

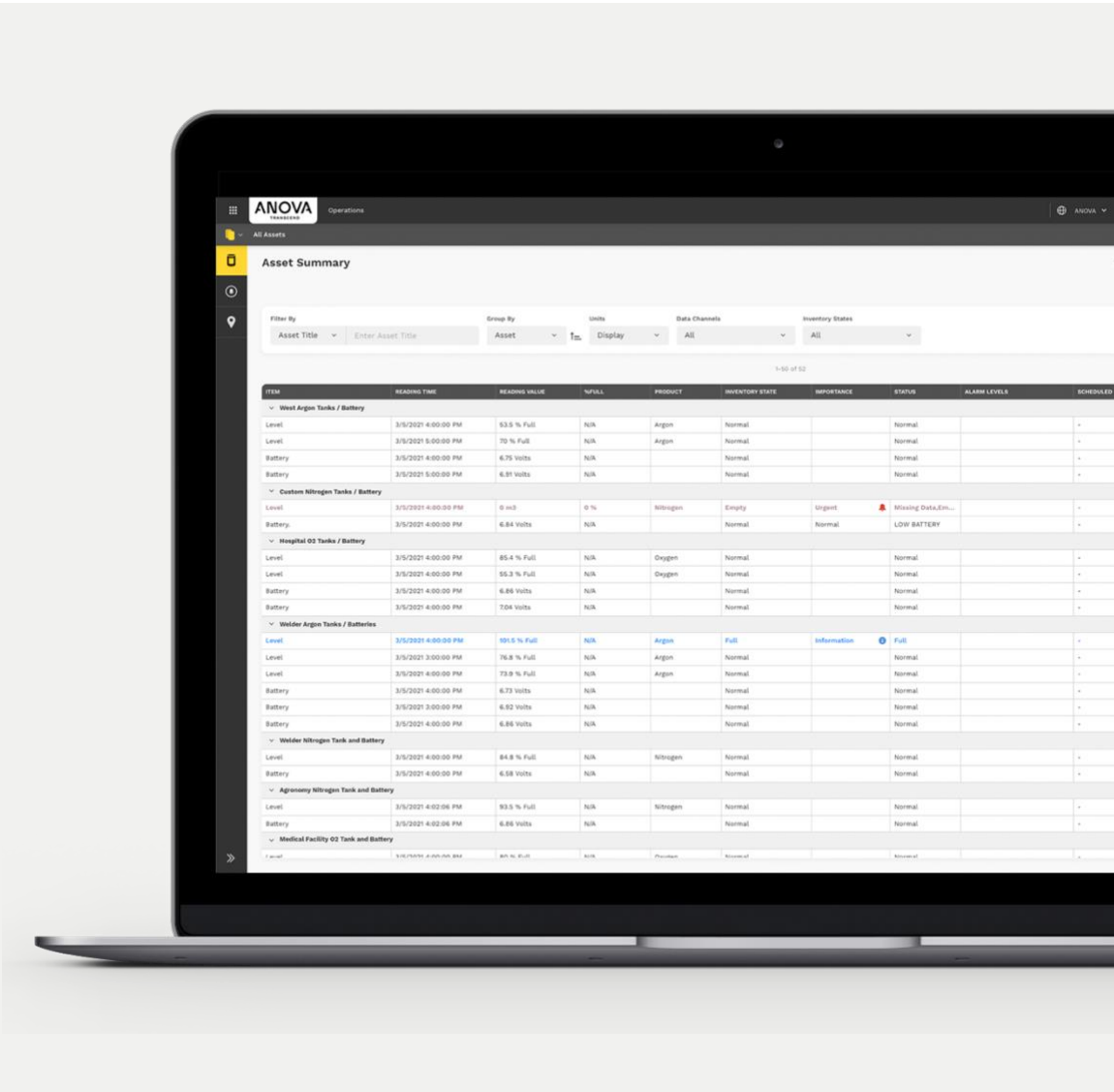
ANOVA

ANOVA TRANSCEND™

GENERAL USER GUIDE

ABSTRACT:

This document provides users a general introduction on how to use Anova Transcend.



ANOVA

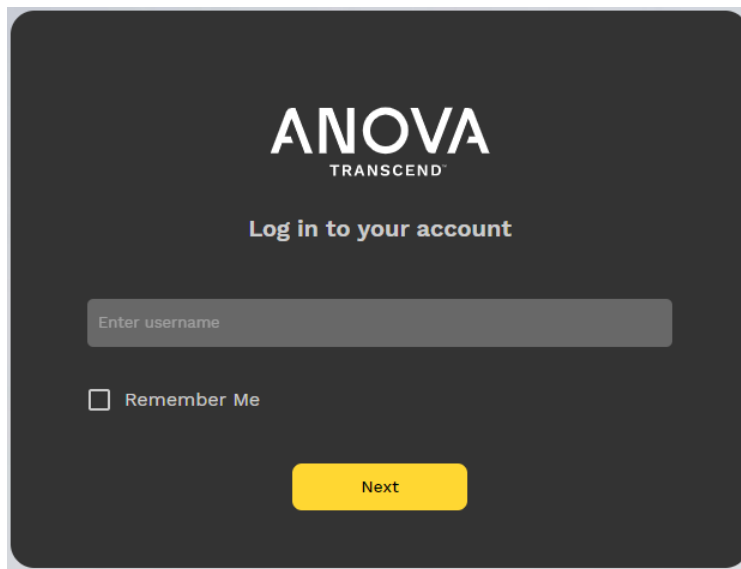
INDEX

- Login.....3
 - General Navigation.....4
 - Vertical Menu Bar.....5
- Asset Summary.....6
 - Filter.....7
 - Asset Selector8
 - Favorites10
 - Download10
 - Other Action Buttons.....11
- Asset Details.....12
 - Asset Information12
 - Data Channels14
 - Data Source.....15
 - Active Events16
 - Event Profile16
 - Watchlist.....17
 - Events Tab18
 - Readings Tab.....19
 - Forecast Tab20
 - Map Tab.....20
- Events.....21
- Schedule23
- Map.....24

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LOGIN

1. Navigate to <https://transcend.anova.com/>
2. Enter your Username (same as your DOLV3 username, as provided by Anova. This is **not your email address**)
3. Click Next
4. Enter your Password (provided by Anova)



ANOVA
TRANSCEND

Log in to your account

Enter username

☐ Remember Me

Next

Supported browsers:

- Google Chrome
- Firefox
- Safari
- Microsoft Edge (2020+ versions)

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GENERAL NAVIGATION



1. Start Menu

Provides access to different applications within Anova Transcend (e.g. Operations, Administration, Training Hub, etc.).

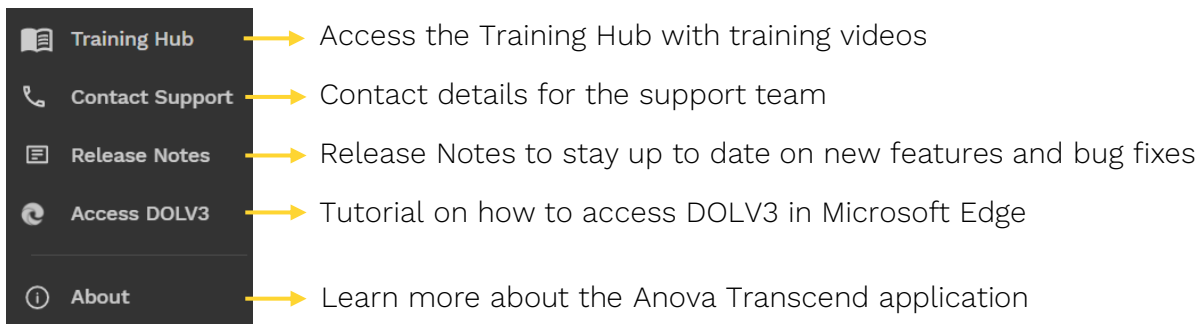
2. Domain Selector

Use to switch to another domain.

