been created (several groups may be selected).
- 4) Press **Search.** This will display summaries for machines as selected.

The **Run Hours / Shock** is calculated based on operating time and number of total shocks. In cases of only one or no shocks, the number is equivalent to the operating time for the selected period.

- 5) Click the hyperlinked **Total Shocks** number to open the 'Shock Details' dialogue window, see next section.
- 6) Click the V icon to display site and machine details. Click the A icon to close.

# TOYOTA MATERIAL HANDLING

TOYOTA MATERIAL HANDLING			I_Si	te		*
Home Utilization	on Shock	s Pre-Op. Check	Diary Manage Site	Administration	(F) My Fleet	8 Help
Shocks		V Demo Warehouse LS Sup	port Gothenburg			
Drivers	>	Shocks - Mac	hines			
Machine <sub>s</sub> Shock Details	>	Machine	Fleet Number	From date 15/10/2018	To date 14/11/2018	Include Historical Data
		Select machine groups Machine Groups	~	•		
						SEARCH CLEAR
		🖻 Total summ	nary			
		Total Shocks: 0 High: Run Hours / Shock: 00:0				Total Shocks マ ↓ F 🖬 ★ බ X+
		Machine 8DEM015-1	Fleet Number 00 10003	Total Shocks High	Medium Low	Shock lockout Run Hours / Shock V 0 0
		Machine 8DEMO-Tera	Fleet Number	Total Shocks High O O	Medium Low	Shock lockout Run Hours / Shock V 0 0

### 6.10.2 Shock details

- 1) Click the **Shocks** tab (select site or sites if applicable).
- 2) Click **Shock Details** on the left navigation panel.
- 3) Enter search criteria (see below regarding 'Comments') or leave blank.
- 4) Mark the **Include Reset Information** checkbox to display who reset a shock lock-out. It shows also if it was reset at the machine (**Machine**) or remotely (**Web/App**), see 6.10.2.
- 5) Press **Search.** This will display machine (and driver) shock information as selected.

# TOYOTA MATERIAL HANDLING

TOYOTA MATERIAL HANDLING		l_Site		*   1
Home Utilization Shocks	Pre-Op. Check Diary	الله الله الله الله الله الله الله الله	n My Fleet Map	2 Help
Shocks Drivers > Machines >	DAGAE Shock Details			
Shock Details	Machine Fleet Num	nber Driver	Additional Info 1	
4	Additional Info 2 From Date 9/22/20			0
	Select Shock Type(s) Shock Level	Select Category Category	Select Damage	
	□ Lockouts □ Missing Comments	Include Reset Information	SEAR	ch clear
	Total Summary Total: 5252 High: 549 Medium: 12	75 Low: 3428	Dat	•× ا≣ <b>±</b> ⊕ X•
	A Date 9/29/2020 1:22:42	Driver PM Emma	Machine X X X 67 3 3	Y Comment 22 📮 💙
	A Date 9/29/2020 1:22:37	Driver PM Emma		Y Comment
	A Date 9/29/2020 1:21:20	Driver PM Fredrik	Machine X 67 8	Y Comment
	△ ▲ <sup>Date</sup> 9/29/2020 1:17:18	Driver PM Jörgen	Machine X 7 65 17	Y Comment
	A Date 9/29/2020 1:16:02	PM Alexander	Machine X X 5	Y Comment 36 📮

For a quick overview, shock magnitudes are indicated by symbols:

- 📥 Low
- 📥 Medium
- 📥 High

Impact that exceeds the limit for shock lock-out.

For shock lock-out and shock level settings, see Machine Configuration 6.2. Adjusting shock level settings will affect new shock registrations only. Already recorded shocks will not change.

### TOYOTA MATERIAL HANDLING

▲ <b>–</b>	9/29/2020 2:26:44 PM Date 9/29/2020 2:16:43 PM	Mikael <sub>Driver</sub> Alexander	664 Machine 673	22 ×	7 Y 21	Comment	• •
🔺 🔺	Date	Driver	Machine	×	Y	Comment	~
▲ 🔒	Date 9/29/2020 2:29:02 PM	Driver Andreas	Machine 675	× 22	Y 10	Comment	~

The shock details table displays the strongest impacts in the X and Y directions during each working pass on two separate rows.

(Working pass = Login – Logout). Shock lock-outs are registered directly on the portal with DHU2 installed on the machine.

The DHU2 registers impacts also while the machine is parked. Driver information is then committed. Click the  $\checkmark$  icon to view additional information and to enter comments (next). Click the  $\land$  icon

#### I\_Site shock recordings

By means of a shock sensor, I\_Site offers registration of impacts for improved safety and reduced damages to machines, goods and racking. Information includes time, which machine and who was driving plus if the impact was minor or substantial.

### 6.10.3 Interpreting shock reports

As described above, a I\_Site reading of 10 corresponds approximately to a deceleration of one `g` or 10im/s². For a 6 ton, this gives an impact force of about 60 kN (kilo Newton) or 6 000 kp (kilopond) which is the same gravity force the truck is putting on the floor, however distributed on 4 wheels.

Imagine that the truck is jacked up on a single support column right in the middle underneath. The stress on the floor under that single support will be 4 times that caused earlier by each wheel on the corresponding floor areas. It`s the same thing with impacts. If caused by a head on collision against a wall by a vehicle without lifting devices, the damage to the wall will be limited even at relatively high shock readings. On the other hand, if the same shock reading is due to the point of one of the support arms hitting the wall, the resulting damage will be considerable.

As the impact is proportional to the weight of the vehicle, a shock reading of 15 for a reach truck will cause a lot more damage than the same shock reading of 15 caused by a small pedestrian truck. Already, if going at the same speed, a reach truck will cause more damage to a racking column than a pedestrian truck. Still, the shock value will be lower for the reach truck than for the pedestrian truck.

Correlating shock readings to a vehicle design, weight and speed, size of impact surface area or elasticity of the hit object is not realistic. Therefore, as a first approach, the shock levels may be set as suggested in the instructions. After having monitored the shocks over a period of some weeks, reset to acceptable and non-

### TOYOTA MATERIAL HANDLING

acceptable levels based on the experienced results. The impact test results below might be of some guidance.

#### 6.10.4 Impact tests

I\_Site shock report from a series of shocks using an OSE120P (low level order picking truck) and colliding with obstacles in the driver direction (forks facing backwards)

Sł	nock	X-	Y-	Method	Test person
Τy	/pe	Axis	Axis		response
Н	igh	35	1	Driving into a wall at high	"substantial"
Н	igh	21	2	speed	"milder"
Н	igh	11	35	Hitting the right side of	"relatively hard"
Lo	w	6	16	the truck	"milder"

More test results can be found online on the I\_Site Help page in Shock Tests catalogue



# 6.10.4.1 Comments

Comments may be added to each shock registration and are especially useful for follow-ups of shock lock-out incidents.

- 1) Click the **Comment** plus icon to open the dialog window (The icon appearance will change when a comment has been added).
- 2) Enter details as relevant. Comments may be edited or amended at a later time if required.
- 3) Select category and damage types from the drop-downs.
- 4) Press Save.

# TOYOTA MATERIAL HANDLING

🔺 🔒	Date 9/29/2020 2:29:02 PM	Driver Andreas	Machine 675		Y 10	Comment	^
Site: D.	AGAB	ode: 422 46 🔳 City: HISINGS	Additional Info 1: TRP JS				
Driving	g: Yes 🗧 Lifting: Yes 🗧 Speed: 3 km/h	BDI: 50 Active Errors: 0					
Login:	9/29/2020 2:10:28 PM E Logout: 9/29/	/2020 2:29:08 PM					
Fleet N	Number: 7012	ber: SE -7012 E Machine Fam	ily: STA - Stackers 🗧 Model: SPE	140L			
	Number: 7012   TMH Fleet Num omment	ber: SE -7012  ≡ Machine Fam	ily: STA - Stackers	140L			
		ber: SE -7012 🔲 Machine Fam	ily: STA - Stackers 🔲 Model: SPE	140L			
No co     No co		ber: SE -7012  ≡ Machine Fam Driver	ily: STA - Stackers  Model: SPE	140L X	Y	Comment	

Comments are included in exports to Excel spread sheets (see 11.12) which facilitates analyses and compiling accident reports.

Comment	×
Slippery floor from the oil spill	~
	$\checkmark$
Select category	
Category 🗸	
Select damage	
Damage 🗸 🗸	
	SAVE

### 6.10.5 Resetting shock lock-outs

In cases of shock lock-out, start out by checking for personal injuries and damages. If all is still OK and it's verified that the machine is safe to operate, reset the shock lock-out. The reset may be done at the machine or remotely, i.e. from the I\_Site portal or by the I\_Site app.

### TOYOTA MATERIAL HANDLING

# 6.10.5.1 Resetting at the machine

Driver normal profile:

- 1) Log off.
- 2) Log on with your driver PIN code or access card.

Driver reset profile [supervisor]:

- 1) Log off.
- Log on with a reset [supervisor] PIN code or access card.
   For registration of who reset a machine, the person should be logged on for at least 3 seconds, which is the minimum time for working passes to be registered.
- 3) Log off.
- 4) Log on with your driver PIN code or access card.

# 6.10.5.2 Resetting remotely

The feature is available for I\_Site users with the 'Remote Shock Lockout Reset' role.

Reset from the portal:

- 1) Click the machine number in 'Shock Details' or go to 'Manage Site'
- 2) Go to machine configuration, see 6.2.
- 3) Press the **Reset Shock Lockout** button.

Reset from the I\_Site app.

- 1) Log into the I\_Site app.
- 2) Click Level Red Shocks, see 6.10.5.
- 3) Press the **Reset Shock Lockout** button.

# 6.11 Battery reports

### 6.11.1 To access Battery Detail:

- 1. Click on UTILIZATION in the top bar
- 2. Click on MACHINES under Utilization in the side bar

Enter by clicking the battery status indicator icon.

Machine 100.0103	Fleet No	Utilization 33.96%	Run Hours 1083:59	Shocks <b>O</b>	bsi N/A
Machine 6489363	Fleet No	Utilization 33.85%	Run Hours <b>300:38</b>	Shocks <b>1290</b>	BSI
Machine 6264567	Fleet No	Utilization <b>31.56%</b>	Run Hours <b>731:02</b>	Shocks 251	BSI
Machine 6111496	Fleet No	Utilization 3.81%	Run Hours 121:32	Shocks 106	BSI

#### TOYOTA MATERIAL HANDLING

### 6.11.2 Battery Detail

Battery detail is a graphical representation of battery performance on the truck. The report consists of the chart that shows battery charge levels over time, pop up window, which shows working pass details regarding battery performance and machine activity.

# Note! Battery reports are only available on machines that supplies the I\_Site system with battery data from the truck. This includes most Toyota / BT branded machines.

To facilitate an overview, the battery information is colour coded in level green for ok and yellow and red for warning. The different colours are set by different errors or of incorrect handling. see details below...

#### 6.11.3 Exporting battery report

As with any chart battery report graph can be saved as a graphic file with png extension. Information from the pop-up window is not exportable.

The BDI graph (BDI = Battery Discharge Indicator) shows battery discharge levels, power capacity, usage and recharging in weekly intervals for the selected machine.

### 6.11.4 Changing time period

Battery chart shows one week from Monday to Sunday. To switch to a different week: *Method 1* 

- 1. Click on the Previous Period button to see previous week, or
- 2. Click on the Next Period button to see next week

Machine ID: 626	1935 Fleet Number: 1489 Machin	ne Family: Order Pickers Model: O	OSE250		
		<- PREVIOUS PERIOD	NEXT PERIOD ->	- Select period -	
		00/07/2010 10 10/2010			

#### Method 2

- 1. Click on the **Select period** drop down menu
- 2. Select one of the available weeks

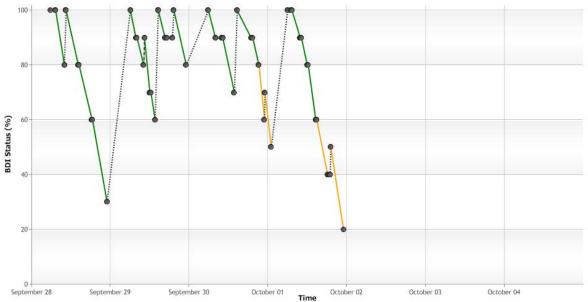
# TOYOTA MATERIAL HANDLING

# Battery Detail

Machine ID: 6112466 Fleet Number: 1338 Machine Family: Reach Trucks Model: RRE160C



### 6.11.5 Battery Discharge Indicator graph



Battery Discharge Indicator (BDI) graph shows battery charge levels over the course of seven days (from Monday to Sunday).

