

Dashboard User Guide

TELIA for Coil



TELIATM
technology for the material
handling of heavy products

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Document Revision History

Revision	Date	Editor	Description of Changes
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V2	2023-12-05	M. Donovan	Formatted some pictures
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1. Overview

The TELIA™ dashboard was created with interactive screens that help facilitate operational decision-making, reporting, communication, and data engagement with the TELIA system. The dashboard gives the user:

- Easy access through a web interface
- A visual representation of data from multiple sources in a single view
- Ability to access detailed data with drilldowns and interactive intelligence
- Run and export reports which have been created and can be customized
- Access / use of functions that can be restricted to authorized personnel via logins and passwords

The TELIA Dashboard includes these menus and sub-menus:

Dashboard

TELIA

- Resource View
- Storage Area View

Inventory

- Inventory

Reports

- Aging Inventory Report
- Orders Report
- Jobs Report
- Throughput Report
- Dimension Difference Report
- Quarantine Report
- Footprint Report
- Occupancy Report
- Unoccupied Report

Facility Management

- Bays
- Rows
- Positions
- Cradles
- Remove Coil
- Requests
- Remapping
- Bunking

Administration

- Users
- Roles
- Groups

Help

- Glossary
- Release Notes
- Etc.

Detailed information on how to effectively navigate through the dashboard menus and sub-menus follows.

2. Login

A 'Username' and 'Password' are required to gain access into the Dashboard and some Dashboard functionality is restricted to users with administrative rights (e.g., the ability to remove a coil from the TELIA map). Users can be set up by CareGo or by company personnel who have been given administrator rights.

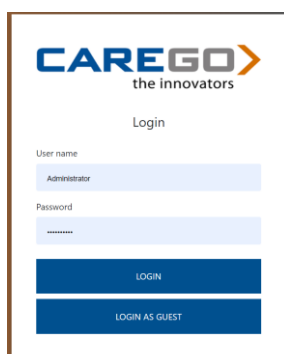


Figure 1 - Login Screen Example

3. Menus and Sub-Menus

Once logged in, Menus and Sub-Menus can be accessed through the menu bar that displays on every screen within the Dashboard.

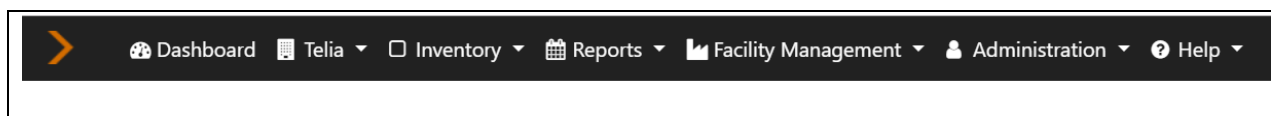


Figure 2 - Menu Bar Example

Note: All screens on the Dashboard are 'static' and must be refreshed in order to view the most recent information.

3.1 Dashboard (Main Screen)

When logging into the Dashboard, the default screen that displays is the visual representation of any areas under automated control within TELIA.

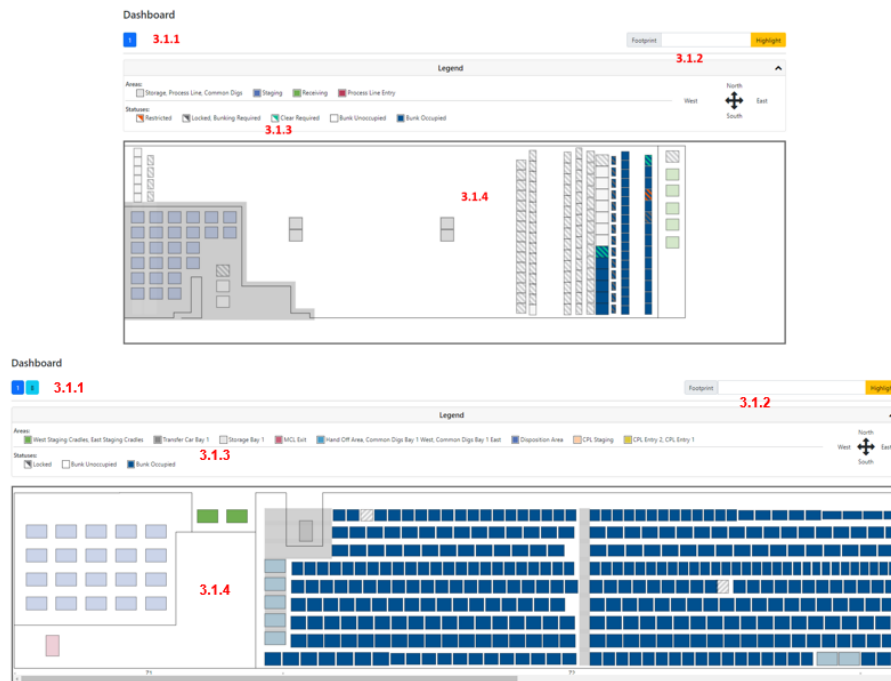


Figure 3 – Dashboard Examples

3.1.1 Bay Widget¹

All TELIA automated areas will be represented by a widget and the information for that area is displayed when the widget is pressed. One area will always come up as the default by selecting a widget for another area will change the dashboard screen to the area selected. A left mouse click on a widget refreshes the information that is displayed.

3.1.2 Footprint Search Bar

The 'Footprint' search bar allows users to search a TELIA footprint location within the displayed area layout. Footprints are positions in the bay in which similar sized coils are placed (e.g., all steel coils with an OD of 62.001" to 64" and a width of 37.001" to 43" will be placed within the C64 footprint).

To search for a footprint first type in the alpha that represents the width range you would like to see. Once the alpha is entered into the search field, all footprints currently mapped in the TELIA automated

¹ A 'Widget' is an interface that allows a user to perform a function by a left mouse click or by touching it on a 'touch' screen monitor.

storage area for that width range will populate in a drop down. You can now use the scroll bar to select the footprint you would like to see.

Then, clicking on the 'Highlight' button will show where in the map the footprint locations are. The highlighted spots will have a black box flicker a few times around the parameter of the location and then a black border will remain around the location(s).

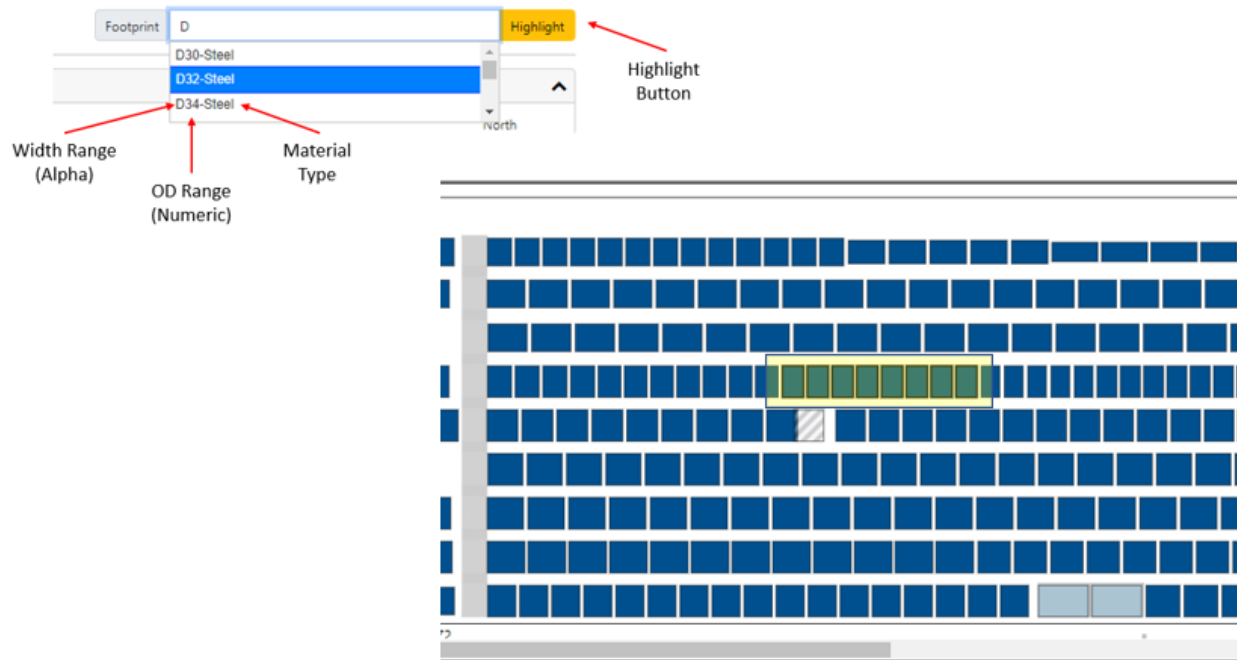


Figure 4 – Footprint Search Bar Result Example

3.1.3 Legend

The 'Legend' is used in conjunction with the 'Bay View' of the dashboard to decipher the status of each item's position within the bay selected, or the different areas/resources within the TELIA area. Left mouse clicking the arrow on the top right corner will hide the Legend.