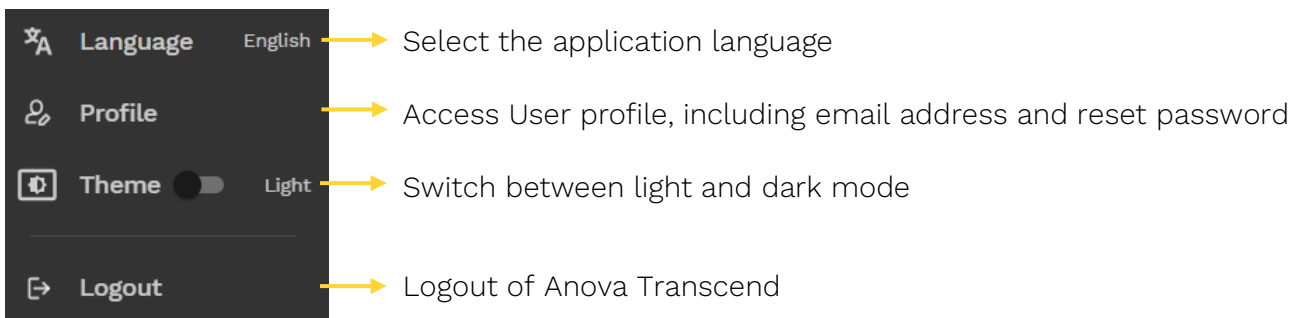
3. Time Zone Selector

Select to which time zone the times should be converted. By default, the 'Local Time Zone' is selected, but specific time zone can be selected.

4. Help Menu



5. User Menu



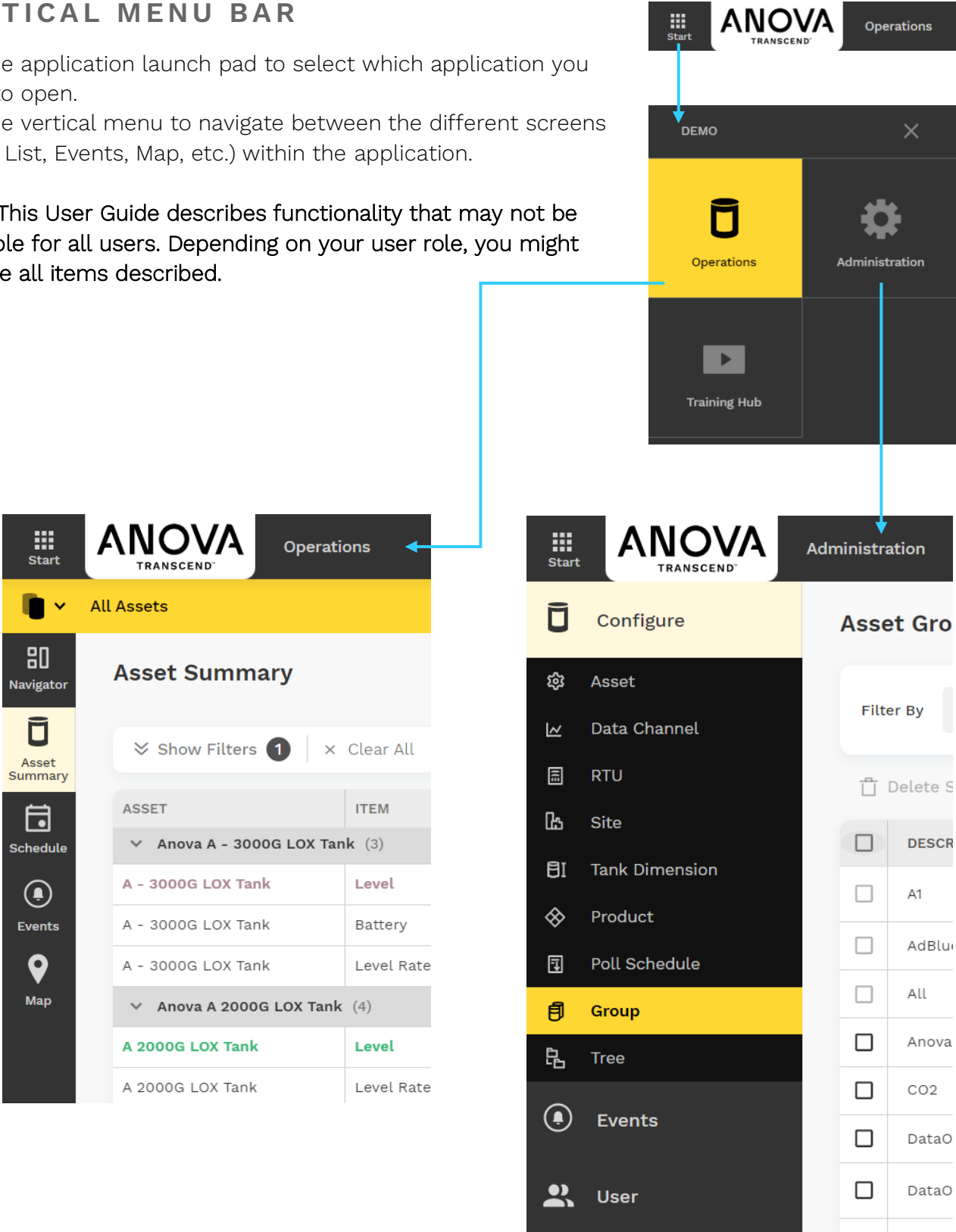
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VERTICAL MENU BAR

Use the application launch pad to select which application you want to open.

Use the vertical menu to navigate between the different screens (Asset List, Events, Map, etc.) within the application.

Note: This User Guide describes functionality that may not be available for all users. Depending on your user role, you might not see all items described.



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ASSET SUMMARY

The Asset Summary screen lists all assets and data channels available to the user.

The screenshot shows the ANOVA Asset Summary interface. Callout 1 points to the 'All Assets' dropdown in the top navigation bar. Callout 2 points to the filter controls, including 'Filter By', 'Group By', 'Units', 'Data Channels', and 'Inventory States'. Callout 3 points to the action buttons: 'Add Favourite', 'Refresh', and 'Download'. Callout 4 points to the data table, which lists assets and their associated data channels.

ASSET	ITEM	READING VALUE	%FULL	READING TIME	PRODUCT	RTU	CHANNEL NUMBER	
▼ Anova 2500G LOX Tank (3)								
2500G LOX Tank	Level	200 Ins WC	33.3 %	1/10/2021 5:55:47 PM	Oxygen	E1000519	1	H
2500G LOX Tank	Battery		N/A	-		E1000519	BATT_VOLTAGE	
2500G LOX Tank	Average Charge Current		N/A	-		E1000519	CHARGE_CURRENT	
▼ Anova 6000G LOX Tank (3)								
6000G LOX Tank	Level	3265 gal US	54 %	4/18/2022 12:00:00 AM	Oxygen	E1804243	1	N
6000G LOX Tank	Battery	2.19 Volts	N/A	4/18/2022 12:00:00 AM		E1804243	BATT_VOLTAGE	

1. Asset Selector

Focus on a (sub-)set of Assets.

2. Filter

Filter results.

3. Action Buttons

Add Favorite, Refresh, and Download.

4. Results Section

Lists all Assets and Data Channels based on the selected criteria.

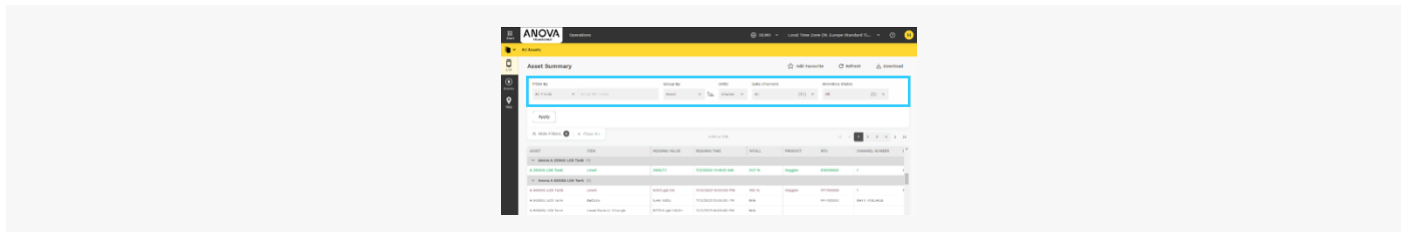
Click on any line of an Asset to open the Asset Details page.

The results can be navigated using the page control.