- Colors indicate battery discharge health and are different between Lead and Li-Ion batteries (for details see below).
- Black dots (nodes) on the line indicate beginning and ending of a working pass.
- Dashed lines show non-work time.

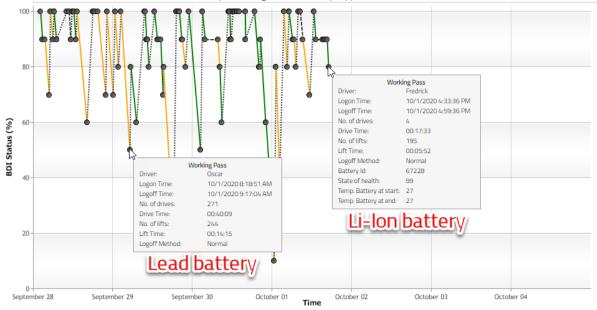
### TOYOTA MATERIAL HANDLING

Below the graph, is a table of the working passes for the shown interval. For each working pass, the table lists log-on and log-off time stamps, driver id/name, battery status at beginning and end plus log-off method.



By clicking on the working pass in the graph, you will get to working pass in the table and vice versa.

Moving a mouse over the node will display a **pop-up window** with details on the working pass. The window contains different amount of data depending on battery type.



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### 6.11.6 Lead Acid battery

BSI icons colour coding	

[Green]	ОК
 [Yellow]	See table below.
[Red]	See table below.
[Grey]	Function not activated.

"N/A" Battery monitoring is not available for this machine.

The rules for the BSI colour coding:

Power loss	Short time ree	charging	Rapid discl	narge
Yellow	Yellow	Red	Yellow	Red
	Battery change: NO	C	BDI going from 60 to 3	0 % (usually
Power is lost	<ul> <li>Power off: &lt; 30 mi</li> </ul>		takes several working	basses) and the
during ongoing	01	BDI, working pass end ≤ 20% calculated drive + lift time (minutes) per		
working pass	BDI, next working	pass start: 100%	100 Ah is less than:	
			Parameter 1	Parameter 2
2 out of 10	3 out of 10	5 out of 10	2 out of 5 times	2 out of 3 times
working passes	working passes	working	(10 if battery change)	(6 if battery
		passes		change)

#### Graph lines:

BDI Data for working passes in the period 9/28/2020 to 10/4/2020

Between working pass - Power Off — Opportunity charge or Rapid discharge (serious) — Working Pass
 Opportunity charge, Rapid discharge or Power loss

Line Type	Description	Meaning
Solid	Working Pass	No undesired events detected during
Green		working pass
Solid	Opportunity charge, Rapid discharge or	Battery has been disconnected or
Yellow	Power loss	truck was shut down with an
		emergency switch, or
		Battery discharge measured when
		crossing either 60% or 30% mark was
		faster than expected, but above
		critical levels.
Solid Red	Opportunity charge or Rapid discharge	Opportunistic charge occurred, or
	(serious)	Battery discharge measured when
		crossing either 60% or 30% mark was

### TOYOTA MATERIAL HANDLING

		faster than expected and equal to or below critical levels.	
Dashed	Between working pass - Power On	No work activity was registered and the battery was connected to the machine	
Dotted	Between working pass - Power Off	No work activity was registered and battery was not connected to the machine.	

# 6.11.7 LI-ION batteries general information

Li-Ion batteries have capability to send additional information over the CAN network as report health status and identification number. This information will be displayed in the pop-up window of the Battery Status Indicator graph.

Note! All trucks with Li-Ion batteries are not sending BMS data. This includes most Toyota / BT branded machines but not all.

۵	Machine 6517619	Fleet No 9	Utilization 77.43%	Run Hours 37:10	Shocks 2	BSI I Li-ion
\$	Machine 6517112	Fleet No 16	Utilization 70.19%	Run Hours 33:41	Shocks 3	BSI
۵	Machine 6514414	Fleet No 8	Utilization 61.13%	Run Hours 29:21	Shocks 4	BSI I Marian
1	Machine 6512390	Fleet No 1	Utilization 60.04%	Run Hours 28:49	Shocks	BSI

# 6.11.8 Li-lon batteries data colour coding

[Li-lon Green] OK

LI-ION [Li-lon Green] see table below

"N/A" Battery monitoring is not available for this machine.

State Of Health	Lost Opportunity to charge	Power loss	
Yellow	Yellow	Yellow	
IF State of Health is	A Lost Opportunity to charge is indicated if	Battery disconnected	
lower than 90	a battery hasn't been charged even though		
	standing idle for at least 15 minutes.		
	Occurred more than 2 times during the	2 times or more during the	
	last 24h.	last 10 working passes	

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BDI Data for working passes in the period 9/28/2020 to 10/4/2020

#### Graph lines:

	Between working pass - Power Off       Working Pass         Between working pass - Power On       Lost Opportunity to charge or Power loss								
Line Type	Description	Meaning							
Solid Green	Working Pass	No undesired events detected during working pass							
Solid Yellow	State of health	IF State of Health status is lower than 90							
Solid Yellow	A Lost Opportunity to charge	A Lost Opportunity to charge is indicated if a battery hasn't been charged even though standing idle for at least 15 minutes.							
Solid Yellow	Power loss	Battery has been disconnected or truck was shut down with an emergency switch.							
Dashed	Between working pass - Power On	No work activity was registered and the battery was connected to the machine							
Dotted	Between working pass - Power Off	No work activity was registered and battery was not connected to the machine.							

### 6.12 Report viewing – Drivers

### 6.12.1 Utilization rates

- 1) Click the **Utilization** tab (select site or sites if applicable).
- *2)* Go to the **Utilization** heading on the left navigation panel.
- 3) Click Drivers.
- 4) Enter search criteria or leave blank. The field for driver groups will appear if a group or groups have been created (several groups may be selected).
- 5) Press Search.

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TOYOTA MATERIAL HANDLING					*					
Home	Utilization	Shocks	¥ ¥ Pre-Op. Check	Diary	Manage Site	روچی Administrati	on My Fl	) eet		2 Help
Utilizati	on	~	Demo Warehouse LS S	Support Gothen	burg					
Sites	>		Utilization -	Drivers	;					
Driver Machine Contract Activity Drivers Machines Batteries	>		Driver Select Driver Groups Driver Groups		onal Info 1	Additional In	fo 2	From date 07/11/20	To date 18 14/11/2 SEARCH	CLEAR
			Drivers: 9 Utilizatio		n Hours: <b>00:00</b> S	hocks: 0			Utilization <b>T</b>	t⊑ 🖪 ¥ ወ አ•
			Driver ID 01258		Expected Hours 48.00	Run Hours	Utilization 0.00%	Shocks O		~
			Driver ID Driver 1		Expected Hours 48.00	Run Hours	Utilization 0.00%	Shocks 0		~
			Driver ID Driver 2		Expected Hours 48.00	Run Hours	Utilization 0.00%	Shocks O		~
			Driver ID Supervisor Loci		Expected Hours 48.00	Run Hours	Utilization 0.00%	Shocks O		~

A summary of site data is given at the top of the listing.

The following data is shown for the selected time period:

- 'Driver ID' = Driver name.

Click the name to open the 'Driver details' page.

- 'Expected Hours' = Expected working time based on set work schedule [Shift time].
- 'Run Hours' = Total actual working time during the selected period. Click the number to open the Activity report, see next section.
- 'Utilization' = Worked [Run] hours in relation to the set work schedule.
- Shocks = Number of impacts.

Click the number to open the Shocks report see (6.10.1).

- 6) Click the icon to expand site and driver details.
- 7) Click the 1 icon to close details.

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### 6.13 Activity reports

- 1) Click the **Utilization** tab. Multiple sites may be selected but the listing will not separate drivers to the selected sites.
- 2) Go to the **Activity** heading on the left navigation panel.
- 3) Click Drivers.
- 4) Enter search criteria or leave blank. The field for driver groups will appear if a group or groups have been created (several groups may be selected).
- 5) Press Search.

A summary of activity data is given at the top of the listing.

Operating data are reported for each working pass per driver and for the selected time period (limited to 1 month), comprising:

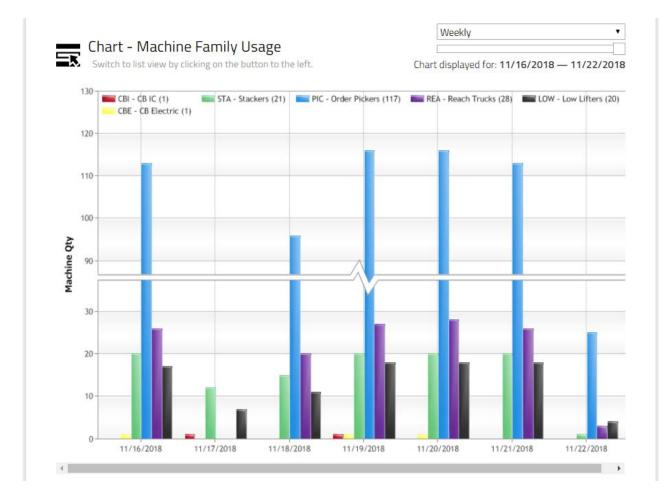
- 'Driver' = Driver Id or Driver name.
- 'From To time' = Working pass start and finish hour.
- 'Key time' = Time the machine has been turned on.
- 'Drive and lift times add up to the operating time (Op. Time). Simultaneous driving and lifting add as a single movement.
- Op. Ratio = Operating ratio, i.e. the ratio between operating and key times.
- 6) Click the V icon to expand details including machine and driver information.
- 7) Click the 🔨 icon to close details.

Home Utilization Shocks Pre-Op. Check Diary Manage Site Administration My Fleet	? Help
Utilization	
Sites > Activity - Drivers	
Driver >	
Machine > Driver Additional Info 1 Additional Info 2 From date To date	
Contract > 11/8/2018 11/15/2018	
Activity Select Driver Groups	
Drivers >	
	EAR
Batteries >	
🖬 Total summary	
Key Time: 9810:28:35 Operating Time: 3800:22:13 Operating Ratio: 39%	k ญีX≁
Driver From time To time Key Time Drive Time: Lift Time: Op. Time Op. Ratio	
Ibra 2:52 PM 2:53 PM 00:00:04 00:00:00 00:00:00 0%	~
Driver         From time         To time         Key Time         Drive Time:         Lift Time:         Op. Time         Op. Ratio           Diaa         2:50 PM         2:50 PM         00:00:07         00:00:01         00:00:00         00:00:01         14%	$\sim$
Driver From time To time Key Time Drive Time: Lift Time: Op. Time Op. Ratio	
Matt 2:48 PM 2:50 PM 00:01:45 00:01:20 00:00:00 00:01:20 76%	$\sim$

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### 6.14 Charts

Reported utilization, activities and shocks information may be viewed as charts, see 4.2.6



### 6.15 Shocks - Drivers

#### 6.15.1 Shocks summary

- 1) Click the **Shocks** tab (select site or sites if applicable).
- 2) Click **Drivers** on the left navigation panel.
- 3) Enter search criteria or leave blank. The field for driver groups will appear if a group or groups have been created (several groups may be selected).
- 4) Press **Search.** This will display summaries for drivers as selected.

The **Run Hours / Shock** is calculated based on operating time and number of total shocks. In cases of only one or no shocks, the number is equivalent to the operating time for the selected period.

- 5) Click the hyperlinked **Total Shocks** number to open the 'Shock Details' dialogue window, see next section.
- 6) Click the  $\checkmark$  icon to display site and driver details. Click the  $\land$  icon to close.