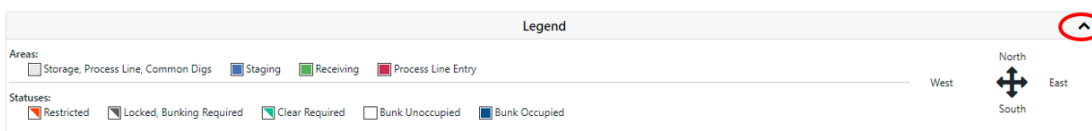


Figure 5 – Legend Example

Each installation of TELIA will have a customized legend, but some area definitions you could find in this area include, but are not limited to:

- Storage, Processing Line, Common Dig
- Staging

- Receiving
- Process Line Entry
- Process Line Exit
- Transfer Car Bay
- Disposition Area

Each installation of TELIA will have a customized legend, but some status definitions you could find in this area include, but are not limited to:

Clear Required - An occupied coil position within the TELIA automated area which has been marked as 'Clear Required'. TELIA will create a job to empty that position and maintain it at a restricted status. Positions that are restricted allow TELIA to move coils out but does not allow coils to be put back into the position.

Disabled - A position within the TELIA automated area which is disabled. Disabling or enabling a position can only be done by CareGo personnel as it is meant to be a long-term solution for an issue (e.g., a position may be disabled to ensure coils cannot be placed there because of a roof leak). A disabled position will not be used by TELIA to pick an item from nor to place an item to.

Locked - A locked position will not be used by TELIA to pick an item from nor to place an item to. Users can mark a position locked when an issue has occurred, so TELIA doesn't use that position until the issue has been dealt with. A locked position can be either occupied or unoccupied.

Locked, Bunking Required - This position is not available(usable) until it has been physically bunked using the Dashboard.

Bunk Occupied - A position is marked as occupied once the TELIA automated system places a coil in it. This status allows TELIA to pick up this item if there is a job created for it.

Restricted - A restricted position will not allow TELIA to place an item there, but it allows TELIA to pick an item from there. Operations can mark positions restricted when they want TELIA to empty a section of the map (i.e., in order to make some row changes).

Bunk Unoccupied - An unoccupied position is available to the TELIA automated system to place an item.

Unknown Coil - An unknown coil status will be displayed when a sensored cradle senses a coil occupying the position, but TELIA does not know about the coil (has not been scanned into the position yet). Since the system has not received any coil details, the position will be displayed until the coil is scanned into TELIA, at which point, the position will turn solid blue.

3.1.4 Bay View

The 'Bay View' allows the user to see a graphical representation of TELIA automated areas for the bay. Each position is represented by a square/rectangle, and its colour and pattern characterize its current status. Positions are not only present within the rows, but also on the smart cradles and the saddles. This screen is dynamic so, if remapping of footprints occurred, the new footprint would display accurately after the screen is refreshed (reference Section 3.1.1)

If the whole width of the warehouse is too large to fit in its entirety on some device screens, a scroll bar will display at the bottom of the bay view that will allow the user to scroll right or left in order to view the entire warehouse.

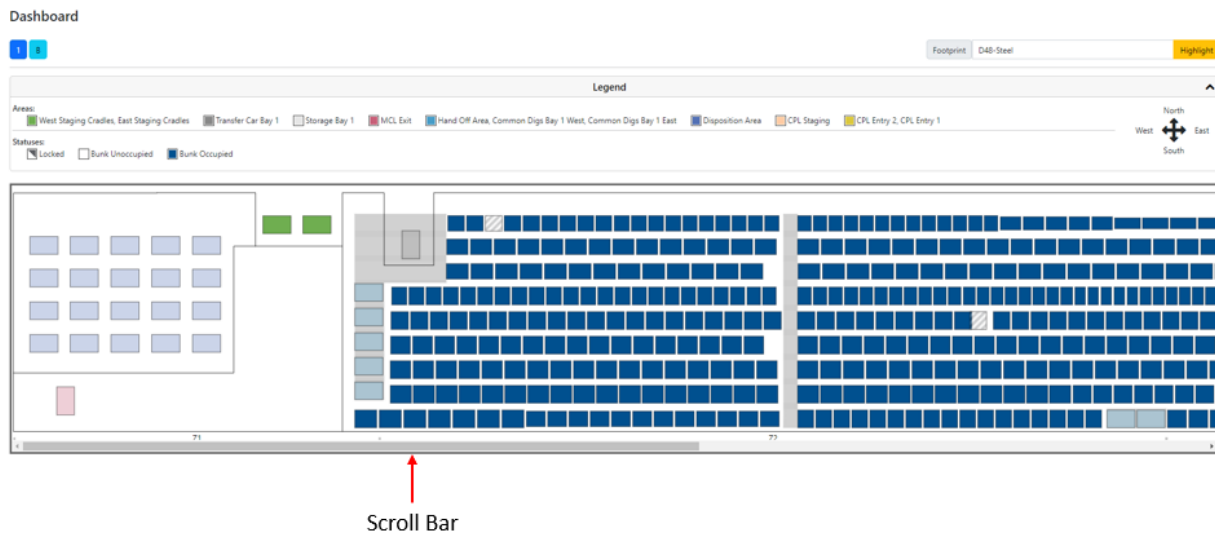


Figure 6 – Bay View Example

Clicking on an occupied position with the mouse, the user can view a coil's footprint and position information. This action will bring up the Side View of the Row and Positions. This screen will allow you to change the orientation of the screen depending on which end of the row you would like to see, and also drill down into specific coil information.

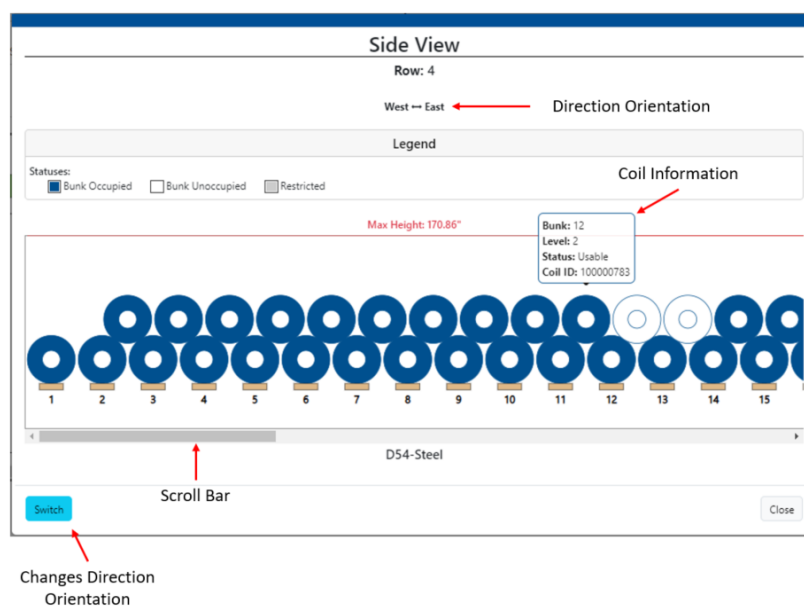


Figure 7 – Side View of Row Example

The side view screen will always open to your facilities default direction orientation. Depending on the layout of the TELIA automated area, this could be North to South, East to West, or visa versa. While the screen opens to this default, the user is able to click on the 'Switch' widget in the bottom left of the screen to change the default orientation if they would like to focus on a position at the opposite end of the row.

In addition to the direction orientation, a user can also access individual position and coil information. Hovering over a position with the mouse will display the bunk, level, status, and Coil ID, and then a left mouse click on the desired coil will bring up the coil details screen. To get out of this screen, click on the 'Close' widget.

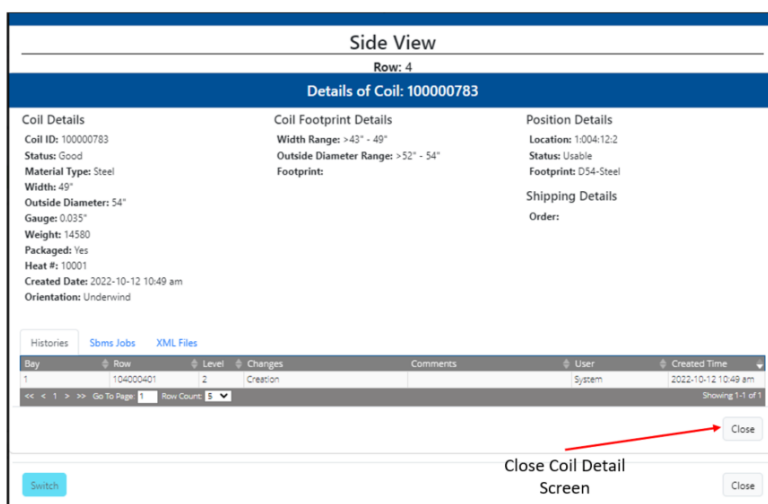


Figure 8 - Coil Information Screen via Side View Row Screen Example

4. TELIA

Under the 'TELIA' menu, a user can select 'Resource View' or 'Storage Area View' to view the state of the TELIA resources and storage areas.