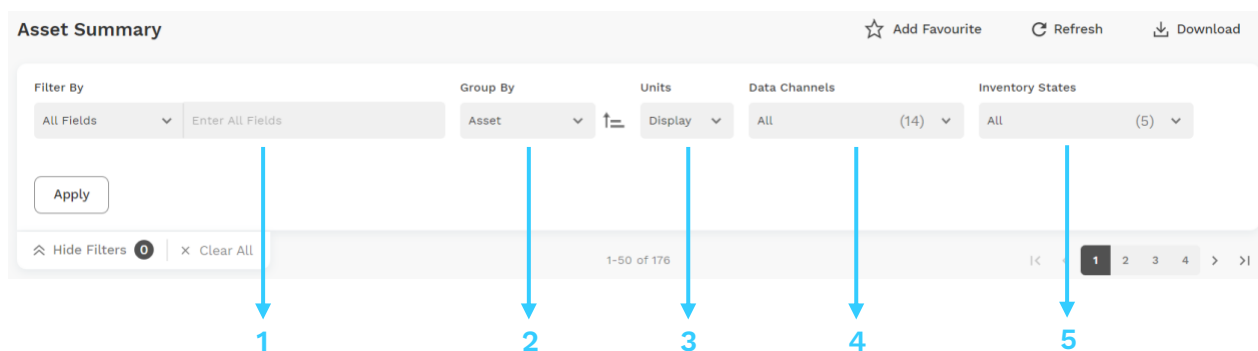


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FILTER



The list of Assets and Data Channels can be filtered and grouped by using the filter bar.



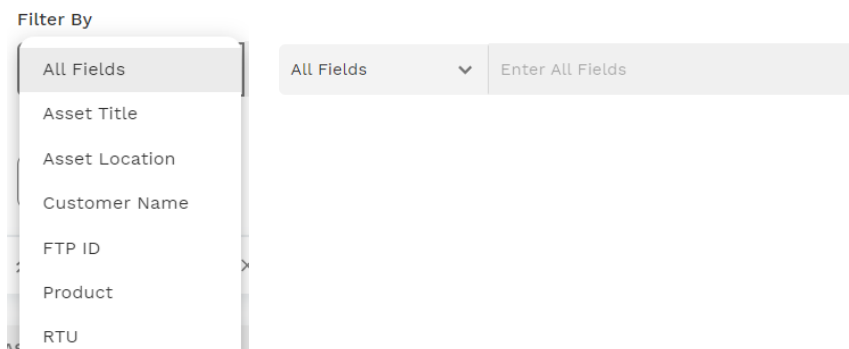
1. Filter By

Use the 'Filter By' dropdown to select the field type you wish to filter on. The default option is 'All Fields', which should suffice for most searches. Then enter text in the search box and press 'apply'.

Note: there is no need to use the * character for wildcard searches. However, the * can still be added to specify where characters are missing.

Searching for 'an' will show all results *containing* 'an', such as 'Anova', 'tank', 'Manhattan' etc.

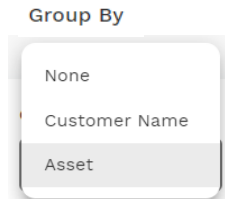
Searching for 'an*' will show all results *starting* with 'an', such as 'Anova', fields containing 'tank' or 'Manhattan' will not be shown.



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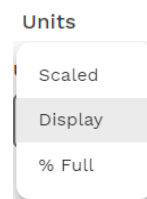
2. Group By

Use **Group By** to group Data Channels belonging to the same Asset or Customer together.



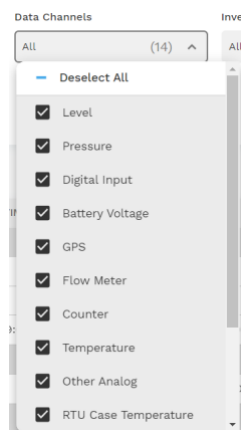
3. Units

Select in which **Units** the readings should be shown.



4. Data Channels

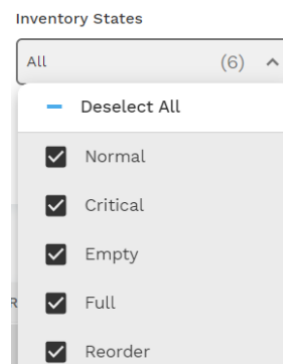
Filter which **Data Channel Types** should be shown.



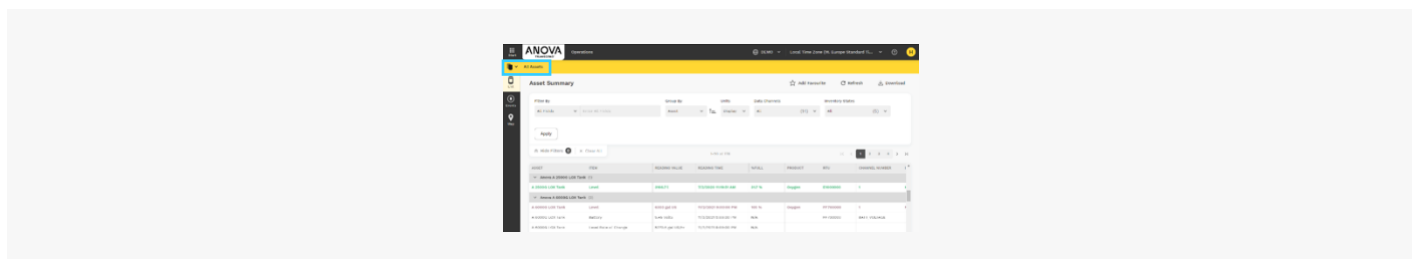
5. Inventory States

Filter which **Inventory States** should be shown.

Note: this automatically limits the view to Level Data Channels only.



ASSET SELECTOR

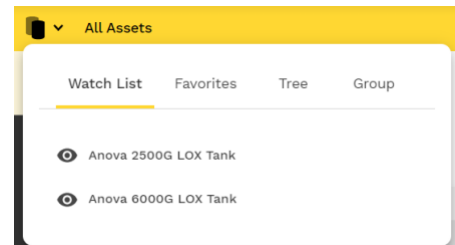


The Asset Selector allows Users to focus the Asset Summary (and other) pages on a predefined (sub-)set of Assets. Select one of the menu items (tabs):

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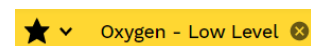
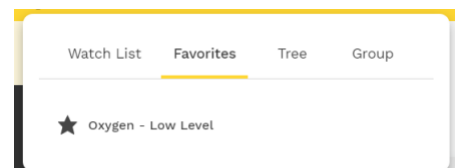
1. Watchlist

Click on any item to open the Asset Details page for that specific Asset (see section Asset Details - Watchlist).



2. Favorites

Click on any item to open the Asset Summary page. The page will be filtered, sorted, and limited to the Asset Group or Tree according to what was saved in the favorite (see section Favorites below).

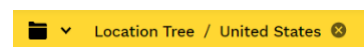
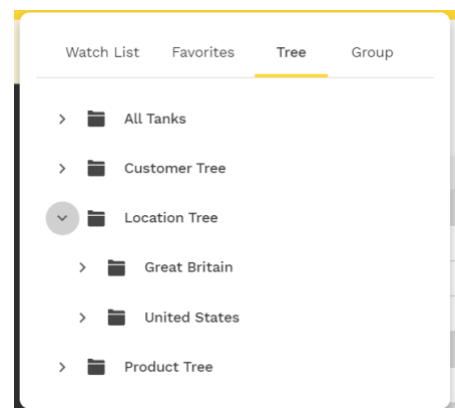


The Asset Selector shows the selected Favorite.

3. Tree

Click on any right arrow to expand the folder and drill down to the next level (e.g. Location > Country > State/Province > etc.).

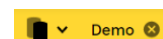
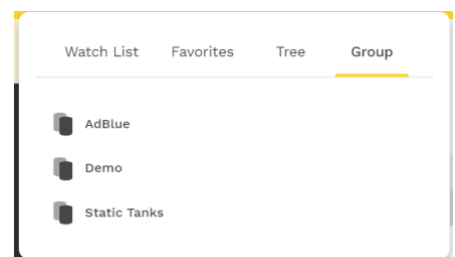
Click on the folder name to select that folder and open the Asset Summary page. The page will be limited to Assets within the selected Tree Node.



The Asset Selector shows the selected Tree Node.

4. Asset Group

Click on any item to open the Asset Summary page. The page will be limited to Assets within the selected Asset Group.

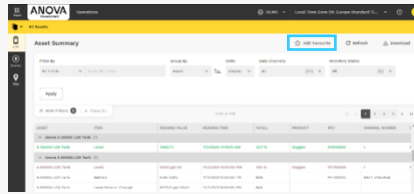



The Asset Selector shows the selected Asset Group.

The Asset Selector is the primary filter for the page. Any other filters set from the filter bar apply to the subset of data selected by the Asset Selector. The Asset Selector is permanent and applies to all data shown on any of the screens. To remove the filter, click on the (x) icon next to the Asset Selector.