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					_Sit	e		,	ł
₩ Home	Utilization	Shor	ks Pre-Op. Check	Diary M	anage Site	දරුවී Administration	(F) My Fleet		2 Help
Shocks		>	Demo Warehouse LS Shocks - DI						
Machines Shock Det		>	Driver Select Driver Groups	Additional I	nfo 1	Additional Info 2	From date 07/11/2		3
			Driver Groups		~			SEARCH	CLEAR
			Total Sur Total Shocks: 0 Hij Run Hours / Shock: (	gh: O Medium: O	Low: O			Total Shocks 🔻	፰ ፼ ★ ໖ X•
			Driver ID 01258		Shocks High	Medium O	Low Run Ho 0 00:00	urs / Shock D	~
			Driver ID Driver 1		Shocks High O	Medium O	Low Run Ho 0 00:00	urs / Shock D	~
			Driver ID Driver 2	Total O	Shocks High	Medium O	Low Run Ho 0 00:00	urs / Shock D	~

### 6.15.2 Shock details

The shock details dialogue window is the same for machines and drivers. Please see section 6.10.2.

### 7 Service and rental contracts

The overview is a useful tool to follow contracts.

- 1) Click the Utilization tab (select site or sites if applicable).
- 2) Go to the **Utilization** heading on the left navigation panel.
- 3) Click Contract.
- 4) Enter search criteria or leave blank. The field for machine groups will appear if a group or groups have been created (several groups may be selected).
- 5) Press Search.

The listing specifies contract data for each machine.

**MAT12 Projected Hours** is the predicted machine usage for the current 12 months contract period based on machine usage to date.

Icons are shown for:

MAT12 Status, Projected Hours.

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**Run On** Time left to contract expiration date.

- 6) Click the icons to show symbol definitions.
- 7) Click the 🖳 icon to display contract period and machine details. Click the 🕐 icon to close.

	TOYOTA MATERIAL HANDLING			l_Site	2			*	
	Home Utilization Sho	Dcks Pre-Op. Check	Diary	Administration	My Fleet				Relp
	Utilization	✓ Multiple sites selected	(2)						
	Sites >	Contract Ut	ilization						
	Machine >	Machine	Fleet N	lumber					
	Activity	Select machine groups	i	$\checkmark$					
	Drivers > Machines >						SEARCH	CL	EAR
		🖬 Total sum	nmary						
Run On		Number of contracts:	188 Utilizat	tion: 93.95%			Utilization 🔻	te 🖬 :	★ എ X+
• •	ontract ends in more than 90 days		1achine 54	Contr. Hours 1000	Projected Hrs 1841	Utilization 184.10 %	Devia	Run On	~
		B0 6	1achine 54	Contr. Hours 1000	Projected Hrs 1629	Utilization 162.90 %	Devia	Run On	$\sim$
Co	ontract ends in between 30 and 90 days	CUTULINO. IN	lachine 54	Contr. Hours 1000	Projected Hrs 1462	Utilization 146.20 %	Devia	Run On	~
	ontract ends in less than 30 days, or has ready ended		lachine 55	Contr. Hours 2000	Projected Hrs 2879	Utilization 143.95 %	Devia	Run On	~
	Run On		lachine 55	Contr. Hours 1000	Projected Hrs 1423	Utilization 142.30 %	Devia	Run On	~

#### Subscriptions and Notifications 8

#### Subscriptions 8.1

Ru

#### Please consult your TMH representative for this add-on feature.

The subscription feature offers you regular reports on areas that you like to follow more closely.

- 1) Go to the report you like to follow.
- 2) Click the Subscription icon.
- 3) In the pop-up dialogue window, name the subscription and specify frequency and time. You may adjust the time zone in case the selected site is at a different time zone. The time extension in the report will correspond to the setting in the dialogue window.
- 4) Click Add. Report mailing will commence at the next occurrence as specified.

To review your subscriptions, go to 'My Settings' by clicking your user name at top right corner.

The subscription may be renewed for another year by clicking the renewal icon or terminated by clicking the garbage can icon.

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TOYOTA MATERIAL HANDLING				I_Si	te		*	>
Home Utilizat	4	동물 Pre-Op. Check	Diary	(B) Manage Site	رچی Administration	(S) My Fleet		So Help
My Settings Profile Subscriptings	> My Settings	Profile for					UPDATE	
Mobile Settings	Profile Subscriţtions Mobile Settings Notifications	> > >	Subscrip No Subscrip	riptions for tions				

mary <sub>I</sub>									
· ·	Report Subscriptions	5	×						
Jrs: 00:00	Subscription Name							$\bigcirc$	
	Interval type	Weekly     Monthly			Utiliza	ation 💌	te 🖬 .	★ ભુેે}	
	Time of day			Run Hours	Shocks	BSI			
10003	Day of week	Monday	$\sim$	00:00	0	N/A			
	Time zone	(GMT) Coordinated Universal Time	$\sim$	Pun Hours	Shocks	BSI	1	$\sim$	
raTerm1				00:00	0	N/A			
	Subscriptions No Subscriptions					+ <b>*</b>	<b>)</b>		
		ANA	CEL						

### TOYOTA MATERIAL HANDLING

### 8.2 Notifications

The full feature range requires the Machine Administrator role.

The Notification feature offers instant alert information on machine incidents and activities.

- 1) Go to 'Notifications' by clicking your user name at the top right corner, see. 8.1. The left navigation panel lists the range of notifications.
- General: This allows you to direct notification e-mails to someone else or a group mail. By default your e-mail address is filled in.

My Settings				
Profile		>	Profile for	
Subscriptions		>		
Mobile Setting	S	>		
Notification	s		User ID	SEU
Votifications		p >	First Name	I_Isite
ieneral	>	>	Last Name	Customer
e-Op Check	>	) >	Email	customer@toyota-industries.eu
nock	>	>		
uperv. Lockout	>	>	Preferred Email	
attery Incident	>	>	Language	
Priver Licence Expiry	>			

Pre-Op Check	Report on failed checks, see 10.13.
Shocks	Shock that exceeds shock lock-out threshold settings ( <i>DHU2 installed).</i>
Superv. Lockout	Machine been locked for usage by supervisor at the machine (PIN code or access card).
Battery Incident	Battery BDI level below the low limit as set in the Machine configuration table. Requires <i>Enable BDI Notification</i> set to 'Yes', see 6.2.
Driving License	Driving license is available to set for each machine family a specified time and it is possible to choose it "same for all"

### TOYOTA MATERIAL HANDLING

2) Mark the checkbox for the wanted notification.

Notifications		Notificatio	ns - Pre-Op ch	eck failure	<u>j</u>			
General	>	Enable Pre-Op	check failure notification					
Pre-Op Qeck Shock	$\sum_{i=1}^{n}$	Sites	All Sites	$\checkmark$	Driver groups	All driver groups	$\checkmark$	
Superv. Lockout Battery Incident	>	Owner type	All owner types	$\checkmark$	Machine groups	All machine groups	$\sim$	
Driver Licence Expiry							UPDA	ATE

- 3) Reduce the scope of notifications by means of the filtering options.
- 4) Press **Update** to activate each notification.
- 5) To unsubscribe: Clear check boxes.

Notification e-mails vary slightly in appearance but contain site and machine information.

	Supervisor Lockout occurred	
Failed Pre-Op. Check - Machine : RemoteDHUTest1, Driver : Al Pacino	A supervisor lockout has occurred on this machine which means that this machine now cannot be used without it being reset. Please ensure this machine is safe before a reset s done. Lockout From : Machine Lockout By: 03433 Testing new version 456	TOYOTA MICTON WARDAR I_Site
Hest Number: Diver: Al Pacino I Site: 03 TMAHE Roper Result: SessionTooShort Additional Info 1: Additional Info 2: Failed Questions	Date: 2017-04-03 12:35 Machine Family: Reach Trucks Machine : RemoteDHUTest1 Fleet Number : Site: 03 TMHE Roger	Shock alert
Ar bromsarra OK? (fård- och parkeringsbromsar) Click to see alert	TOYOTA MATERIAL HANDLING	A shock occurred, see details below. Date: 2013-10-23 09:50:31 Machine: LIONMD Fleet Number: DHU/2 33
TOYOTA MATERIAL HANDLING		Driver: 01973 X: 5 Y: 51

### 9 Pre-Operational Check

(Requires that the Pre-Op Check feature is included in your I\_Site package. Please consult your TMH I\_Site representative).

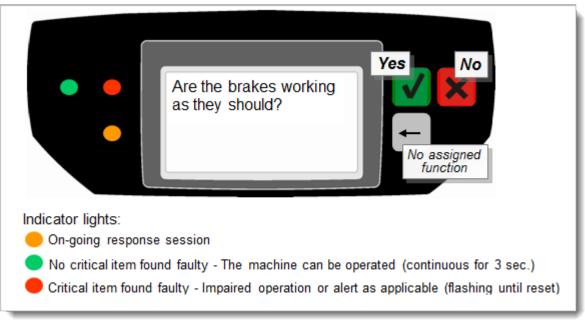
### 9.1 Introduction

The Pre-Operational Check (Pre-Op Check or POC) feature is based on checklists for control of the machine condition. The lists are created by means of the I\_Site web interface and transmitted to an on-board panel. The checklist has to be completed in connection with machine log-on. The completed checklist is

### TOYOTA MATERIAL HANDLING

communicated back to the web site for follow-up. If a control response indicates hazardous operation, i.e. Pre-Op check failure, the machine operation will be impaired or an alert triggered as applicable. For further description of machine performance, please consult your TMH service representative.

To activate, the POC feature must be enabled in the 'Machine Configuration' settings as described in the following.



### 9.2 The on-board panel

- The items or functions to be checked are shown in the display window as control questions. Up to 20 questions can be stored (see following sections for downloading questions from web site).
- Each question is responded to by pressing either the green Yes-button or the red No-button. Note that questions like "Are the brakes faulty?" a "No" answer is correct for well-functioning brakes.
   Questions may be either per critical or critical.

Questions may be either non-critical or critical.

- Non-critical: Concerns machine defects that do not pose a risk of immediate hazard.
- Critical: Concerns machine defects that make operation hazardous. The problem should be fixed before further usage.

Creating questions is described in detail in the following.

- When responded, the next question is shown in the display window.
- While responding, the amber light is flashing at 0.5 Hz.
- On completion, the responses are analysed by the on-board system and the result is indicated by colour coded lights to the left of the display window:

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Green	Controlled items or functions are all in good condition or <b>non-</b> critical items only were found faulty.	Continuous for 3 sec.
Red	One or more <b>critical</b> items or functions have been found faulty or the check-up was not completed properly (critical question included). Machine operation may be impaired (POC lock-out) or an alarm signal can be activated.	Flashing until reset.
Amber	The check-up was not completed properly (critical questions not included). Machine operation will not be impaired and no alarm signal will be activated.	Continuous for 3 sec.

Response results or information on incomplete response sessions are transmitted to the web site with scheduled or triggered communication. Pre-Op check failures (a red indication light) are registered directly on the portal.

### 9.3 Machine Configuration settings

Activating POC and specifying features are done in the 'Machine Configuration' dialogue window, see 6.2.

### 9.3.1 Enable POC

By default, POC is not activated. To enable, select mode of checking machine safety:

- Yes, once per 12h per driver: Each driver has to perform the safety check. A renewed check is required 12 hours from when the earlier check was done.

Enable Pre-Op. Check	Yes, once per 24h, all drivers	Yes, once per 24h, all drivers
Start time	15:30	No
Time until Timeout	5 minutes	Yes, once per 12h, per driver
For Lockout Reset profile	No	Yes, every new driver Yes, once per 24h, all drivers
Randomized questions	Yes	Yes
Checklist	170904 test	170904 test

- Yes, every new driver: Every time a new driver logs on to the machine, the safety check has to be performed. A driver has to repeat the control check if someone else has used the machine in between, or if 12 hours has elapsed.
- Yes, once per 24h, all drivers: The first driver who logs on to the machine after the specified daily Start time has to perform the safety control check. A Start time has to be entered.

### TOYOTA MATERIAL HANDLING

Yes, once per 24h, all drivers	•	Ռո	•
15:30		U	3
5 minutes			3
No			3
Yes			3
170904 test			3

### 9.3.2 Response time

The allowed responding time between questions can be set in the field for **Time until Timeout**.

		I	
Pre-Operational Check			
Enable Pre-Op. Check	Yes, once per 24h, all drivers	Yes, once per 24h, all drivers	2
Start time	15:30	15:30	2
Time until Timeout	5 minutes	5 minutes	2
For Lockout Reset profile	No	No	2
Randomized questions	Yes	Yes	2
Checklist	170904 test	170904 test	3

### 9.3.3 Safety control checks by supervisors

If considered valuable to have a record of supervisors' control of the machine, the **For Lockout Reset profile** should be set to 'Yes'.