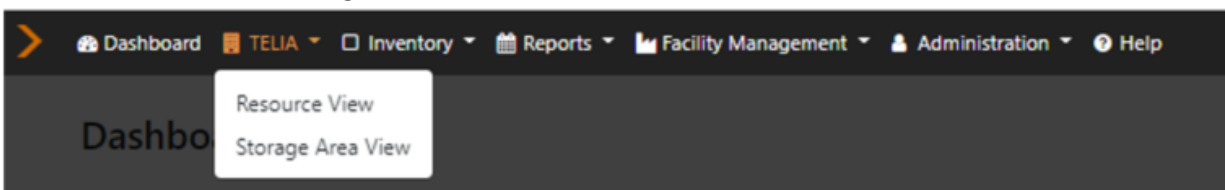


Figure 9 - TELIA Menu Example

4.1 Resource View

The 'Resources View' allows the user to view all the various resources and their current status. The screen that displays is static. Left click on the 'search' button to get the most current information on the resources.

The fields displayed are:

- 4.1.1 Resources
- 4.1.2 Resource Type
- 4.1.3 Status
- 4.1.4 Job Name
- 4.1.5 Job Source
- 4.1.6 Job Destination
- 4.1.7 Coil ID

Resource View

Filter By: Resource Type: All Search

Resources	Resource Type	Status	Job Name	Job Source	Job Destination	Requests	Coil ID
CRS	Crane	Off					
CRS	Crane	Off					
CRW	Crane	Off					

Showing 1-3 of 3

Figure 10 – Resource View Example

4.1.1 Resources

All TELIA controlled resources will display in this list by their name.

4.1.2 Resource Type

Displays the type of resource (e.g., crane, transfer car, AGVs, etc.)

4.1.3 Status

This list will display the current status of the resource. It is important to remember that this screen is only accurate to the last moment it was refreshed. In order to get the current status of the resources, the user should click the 'Search' widget.

Status types include, but are not limited to:

Active - The crane is active with a job.

Off – Resource has been turned off temporarily.

Idle - The crane is online and in TELIA automation but has not been assigned a job by the database.

Idle with Load - The crane is online and in TELIA automation with a coil hoisted on the crane but has not been assigned a job by the database.

Detouring – When either a crane moves out of the way of another crane's flightpath, or when a crane moves to its rest/cycle stop position.

Raise Empty - The crane is online and in automation. The lifting device is hoisting up without a coil (this is usually the last step of a job before the crane moves into Idle status to wait for the next job).

Belly Box Control – Resource is being controlled by the belly box.

HMI Manual – Resource is being controlled in PLC mode manually from the HMI.

Faulted – Resource has an active fault.

Cycle Stop – Resource is moving to Cycle Stop position at the request of HMI user.

Bunking – Resource is in bunking mode.

4.1.4 Job Name

This list will display the current job the resource is doing. The jobs that can be executed could include, but are not limited to:

Clear Line - A clear request is when a coil is to be cleared from a process entry point. Information will be communicated to TELIA that a coil needs to be picked up from the line. TELIA will find a location for the coil within any TELIA controlled areas.

Feed Line - When TELIA receives a Feed Line request, it will try to send the highest priority coil directly to a position at a process line. If that position is occupied or unavailable, TELIA could place the coil into a secondary pre-line area.

Once the position at the process line becomes available TELIA will place the next highest priority coil there.

Deliver Item – Is a request for delivering coils for a shipment, Operations will inform TELIA when a coil is required to be staged for shipment. When the time comes to stage the coil, TELIA will move the coils to one of the staging cradles in the staging area.

Store - A store request occurs when Operations requires a coil to be placed within the TELIA automated storage area. This will often happen from a receiving cradle

Housekeeping - Housekeeping is a group of jobs that are initiated by TELIA when there are no other requests in the system. The Housekeeping jobs that will be performed, their order and their description will vary depending on the needs of Operations. Some jobs in housekeeping include, but are not limited to:

1. Clear Staging Area
 - a. This job will empty the staging area cradles from any coils that are currently there but without a request to move somewhere else (i.e., truck for shipment, processing line)
2. Return Digs
 - a. This job will empty any Common Dig spots that have coils there from earlier dig jobs.
3. Clear Area
 - a. This job is triggered via the Dashboard when an operator has flagged a spot as Clear Required.
 - b. TELIA will empty these spots with this job.
4. Consolidation.
 - a. With this job TELIA reorganises the storage area according to the stacking rules (Flat or Condensed) that are applied.

4.1.5 Job Source

Is the location from which the job will start.

4.1.6 Job Destination

Is the location at which the job will end.

4.1.7 Coil ID

If there is an item present under the 'Coil ID' column, the user can left mouse click on the coil ID and the coil details screen will pop up.

4.2 Storage Area View

The 'Storage Area View' screen includes all storage areas within TELIA automation. Storage Areas could include, but are not limited to; Storage, Receiving, Staging, Process Line Entries and Exits, Common Digs, Handoff Area, Disposition Areas etc. This screen allows users to see if storage areas are accessible and/or enabled. When as area is breached (via open gate, breached light curtain etc.) this page will show that the area is inaccessible.

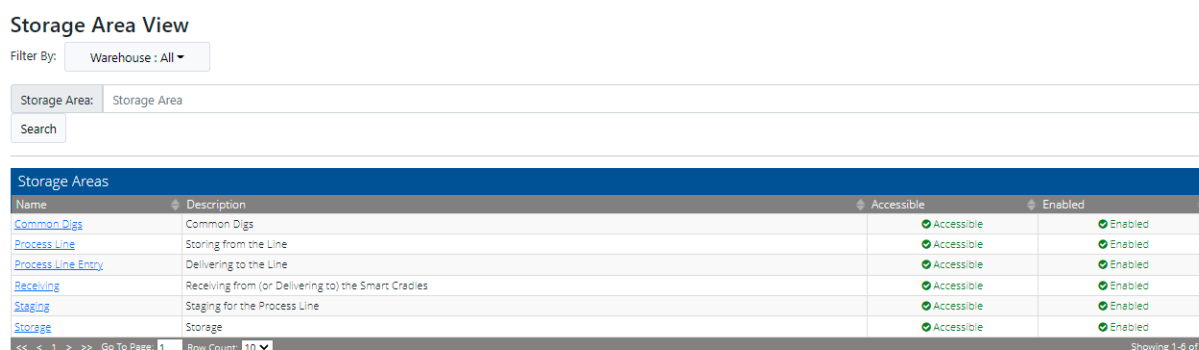


Figure 11 –Storage Area View Example

5. Inventory

The 'Inventory' screen allows the user to see all the coils currently located in TELIA storage areas.

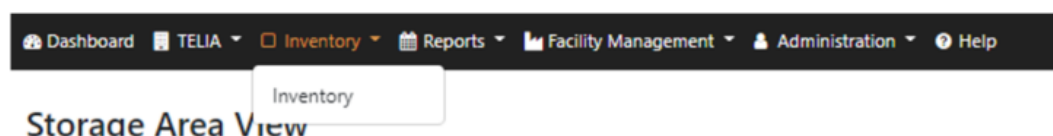


Figure 12 – Inventory Menu Example

5.1 Inventory Details

The user can choose to see inventory details by:

1. Coil ID
2. Status (i.e., good, QA or blocked)
3. Coils that fit into a certain weight, and/or OD, and/or width range
4. Coils within a bay
5. Coils withing a row

To look for an individual coil, the user can type the coil ID into the 'Coil ID' field ① and hit the search button. To look at the coil information for an entire bay, the user can select the folder icon ⑤.

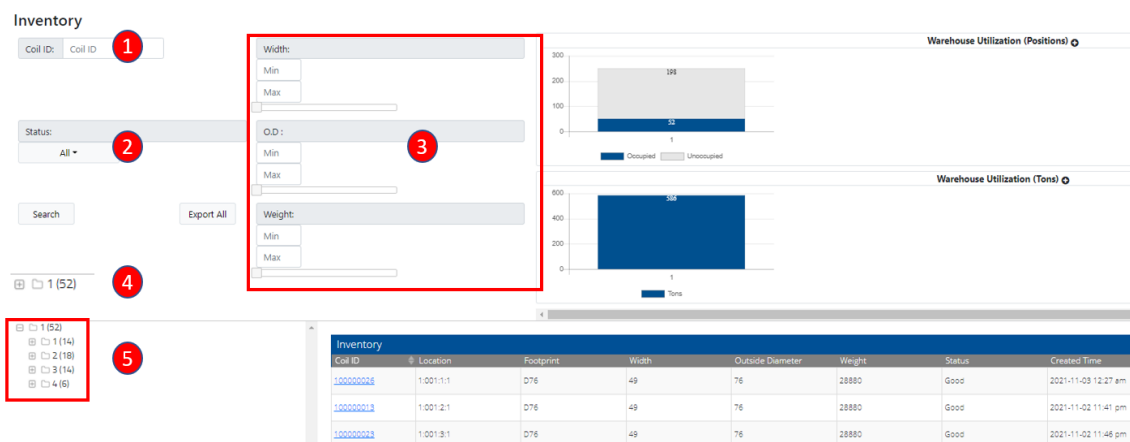


Figure 13 – Inventory Example

To look at the coil information for a specific row, the user must first select the '+' button beside the bay in which the row is located. This action will show the user all the rows in the selected bay and the user can then again hit the '+' button beside the row they would like to view. The number in brackets next to the row number shows the number of coils in the row.

After entering a coil ID and pressing 'Enter', the high-level details of the coil will display. The information includes; Coil ID, current location, footprint, dimensional information (width, OD, etc.), current status of the coil, and date entered into TELIA .

