

NOTE: This work sample was published on Confluence. It was reviewed and approved by Engineering SMEs. Redactions were made to anonymize it of specific details.

[H1] Test Logging Nodes & Transfers GUI

The Test Logging & Transfers webpage displays the status of test data stored on a removable hard drive located on a server mounted in a [redacted] or earlier truck. When drive tests are complete, the hard drive is removed from the truck and inserted into the Transfer Station. A transfer of truck tests is then initiated. The status of that transfer is then displayed on the Test Logging Nodes & Transfers webpage.

The screenshot shows the 'Test Logging Nodes & Transfers' page with the following details:

- Header:** TREQS, Data Extraction, Data Analysis, Vulcan, Commissioning, VDI, THAS, Discovery
- Search Vehicle ID:** Search bar with a magnifying glass icon (1).
- Location:** All (2).
- Active Loggers:** A grid of six logger cards:
 - Transfer1-ARB:** 0.000 MB/s, 10.23.70.7, ONLINE. Status: Available. No Active Transfers.
 - Transfer1-DFW:** 0.000 MB/s, 10.30.70.10, ONLINE. Status: Available. No Active Transfers.
 - Transfer1-MOBILE:** 0.000 MB/s, 10.25.128.222, ONLINE. Status: Available. No Active Transfers.
 - Transfer2-ACM:** 0.006 MB/s, 10.25.130.10, ONLINE. Status: Available. No Active Transfers.
 - Transfer2-ARB:** 0.000 MB/s, 10.23.70.6, ONLINE. Status: Occupied (N/A). Transfer Progress (3/3) - Transfer Complete. Canister ID: [REDACTED]. Last updated: 11/10/2025, 10:46:28 AM EST. Flush: COMPLETE. 12 Excluded Directories. 8/8 Disks Available.
 - Transfer2-DFW:** 0.000 MB/s, 10.30.70.11, ONLINE. Status: Occupied (C12). Transfer Progress (6/6) - Transfer Complete. Canister ID: [REDACTED]. Last updated: 11/10/2025, 10:46:28 AM EST. Flush: COMPLETE. 25 Excluded Directories. 8/8 Disks Available.

[H2] Data Filtering

The page header, appearing below the title, contains the following data filtering options.

- ID or name
- Data location

The page filters appear as follows:

The screenshot shows the 'Test Logging Nodes & Transfers' page with the following filters highlighted:

- Search Vehicle ID:** Search bar with a magnifying glass icon (1).
- Location:** All (2).

The following table describes each search filter.

Label	Search by	Description
1	Logger ID/ Test Name	Logger ID – The device identifier/test name that identifies each logger.
2	Location	The location where the test drive was collected. Locations include: <ul style="list-style-type: none"> • ARB – Anne Arbor, MI • DFW – Dallas/Fort Worth, TX • MOBILE – Mobile Transfer Station • ACM – American Center for Mobility • EC2 – Cloud based Transfer Stations used for development. • BCB – Blacksburg, VA

[H2] Transfer status view

The transfer status is presented as a transfer card. These cards represent Transfer Stations stored on the hard drive removed from the truck. Physical drives are referred to as *logging nodes*. Each card contains data representative of the test performed. When a test run is transferred from the logging node to the Transfer Station, the status of the transfer is indicated on each transfer card.

Transfer cards are presented under three categories:

- **Active Transfers** – Logging nodes currently transferring data to the Transfer Station.
- **Active Loggers** – Logging nodes that have completed transferring data to the Transfer Station.
- **Inactive Loggers** – Logging nodes that are offline but were active within the last 10 days.

Categories are presented as an accordion view that can be expanded or collapsed by clicking the header above the list of loggers. By clicking the header, the list of loggers or transfers will expand or collapse.