Pre-Operational Check			
Enable Pre-Op. Check	Yes, once per 24h, all drivers	Yes, once per 24h, all drivers	3
Start time	15:30	15:30	3
Time until Timeout	5 minutes	5 minutes	3
For Lockout Reset profile		Yes 🔻	
Randomized questions	Yes	Yes	3
Checklist	170904 test	170904 test	3

### 9.3.4 Randomized questions

To avoid drivers memorizing the response sequence, it might be useful to scramble the order questions are shown from one time to the next. To enable, set **Randomized questions** to 'Yes',

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Pre-Operational Check		1	
Enable Pre-Op. Check	Yes, once per 24h, all drivers	Yes, once per 24h, all drivers	3
Start time	15:30	15:30	13
Time until Timeout	5 minutes	5 minutes	3
For Lockout Reset profile	No	No Jm	13
Randomized questions	- Yes	Yes	13
Checklist	170904 test	170904 test	13

### 9.3.5 Selecting checklist

The checklist to be used for an individual machine can be selected from published checklists drop-down.

Pre-Operational Check			
Enable Pre-Op. Check	Yes, once per 24h, all drivers	Yes, once per 24h, all drivers	3
Start time	15:30	15:30	3
Time until Timeout	5 minutes	5 minutes	3
For Lockout Reset profile	No	No dha	3
Randomized questions	Yes	Yes	3
Checklist	170304 test	170904 test	3

### 10 Pre-Operation Checklists

Pre-Op checklists gives information regarding checklists, drivers, machines and results.

### 10.1 Accessing Pre-Op Check

To access Pre-Op Check Machines: -Click on the PRE-OP CHECK in the top bar -Click on MACHINES in the side bar

### TOYOTA MATERIAL HANDLING

Home U	Itilization	Shocks	¥ ¥= Pre-Op. Check	(B) Manage Site	رکی Administration	My Fleet			8 Help
Pre-Op. Cl Checklist Drivers Machines Results	heck > > >		Demo Warehouse LS S Pre-Operat Machine		k - Machin	I <b>CS</b> From date 01/01/2018	To date 31/05/2018	🗌 Include Histo	rical Data
Messaging Overview Create Mess	>		Select Status Passed, Warning, F	nmary	elect Result Completed	~		SEARCH	CLEAR ↓テ Ħ★ ᡚ X+
			Performed: 16 Fail Machine 8DEM015 10003 Failed - Completed Warning - Completed Site: Demo Wareho	- Fleet Nur - 10003	mber Per 3 16 Too Short: 0 = Failed - sion Too Short: 0 = Wa	Time Out: <b>0</b> arning - Time Out: <b>0</b>		Passed 11 IC = Model: 8FGF15 = Br	and: TO

### 10.2 Searching Pre-Op Check machines

Following filters can be used to search the machine. Searching without any filters applied will result in showing machines assigned with data relating to the last 30 days.

Machine	Search by full or partial name of the machine
Fleet No	Limit results by typing the fleet number
From date	Search from a specific date. Modifies machine related statistics. Default
	value is date 30 days in the past. Date selection is mandatory
To date	Search by a specific date. Modifies the machine related statistics. Default
	value is current date. Date selection is mandatory
Select	Select in the drop down if you want to see passed, warning or failed POC.
Status	
Select	Select on the drop down if you want to see completed or time out POC.
Result	

### TOYOTA MATERIAL HANDLING

### 🖬 Total summary

Performed: 16 Failed: 1	Warning: 4 Passed: 11					Failed 🔻	t≘ ₽	★ എ X+
8DEM015- 10003	Fleet Number 10003	Performed 16	Failed <b>1</b>	Warning 4	Passed 11			^
Warning - Completed: 4	ailed - Session Too Short: 0	0 🗏 Warning - Ti	ime Out: <b>0</b>					

🗏 Site: Demo Warehouse LS Support 🗏 Postal code: 41313 🗏 City: Gothenburg 🗏 Machine Family: CBI - CB IC 🗏 Model: 8FGF15 🗏 Brand: TO

### 10.2.1 Investigating further

Machine	Name of the selected machine
Fleet Number	Number of the fleet the machine is part of
Performed	The number of times that a POC has been performed on this machine during
	the selected period of time
Failed	The number of times that POC has failed on this machine during the selected
	period of time
Warning	The number of times a non-critical question has been answered incorrectly on
	this machine during the selected period of time
Passed	The number of times the POC was passed correctly on this machine during the
	selected period of time
Failed-Completed	The number of times the POC was completed incorrectly
Failed-Session	The number of times the POC was completed too quickly
Too Short	
Failed-Time Out	The number of times the POC was completed too slowly
Warning-	Completed POC session with a non-critical question answered incorrectly
Completed	
Warning-Session	Completed POC session with a non-critical question answered too quickly
Too Short	
Warning-Time Out	Completed POC session with a non-critical question answered too slowly
Site	Name of the site the machines is located
Postal Code	Postal code of the site the machine is located
City	Name of the city the machines is located
Machine Family	The name of machine family
Model	The model of the selected machine
Brand	The brand of the selected machine

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### 10.3 Accessing Pre-Op Check drivers

To access Pre-Op Check Machines:

- 3. Click on the **PRE-OP CHECK** in the top bar
- 4. Click on Drivers in the side bar

Home	Utilization	Shocks	¥= V= Pre-Op. Check	(B) Manage Site	ැිි් Administratio	on My Fle	) eet		ł
Pre-Op.	Check		Demo Warehouse LS S	Support Gothenburg					
Checklist		>	Pre-Operat	ional Check	k – Driver	S			
Drivers		>							
Machines		>	Additional Info 1	Additional In	ifo 7	From date	To date		
Results		>				01/01/2018			
Messagi	ing		Select Driver Groups			Select Status		Select Result	
			Driver Groups		$\sim$	Failed	$\sim$	Completed	$\sim$
Create Me		>						SEARCH	CLEAR
			🖬 Total sun	nmary					t⊑ <b>⊞ ≭</b> መ አ•
			Performed: 1 Faile	d: 1 Warnings: 0	Passed: 0			Failed 🔻	t- <b>m</b> ¥ 0 V.
			Driver N/A	Performed 1	Failed	0	Passed		~
			N/A	1	1	0 (	,		

### 10.4 Searching Pre-Op Check drivers

Following filters can be used to search the Drivers that performed POC. Searching without any filters applied will result in showing Drivers assigned with data relating to the last 30 days.

Additional info 1	Here you can find additional information regarding the driver profile.
Additional info 2	Here you can find additional information regarding the driver profile.
From date	Search from a specific date. Modifies driver related statistics. Default value is date 30 days in the past. Date selection is mandatory.
To date	Search by a specific date. Modifies driver related statistics. Default value is current date. Date selection is mandatory.
Select Driver Groups	Select on the drop down the driver group.
Select Status	Select on the drop down if you want to see passed, warning or failed POC.
Select Result	Select on the drop down if you want to see completed or time out POC.

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### 10.5 Accessing Pre-Op Check-results

- 1. Click on the **PRE-OP CHECK** in the top bar
- 2. Click on **RESULTS** in the side bar

Home	Utilization	Shocks	Pre-Op. Check	(B) Manage Site	کری Administratio	on My Fleet	:		8 Help
Pre-Op	. Check	×	Demo Warehouse LS S	Support Gothenburg	5				
Checklist		>	Pre-Operat	ional Chec	k - Result	t			
Drivers Machines		>	Machine	Fleet No		From date	To date		
Results		>				01/01/2018	31/05/2018		
Messag	ging		Select Driver Groups						
Overview	r	>	Driver Groups		$\sim$				
Create M		>	Select Status Passed, Warning, F		elect Result Completed	~			
			Include Reset Inf	ormation			_		
								SEARCH	CLEAR
			<b>D</b> Total sun Performed: 1 Faile		Passed: <b>0</b> Te	chnical errors: 0		Registered 💌	ት⊑ 🖬 ¥ 🖞 X+
			170904 te	st	Machine 8DEMO		egistered 7/05/2018 13:44	Fleet Number	~

### 10.6 Searching Pre-Op Check results

Following filters can be used to search the results. Searching without any filters applied will result in showing results assigned with data relating to the last 30 days.

Machine	Search by full or partial name of the machine
Fleet No	Limit the results by typing the fleet number
From date	Search from a specific date. Modifies result related statistics. Default value
	is date 30 days in the past. Date selection is mandatory
To date	Search by a specific date. Modifies result related statistics. Default value is
	current date. Date selection is mandatory
Select	Select in the drop down if you want to see passed, warning or failed POC.
Status	
Select	Select on the drop down if you want to see completed or time out POC.
Result	

### TOYOTA MATERIAL HANDLING

Click on the box Include Reset Information if you want to include in the search the resets that have been done by a supervisor

### 🖬 Total summary

_	Passed: 11 Technical erro	15.0		★ എ X
⊺ <sup>Title</sup> 170904 test	Machine 8DEM015-10003	Registered 31/05/2018 10:06:05	Fleet Number 10003	^
Site: Demo Warehouse LS Support 🔲 Postal co	ode: 41313 🔲 City: Gothenburg	Result: Completed Duration: 99s	Driver: N/A	
Title 170904 test	Machine 8DEM015-10003	Registered 17/05/2018 13:59:14	Fleet Number 10003	^
■ Site: Demo Warehouse LS Support ■ Postal co 'ailed Questions	ode: 41313 🗏 City: Gothenburg	Result: Completed Duration: 156s	Driver: N/A	
→ Afval / Déchets / Waste ?				
→ Geschreven / Ecrit / Written ?				
→ Schade / Dégâts / Damage ?				

#### 10.6.1 Investigating further

Title	Title of the checklist
Machine	Name of the selected machine
Registered	Date and Time the checklist was performed
Fleet Number	Number of the fleet the machine is part of
Site	The name of site the machine is located
Postal code	The postal code of the site
City	The city of the site that the machine is located.
Result	The result of the POC
Duration	The duration of the time it took to complete the POC
Driver	The driver that made the POC
Failed Questions	Below you get listed failed questions

### 10.7 Checklists

(Requires the 'Manage Pre-Op Checklists' role)

### 10.8 Creating checklists

- 1) Click the Pre-Op Check icon in top bar
- 2) Click **Checklist** in the left navigation panel. Current checklists will be shown.
- 3) Press New Checklist to open the dialogue window.
- 4) Name the checklist in **Title** field.
- 5) Select site or if applicable.

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Home Utilizat	tion	Shocks	Pre-Op. Check	Diary	Manage Site	ැරෑ Administra	tion My Fleet			° Help
Pre-Op. Check Checkdist Drivers Machines Results Messaging	> > > >		Demo Warehouse Checklist	LS Support Gothe	nburg				NEW CHERKLIST	]
Overview Create Message	Title Site	2	Den	klist01 no Warehouse LS S elect a Checklist	Support Gothenburg	× •		IST	Created	<del>,</del>

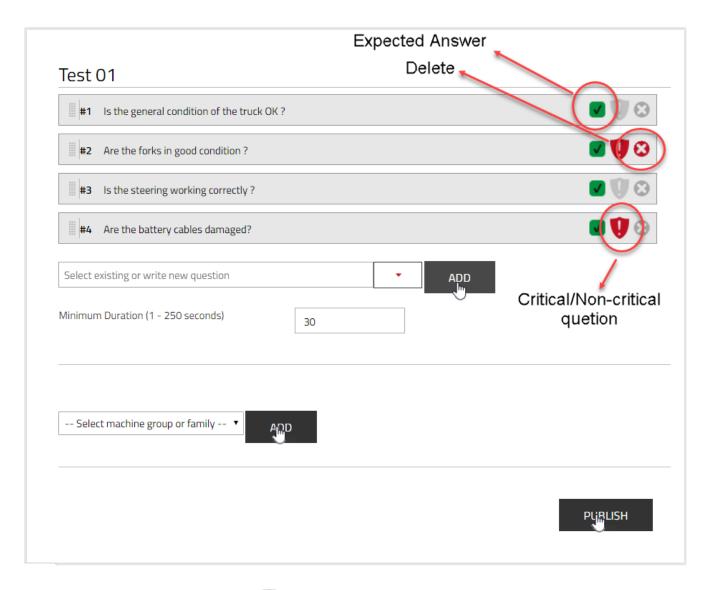
- 6) Leave the field blank for 'Copy Questions From' or find an earlier check list from the drop-down menu. A check list must be in status Published (described in the following) to appear in the listing.
- 7) Press Create New Checklist to open the dialogue window for entering safety control questions.
- 8) Enter safety control questions in the open text field. Similarly worded questions will be shown as you type. The drop down allows you to search among earlier questions.
   Up to 20 questions can be added per checklist. There is an upper limit of 80 characters per question
- 9) Press Add for each new question.