Location is defined as: *Bay:Row:Bunk:Level (e.g., 1:001:2:1)*

Inventory								
Coil ID	Location	Footprint	Width	Outside Diameter	Weight	Status	Created Time	Move
100000006	1:001:2:1	K80	90	80	50000	Good	2021-08-17 3:08 pm	Move
<< < 1 > >> Go To Page: 1 Row Count: 10 Showing 1-1 of 1								

Figure 14 – Coil ID Search Result Example

If the user requires additional information for a coil (information that is not present on the main screen), they can do so by clicking on the 'Coil ID' for the coil they want to see. This action opens the coil details screen.

Inventory

Coil ID

Location

100000049

<<

<

>

>>

Details of Coil: 100000049

Coil Details

Coil ID: 100000049
Status: Good
Material Type: Steel
Width: 55"
Outside Diameter: 60"
Gauge: 0.035"
Weight: 18000
Packaged: No
Heat #: 10001
Created Date: 2021-11-03 9:43 am

Coil Footprint Details

Width Range:
Outside Diameter Range:
Footprint: E60
Exposed: No

Position Details

Location: 1:002:8:1
Status: Usable
Footprint: E60

Shipping Details

Order:

Histories

Subms Jobs

XML Files

Bay	Row	Level	Changes	Comments	User	Created Time
1	104000301	1	Creation		System	2021-11-03 9:43 am

<<

<

>

>>

Go To Page: 1

Row Count: 5

Showing 1-1 of 1

Close

Figure 15– Coil Details Example

Alternatively, a user can also export the inventory into an Excel spreadsheet by selecting the 'Export All' near the top left of the screen.

File Home Insert Page Layout Formulas Data Review View Developer Help										
<div> <div>Clipboard</div> <div>Font</div> <div>Alignment</div> <div>Number</div> <div>Styles</div> </div>										
<div> <div>M18</div> <div> <div>Calibri</div> <div>11</div> <div>A</div> <div>A</div> </div> <div> <div>B</div> <div>I</div> <div>U</div> <div></div> <div></div> <div></div> </div> <div> <div>General</div> <div>\$</div> <div>%</div> <div></div> <div></div> <div></div> </div> <div> <div>Conditional Formatting</div> <div>Format as Table</div> <div>Cell Styles</div> </div> </div>										
A	B	C	D	E	F	G	H	I	J	K
1	Title : All Inventory Dump									
2	Date : 11/10/2021									
3										
CoilID	Bay	Row	BunkPosition	Outside Diameter	Width	Weight	Material Type	Outside Diameter Range	Width Range	Level
100000026	1	1:001	1	76	49	28880	Steel	>74" - 76"	>43" to 49"	1
100000013	1	1:001	2	76	49	28880	Steel	>74" - 76"	>43" to 49"	1
100000023	1	1:001	3	76	49	28880	Steel	>74" - 76"	>43" to 49"	1
100000022	1	1:001	4	76	49	28880	Steel	>74" - 76"	>43" to 49"	1
100000021	1	1:001	5	76	49	28880	Steel	>74" - 76"	>43" to 49"	1
100000020	1	1:001	6	76	49	28880	Steel	>74" - 76"	>43" to 49"	1
100000019	1	1:001	7	76	49	28880	Steel	>74" - 76"	>43" to 49"	1
100000018	1	1:001	8	76	49	28880	Steel	>74" - 76"	>43" to 49"	1
100000017	1	1:001	9	76	49	28880	Steel	>74" - 76"	>43" to 49"	1
100000016	1	1:001	10	76	49	28880	Steel	>74" - 76"	>43" to 49"	1
100000015	1	1:001	11	76	49	28880	Steel	>74" - 76"	>43" to 49"	1
100000014	1	1:001	12	76	49	28880	Steel	>74" - 76"	>43" to 49"	1
100000025	1	1:001	13	76	49	28880	Steel	>74" - 76"	>43" to 49"	1
100000024	1	1:001	14	76	49	28880	Steel	>74" - 76"	>43" to 49"	1

Figure 16– Export Excel .csv File Example

5.2 Warehouse Utilization

The warehouse utilization charts demonstrate the current state of each bay. The blue portion of the individual chart column represents what is currently held in the TELIA storage area (occupied) and the grey portion represents available unoccupied space. Users may select the Occupied/ Unoccupied label in the graph legend to exclude the corresponding status.

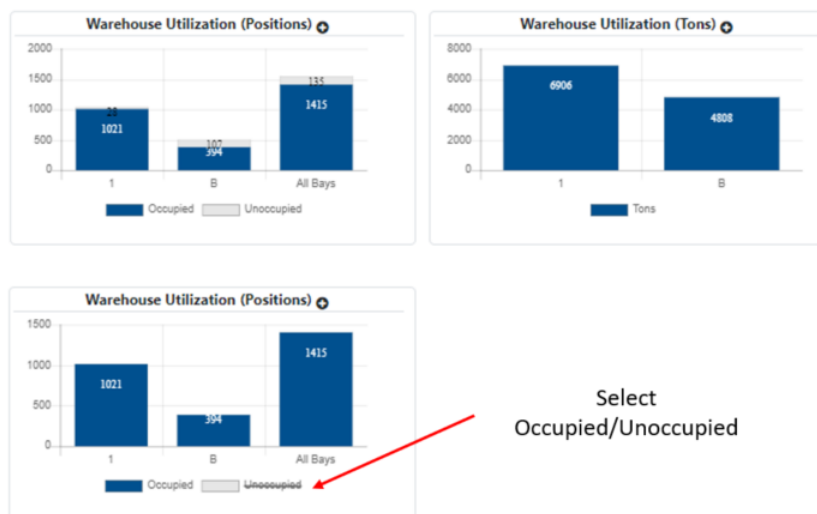


Figure 17 – Warehouse Utilization Charts Example

6. Reports

TELIA reports can be created and accessed via the 'Reports' menu, and each facility will have a customized list of reports to select from. Most reports located under this tab can be exported to a .csv Excel file for easier investigation or analysis by Operations.

Examples of some of the reports are outlined below.

6.1 Aging Inventory Report

This report shows the number of days a coil has been in TELIA. The default displays 10 lines of information sorted by oldest received date for a coil in inventory. The information within this screen can be sorted by 'Coil Id.', or 'Received Date' by a left-mouse click on the arrows located at the top right-hand corner of the column. If the 'Row count' is changed from 10 to 25 or 50, the next time this sub-menu is accessed the last 'Row count' choice will remain and display the chosen number of lines of information. However, the coil's ID would always default to display the oldest item first.

To display inventory within a specified time frame, enter a 'Start Date' and an 'End Date' by choosing it from the calendar.

To download this information, choose 'Export' from the dropdown menu. Once the csv file is saved, sort by the columns as required.

Aging Inventory Report

Start Date: 11/22/2021 12:00:0 PM End Date: 11/24/2021 12:00:0 PM Older Than: 0

Search Export

Aging Inventory Report						
Coil ID	Warehouse	Location	Outside Diameter	Inside Diameter	Gauge	Age (Days)
				Empty		
Row Count: 50						

Figure 18 – Aging Inventory Report Example

6.2 Orders Report

The 'Orders Report' provides a view of the current orders in the TELIA system. If the user wants to see orders within a specific time period, they can do so by using the 'Start Date' and 'End Date' fields. The user can also export the report into an Excel spreadsheet by selecting 'Export' on the top right of the screen.

Orders Report

Start Date: 08/07/2019 3:40 PM End Date: 08/30/2019 3:40 PM All Storage Areas Search Export

Orders	Order ID	Destination	Shipped Date	# of Coils
	900000001	Storage Bay 1	2019-08-15	19
<< < 1 > >> Go to page: 1 Row count: 20 Showing 1-1 of 1				

Figure 19 – Orders Report Example

Each order is expandable by using the button under the Orders column. This allows the user to see each individual coil that is part of the order, its footprint, and its current location.

Orders Report

Start Date: 08/07/2019 3:40 PM End Date: 08/30/2019 3:40 PM All Storage Areas Search Export

Orders	Order ID	Destination	Shipped Date	# of Coils
	900000001	Storage Bay 1	2019-08-15	19
Coil ID	Footprint	Width	Outside Diameter	Current Location
Coil 3	5049	44	50	
Coil 4	5049	44	50	104000306
Coil 5	5049	44	50	
Coil 9	5431	26	54	
Row count: 10				
<< < 1 > >> Go to page: 1 Row count: 20 Showing 1-1 of 1				

Figure 20 – Example Order Coil Details

6.3 Jobs Report

The 'Job Report' allows the user to view or download a report that will show all the jobs that have been executed for a date range. You can filter the report by bay, resource, job type, and job status.

You can either view the report in the dashboard or export it into an Excel file (recommended).

The first page of the report will show a chart and bar graph the summarizes the information for the parameters selected, and the second tab shows the job details. Some of the job details that are listed include, but are not limited to:

- Job Type
- Resource
- Source and Destination
- Created, Start, and End Time
- Job Status

6.4 Throughput Report

The 'Throughput Report' allows the user to see how many requests per job type have happened during a period of time. The user is able to filter the information by the Request Type and then the start and end date time field. The user can then also export the report to Excel for analysis.