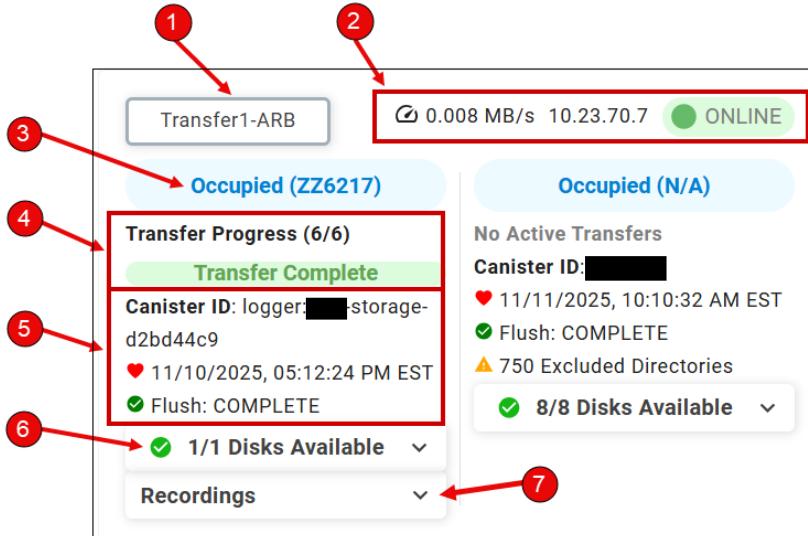
The following image shows both active transfer and active logger accordion views collapsed.

NOTE: The following image does not show inactive loggers. If inactive loggers are present, they will appear in their own Inactive Loggers accordion below Active Loggers.

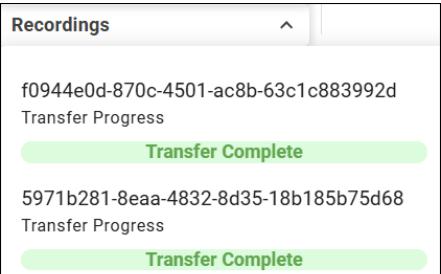
The screenshot shows a web-based application interface titled "Test Logging Nodes & Transfers". At the top, there is a navigation bar with links: TREQS, Data Extraction, Data Analysis, Vulcan, Commissioning, VDI, THAS, Discovery, and a user account dropdown for "paul.remington@torc.ai". Below the navigation bar, the main title is "Test Logging Nodes & Transfers" with a subtitle "Last updated 11/11/2025, 01:31:28 PM EST". There are three buttons in a row: Troubleshooting, Transfer Docs, and Transfer UI Docs. On the left, there is a search bar labeled "Search Vehicle ID" with a magnifying glass icon and a dropdown menu. To the right of the search bar is a "Location" dropdown set to "All". Below these controls, there are two collapsed accordions. The first accordion is titled "Active Transfers: Transfer In Progress" and the second is titled "Active Loggers". Both accordions have a red border around them.

[H3] Transfer Card Description

A transfer card contains the following information.



Label	Item	Description
1	Logger ID/ Test Name	The identifier for the device that stores the individual test(s). A logger can contain multiple recorded tests. NOTE: When the Logger ID is selected, the Test Logger Details page appears.
2	Logger status info	Indicates the logger transfer speed, IP address, and status. Status is <i>Online</i> (connected to the Transfer Station) or <i>Offline</i> (removed from the Transfer Station).
3	Canister ID and status	Indicates whether the bay contains a canister. “Occupied” indicates the bay contains a canister identified by the canister ID in parenthesis. “Occupied N/A” indicates the canister is in the bay, but the canister ID is unavailable.
4	Transfer Progress	The average percentage of recorded tests and flushers that have been transferred from the drive to the Transfer Station. When all tests have completed transferring, the percentage reported is 100%.
5	Canister data	<ul style="list-style-type: none"> Canister ID: Unique identifier related to the canister. ❤️ indicates the last heartbeat received—the last time data was saved to the logger. Flush: Indicates whether one or more recordings are being actively transferred. Reported states are ACTIVE and COMPLETE.
6	Disks Available	<p>When clicked, shows disk status, including data transfer information for each disk. For [redacted] trucks, an array of disks list. For [redacted] trucks, a single disk lists.</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> ✓ 1/1 Disks Available ^ ✓ Disk1 - 838.28 GiB / 27.29 TiB ● 3% </div> <p>NOTE: Disks that are at or near capacity list in yellow.</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> ⚠ Disk1 - 13.64 TiB / 13.64 TiB ██████████ 100% </div>

Label	Item	Description
7	Recordings	When clicked, presents a list of recordings on the logger, including each recording's transfer status. 