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FAVORITES



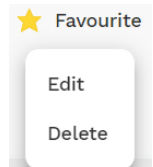
Users who frequently use a combination of filters (optionally combined with Asset Groups or Trees) can save these filters for quick access using Favorites. Favorites are saved from the asset summary screen by clicking the  **Add Favourite** button.

Give the favorite a display name. We recommend including the Asset Group or Tree name in case you filtered on these using the Asset Selector. Otherwise, you will not be able to see which Group or Tree your favorite is based on.

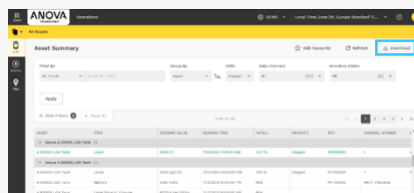
Optionally, you can set one of your favorites as the default view. When you login, the Asset Summary page will be filtered on this favorite instead of showing all Assets.


Your saved favorites are available from the Asset Selector (see section Asset Selector above).

When looking at a favorite, the icon changes from white to yellow. Click the favorite button to edit the description or delete the favorite.



DOWNLOAD

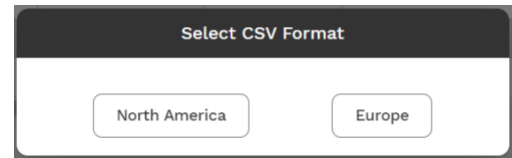


Nearly all tables in Anova Transcend can be exported using the  **Download** button.

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Anova Transcend supports 2 CSV formats:

- The North American format has a dot (.) as decimal separator and a comma (,) as the delimiter
- The European format has a comma (,) as decimal separator and a dot (.) as the delimiter

A screenshot of a 'Select CSV Format' dialog box. It has a dark header with the title 'Select CSV Format'. Below the header, there are two buttons: 'North America' and 'Europe'. The 'North America' button is highlighted with a light blue border and a light blue background, while the 'Europe' button has a white background and a light blue border.

OTHER ACTION BUTTONS

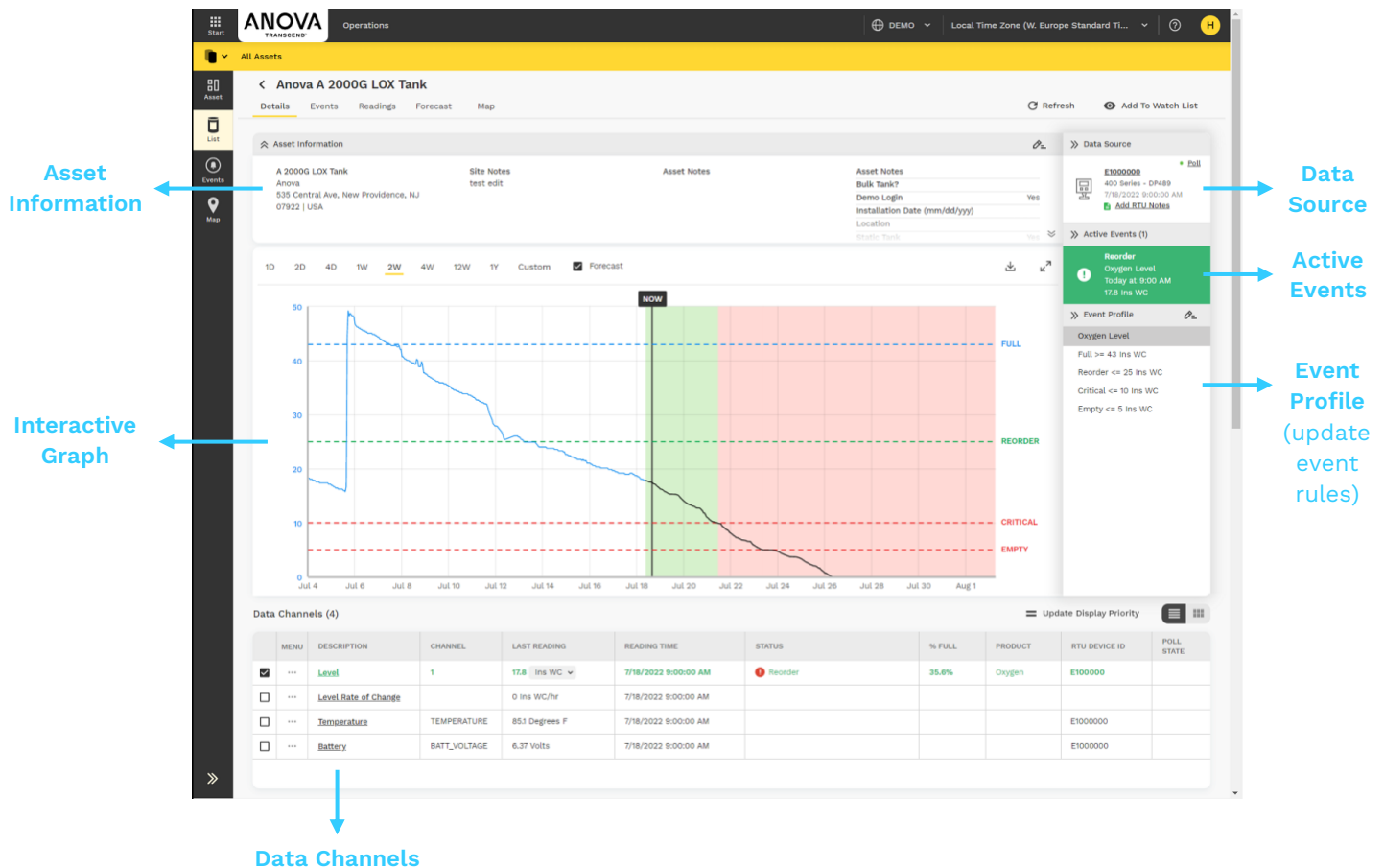
Refresh the screen

 Refresh

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ASSET DETAILS

The Asset Details page offers detailed information for one specific Asset.



ASSET INFORMATION

The Asset Information panel allows to view static information about the Asset. Click on the pencil icon to edit the information.

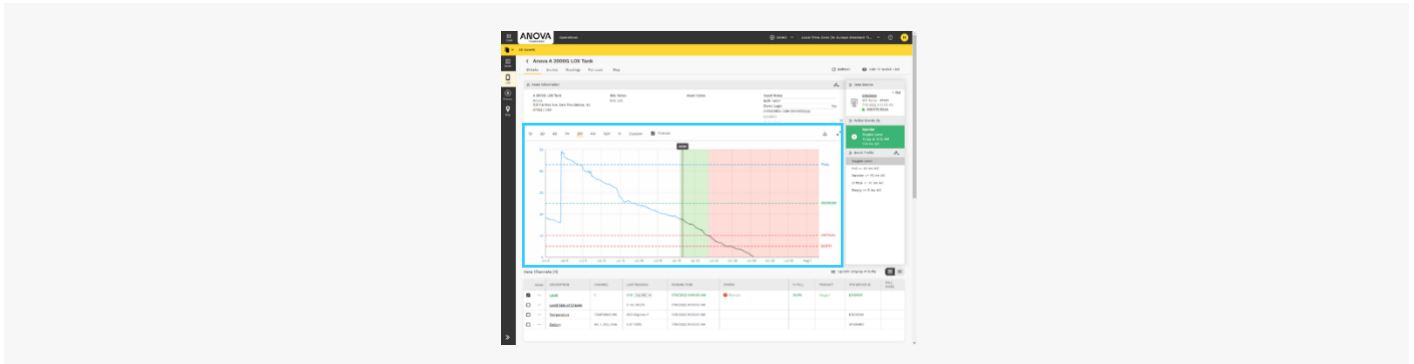
The screenshot displays the ANOVA Asset Information panel for '1500G LOX Tank'. The panel is divided into two main sections:

- Asset Information:** This section contains static information about the asset, including its name, location, and site notes.
- Asset Notes:** This section contains a list of asset notes, including the note text, the note type, and the note status.

A pencil icon is visible in the top right corner of the panel, indicating that the information can be edited.