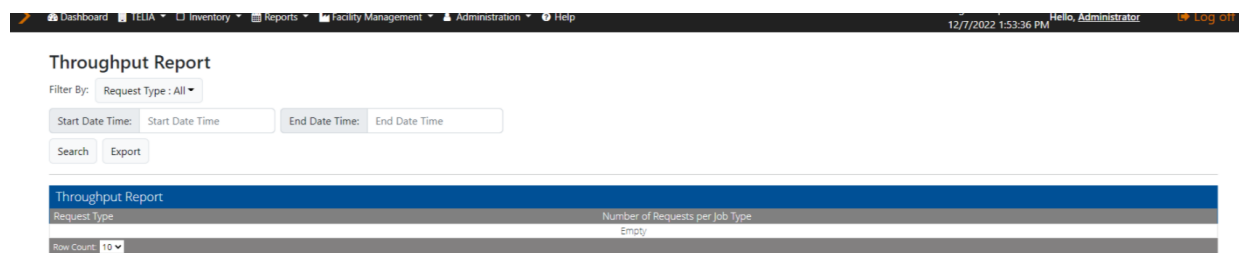


Figure 21 - Throughput Report Example

6.5 Dimension Differences Report

The 'Dimension Differences Report' allows the user to see any discrepancies in the measurements of a coil's width and OD between what Operations passed to TELIA (via web service) and what the crane measured on pickup.

The user can filter by bays, or search for specific items, width (min/max), or outside diameter (min/max). The resulting information can also be exported into an excel file for easier analysis.

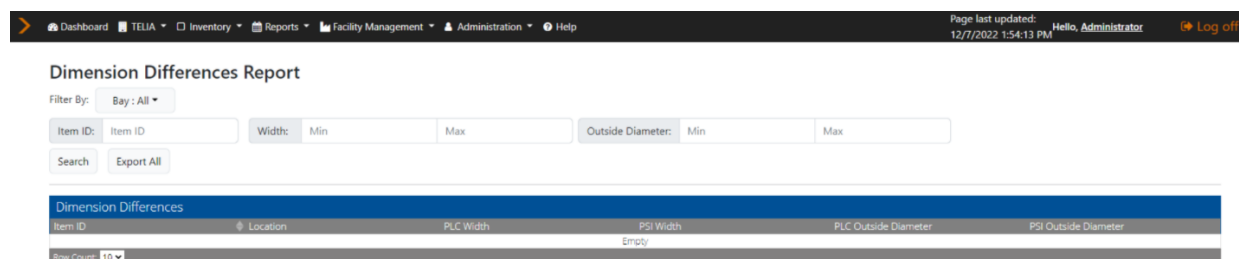


Figure 22 - Reports - Dimension Differences Report Example

6.6 Quarantine Report

The 'Quarantine Report' allows users to see all the coils that are currently quarantined within the TELIA automated area(s). The report will list the:

- Coil ID
- Current Location
- Coil Status
- Time Spent in Quarantine
- Reason

Quarantine Report

Export All

Quarantine				
Coil ID	Location	Coil Status	Time Spent in Quarantine	Reason
Empty				
Row Count: 10				

Figure 23 - Quarantine Report Example

6.7 Footprint Report

The 'Footprint Report' allows the user to see all footprints that are in TELIA storage, the number of positions in each footprint, and how many of them are occupied or available. The report can be filtered by footprint or coil dimension range (width and OD).

Footprint Report

Filter By: Warehouse : All

Footprint Code:	Footprint Code
Width:	Min
	Max
Outside Diameter:	Min
	Max
Search	Export

Footprint Report								
Footprint	Width Range	Outside Diameter Range	Occupied Positions	Unavailable Positions	Available Positions	Total Positions	% Of Occupied Positions	% Of Available Positions
H80	> 67" to 73"	>78" - 80"	0	0	9	9	0.00%	100.00%
I76	> 73" to 79"	>74" - 76"	4	31	3	34	11.76%	8.82%
I78	> 73" to 79"	>76" - 78"	6	6	5	11	54.55%	45.45%
I80	> 73" to 79"	>78" - 80"	3	3	36	39	7.69%	92.31%
J80	> 79" to 85"	>78" - 80"	0	0	11	11	0.00%	100.00%
K76	> 85" to 90"	>74" - 76"	5	61	2	63	7.94%	3.17%
K78	> 85" to 90"	>76" - 78"	4	4	3	7	57.14%	42.86%
K80	> 85" to 90"	>78" - 80"	81	97	20	117	69.23%	17.09%

Figure 24 – Footprint Report Example

6.8 Occupancy Report

The 'Occupancy Report' allows the user to see, by footprint how many positions are occupied or unoccupied. The user is able to filter by width or OD range and the report can be exported into Excel for analysis.

The top portion of the report will show a summary of occupied, unoccupied, and total for each bay, while the bottom portion of the report will show the details by footprint.

Dashboard TELIA Inventory Reports Facility Management Administration Help Page last updated: 12/11/2022 1:54:40 PM Hello, Administrator Log off

Occupancy Report

Width: Min Max Outside Diameter: Min Max

Search Export All

Totals			
Bay	Occupied	Unoccupied	Total
A	0	1607	1607
B	0	1644	1644
C	0	1641	1641
Total	0	4892	4892

Occupancy								
Footprint	Bay A Occupied	Bay A Unoccupied	Bay B Occupied	Bay B Unoccupied	Bay C Occupied	Bay C Unoccupied	Total Occupied	Total Unoccupied
A28	0	0	0	0	0	1	0	1
A32	0	0	0	0	0	1	0	1
A34	0	2	0	0	0	0	0	2
A36	0	8	0	7	0	7	0	22
A38	0	0	0	4	0	4	0	8
A40	0	2	0	2	0	2	0	6
A42	0	3	0	0	0	1	0	4
A44	0	0	0	2	0	1	0	3
A46	0	4	0	4	0	4	0	12
A48	0	3	0	5	0	5	0	13

Showing 1-10 of 146

Figure 25 - Occupancy Report Example

6.9 Unoccupied Report

The 'Unoccupied Report' allows the user to see how many available unoccupied positions are within TELIA automation. By default, the report will open with all bays and footprint combinations, but the user can look specifically at certain footprint by using the search features.

The number listed for each footprint (e.g., D70) is how many available unoccupied spots there are for that footprint in TELIA automation.

Search Features

Unoccupied Positions Report

Width: Min Max Outside Diameter: Min Max

Search

Bay 1				Bay 2			
	A	C	D		C	D	E
38	0	2	2	54	0	1	0
40	0	0	2	60	1	0	0
44	0	1	1	64	0	1	0
46	0	0	1	66	0	4	0
48	0	0	1	68	0	13	0
49	0	3	0	70	0	12	0
50	0	0	5	72	18	8	0
54	1	4	2	74	6	5	1
56	1	0	0	76	3	3	0
	2	10	13	78	17	2	0
				80	9	0	0
					54	49	4

Total Unoccupied Positions: 132

Figure 26 – Unoccupied Report Example

7. Facility Management

Operations can manage the different positions and their status through the 'Facility Management' menu. Options under this menu could vary depending on the needs of the facility.

7.1 Bays

The 'Bays' screen gives users an overview of all bays in their facility. From this view users with administrative rights will be able to restrict/un-restrict and lock/unlock an entire bay. In addition, users will be able to update the stacking type for each bay by selecting 'Update Bay's Stacking Method Type' for the desired bay.

Bays

[Save All](#)

Name	Bay	Comments	Warehouse Decision	Locked	Restricted	Stacking Method Type
1	Bay 101		Included	Unlocked	Unrestricted	Set

<< < 1 > >> Go To Page: 1 Row Count: 10 Showing 1:1 of 1

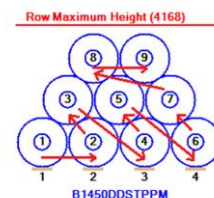
Figure 27 – Facility Management – Bays Screen Example

7.1.1 Stacking Type

Users can toggle the stacking type for the bay by selecting 'Update Bay's Stacking Method' in the 'Bays' menu. In the pop-up, users will be able to select the Condensed or Flat Stacking method.

7.1.1.1 Condensed Stacking Coil

The organization of coil positions within a footprint so that level 1 and level 2 positions are filled in tandem, then level 3. This method will utilize floor space at the expense of causing more digs within the row.



7.1.1.2 Flat Stacking

The organization of positions within a footprint so that all level 1 positions are filled first, then level 2, then level 3. This method is used to reduce the number of digs in a footprint until the first level fills completely at the expense of floor space required for the material in an area.

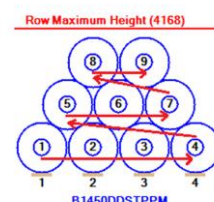


Figure 28 – Bays - Update Bay's Stacking Method Type Example

7.2 Rows

The 'Rows' screen is used to view information for a row and its status. A user can look up a specific row, filter by bay, storage area, or by status. By selecting a status under columns 'Locked', 'Restricted' or 'Clear Required' the user can restrict, lock or clear coils from a row.