A question may be deleted by clicking the 🖾 icon.

The order of the questions can be changed by drag and drop, however, see also 'Randomized questions' in the following.

10) Click the green icon dto change the expected answer from 'Yes' to 'No' for a well working function or for a component in good condition. Click the red icon to change back.

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- 11) Mark 'critical' questions by clicking the <sup>III</sup> icon. The colour will change to red <sup>III</sup>. Click the red icon to change back.
- 12) Set the time for the minimum time required to answer the questions. The default setting is 30 seconds.
- 13) Select machine group or groups from the drop-down list.
- 14) Press **Add** for each selection. Individual machines are shown if the checklist is assigned to a machine from the 'Machine Configuration' dialogue window, see 6.2. Remove by clicking an added machine.

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15) When completed, press **Publish** to open the publishing dialogue window. (Next section).

Test Group 😫	Machine001 🕄		
Machine001		٠	ADD

#### 10.8.1 Publishing checklists

- 1) Mark the checkbox for **Send SMS to configure machines** for a prompt download. If left unmarked, the checklist will be downloaded at the next scheduled communication.
- 2) Press **Replace all checklists** to publish the checklist.

When published, the checklist is locked for modifications. Modifying or deleting checklist is described in the following.

Publish Checklist	×
This checklist will replace the current checklist for th machines:	ne following
	CANCEL

Send SMS to configure machines

#### Adding machines to a published checklist.

If a new machine group or family is introduced or new machines have been added to a group or family, the checklist has to be republished in order to have the checklist assigned to those machines.

- 1) Click **Checklist** in the left navigation panel.
- 2) Select the **checklist** to be downloaded to the new machines.
- 3) If applicable, add the new machine group or family.
- 4) Click Republish.
- 5) Add single machines from the 'Machine Configuration' dialogue window, see 11.9.

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#### 10.8.2 Removing checklists from machines

- 1) Navigate to checklists and select the checklist to be removed.
- 2) Click **Unpublish**.

The checklist will be removed from all the assigned machines and the status will change to 'Not Published'.

3) Should some machines still use this list, add those machines and publish again. The status will then change back to 'Published'.

An alternative is to delete machines from the list, see step 14) of 'Creating checklist'.

#### 10.8.3 Modifying checklists

- A. Checklists that have never been published:
  - 1) Navigate to checklists and select the checklist to be modified.
  - 2) Proceed per steps 8) 15) in 'Creating checklists'.
  - 3) Publish when ready.

#### B. Published (and unpublished) checklists:

- 1) To modify, a new checklist has to be created as described for 'Creating checklist', steps 1) 15). If reusing the same name, it's advisable to give it a revision number.
- 2) Add machines to the modified list.
- 3) Publish when ready.

Machines that have been assigned the modified list are no longer shown as using the unmodified list. Machines that have not been added will still use the unmodified list.

### 10.8.4 Deleting checklists

A checklist in status 'Not Published' can be deleted by clicking the garbage can icon.

			Created <b>T</b>
Check list	Created 11/15/2018	Published Not Published	<b>F</b>
Title	Created	Published	Î
Test	11/14/2018	Not Published	
Title	Created	Published	
170904 test	4/13/2018	4/13/2018	

### 10.9 Answering procedure

1) Enter PIN code or put access card on the reader per normal log-on procedures to activate the POC function. The first control question will appear on the panel display in 2 – 3 seconds.

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The questions may reappear at the next log-on depending on 'Machine Configuration' settings. The questions will reappear if the previous session generated a red light or a new checklist was downloaded after the previous session.

The red light is triggered when:

- A function or component that is defined by a critical question has been found faulty.
- The response session containing a critical question was not completed within the set time limits.
- 2) Respond to the safety control questions as they show up on the panel display. The machine can be operated during the response session.

When completed, a green light will allow continued machine operation. The red light may impair operation and/or an alarm (light or sound) signal might be activated.

- 3) At the end of the working pass, log-off per normal procedures.
- 4) In case of a red light (POC lock-out) the machine should be inspected and repaired as required.
- 5) Reset when confirmed safe to operate (Next section).

### 10.10 Resetting POC lock-out

The reset may be done at the machine or from the I\_Site portal.

#### Resetting at the machine

- 1) Log off.
- Log on with reset [supervisor] PIN code or access card.
   For registration of who reset a machine, the person should be logged on for at least 3 seconds, which is the minimum time for working passes to be registered.
- 3) Respond to control questions if activated for the lock-out reset profile.
- 4) Log off.
- 5) Log on with a driver PIN code or access card.

#### Resetting from the I\_Site portal

To reset from the portal, the Immobilize On/Off' feature may be used, see 'Machine Configuration' section 6.11.6. The 'Remote Shock Lockout Reset' role' is required.



### 10.11 POC summary – Drivers

- 1) Click the **Pre-Op Check** tab (select site or sites if applicable).
- 2) Click **Drivers** on the left navigation panel.
- 3) Enter search criteria or leave blank.

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The field for driver groups will appear if a group or groups have been created (several groups may be selected).

The search may be filtered further by the **Select Status** and **Result** drop-down menus.

- 4) Press **Search.** This will display summaries for drivers as selected.
- 5) Click any of the hyperlinked numbers for **Failed/Warning/Passed** to open 'Result details', see following section.
- 6) Click the  $\checkmark$  icon to display site and machine details. Click the  $\land$  icon to close.

MATERIAL HANDLING			Ļ	Sit	e			*	
Home Utilization	Shocks	Pre-Op. Check	Diary Adn	() inistration	(Fiee My Fiee	t			2 Help
Pre-Op. Check	~		136 50						
Checklist	>	Pre-Operati	onal Check	- Drive	rs				
Drive	>								
Machines Results	>	Driver	Additional Inf	51	Additional	Info 2	From date 01/11/2018	To date	
Messaging		Select Driver Groups			Select State	15	Select I		
Overview	>	Driver Groups		$\sim$	4 selecte	1	Jer Comp	leted	$\sim$
Create Message	>							SEARCH	CLEAR
		Total sum	-	316 Pass	ed: 2715			Failed V	∎ ★ ୠ X•
		Driver 111	Performed 62	Failed	Warning O	Passed 55	Technical Error O		~
		Driver Erde	Performed 18	Failed 2	Warning 1	Passed 15	Technical Error O		~
		Driver Este	Performed 3	Failed 2	Warning 1	Passed 0	Technical Error O		~

### 10.12 POC summary – Machines

- 1) Click the **Pre-Op Check** tab (select site or sites if applicable).
- 2) Click **Machines** on the left navigation panel.
- 3) Enter search criteria or leave blank.

The field for machine groups will appear if a group or groups have been created (several groups may be selected).

The search may be filtered further by the **Select Status** and **Result** drop-down menus.

- 4) Press **Search.** This will display summaries for machines as selected.
- 5) Click any of the hyperlinked numbers for **Failed/Warning/Passed** to open 'Result details', see following section.
- 6) Click the V icon to display site and machine details. Click the A icon to close.

### TOYOTA MATERIAL HANDLING

TOYOTA MATERIAL HANDLING			l_Sit	:e	*	
Home Utilizatio	on Shocks	Pre-Op Mheck	Diary Administration	K S My Fleet		Relp
Pre-Op. Check			136 50			
Checklist Drivers	>	Pre-Operation	nal Check - Macł	nines		
Machines Results	>	Machine	Fleet No	From date         To date           01/11/2018         14/11/20	D18	
Messaging		Select machine groups		Select Status	Select Result	_
Overview Create Message	> >	Machine Groups	~	Passed, Warning, Failed	Completed SEARCH CL	EAR
		C Total summ Performed: 3101 Faile	<b>1ary</b> d: 70 Warning: 316 Passe	:d: 2715		
		Technical Error: 0			Failed - I - +	<b>★</b> എ X+
		Machine 64	Fleet Number <b>61</b>	Performed Failed Warnin	g Passed Technical Error 10 0	< E J
				iled – Time Out: 0	SE Machine Family: ST	

### 10.13 POC Result details

- 1) Click the **Pre-Op Check** tab (select site or sites if applicable).
- 2) Click Results on the left navigation panel.
- 3) Enter search criteria or leave blank.

The field for machine and/or driver groups will appear if a group or groups have been created (several groups may be selected).

The search may be filtered further by the **Select Status** and **Result** drop-down menus.

- 4) Mark the checkbox for 'Include Reset Information' to display who reset a POC lock-out. It shows also if it was reset at the machine (Machine) or remotely (Web/App).
- 5) Press **Search.** This will display machine (and driver) POC results as selected.

### TOYOTA MATERIAL HANDLING

τογοτ					l Sit	e		*	
MATERIAL H	HANDLING				_				
Home	Utilization	Shocks	V= Pre-Op. Check	Diary ,	۲ Administration	K My Fleet			8 Help
Pre-Op	o. Check	×	DAGAB INKOP & LOG	ISTIK AB 136 50 JOI	RDBRO				
Checklist	t	>	Pre-Operat	ional Cheo	ck - Resul	t			
Drivers		>							
Machine	5	>	Machine	Driver		Fleet No	From date To	date	
Results		>					01/10/2018	14/11/2018	
Messa	ging	- 11	Select Driver Groups			Select machine groups			
Overviev	v	>	Driver Groups		$\sim$	Machine Groups	```	/	
Create M	lessage	>	Select Status Passed, Failed		Select Result	$\sim$			
			Include Reset In	formation	compreted	Ť			
							SEAR	RCH CLEAR	- 1
			🖻 Total sur	nmary					
			Performed: 9914   Technical errors: 0	Failed: 284 Warr	nings: 0 Passed	9630			
					Machine	Projekt and	Registered	d ➡ ↓ 두 🖬 ★ dī et Number	5 X+
			STÅ - Stås	taplare	64	Registered 14/11/20		2	~
			STÅ - Stås	taplare	Machine 64	Registered 14/11/20		et Number 2	$\sim$
			PIC - Ploc	ktruck 1.2	Machine 65	Registered 14/11/20		et Number 1	~
			Title REA - Skju	itstativ	Machine 65	Registered 14/11/20	Flee 12	et Number	$\sim$
			REA - Skju	ıtstativ	Machine 65	Registered 14/11/20		et Number	$\sim$
			PIC - Ploc	ktruck 1.2	Machine 65	Registered 14/11/20		et Nomber	$\sim$
			REA - Skju	ıtstativ	Machine 65	Registered 14/11/20		et Number	$\sim$
			Title REA - Skju	ıtstativ	Machine 65	Registered 14/11/20		et Number	$\sim$

### 11 Messaging

(Requires the Pre-Op Check feature)

### 11.1 Introduction

This feature allows you to send ad-hoc messages from the I\_Site web application directly to the driver(s) / machine(s), which is convenient in remote or noisy sites where communication can be difficult. Examples:

- Safety messages to all drivers
- Fleet manager allocating a job to a specific machine for the driver to accept and act on next time the machine is started
- Call all drivers to information meeting, allowing each driver to accept or reject the invite

The messaging function is available to all I\_Site users who have access to the pre-operational check and it is accessible via the pre-op check icon in the menu bar. The pre-op check display is required.

#### TOYOTA MATERIAL HANDLING

#### 11.1.1 Create message

By selecting **Create Message** on the left-hand side navigation, a new message text may be entered with maximum 80 characters:

		τογο	ТА		
		MATERIAL	HANDLING		
Pre-Op. Check		$\bigcirc$	<u>F</u>		X
Checklist	>	Home	Utilization	Shocks	Pre-Op. Check
Drivers	>				
Machines	>				
Results	>				
Messaging					
Overview	>				
Create Message	>				

**Expiry date & Expiry time** has to be entered to indicate until when the message is to be displayed on the drivers' screens.