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GRAPH

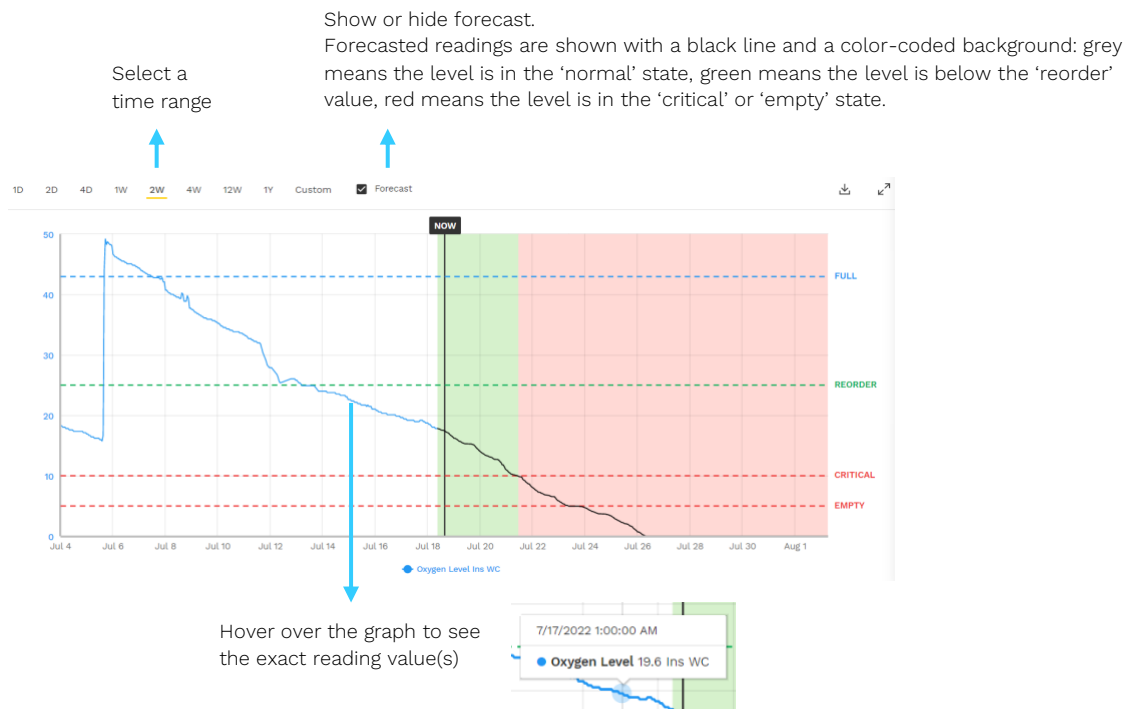


Select which data channels you wish to see on the graph by checking the 'graph' boxes in the table below the graph.

Data Channels (2)		
GRAPH		DESCRIPTION
<input checked="" type="checkbox"/>	***	Level
<input type="checkbox"/>	***	Battery

Oxygen Level Ins WC

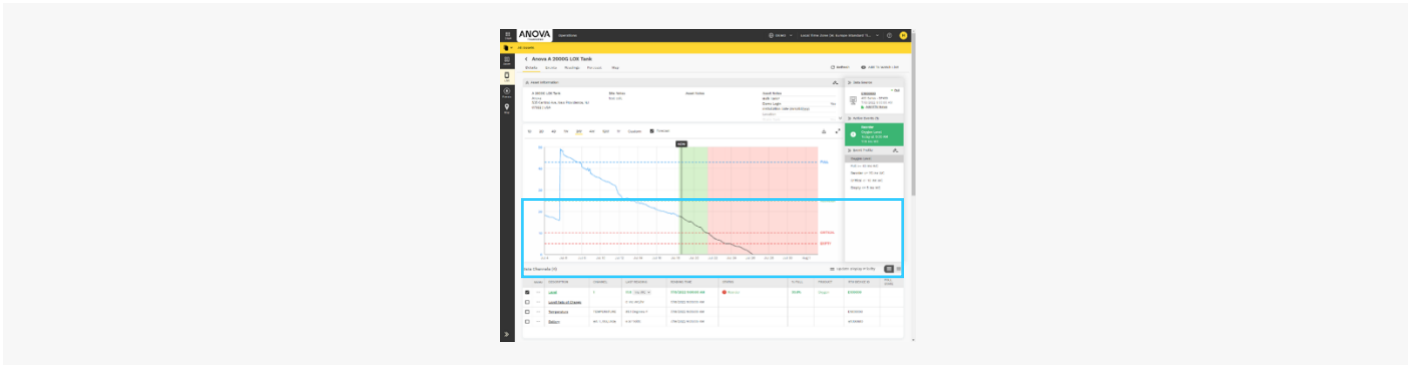
The graph legend will update showing which data channels are plotted in which color.



Note: when selecting long time ranges, Anova Transcend 'summarizes' the data to improve performance. An asterisk occurs for the data channels that are summarized.

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DATA CHANNELS



This panel shows all Data Channels attached to the asset. Note: not all data channels on one asset necessarily get input from the same RTU.

Select which data channels are shown on the graph

Click to open the data channel editor and update data channel configuration

Data Channels (2)										Update Display Priority
MENU	DESCRIPTION	CHANNEL	LAST READING	READING TIME	STATUS		% FULL	PRODUCT	RTU DEVICE ID	
<input checked="" type="checkbox"/>	Level	1	29.7 Ins WC	7/8/2022 9:00:00 PM	Reorder		58.8%	Oxygen	FF000000	
<input type="checkbox"/>	Battery	BATT_VOLTAGE	7.09 Volts	7/8/2022 9:00:00 PM					FF000000	

Clicking to open the following menu

Edit Data Channel

Update Display Priority

Manual Reading Entry

Opens the data channel editor to update the data channel configuration.
Allows you to change the order that the data channels are shown on the screen.
Allows you to enter a manual reading for the data channel.

Allows users to change the order in which the data channels are shown on the screen. Note that this order will apply to all pages.

Update Display Priority

Drag And Drop To Update Display Order:

Oxygen Level
1
FF000000

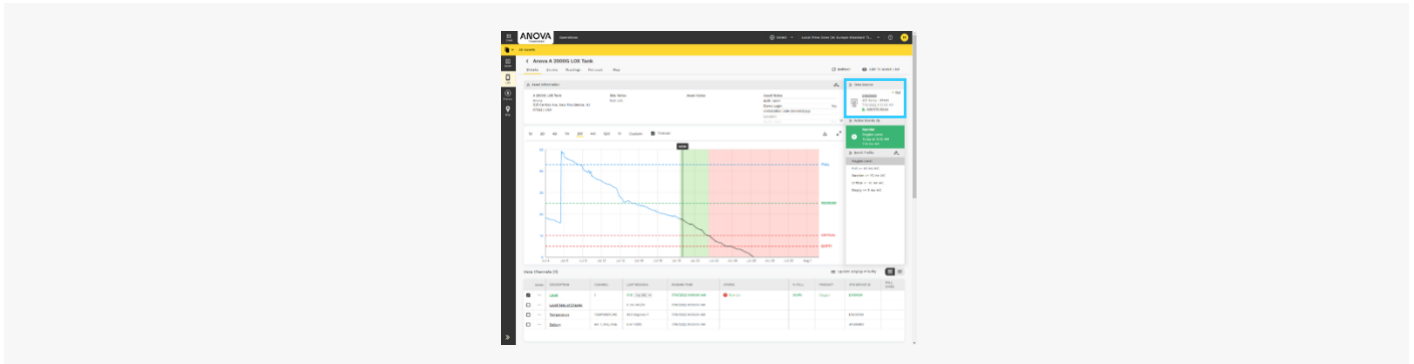
Battery
BATT_VOLTAGE
FF000000

Save

Cancel

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DATA SOURCE



The data source panel shows from which source(s) the Asset gets data. Typically, this includes the Device ID and RTU type, as well as a few options.

>> Data Source

E1000000

400 Series - DP489

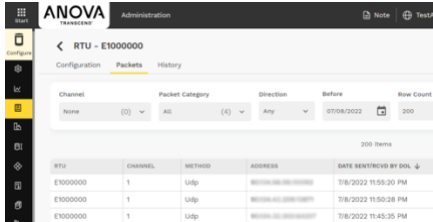
7/8/2022 10:45:00 AM

RTU Notes

Poll

Click on the Device ID to open the RTU editor. RTU parameters can be edited if you have sufficient security privileges.

The Call History or Packets tab on the RTU editor gives an overview of all communications for this device. Historic communications can be filtered by selecting a 'Before' date and pressing the apply button.



The poll icon indicates the poll status:


- **Poll** Device can be polled
- **Poll** Device is pollable, but currently cannot be polled. Possible reasons include:
 - the device has a low battery and polling is disabled to preserve battery
 - device configuration has not been set to polling
 - etc.

No icon: Device is not poll-capable.

Click on Poll to initiate a call to the device. It can take between 30 seconds and 50 minutes to receive the data, depending on how busy the outbound queue is and how much data has to be uploaded from the RTU.