Rows

Row: Row | All Warehouses | All Storage Area Types | Locked Filter: All | Restricted Filter: All | Clear Required Filter: All | Enabled Filter: All | Search | Save All

Row	Length	Width	Comments	Locked	Restricted	Clear Required	Enabled
1.001	3995.078	49		Unlocked	Unrestricted	Not Required	Enabled
1.002	3995.078	49		Unlocked	Unrestricted	Not Required	Enabled
1.003	3995.078	49		Unlocked	Unrestricted	Not Required	Enabled
1.004	3995.078	49		Unlocked	Unrestricted	Not Required	Enabled

Figure 29 – Facility Management – Rows Example

To change the status of a row, click (a) the status that needs to be changed. The button will turn from green to yellow. Once all required changes have been made, select 'Save All' (b). No changes are made within the TELIA system until 'Save All' is selected.

Rows

Filter By: Bay: All | Storage Area Type: All | Locked: All | Restricted: All | Clear Required: All | Enabled: All

Row: Row | Search | Save All (b)

Row	Length	Width	Comments	Locked	Restricted	Clear Required	Enabled
1.001	1163.0815	73		Unlocked	Unrestricted	Not Required	Enabled
1.002	1163.0815	73		Unlocked	Restricted (a)	Not Required	Enabled
1.003	1163.0815	73		Locked (a)	Unrestricted	Not Required	Enabled
1.004	1163.0815	73		Unlocked	Unrestricted	Not Required	Enabled

Figure 30 – Facility Management – Rows – Change Status Example

A 'pop-up' window displays, and the user must enter a reason for changing the status of the row. Once the reason has been entered, click on 'Submit' to finalize the request.

Reason

Please provide a reason for Row restricting.

Reason

Please provide a reason for Row locking.

Reason

Please provide a reason for Row clear required.

Reason

Submit Close

Figure 31 - Facility Management – Rows – Reason for Change in Status Example

7.3 Positions

Positions and their status can be viewed through the ‘Positions’ screen. A position is a location within a row and a footprint that may be occupied by a single coil. A user can look up information by a specific position, filter by row, bunk number, bay, or status. By selecting a status under columns ‘Locked’, ‘Restricted’ or ‘Clear Required’ the user can restrict, lock, or mark a position as clear required.

The ‘Enabled’ field is not accessible to Operations as changing its status to disabled can only be done by CareGo as it is meant to be a semi-permanent status. Disabling of positions might be done if there was a roof leak and coils should not be stored there.

Positions

Filter By: Bay : All Storage Area Type : All Locked : All Restricted : All Clear Required : All Enabled : All

Row: Row Position: Position

Search Save All

Location	Coil ID	Comments	Locked	Restricted	Clear Required	Enabled
1:001:1:1	100000026		Unlocked	Unrestricted	Not Required	Enabled
1:001:2:1	100000018		Unlocked	Unrestricted	Not Required	Enabled
1:001:2:2			Unlocked	Unrestricted	Not Required	Enabled
1:001:3:1	100000028		Unlocked	Unrestricted	Not Required	Enabled

Figure 32 - Facility Management – Positions Example

To change the status of a position, click (a) the appropriate choice and the button will change from green to yellow and the verbiage displayed will reflect the status for the position after the ‘Save All’ (b) button has been selected.

Positions

Filter By: Bay : All ▼ Storage Area Type : All ▼ Locked : All ▼ Restricted : All ▼ Clear Required : All ▼ Enabled : All ▼

Row: Row Position: Position

Search **Save All** **b**

Location	Coil ID	Comments	Locked	Restricted	Clear Required	Enabled
1.001:1:1	1000000026		Unlocked	Unrestricted	Required	Enabled
1.001:2:1	1000000018		Unlocked	Restricted	Not Required	Enabled
1.001:2:2			Locked	Unrestricted	Not Required	Enabled
1.001:3:1	1000000028		Unlocked	Unrestricted	Not Required	Enabled

Figure 33 - Facility Management - Positions - Change Status Example

A 'pop-up' window displays, and the user must enter a reason for changing the status of the position. Once the reason has been entered, click on 'Submit' to finalize the request.

Reason

Please provide a reason for position restricting.

Reason

Please provide a reason for position locking.

Reason

Please provide a reason for position clear required.

Reason

Submit Close

Figure 34 - Facility Management - Positions - Reasons for Change in Status Example

7.4 Cradles

As with the 'Rows' and the 'Positions' sub-menus, cradle status can be viewed and changed in the 'Cradles' sub-menu. A user can look up a specific cradle, filter by bay, storage area, or by status. By selecting a status under columns 'Locked' or 'Restricted' the user can change its state.

'Enable' is a status that can only be changed by CareGo as it is meant to be semi-permanent.

Follow the same procedure to change the status of a cradle as was followed in 'Rows' and 'Positions'. Choose (a) the status to change, 'Save All' (b), enter the reason for the status change and 'Submit'. The status button will now change to red and the reason for the status change will display in the comments field.

Cradles

Cradle: Cradle All Warehouses All Storage Area Types Locked Filter: All Restricted Filter: All Enabled Filter: All Search b Save All

Name	Length	Width	Coil ID	Comments	Locked	Restricted	Enabled
CD01	76	55			🔒 Locked	✔ Not Restricted	✔ Enabled
CD02	76	55			🔒 Unlocked	⛔ Restricted	✔ Enabled
CDL01	76	55			🔒 Unlocked	✔ Not Restricted	✔ Enabled
CDL02	76	55			🔒 Unlocked	✔ Not Restricted	✔ Enabled
DC01	76	55			🔒 Unlocked	✔ Not Restricted	✔ Enabled
DC02	76	55			🔒 Unlocked	✔ Not Restricted	✔ Enabled
DC03	76	55			🔒 Unlocked	✔ Not Restricted	✔ Enabled
DC04	76	55		Reason for restricting cradle	🔒 Unlocked	⛔ Restricted	✔ Enabled
DC05	76	55		Reason for locking cradle	🔒 Locked	✔ Not Restricted	✔ Enabled

Figure 35 - Facility Management – Cradles Example

7.5 Remove Coil

Access to this function is limited to those with administrative rights. This function is used to remove a coil from the TELIA map and can only be done in conjunction with the coil being physically removed from TELIA control using a crane in manual mode. Before accessing this function, refer to the standard operating procedures outlined by TELIA (**SOP - Manually Removing a TELIA Controlled Coil**). This SOP gives step-by-step instructions on how to successfully remove a coil from TELIA.

Remove Coil

Coil ID: 100000448 Search

Remove Coil
Coil ID: 100000448 Location: 3010111

Delete

Remove Coil Reason

Please provide a reason for deleting Coil ID 964816900

Reason:

Submit Cancel

ERROR

You cannot delete this Coil. It has Coils on top of it.

OK

Figure 36 - Facility Management - Remove Coil Example

CAUTION: Deleting the wrong coil from the TELIA map may cause injury and/or damage product and/or lifting device. Follow the SOPs to ensure the map is accurate.

7.6 Requests

Priorities will be controlled through Operations internal systems (e.g., ERP, SAP). Alternatively, priorities can be made through the 'Requests' sub-menu of 'Facility Management' on the Dashboard.

The 'Requests' view allows users to see and manage all requests submitted to TELIA. Requests are submitted to TELIA via Operations internal systems, and the fields returned for each request are as follows:

- Global / Local Priority
- Sequence #
- Order ID / Coil ID
- Current Location/ Request Destination/ Current Job Destination
- Created Date Time
- Request Status
- Urgent
- Delete

The default for this screen show requests that are either 'Created' or 'In Progress'. However, a user can filter which request types to view by choosing the type from the dropdown menu. Once your choice has been made, press 'Search' to return the applicable information. The display will show the requests in the order in which they will be processed.

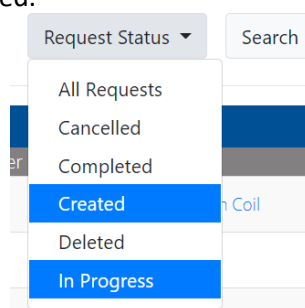


Figure 37 – Facility Management – Requests - Search/Filter Example

7.6.1 Global / Local Priority

A 'Global Priority' is the ultimate destination of the request, and a 'Local Priority' is a stop along the way to the ultimate destination. For example, there is a coil that has a request to move to the processing line entry cradle, but the coil is physically in a bay that does not have access to that entry point. TELIA will create a job to send the coil to a transfer car (local priority) with the final destination of the process entry line (global priority).

The 'Global Priority' will only be accessible when a request is flagged as 'Urgent' (section 0).

The 'Local Priority' column is a user-configurable field that dictates the priority of a request within TELIA. Although TELIA manages request priority based on Operations business requirements, this field gives the user, via the Dashboard or through the internal system, the ability to override a system priority.

Requests with Local Priority 1 are the highest priority jobs (apart from Urgent jobs - Section 0), while requests with Local Priority 99 are the lowest priority jobs. If a request is not assigned a local priority via the Dashboard or through the internal system, the default value will be 99.