Default values: Expiry date = current day, Expiry time = 23:59 (i.e. valid until the end of the day)

The new message may be sent to all machines in the fleet or to a selection of machines:

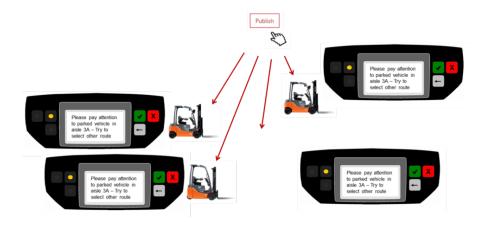
### TOYOTA MATERIAL HANDLING

TOYOTA					I_Si	te			*	
Home	Utilization	Shocks	¥ <u>−</u> Pre-Op. Check	Diary	Kanage Site	Administration	My Fleet			? Help
Pre-Op. C	heck									
Checklist	>		Messaging	- Create	e Message	2				
Drivers	>									
Machines	>		Message text	Ple	ease pay attention	to parked vehicle in a	aisle 3A - Try to s	elect other route		
Results	>		Site	_					]	
Messagir	וס		Site	Der	mo Warehouse LS	Support Gothenburg	g 🔻			
MCSSugn	'6		Expiry date	11/2	22/2018					
Overview	>		Expiry time	23 :	59					
Create Mes	sage >									
	Machine		Model	B	rand	Fleet Number				
	8DEMO1	5-10003	8FGF15	т	C	10003	-			
	SDEMO-	TeraTerm1	8FG15	т	D					
							ВАСК			
							BACK			

- If a driver is logged on (and a pre-op check is not ongoing) the message shall be shown immediately.
- The message is accepted by the driver by pressing the green button.
- The message is rejected by the driver by pressing the red button.
- If not expired, the message shall be shown at each log on of a new driver (but not to drivers who have already accepted or rejected the message).
- If a pre-op check session is ongoing, the message shall be shown on the display 10 seconds after the pre-op check session has been completed.
- If the message is shown and the driver logs out without having accepted or rejected, the message is shown again at next log on (if not expired), even if it is the same driver.
- If timeout is reached without the driver having accepted or rejected the message, it shall be shown again at next log on (if not expired).
- Driver ID and timestamp for acceptance/rejection is reported to the web server at next communication.

A list of all messages displays their validity timestamps, with a possibility to delete inactive messages. Only messages which have not yet been published may be deleted.

### TOYOTA MATERIAL HANDLING



#### 11.1.2 Overview

The message overview shows a summary of all messages that have been sent at the selected site(s) for a specified time period.

The summary specifies (for each message)

- Message text
- Number of machines that the message has been sent to
- Number of replies received (may be multiple replies from same machine)
- Date when message was published
- Date and time when message expires
- Detailed reply information regarding Machine, Fleet Number, Driver and Time of reply
- Information regarding the status of the answer (Accepted/Rejected)

If pressing the 'trash can' icon, the message will be deleted. If the message has not passed its time of expiry when deleted, it will be considered as expired after deletion.

**Machine/Reply** indicates the number of machines to which the message has been sent **(Machine)** and from how many of those machines we have received a reply **(Reply)**.

The **Reply** quantity is independent of the number of drivers who may have logged on to the machines. It indicates whether the message has been replied to by **someone** (even though in reality several drivers may have received the same message on the same machine).

The purpose is to know whether the message has reached all machines or not. In other words, the **Reply** quantity cannot be greater than the **Machine** quantity.

Replies (i.e. accept or reject by means of green or red button) is not communicated immediately but at the next scheduled communication.

All detailed replies – per machine and driver – are displayed in the table underneath each message.

The Accepted/Rejected status is updated as the drivers accept or reject the message. The example below shows how one message which was sent to one machine was replied to by several different drivers logging on to that machine during the same day:

### TOYOTA MATERIAL HANDLING

Messaging - O	verview				
Message Text Total summary	From date 01/09/2018	To date 14/11/2018		SEARCH	CLEAR
Message text Hello all drivers of D	Demo	Machine/Reply	Published 01/11/2018	Expiry date 01/11/2018 23:59	÷ ~
Site: TMHE Service Market	t Postal code: 5	City: Mjölby	Date Ac	cepted/Rejected	
Message text <b>Hej</b>		Machine/Reply	Published 23/10/2018	Expiry date 23/10/2018 23:59	<b>•</b> ~
Message text Have a nice day!		Machine/Reply 7 / 1	Published 18/09/2018	Expiry date 18/09/2018 23:59	<b>·</b> ~

Message text Warning! Virus whole	arning! Virus outbreak on the		y Published 17/09/2015	Expiry date 17/09/2015 23:59	Û	1
III Site:	🔳 Postal code: 🔳 Cit	ty: Mjolby				
Filter:						
Machine	Fleet Number	Driver	Date	Accepted/Rejected		
1234567	2	44444	17/09/2015 10:10	$\checkmark$		
1234567	2	55555	17/09/2015 10:47	$\checkmark$		
1234567	2	00002	17/09/2015 15:23	$\checkmark$		
1234567	2	00003	17/09/2015 21:04	×		

TOYOTA MATERIAL HANDLING

### 11.2 Home page / Dashboard

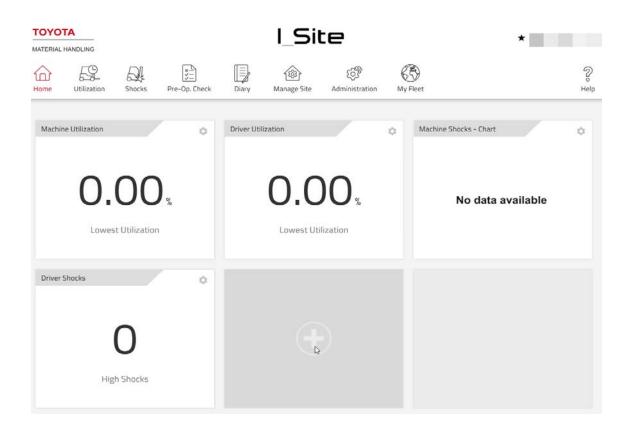
### 11.2.1 Dashboard

The dashboard is the first window displayed after login. It is comprised of a set of up to nine tiles, which show summary information from a chosen site(s). For users with access to less than 5 sites the dashboard will have five tiles pre-configured with the most frequently looked up information. More tiles can be added and existing tiles can be modified according to preference.

### 11.3 Creating new tiles

To create a new tile:

- 1. Click on the empty, grey tile space. Valid tile space is indicated by igodot icon
- 2. A list of all possible reports will appear on the left
- 3. Select a report by clicking on the row with the report name
- 4. A new tile will be created automatically with default data selection. The tile can be modified



TOYOTA MATERIAL HANDLING

### 11.4 Modifying tiles

All tile can be modified to suit user preferences regarding data selection, time span and refresh rate. To modify the tile:

- 1. click on the cogwheel icon in top right corner of a tile
- 2. a tile control panel will pop-up
- 3. apply required changes
- 4. click on the black **x** dot in the top right corner of the control panel window to save the changes and exit the configuration window

Tile configuration structure can differ depending on the report, to which tile corresponds. The list below lists all possible fields that may appear in the tile control panel:

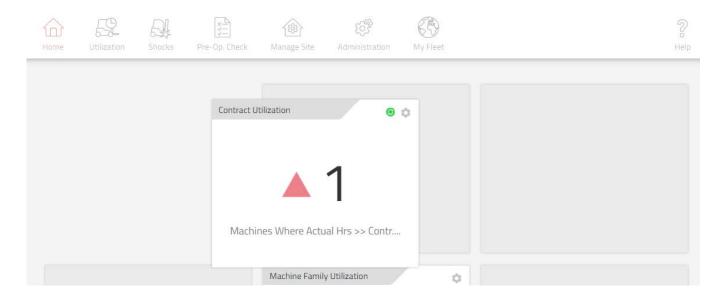
Title	Rename tile. Tile names are created automatically when a tile is created. Default name
	of a tile is the report name
Colour	Select one of the four tile header colours to distinguish tile or a set of tiles from others
Toggle	Change the speed at which the tile rotates between different values in the report
Speed	
Sites	Users with more than one site assigned to their account can chose from, which site they want to display value. A user can select up to 20 sites at the same time. When a new tile is created all sites are included by default. At least one site has to be selected for a tile to show information. Information from all selected sites will be aggregated and displayed as a total value for all selected sites. A red arrow next to the site indicates that the site contains relevant machine / driver group(s).
Red Arrow	Red arrow next to the site name indicates that site contains machine / driver groups. Clicking on the red arrow will take the user to the group list for that site. There user can select any or all groups from that site.
Filter sites	This field can be used to search for relevant sites in the list above
Delete	Clicking on the <b>trash can</b> icon will remove the tile

### TOYOTA MATERIAL HANDLING

Highest Utilization	Driver Shocks  Title Colour
Driver Shocks	Time span 7 days  Toggle Speed 15 seconds
0	Sites Cemo Warehouse Ls Support
0	<ul> <li>□ TMHE Service Market Mjölby</li> <li>☑ Tmhls Göteborg Göteborg</li> <li>→</li> <li>☑ Tmhls Mjölby Mjölby</li> </ul>
Medium Shocks	Filter Sites Filter Sites
	Delete 🗑

### 11.5 Moving tiles

To move a tile, drag and drop it to one of the other eight spaces. If that space is already occupied tiles will be swapped.



TOYOTA MATERIAL HANDLING

### 11.6 Removing tiles

To remove a tile:

- 5. Open a tile configuration menu
- 6. Click on the **trashcan** icon next to **delete** field to remove an existing tile

Contract Utilization 0	Driver Shocks	Driver Shocks	0 0
O O Machines Where Actual Hrs ≈ Contr. Hrs	238 High Shocks	Title Colour Time span 7 days ▼ Toggle Speed 15 seconds ▼ Sites © 03 TMHE Roger Mjölby © Demo Warehouse R3 Warsaw	→ : Hrs
		Filter Sites Filter Sites Delete	

### 11.7 Replacing tiles

If all nine tile spaces have been taken up and there is a need to have new report tile one of the old tiles needs to be removed first. To replace a tile:

- 7. Open a tile configuration menu
- 8. Click on the trashcan icon next to delete field to remove an existing tile
- 9. Click on the empty space to create new tile

### 11.8 Accessing reports from dashboard

Clicking on the dashboard tile will open a report view with data selection (time span, groups and site(s)) reflecting that of the displayed tile.

TOYOTA MATERIAL HANDLING

### 11.9 General features

#### 11.9.1 Machine Configuration

Clicking a 'Machine' hyperlinked serial number in any dialogue window will get you back to the 'Machine Configuration' overview window (section 6.2.).

### 11.10 Sorting and expanding tables

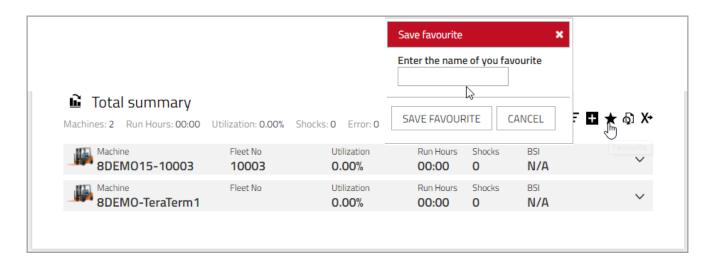
- 1. Tables may be sorted on any of the parameters in a listing.
- 2. Tables may be sorted ascending or descending for the selected parameter.
- 3. Click the 🛨 to expand all rows.

Total summary Machines: 2 Run Hours: 00:00	Utilization: 0.00% Sh	ocks: 0 Error: 0			Utilization	±★ ᡚ X+	
Machine 8DEM015-10003	Fleet No <b>10003</b>	Utilization 0.00%	Run Hours <b>00:00</b>	Sho <b>0</b>	Fleet No Utilization	ion ▼ ↓F 🗖 ★ බ	X
Machine 8DEMO-TeraTerm1	Fleet No	Utilization 0.00%	Run Hours 00:00	Sho O	Run Hours Shocks	~	
					BSI		
				-	Site		
					Postal code		
					City	ndling Europe <u>Terms of use</u>	
					Owner		
					Machine Family		
					Model		
					Brand		
					TMH-Fleet No		
					Last updated		
					Error		
					Last known state		
					Last known state change		

### TOYOTA MATERIAL HANDLING

### 11.11 Favourites

- Click the star icon to open the **Save favourite** dialogue window.
- Enter a name and save.
- Access favourites by means of the 'file' icon at the top right corner.