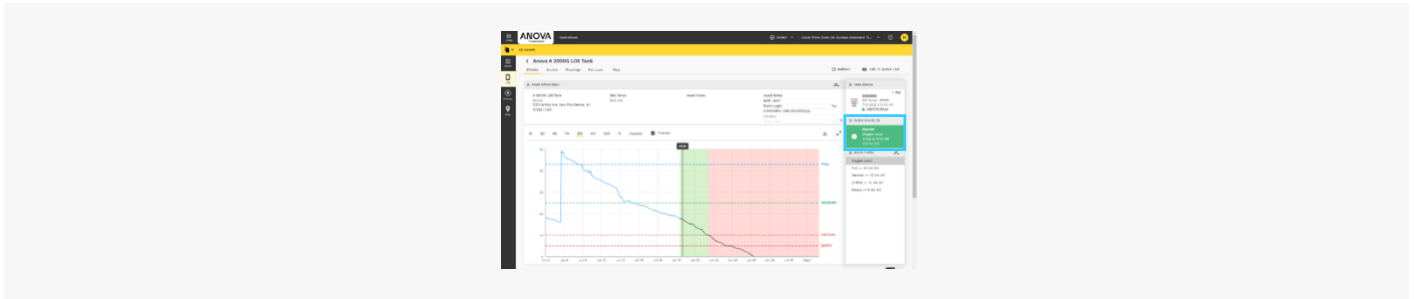
Note: The screen does not refresh automatically when the data is received. Manually press the refresh button to see any changes.

Click on RTU Notes to view and edit the RTU notes.

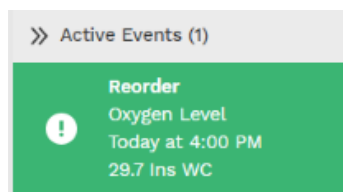


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ACTIVE EVENTS



The Active Events panel shows all active events relating to this asset.



Each event is color coded based on the:

1. inventory status (for level data channels using the predefined inventory states)

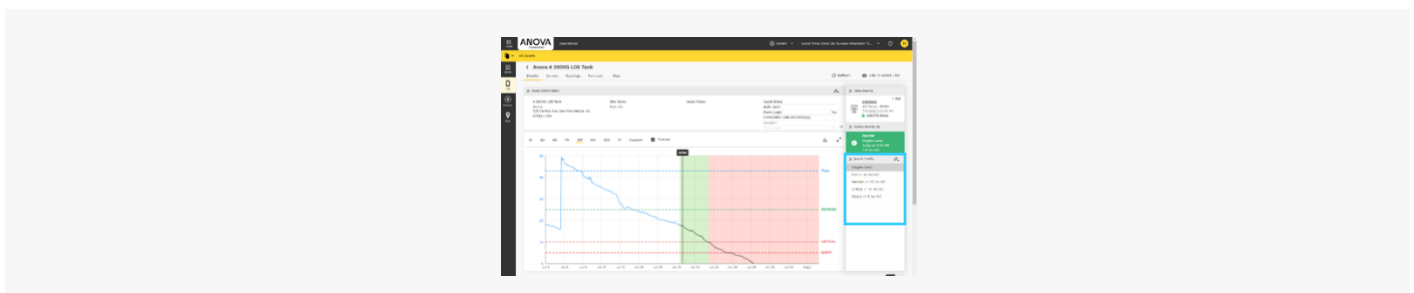
Full
Normal
Reorder
Critical
Empty

2. importance level (for all other data channels)

Normal
Information
Warning
High
Urgent

Click on any event to open the event details (see section Events).

EVENT PROFILE



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>> Event Profile

Oxygen Level


Full >= 60 Ins WC


Reorder <= 30 Ins WC

Critical <= 12 Ins WC

Empty <= 5 Ins WC

The Event Profile panel shows all event rules that are configured for each data channel that is linked to this asset.


Click on the  icon to edit the event rule values and assign rosters (distribution list for event notifications).

Events				Cancel	Save & Close
Oxygen Level					
	EVENT	EVENT VALUES		ROSTER(S)	
	Full	>= 60 Ins WC		None	
	Reorder	<= 30 Ins WC		None	
	Critical	<= 12 Ins WC		None	
	Empty	<= 5 Ins WC		None	

A green icon indicates that this event rule value is linked to a setpoint on the RTU. This benefit of making the RTU aware of the event value is that the RTU will call in as soon as the value is crossed, rather than waiting for the next scheduled communication cycle.

WATCHLIST




Frequently visited items (including Assets or RTUs) can be added to the Watchlist by clicking on the  Add To Watch List button.


Remove an item from the watchlist by clicking the  Remove From Watch List button


This shortlist of items can be accessed using the asset selector (see section Asset Summary – Asset Selector).

Anova - LOX Assets

Watch List Favorites Tree Group

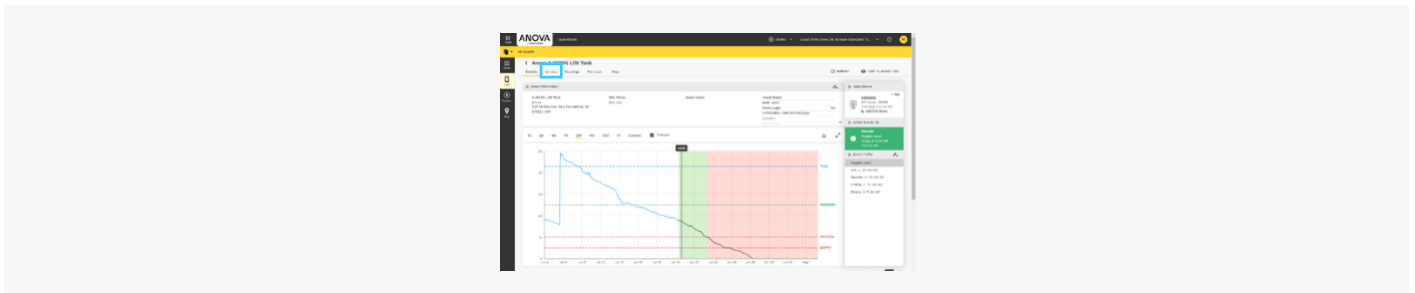
 Anova A 2500G LOX Tank

 Anova B 1500G LOX Tank

 Anova Tank 5

ANOVA

EVENTS TAB



The Events Tab shows all current and historic events relating to the selected data channels of this asset. Click on any row to open the event details (see section Events).

The screenshot shows the ANOVA Events Tab for the 'Anova B 1500G LOX Tank'. It features a line graph with a blue line representing data over time, with a green shaded area indicating a specific range. To the right of the graph is a table with columns for 'Event Name', 'Importance Level', 'Asset', 'Data Channel', and 'Message'. The table lists one event: 'Reorder' with a 'High' importance level, associated with the 'Anova B 1500G LOX Tank' asset, 'Level' data channel, and a message 'Reorder level of 30 Ins WC'. The interface also includes tabs for 'Details', 'Events', 'Readings', 'Forecast', and 'Map', along with a 'Refresh' button and an 'Add To Watch List' button. Three numbered callouts are present: 1 points to the 'View' dropdown menu, 2 points to the 'Event Types' dropdown menu, and 3 points to the 'Data Channel' dropdown menu.

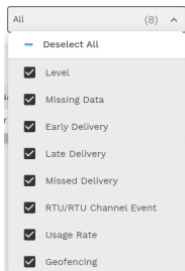
1. View

Select if you want to see active or inactive (historic) events. For inactive events only, select the date range for which you want to see events.

Date Range 01/01/2022 To 07/14/2022 Apply

2. Event Types

Select which event types you want to see.