Request

Global Priority	Local Priority	Sequence #	Order ID	Coil ID	Current Location	Request Destination	Current Job Destination	Created Date Time	Request Status	Urgent	Delete
	97	0	1	Coil 4	1:003:34:1	CPL Entry		8/19/2019 11:39:43 AM	In Progress	<input type="checkbox"/>	
		0		Coil 18	DC17	Storage Bay 1		8/7/2019 10:57:45 AM	In Progress	<input type="checkbox"/>	
		0		Coil 13		Storage Bay 1		8/2/2019 3:51:48 PM	In Progress	<input type="checkbox"/>	
		0		Coil 40	MCLX01	Storage Bay 1		8/19/2019 1:38:43 PM	Created	<input type="checkbox"/>	Delete
		2	2	Coil 43	ES001	CPL Entry		8/19/2019 1:39:33 PM	Created	<input type="checkbox"/>	Delete
		1	2	Coil 44	ES002	CPL Entry		8/19/2019 4:52:21 PM	Created	<input type="checkbox"/>	Delete

Figure 38 - Facility Management – Requests Example

Urgent requests aside, all requests will be executed by TELIA in numerical order (local priority 1, 2, 3, 4...99). If there are requests that have the same local priority values (i.e., default #99), the jobs will then be executed in order of created date and time.

It is important to note that the local priority can only be changed before a request enters the 'In Progress' status, and if the local priority is changed for any coil on an order, all coils on that order will be updated to the same local priority.

7.6.2 Sequence

The 'Sequence #' allows a user, through the Dashboard or the internal system, to prioritize coils within a single order.

For example, Order ID 2 in Figure 38 has two requests to deliver coils to the Process Line Entry. If the 'Sequence #' was left blank for these requests, TELIA would deliver the coils by ease of access (coils most accessible to the crane). However, since Coil 44 has a sequence number of 1 and Coil 43 has a sequence number of 2, TELIA will deliver Coil 44 to the Process Line Entry first, followed by Coil 43, regardless of ease of access.

If the 'Sequence #' field is left blank, TELIA will deliver coils by ease of access.

7.6.3 Order ID / Coil ID

The 'Order ID' is the ID of the Order to which the coil belongs to. The order ID is assigned by the internal system but not all coils belong to an order and therefore the Order ID could be blank.

7.6.4 Current Location / Request Destination / Current Job Destination

The current location is the present location of the coil. As the coil moves from source location, to crane, to destination location, this field will update when the page is refreshed.

The request destination is the destination that was requested for the coil when it was created. Although the coil may be rerouted to an alternate destination if the destination conditions are not met, the 'Request Destination' will not change. This alternate destination would be the 'Current Job Destination'

For example, a coil in storage had a requested destination of a process line entry point. This entry point may be temporarily unavailable (cradle is occupied or inaccessible), the coil may be placed in a temporary pre-stage area. When the coil is placed in this temporary location (current job location), the request is still open, and a request is only considered completed when the coil is delivered to the request destination.

7.6.5 Created Date Time

The created date time is the date and time at which a request has been received by TELIA.

7.6.6 Request Status

All requests in TELIA will have one of the following statuses:

Cancelled - Requests with the status cancelled have been deleted internally by TELIA.

Completed - Requests that are completed indicate that the coil has been delivered to the request's destination.

Created - Created requests are requests submitted to TELIA via Operations internal system. Requests with status created have not yet been started by TELIA.

Deleted - Requests with the status deleted are requests that have been deleted by a user via the Dashboard.

In Progress – In progress requests are requests that have been started by TELIA but have not been fully executed yet. TELIA considers a request fully executed when the coil has been delivered to the request's destination.

7.6.7 Urgent

The urgent status allows a user to prioritize a request within TELIA. When a request is made urgent, it will be prioritized over all other non-urgent requests within TELIA, including local priority 1 requests.

To make a request urgent:

- The request must have a 'Created' status (a)
- Select the **green** 'No' button in the 'Urgent' column, this action will turn the button **yellow**.
- Select 'Save All' (b) to confirm the change and the button will turn **black**.
- Once saved, the Global Priority column will populate giving the user the ability to change priorities between all 'Urgent' requests.

As a default all global priorities for an urgent request are set at #9999, and like the steps outlined in section 7.6.1 users can change the priority of delivery within the urgent coils. If the user wanted to prioritize one urgent request over the other, the global priority number would have to change to something smaller than 9999 (i.e., 1 or 2).

Request Management

The screenshot shows the 'Request Management' interface. At the top, there are filters for 'Coil ID', 'All Warehouses', 'Request Status', and a 'Search' button. On the right, there is a 'Save All' button circled in red with a red 'b' next to it. Below the filters is a table titled 'Requests' with the following columns: Global Priority, Local Priority, Sequence #, Order ID, Coil ID, Current Location, Request Destination, Current Job Destination, Created Date Time, Request Status, Urgent, and Delete. The table contains two rows of data. The first row has a Global Priority of 9999, Local Priority of 0, Sequence # of 0, Order ID of Coil 40, Current Location of MCLU01, Request Destination of Storage Bay 1, Current Job Destination of Storage Bay 1, Created Date Time of 8/19/2019 1:38:43 PM, Request Status of Created, and a red 'a' in the Urgent column. The second row has a Global Priority of 9999, Local Priority of 0, Sequence # of 0, Order ID of Coil 41, Current Location of WSC01, Request Destination of Storage Bay 1, Current Job Destination of Storage Bay 1, Created Date Time of 8/19/2019 1:39:04 PM, Request Status of Created, and a green 'x No' in the Urgent column. Both rows have a red 'Delete' button in the Delete column.

Figure 39 - Facility Management - Request – Urgent Example

7.6.8 Delete

The 'Delete' button allows a user to delete a request. A request may be deleted at any point before the Request Status (Section 7.6.6) becomes 'In Progress'. Once deleted, the request will not be executed by TELIA.

Please note that all deleted requests must be confirmed via the pop-up dialogue box.

The screenshot shows a 'Warning' pop-up dialog box. The title bar is blue with the word 'Warning' in white. The main text area is white and contains the message: 'Are you sure you want to delete this request with (CoilId:Coil 40)'. At the bottom, there are two buttons: 'Cancel' and 'Continue'.

Figure 40 - Facility Management - Requests - Confirm Delete Example

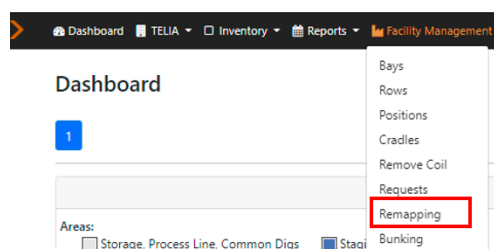
7.7 Remapping

Remapping is the action of creating or modifying TELIA's automation map. Remapping allows users to create, modify, and delete rows and positions to adapt to a facility's changes in product mix.

For the remapping functions the procedure remains the same.

- Restrict the row to re-map
- Make the changes
- Save the changes
- Un-restrict the row
- Make sure there are no resources in the Bay in "Bunking Mode"

The remapping function can be found under the 'Facility Management' tab on the Dashboard.



Once 'Remapping' has been chosen, you have the option of adding, deleting, or remapping a row or changing the stacking method.

Remapping

Remapping	
Options	What would you like to do? Select one of the options on the left.
Add New Row	
Delete Row	
Remap Row	
Update Stacking Method Type	
Procedure	
<ul style="list-style-type: none"> • Restrict the row to re-map • Make the changes • Submit the changes • Unrestrict the row 	

Figure 41 - Facility Management – Remapping Example

This is a 'High Level' description, for detailed instructions refer to the 'Remapping User Guide'.

7.8 Bunking

Bunking is the physical action of using the crane to show a laser point on the floor where the centre of a Bunk or Chocks should be placed.

For detailed instructions follow the 'SOP – Bunking in Automation Mode' .

8. Administration

Only those that have Level 4 rights can access the 'Administration' menu. Once logged in (Section 2) the Administrator will have the ability to add, delete or configure; 'Users', 'Roles' and 'Groups'.

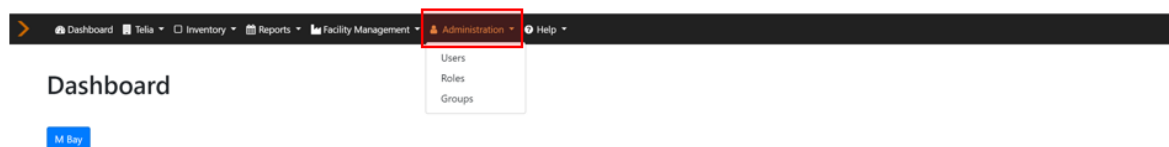


Figure 42 - Administration Menu Example

8.1 Users

The 'Users' screen allows those with Level 4 access (Administrators) to have access to all the user accounts that have been created for the dashboard, their status, the ability to lock/unlock, change password or set level of access.

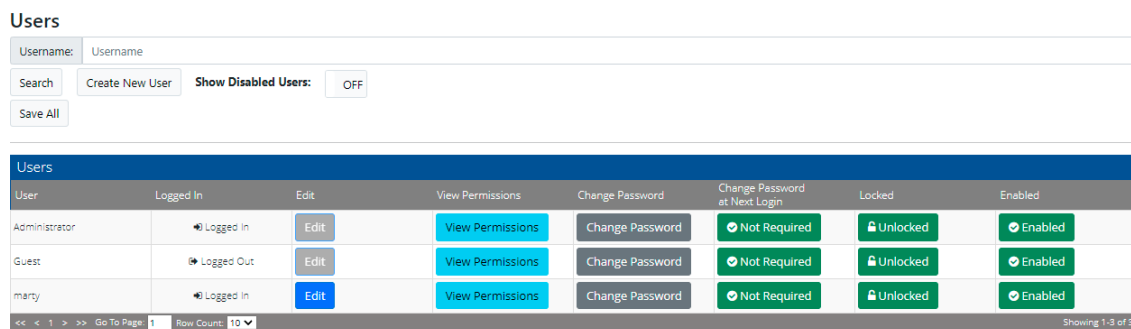


Figure 43 - Administration – Users Example

The administrator can also create a new user account, by selecting Create New User.