### 11.12 Exporting to excel

Many dialog windows offer the feature of exporting to Excel.

<b>Total summary</b> Drivers: 10 Utilization: 0.00%	Run Hours: <b>00:00</b>	Shocks: 0		Utilization <b>v</b>	t≞ 🖬 ¥ එ X•
Driver ID 01258	Expected Hours 48.00	Run Hours <b>00:00</b>	Utilization 0.00%	Shocks O	~
Driver ID Driver 1	Expected Hours 48.00	Run Hours <b>00:00</b>	Utilization 0.00%	Shocks O	~
Driver ID Driver 2	Expected Hours 48.00	Run Hours <b>00:00</b>	Utilization 0.00%	Shocks <b>O</b>	~
Driver ID Supervisor Lockout	Expected Hours 48.00	Run Hours <b>00:00</b>	Utilization 0.00%	Shocks O	~
Driver ID <b>Unlock</b>	Expected Hours 48.00	Run Hours <b>00:00</b>	Utilization 0.00%	Shocks <b>O</b>	~

# TOYOTA MATERIAL HANDLING

$\mathbb{A}$	A B	С	D		PivotTable Field List	X
1	Drop Report Filte	er Fields Here		_i¬		
2				2	Choose fields to add to report:	
3	Sum of Opera			_}	Machine	
4		Pin Code 💌		Š	Fleet no.	-
5	■EDWL5300 ■OME100	04007	94280	_(		
6		04010	122	_{	Machine Family	
7		04070	176	)	Model	
8		04141	103037	Ĩ	Brand	
9		08321	669	- 8 - 1	Site	
0		(blank)	561	- (	Start TS	
1	OME100H	Total	198845	{	End TS	≡.
2	EDWL53000 Total		198845	Ś	Driver	
3	Grand Total		198845	ŝ	Pin Code	
4				Ì	Key Time Sec	
5					Operating Time Sec	
6				- S	Driving Time Sec	
7				_{	Lift Time Sec	
8				2	Operating Ratio	
9						×
20				Ž		
۹.		Lo sa namur			Drag fields between areas below:	

The format has a ready to print lay-out. It's also set up for pivot table analyses, see illustration.

### TOYOTA MATERIAL HANDLING

# 12 Andon

# 12.1 Setup and configuration of Andon

To setup Andon first enter Pre-Op. Check on the navigation Tab.
 In the Pre-Op. Check panel furthest down select Manage Andon and press New Andon List.

					I_Si	te			*   1	
Home	Utilization	Shoc	•	Diary	Manage Site	کری Administration	My Fleet	[♥] <sub>Map</sub>		<b>N</b> Help
Pre-Op	o. Check		V 02 TMHE							
Checklist	t	>	Andon lists	5						
Drivers		>								_
Machine	IS	>								Т
Results		>							0	
Messa	ging	- 11	Search provided no	results						
Overviev	N	>								
Create N	lessage	>								
Andon		- 1								
Manage	Andon	>								
3.8.0-FY20.7.2-	PreOpCheck+389	56						© 2019 -	- Toyota Material Handling Europe	Terms of use

 Fill in the title of the Andon list, select which site the Andon list is going to affect. It's also possible to copy messages from previously made Andon list.
 Press Create New Andon List.

Pre-Op. Check				
Checklist	>	New Andon list		
Drivers	>		[	1
Machines	>	Title	Test Andon	
Results	>	Site	01 TMHE Prod test Mjölby	
Messaging	- 1	Copy messages from	Select Andon list	
Overview	>			
Create Message	>			CREATE NEW ANDON LIST
Andon	- 1			J
Manage Andon	>			
3.8.0-FY20.7.2-PreOpCheck+3	3956			© 2019 - Toyota Material Handling Europe Terms of use

### TOYOTA MATERIAL HANDLING

3. It is also possible to copy messages from an existing **Andon** list. Fill out **Title**, **Site** and choose which list the **Andon** messages will be copied from by pressing **Copy messages from**. It is possible to remove and add more messages from the list that was copied.

Pre-Op. Check				
Checklist	>	New Andon list		
Drivers	>			
Machines	>	Title	Test Andon	
Results	>	Site	01 TMHE Prod test Mjölby	
Messaging	_	Copy messages from	Ny Andonlista - Regression Site	
Overview	>			]
Create Message	>			CREATE NEW ANDON LIST
Andon	- 1			2
Manage Andon	>			
3.8.0-FY20.7.2-PreOpCheck+	38956			© 2019 - Toyota Material Handling Europe Terms of use

4. After creating the **Andon** list the user needs to create the messages that is going to be displayed. Type the messages in the box and press **ADD**, then press **Publish** to publish the **Andon** list.

TOYO MATERIAL					I_Si	te			*   1	
Home	Utilization	Shock		Diary	Manage Site	Administration	K My Fleet	[🖗] Map		<b>N</b> Help
Pre-O Checklis	p. Check	>	Test for An	don 1						
Drivers Machine Results		> > >	#1 Test for	Andon 1						$\odot$
Messa	iging	_	POC Andon				·	ADD		
Overvie Create I Andor	Vlessage	>							PUBLISH	
Manage		>							TODEDIT	
3.8.0-FY20.7.2	-PreOpCheck+389	56						© 2019 - Tay	ota Material Handling Europe	Terms of use

### TOYOTA MATERIAL HANDLING

 After publishing the messages, the user needs to assign machines to the Andon messages. Search the for the machines with Machine, Brand or Model and press the plus icon to add them to the assigned list. After selecting and adding to the list press Update. When the trucks has been selected press Publish to publish the Andon list.

Pre-Op. Check Test Andon 1 Checklist > Drivers > Machines > #1 Test for Andon 1 > Results #2 POC Andon Messaging > Overview Create Message > Andon UPDATE CLOSE Manage Andon > Assigned machines Machine Machine Fleet N Brand **O** GORAN4 0 GORAN2 -- Select machine group -- 🔻 machine family -- 🔻 GORAN1 CLEAR ADD ALL SEARCH lachine Model Brand Fleet Number 0 **GORAN5** 8FBMT16 Tovota 5 S TEST\_R3\_009 R3\_009 8FBMT16 Toyota  $\odot$ TEST\_R3\_010 8FBMT16 Toyota R3\_010 ٠ TEST\_R3\_011 8FBMT16 Toyota R3\_011 Ð TEST\_R3\_012 8FBMT16 R3\_012 Toyota TEST\_R3\_013 R3\_013 ÷ 8FBMT20 Toyota • TEST R3 014 8FBMT20 R3 014 Tovota UNPUBLISH

### TOYOTA MATERIAL HANDLING

The final step is to check if Andon is enabled in the Machine Configuration menu.
 Scroll down to Andon and check if Andon is enabled and choose a published list were all the Andon messages will be fetched from.

Manage Site						
Machine Groups	>	Machine Configu	ration			
Machines	>			Γ	TRIGGER COMMUNICATION	UPDATE
Driver Groups	>		Machine ID GORAN1	Model 8FBRK13	Brand BT	
Drivers Access Overview	>		Fleet No 1	Machine Family REA - Reach Trucks	HasInternalShockSensor	
			TMH Fleet Number	Lift Capacity – 1	Year Model N/A	
			Last known state change N/A	Last known state N/A	User	
		[	REQUEST TRUCK REPORT		IBILIZE ON/OFF ACTIVATE SE SHOW WORF	
		Machine Configuration				(
		Machine Configuration	Recommended	Current Configuration	Desired Configuration	Q
		Machine Configuration	Recommended	Current Configuration	Desired Configuration	
		Machine Configuration	Recommended	Current Configuration	Desired Configuration	(
			Recommended	Current Configuration Yes, once per 12h, per driver	Desired Configuration Yes, once per 12h, per drivi	er
		Pre-Operational Check Enable Pre-Op. Check Checklist	Recommended		1	er
		Pre-Operational Check Enable Pre-Op. Check	Recommended	Yes, once per 12h, per driver	Yes, once per 12h, per drive	
		Pre-Operational Check Enable Pre-Op. Check Checklist	Recommended	Yes, once per 12h, per driver	Yes, once per 12h, per drive	

# 13 Positioning

### 13.1 Positioning General information

The features positioning, geofence and shock positioning are all based on the telematics unit having a position that can be delivered. The conditions for being able to deliver position depends on the surrounding environment. When I\_Site requests the truck's position, the last stored position is sent. Due to different conditions, it may be such that the position sent is not completely correct.

In Machine Configuration the truck must have Firmware version 2.5.4 and a supporting telematics unit (DHU2+) and it must be set to enable GNSS.

Positioning (GNSS)	 24			
Enable GNSS	Yes	Yes	•	
Drivers		Yes No	ß	

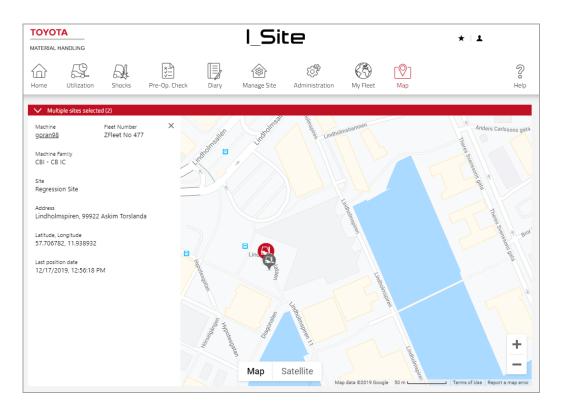
### TOYOTA MATERIAL HANDLING

### 13.2 Positioning feature

To use **Positioning**, press **Map** in the top navigation panel.
 Select the sites in the red bar and the trucks will appear on the displayed map.



2. Zoom in on the map and click on truck on the map to get the information such as **Machine**, **Site**, **Position** and **Date/Time**.



### 14 Geofence

### 14.1 Create Geofence.

Note: In order to show Geofence notifications on machines, Positioning GNSS must be enabled.

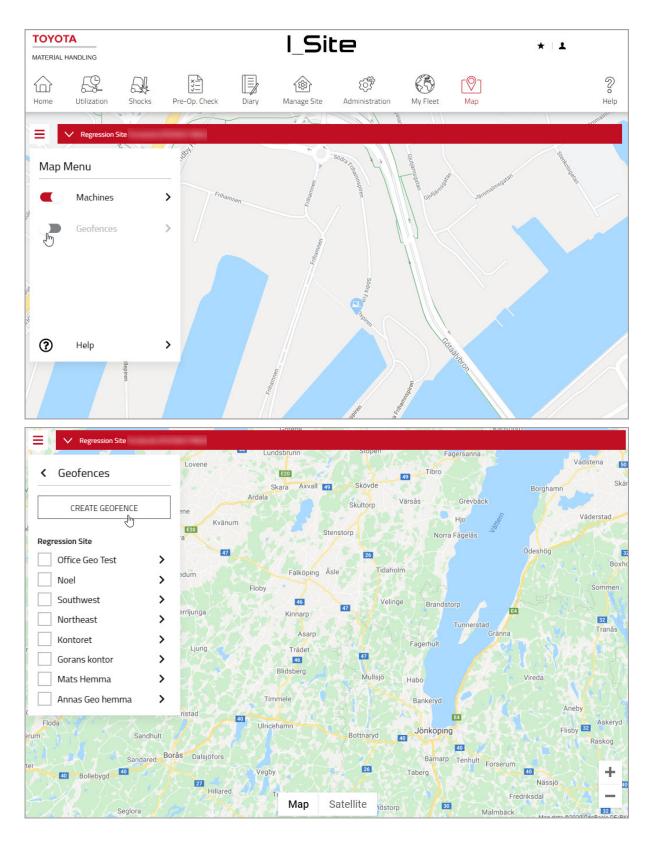
In positioning the location is not always entirely 100% correct. The Position of the shock filters based on data signal that are received. See 13.1 Positioning General information

### TOYOTA MATERIAL HANDLING

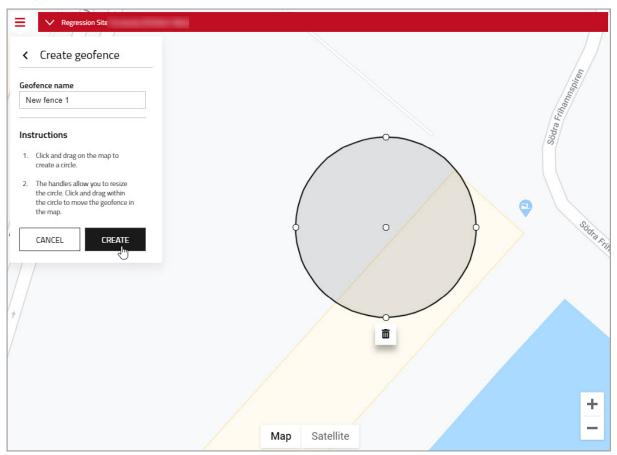
At the Maps menu, turn Geofences 'ON'

Click on 'Create Geofence'.