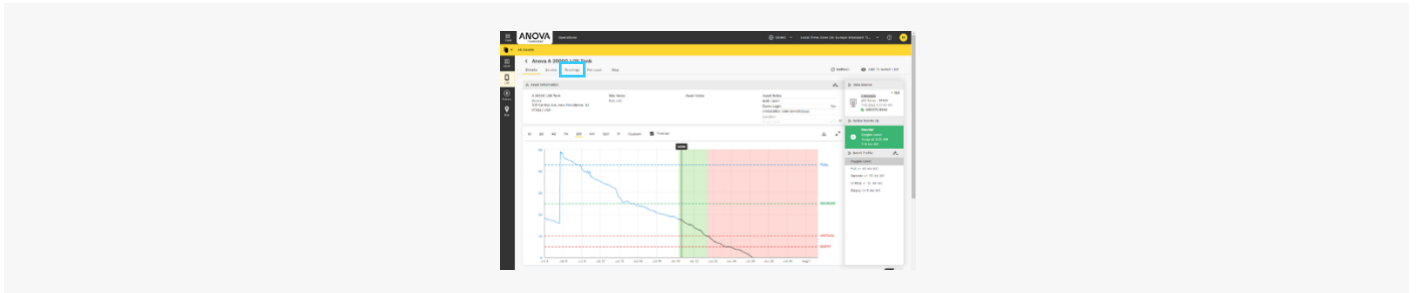


3. Select Data Channels

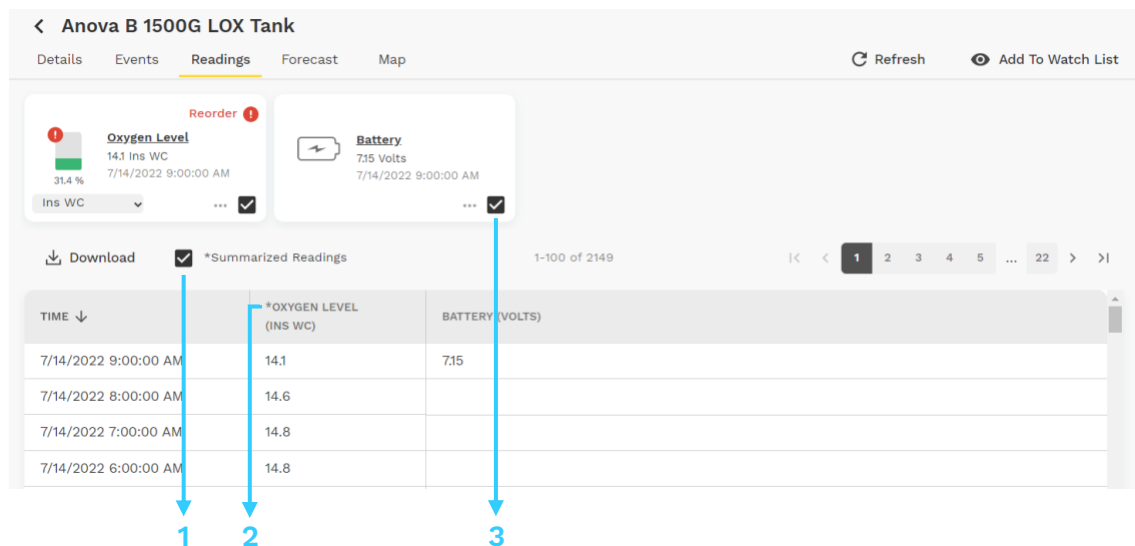
Select for which Data Channels you want to see events.

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READINGS TAB



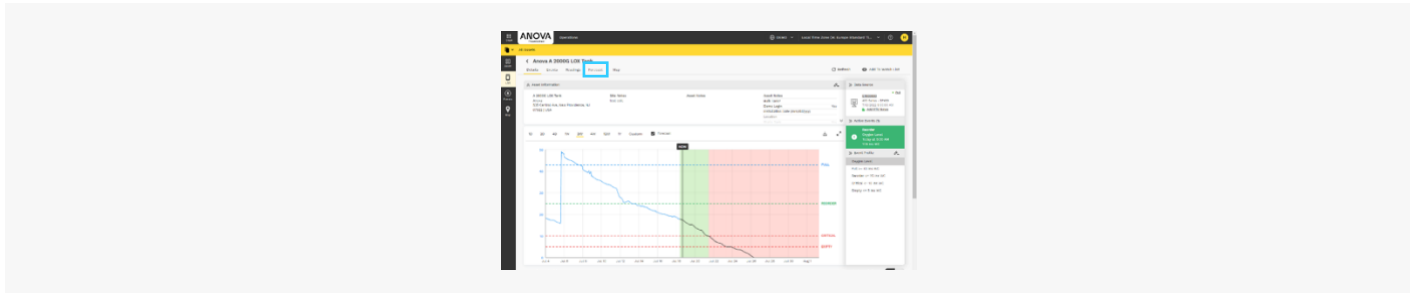
The Readings tab shows the historic readings from the graph in a table. The date range is carried over from the graph. Select the data channels for which you want to see readings by checking the boxes on the data channel tiles.



1. De-selecting the summarized readings checkbox allows you to see all datapoints. Note that loading all data make take some time.
2. Note: when selecting long time ranges, Anova Transcend 'summarizes' the data to improve performance. An asterisk indicates for which data channels the readings are summarized.
3. Select for which Data Channels you want to see readings.

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FORECAST TAB



The Forecast tab shows the forecasted readings from the graph in a table.

< Anova B 1500G LOX Tank

Details Events Readings Forecast Map Refresh Remove From Watch List

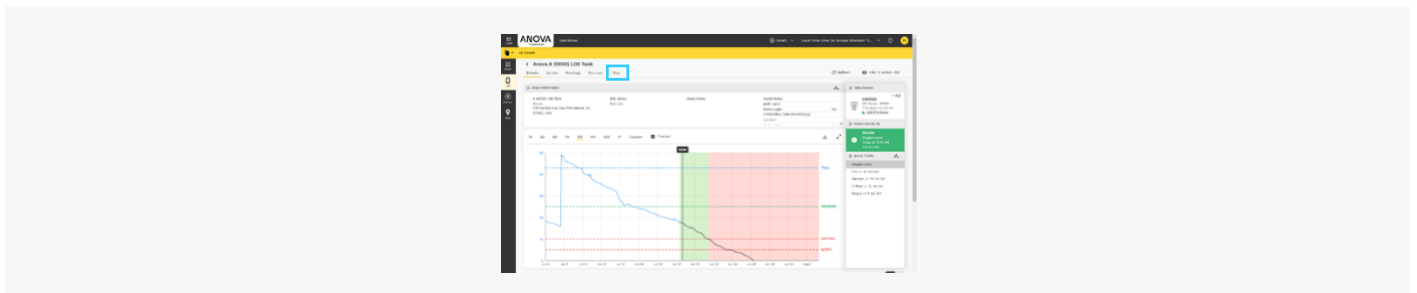
Reorder

Oxygen Level
14.1 INS WC
7/14/2022 9:00:00 AM
INS WC

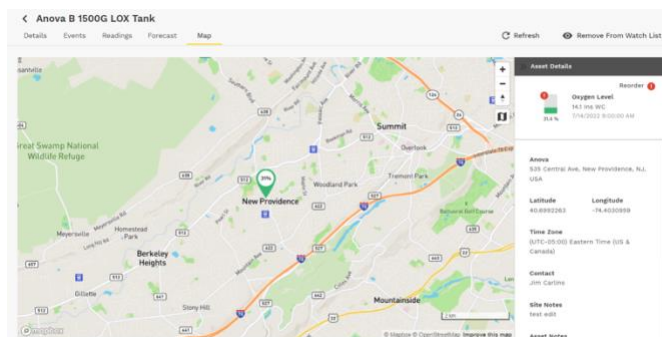
Download 1-100 of 2016

TIME ↑	OXYGEN LEVEL (INS WC)	LOW OXYGEN LEVEL (INS WC)	HIGH OXYGEN LEVEL (INS WC)
7/14/2022 10:00:00 AM	14	14.1	13.9
7/14/2022 11:00:00 AM	13.8	13.9	13.6
7/14/2022 12:00:00 PM	13.6	13.9	13.4
7/14/2022 1:00:00 PM	13.5	13.8	13.1

MAP TAB



The map tab shows the location of the asset using a color-coded pin (based on inventory state).

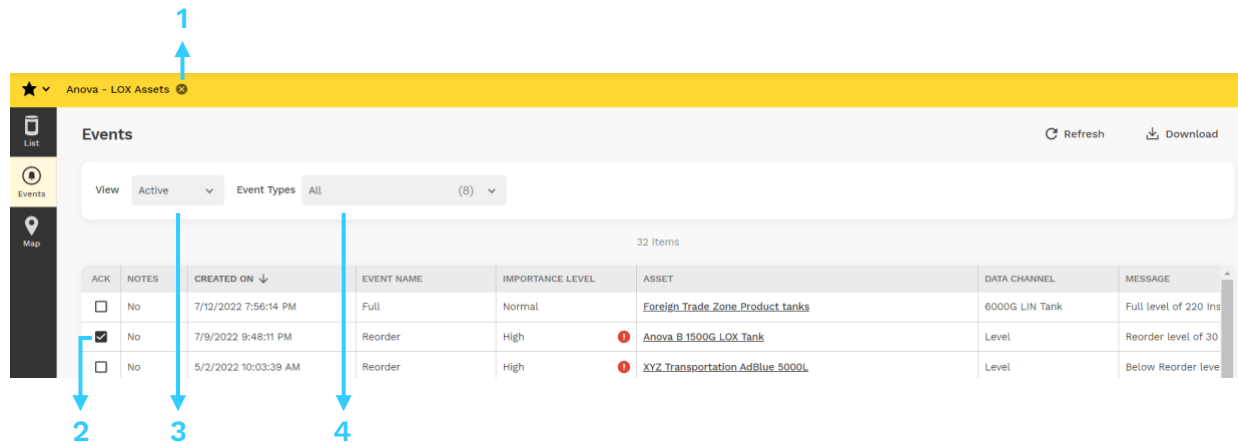


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EVENTS

EVENTS PAGE

The Events page shows all current and historic events within your domain.