Once all required fields have been populated, the Administrator clicks on the 'Register' button to complete the registration.

CAREGO
the innovators

Registration Form

User name

Password

Confirm password

REGISTER

[Cancel](#)

Figure 44 - Administration - Create New User Example

8.2 Roles

The 'Roles' screen gives the administrator the ability to view the permissions for each of the roles. Roles: Level 1, Level 2, Level 3, and Level 4 have been created by CareGo and are to be assigned to 'Groups' by those with administrative rights. Level 1 has the least permissions in that the users with this level of permissions can only view information on the Dashboard. Administrators, Level 4, have permission to create, delete and modify all fields that are not restricted to CareGo only Administrators. For a complete list of permissions by level, refer to Section 10 Appendix A.

8.3 Groups

The 'Groups' screen allows the administrator to assign many users to a group. That helps the administrator set up and configure many user accounts at the same time instead of applying changes to each user individually.

Groups

Groups				
Name	Edit	View Permissions	Add Users	Delete
Administrators	Edit	View Permissions	Add users	Delete
Level 1	Edit	View Permissions	Add users	Delete
Level 2	Edit	View Permissions	Add users	Delete
Level 3	Edit	View Permissions	Add users	Delete

<< < 1 > >> Go To Page: Row Count: 10 Showing 1-4 of 4

Figure 45 - Administration - User Groups Example

9. Help

The 'Help' menu provides access to the TELIA 'Glossary', 'Release Notes' and information on how to 'Contact Us'. As well as 'SOPs' and 'Frequently Asked Questions'. Figure 46 is a visual example only as this page's content will be updated frequently.

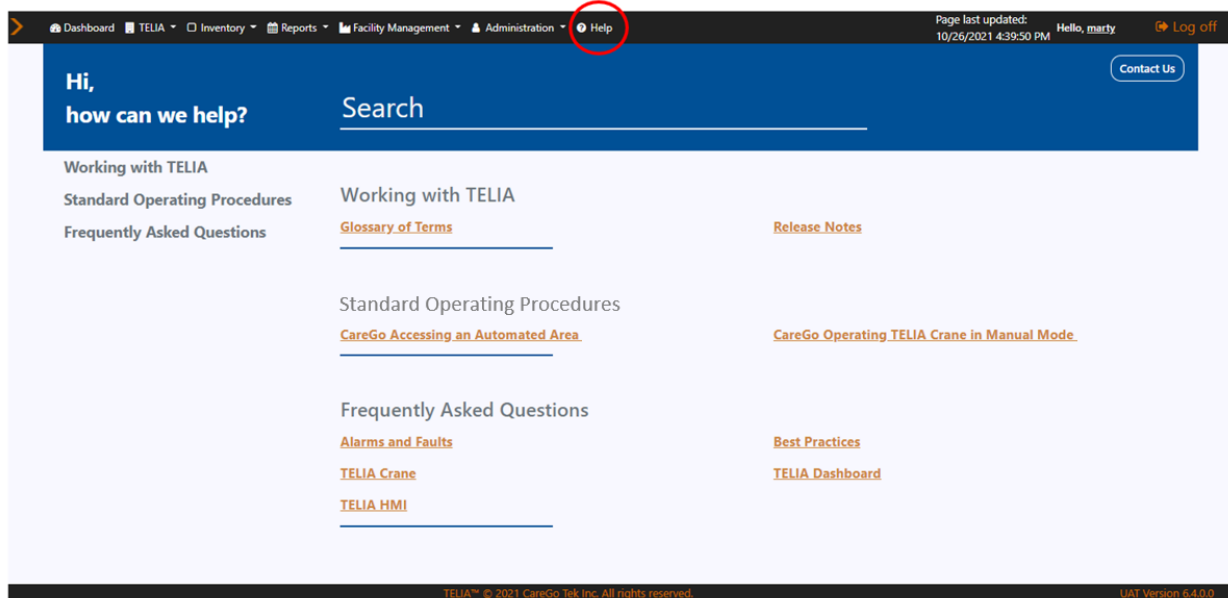


Figure 46 - Help Menu Example

9.1 Contact Us

CareGo Tek's Support operates 24/7, all year round.

For any issues that require **immediate** assistance please call our Support Line at **1.888.813.0911**.

During business hours for any non-immediate issues, concerns, questions, suggestions, please send an email to: Auto_Support@carego.com.

This is a group email and ensures that your concerns will be seen and addressed.

Please note that our Support Line (**1.888.813.0911**) should be used for all issues during After Hours and Holidays (Monday to Friday from 5pm – 9am and Saturday/Sunday/Holidays), as during these times our emails are not monitored on a constant basis.

Please call our Support line and refrain from calling individual phones as Support is manned on a rotational basis.

When calling the support line please leave a Voice Mail stating;

- Your name
- Your Company name and location
- A phone number at which you can be reached
- A brief description of the issue

One of our Support personnel, who are on rotation, will be calling you back to assist with your problem. From the moment we receive your Support call, we start the process of accessing your system in order to have a clearer picture of the issue and then we call you back to discuss. You can therefore expect a call back as soon as we connect to your facility. When possible, please follow up with an e-mail to Auto_Support@carego.com with HMI / Dashboard screen shots (pictures, videos) or any other details that may be useful to help CareGo's support team assess the issue.

CareGo Support utilizes a tracking system for all support issues whether initiated through an email or through our support line.

A ticket in the form CGT-9999 is created and is used to log all exchanges, investigation/findings, and the resolution of each issue.

Thank you for helping us, help you!

10. Appendix A

DASHBOARD ACCESS - COIL PROJECTS						
Dashboard Item	Description	Level 4	Level 3	Level 2	Level 1	
View Dashboard	Allows the Dashboard page to be displayed, and allows multiple analytics to be shown on the same page.	X	X	X	X	
View Telia Resource View	Allows an overview of all resources in the warehouses to be displayed, and allows search by resource.	X	X	X	X	
View Inventory	Allows an overview of all inventory item in the warehouse and showing details of individual items.	X	X	X	X	
View Reports Orders Report	Allows an overview of all orders between two times to be displayed categorized by their destination.	X	X	X	X	
View Reports Sbms Job Report	Allows an overview of all SBMS jobs to be displayed and allows search by job details.	X	X	X	X	
View Reports Footprint Report	Allows an overview of the footprints to be reported and allows search by footprint details.	X	X	X	X	
View Facility Management Bays	Allows an overview of all bays.	X	X	X		
Modify Facility Management Bays	Allows a user to enable/disable a bay.	X				
Modify Facility Management Bay Restrict	Allows restricting a bay.	X				
Modify Facility Management Bay Lock	Allows locking a bay.	X				
Modify Facility Management Bay Stacking Method	Modify Facility Management Stacking Method	X				
View Facility Management Racks/Rows	Allows an overview of all racks/rows.	X	X	X		
Modify Facility Management Racks/Rows	Allows a rack to be locked or unlocked.	X	X			
View Facility Management Positions	Allows an overview of all positions in the warehouse.	X	X	X		
Modify Facility Management Positions	Allows changing a positions status.	X	X			
View Facility Management Cradles	Allows viewing details about all cradles in the warehouse.	X	X	X		
Modify Facility Management Cradles	Allows a cradle to be locked or unlocked.	X	X			
View Facility Management Remove Item	Allows to view the Remove Item view	X	X			
Delete Facility Management Remove Item	Allows a user to delete an item from the database.	X	X			
View Facility Management Requests	Allows an overview of all requests in the database to be displayed and allows search.	X	X	X		
Modify Facility Management Requests	Allows a request to be set to or unset from urgent and updates the database.	X	X	X		
Delete Facility Management Requests	Allows a request to be deleted and updates the database.	X	X	X		
View Facility Management Resource Roles	Allows viewing the management page for resource roles	X	X			
Edit Facility Management Resource Roles	Allows editing resource roles	X	X			
View Administration Users	Allows an overview of all users who are registered in the Telia Dashboard. Can view status and permissions for each user.	X				
Modify Administration Users	Allows manipulation of the user account. Can lock, disable, change password and assign roles/groups.	X				
View Administration Roles	Allows an overview of all available roles and the permissions they are associated with.	X				
Modify Administration Roles	Allows the creation of new roles, editing and deleting existing roles.	X				
View Administration Groups	Allows an overview of all available groups and the permissions they are associated with.	X				
Modify Administration Groups	Allows the creation of new groups, editing and deleting existing groups.	X				
View Help Release Notes	Allows the release notes page to be displayed.	X	X	X	X	
View Help Contact Us	Allows the contact us page to be displayed.	X	X	X	X	
View Help Glossary	Allows the Glossary page to be displayed.	X	X	X	X	