Set a name on the Geofence and at the desired location drag a circle over on the maps.



### TOYOTA MATERIAL HANDLING



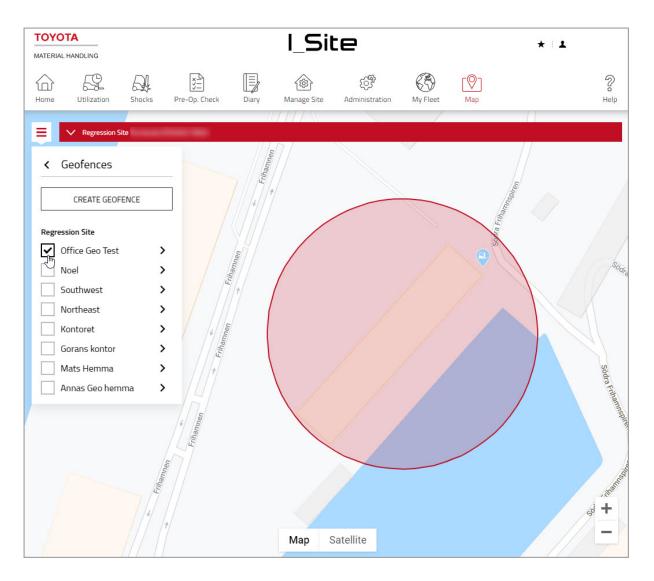
After you have finished with geofence edit, press 'Create'.

When there are more than one Geofences, it is possible to edit and update the existing Geofences under the specified sites.

To edit a geofence first click on the desired area and press 'Edit'.

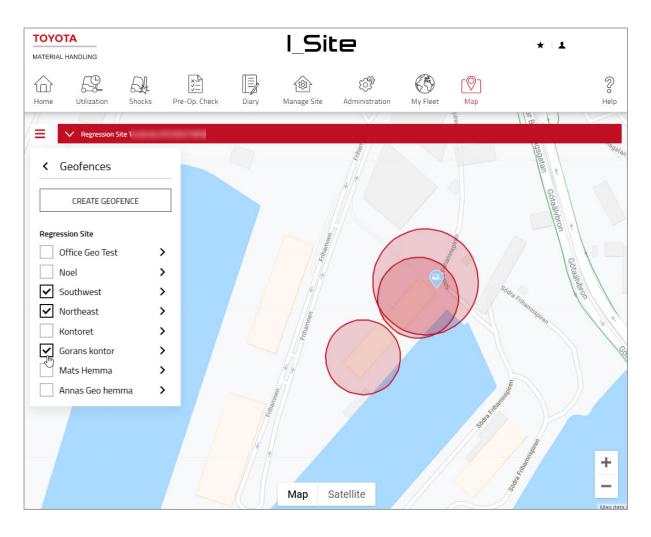
It is possible to choose more than one Geofence area and edit them one by one on the map by selecting on the sites name.

## TOYOTA MATERIAL HANDLING

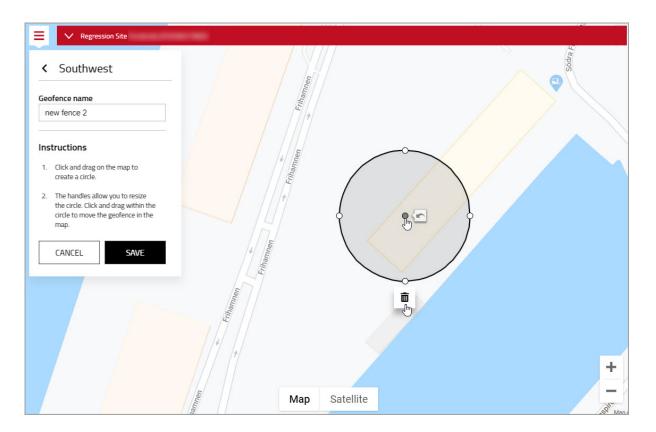


After that you will have the opportunity to *reshape*, *move* and *delete* the fence area.

# TOYOTA MATERIAL HANDLING



# TOYOTA MATERIAL HANDLING



Press 'Save' when changes have been done.

To receive notifications from Geofence, you must go the profile and enable it.

Set the Site, filter the machine group or the owner type and press 'Update'.

# Southwest Geofence name new fence 2 Instructions 1. Click and drag on the map to create a circle. 1. The handles allow you to resize the circle. Click and drag within the circle to move the geofence in the map. CANCEL

# TOYOTA MATERIAL HANDLING

					l_Si	te			* 1	
Home Utilization	n	Shocks	¥⊒ Pre-Op. Check	Diary	(B) Manage Site	کری Administration	My Fleet	[♥] Map		2 Help
My Settings										
Profile	>		Profile for							
Subscriptions	>								-	
Mobile Settings	>								UPDATE	
Notifications			ID	SEU	EMAN1					
General	>		First Name							
Geofence	>		Last Name							
Pre-Op Check	>		Email							
Andon	>		Lindi							
Shock	>		Preferred Email				•			
Superv. Lockout	>		Language							
Battery Incident	>									
Driver Licence Expiry	/ >									
8.3-release-3.9.0+49482								© 2020 - Ta	yota Material Handling Europe	

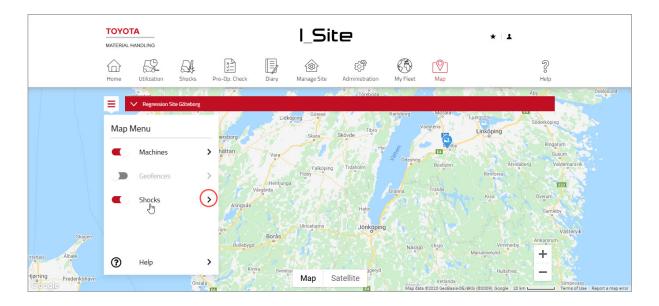
Home Utilization	Shocks Pre-	Op. Check Diary		nistration My Fle	eet Map	2 Help
Subscriptions		fications - Geo Ble Geofence notification	fence ~	Machine groups	All machine groups	×
Geofence Pre-Op Check Andon Shock Superv. Lockout	> Owner	type All owner typ Check all Demo LTR Others Owned STR	v Uncheck all O			UPDATE

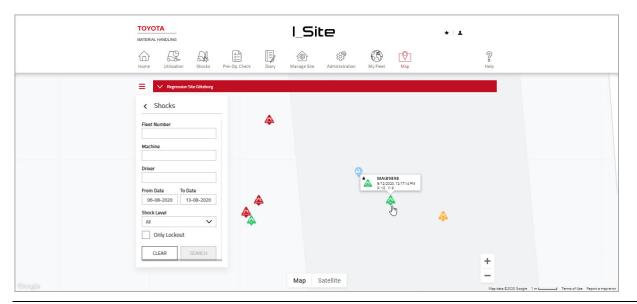
TOYOTA MATERIAL HANDLING

# 15 Shock Positioning

# 15.1 Enabling the shocks positioning

- Go to the "MAP" tab on the top right corner of the I\_Site menu and select on the "MAP MENU" SHOCKS. Press on the dot to enable it.
- 2) After enabling SHOCKS the arrow next to it will be available and will lead to the shock locations on the map with its functions. The user has the possibility to select through a range of settings on the SHOCKS menu, like "Fleet Number, Machine, Driver also Time and Date and Shock Levels"
- 3) Once the wanted machine has been selected, hover over the machine number on the map and by selecting it, this will show info of the recorded shock and its level also time and driver information.
- 4) It is possible to click on the selected Machine ID and this will redirect to the "*Utilization Shock*" menu on I\_Site



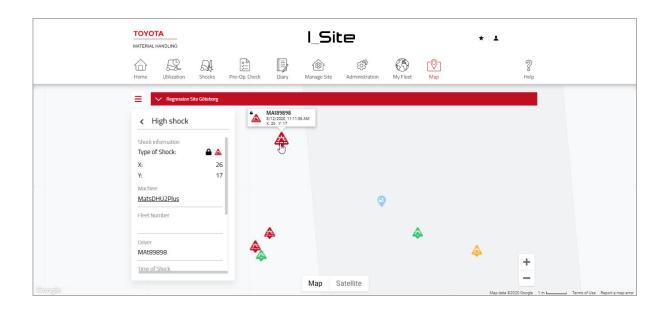


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- 5) Only shocks exceeding the threshold levels are shown on the map
- 6) I\_Site will use the latest position just before the shock.



< High shock	
Shock information	
Type of Shock:	ا ال
X:	26
Y:	17
Machine	
MatsDHU2Plus	
Fleet Number	
Driver	
MAt89898	
Time of Shock	

# TOYOTA MATERIAL HANDLING

From the position of the shock, also map can be accessed via the link from Shock Details.

Sho	ocks	V Reg	ression Site Göteborg							
Drive	ers >	Sh	ock Details							
	ck Details	Mac	hine	Fleet Number	Driver	Additional	l info 1			
		Add	itional Info 2	From Date 7/22/2020	To Date 8/21/2020					
		Sele	ct Shock Type(s)	Select	Category	Select Damage				
		Sh	ock Level	✓ Cate	egory	V Damage		$\sim$		
			tal Summary d: 164 High: 123 Me Date 8/20/2020		Driver Jojje Granit	Machine Testrigg001	18 11	Comment	★ \$ X•	
		4	A 8/20/2020	11:47:07 AM	Driver Driver Reset77777	Machine goran98	× Y 10 4	Comment 🕶	F	
		4	A 8/20/2020	9:58:16 AM	Driver Jojje Granit	Machine Testrigg001	× Y 18 10	Comment	~	
		4	Date 8/20/2020	9:58:15 AM	Driver Jojje Granit	Machine Testrigg001	х ү 14 11	Comment	~	
		4	A A Bate 8/20/2020	9:25:31 AM	Driver Jojje Granit	Machine Testrigg001	× Y 20 20	Comment	~	
			Date		Driver		× ×	Comment		
		4	Date 8/20/2020	9:25:26 AM	Jojje Granit	Machine Testrigg001	26 11		~	

TOYOTA MATERIAL HANDLING

# Appendix: I\_Site shock recordings

### Measuring principle

The shock sensor measures deceleration in X and Y directions with the resolution of 0.1 g. However, rather than presenting a 'g' figure, I\_Site gives the impact magnitude as a 0-100 range (no unit). A deceleration of 2 g is thus presented as 20. The reason for a 'non-g' presentation is that the deceleration varies very much with high peaks in both positive and negative direction due to vibrations. The measurement is therefore done in a moving time window of approximately 40 ms, where several samples are taken. The absolute values of the samples are averaged over the time window, thus giving a filtered value proportional to the impact.

The value presented on I\_Site is the highest filtered value in X and Y directions during a working pass.

### Impact tests

I\_Site shock report from a series of shocks using an OSE120P (no forks).

	Date YYYYMMDD	Shock Time	х	Υ	Login	Logout	Driver ID	Machine ID	Fleet No.	Machine Family	Model
	20080829	11:12	35	1	11:10	11:13	<u>00001</u>	<u>912394</u>	7527-002	Order picking trucks, low levels	OSE120P
	20080829	11:13	23	2	11:13	11:14	<u>00001</u>	<u>912394</u>	7527-002	Order picking trucks, low levels	OSE120P
	20080829	11:14	11	35	11:14	11:15	<u>00001</u>	<u>912394</u>	7527-002	Order picking trucks, low levels	OSE120P
Δ	20080829	11:18	6	16	11:15	11:18	<u>00001</u>	<u>912394</u>	7527-002	Order picking trucks, low levels	OSE120P

Time	Method	Test person response
11:12	Driving into a wall at high speed	"substantial"
11:13	Driving into a wall at low speed	"milder"
11:14	- Hitting the right side of the truck	"relatively hard"
11:18		"milder"