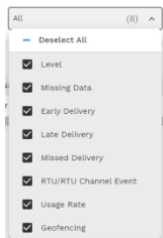
1. Select for which (sub-)set of Assets you want to see events (see section Asset Summary - Asset Selector).

2. Check this box if you want to mark an event as 'acknowledged'.

3. Select if you want to see active or inactive (historic) events. For inactive events only, select the date range for which you want to see events.

Date Range 01/01/2022 To 07/14/2022 Apply

4. Select which event types you want to see.



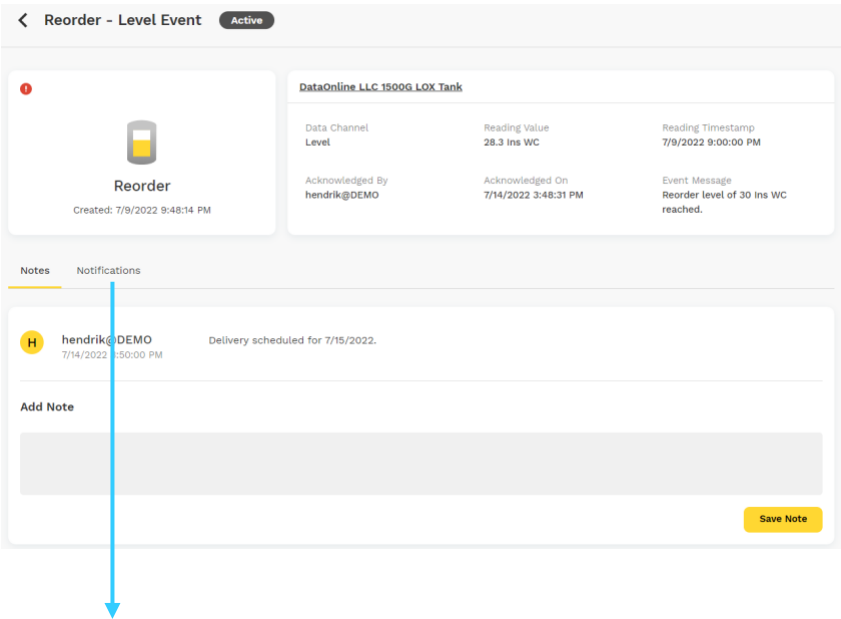
Click on any row to open the event details.

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EVENTS DETAILS

The Event Details page shows all details relating to the selected event. This information includes the time the event was created, details of the reading that triggered the event, who and when the event was acknowledged and the event message.

The notes section shows existing notes relating to this event and allows you to add a new note to this event.



Click to view who received a notification of this event. The distribution list can be configured in the roster.

Notifications					
Timestamp	Roster Name	User	Email Address	SMS Address	Sent Successfully
7/9/2022 9:48:11 PM	Demo Roster	QA Test	training@anova.com		Yes

ANOVA

SCHEDULE

ASSET	SITE LOCATION	NEXT SCHEDULED REFILL	RUNOUT DATE ↑	UNITS	TUE 9/27	WED 9/28	THU 9/29	FRI 9/30	SAT 10/1	SUN 10/2	MON 10/3
Foreign Trade Zone Produ... 6000G LIN Tank	Staten Island NY		8/28/2022 7:00 PM	Ins WC	92	122	129	131	156	166	220
World Fleet Satellite ISO ... Helium Level			9/27/2022 5:00 AM	Ins WC	11	11	11	11	11	11	11
World Fleet Satellite ISO ... Nitrogen Level			9/27/2022 5:00 AM	Ins WC	70	70	70	70	70	70	70
Store Demo #1 Load Cell	GA		9/27/2022 5:45 AM	lbs	100	100	100	100	100	100	100
DataOnline LNG Tank 1 Level	New Providence NJ		9/27/2022 10:00 AM	lbs	45790	45790	45790	45790	45790	45790	45790
DataOnline LLC Tank 5 Level	New Providence NJ		9/30/2022 7:00 PM	Ins WC	56	67	79	104	115	115	115
DataOnline LLC 2000G LO... Level	New Providence NJ		10/6/2022 6:00 AM	Ins WC	22	26	32	35	37	38	40

1. The Schedule page shows the **amount of product that can be delivered** each day for each asset. Note: this is a forecasted amount.

2. Select for which (sub-)set of Assets you want to see the Schedule (see section Asset Summary - Asset Selector).

3. To help identify which assets require a fill, each line shows a color-coded bar indicating the (forecasted) inventory state.

Normal or Full	Reorder	Critical	Empty
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4. **Schedule Delivery**

Asset Description: DataOnline LLC 2000G LOX Tank

Data Channel Description: Level

Time Zone: Local Time Zone (W. Europe Standard Time)

Date: 09/30/2022

Time and Fill Amount: 12:00 - 35 Ins WC

Auto Fill: ☒

Amount: 35 Ins WC

Delivery Window: 60 Min(s)

Cancel Save

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MAP

The map page shows the location of all assets within your domain.



The pins are color coded based on the assets' inventory states and show the fill level in the tank (in %).

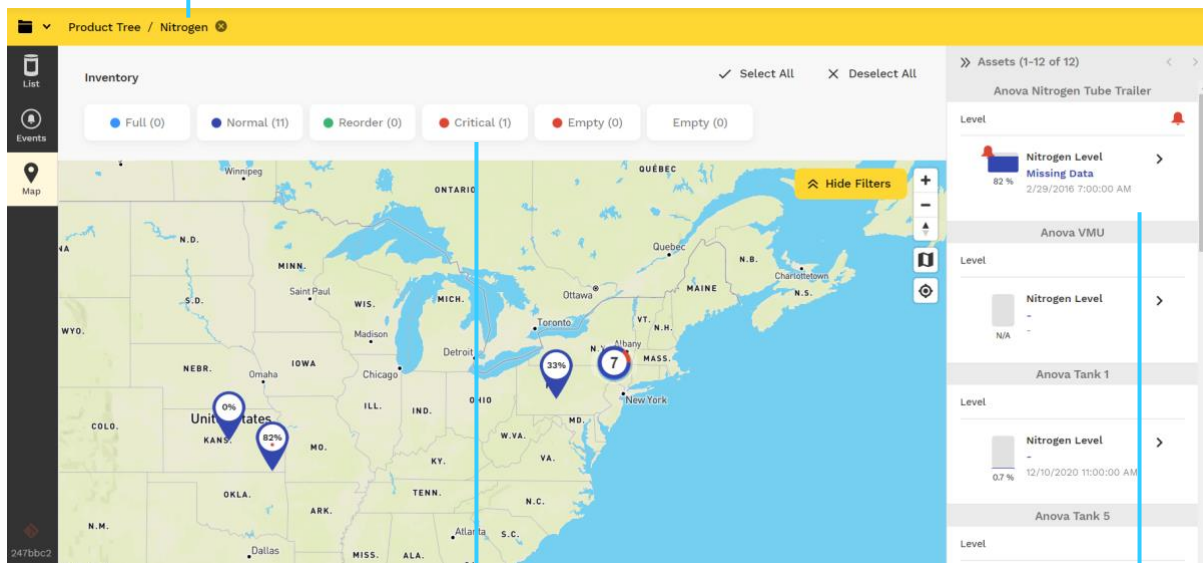


Multiple pins are clustered if they would overlap based on the zoom level. The number of pins in that cluster is shown in a circle. The band is color coded based on the distribution of inventory states within the cluster. Click on the circle to zoom to that area and de-cluster the pins.



Assets with a 'missing data' event are marked with a red dot in the pin.

Select which (sub-)set of Assets you want to see on the map
(see section Asset Summary - Asset Selector)



Filter the assets shown on the map based
on the selected inventory state(s)

Scroll through the list of assets
that match the filter criteria

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**CONNECTING THE
INDUSTRIAL WORLD
- FOR BETTER.**