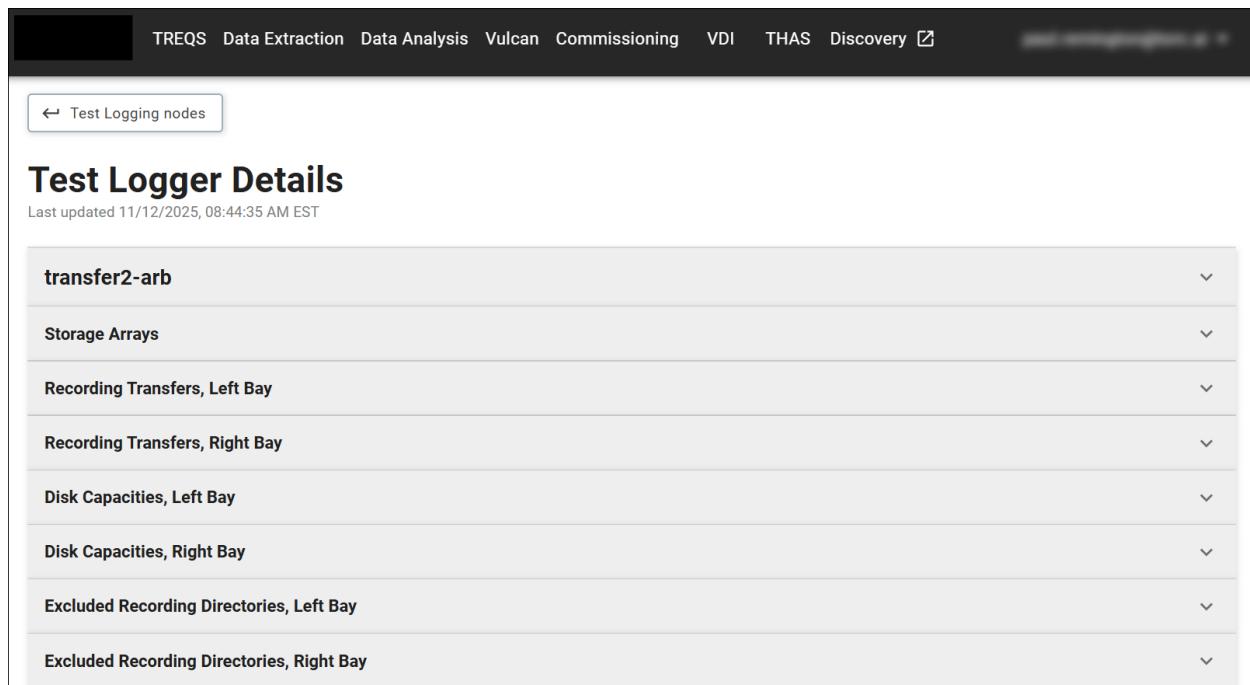
[H2] Test Logger Details Page

The Test Logger Details page provides additional detail about each logger distributed between eight separate accordion panes. This includes

- Logger details,
- Storage arrays,
- Recording transfers,
- Disk capacities, and
- Excluded recording directories

Information is presented within each accordion ribbon. For recording transfers, disc capacities, and excluded recording directories, this information includes both the left and right bays.

The following image shows the Test Logger Details page with each accordion collapsed. The sections that follow describe each of these pages.

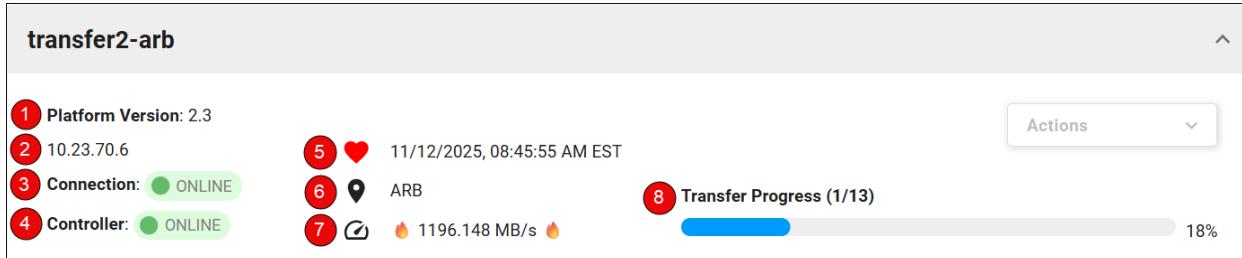


The screenshot displays the 'Test Logger Details' page with the following visible sections:

- transfer2-arb**
- Storage Arrays**
- Recording Transfers, Left Bay**
- Recording Transfers, Right Bay**
- Disk Capacities, Left Bay**
- Disk Capacities, Right Bay**
- Excluded Recording Directories, Left Bay**
- Excluded Recording Directories, Right Bay**

[H3] Logger Details Page

The Logger Details page provides the following information about each logger connected to the Transfer Station. The Transfer Progress shown represents the overall progression of all transfers across all bays where transfers are occurring.



Label	Item	Description
1	Platform Version	The truck version.
2	IP Address	The logger IP address.
3	Connection	Indicates the status of the logger connection to the Transfer Station. Possible states are ONLINE and OFFLINE.
4	Controller	Indicates the status of the controller. Possible states are ONLINE and OFFLINE.
5	Last Save	indicates the last heartbeat received—the last time data was saved to the logger.
6	Location	The location where the test drive was collected. Locations include: <ul style="list-style-type: none">ARB – Anne Arbor, MIDFW – Dallas/Fort Worth, TXMOBILE – Mobile Transfer StationACM – American Center for MobilityEC2 – Cloud based Transfer Stations used for development.BCB – Blacksburg, VA
7	Transfer Speed	Indicates the speed that data flows from the logger.
8	Transfer Progress	Shows an aggregated status of all disks that are transferring data.

[H3] Storage Arrays

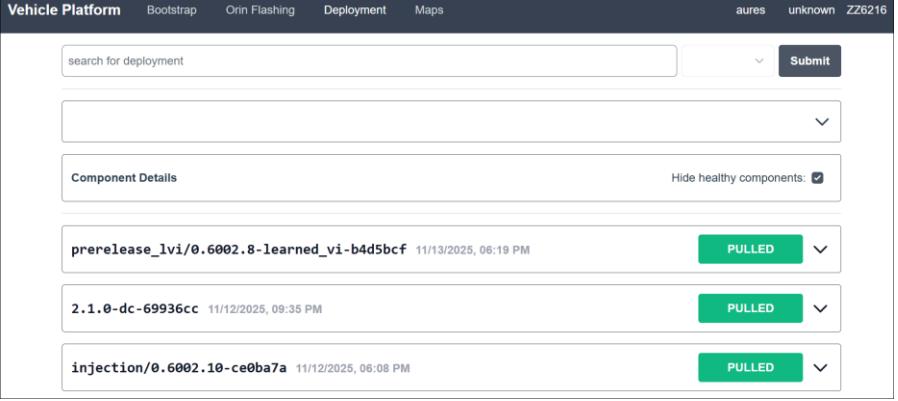
The Storage Arrays page lists status information and the transfer progress of each canister attached to the Transfer Station. The progress shown represents an average percentage of canister transfers for a particular bay in addition to any recordings attributed to it.

Storage Arrays

The screenshot shows the Storage Arrays page with two truck cards. Each card has a header with the truck name 'silvretta' and a summary section with the following data:

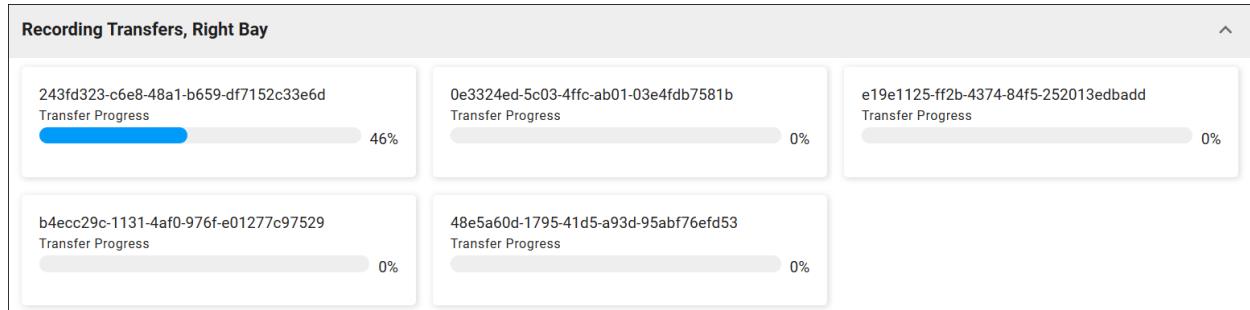
- Transfer Progress:** (1/8) 24%
- Vehicle Name:** N/A
- Disk Activity:** Active
- Disk Health:** Clean

Below each summary are two buttons: 'Manage Deployments' and 'Canister Actions'.

Label	Item	Description
1	Transfer Progress	Shows an aggregated status of all disks that are transferring data.
2	Vehicle Name	Indicates the truck name. If no name is available, “N/A” is reported.
3	Disk Activity	Reports the state of the disk: Active, Offline.
4	Disk Health	Reports the disk health: Clean, Degraded.
5	Manage Deployments	Used to manage deployments <i>below [redacted]</i> trucks. Clicking the Manage Deployments button opens a Vehicle Platform subpage. NOTE: The page does not open for [redacted] trucks.  <p>The Vehicle Platform subpage includes tabs for Vehicle Platform, Bootstrap, Orin Flashing, Deployment, and Maps. It shows deployment history with rows like 'prerelease_lvi/0.6002.8-learned_vi-b4d5bcf 11/13/2025, 06:19 PM PULLED' and '2.1.0-dc-69936cc 11/12/2025, 09:35 PM PULLED'. A search bar at the top is labeled 'search for deployment'.</p>
6	Canister Actions	Drop-down menu used to mount and unmount the disk. For [redacted] trucks, the options to Reset Array and Reset Vehicle Key are also available. NOTE: The Repair Array and Reset Vehicle Key options require specific permissions to appear on the menu. To request access, submit a request in the #wg-transfer-stations Slack channel.

[H3] Recording Transfers

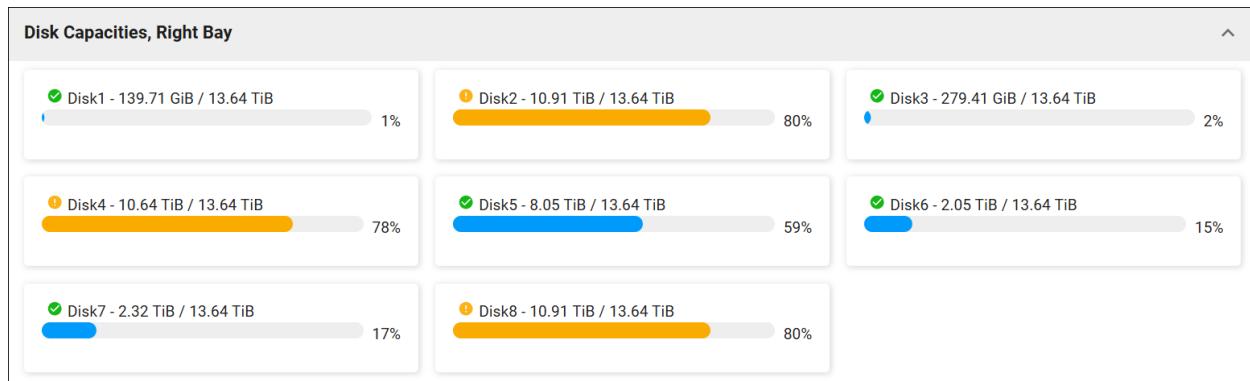
The Recording Transfers page lists the recordings on each logger, including each recording's transfer status. A page is provided for recordings on both the left and right Transfer Station bays.



[H3] Disk Capacities

The Disk Capacities page lists disk status for both the left and right Transfer Station bays, including data transfer information for each disk. For [redacted] trucks, an array of disks list. For [redacted] trucks, a single disk lists.

NOTE: Disks that are at or near capacity list in yellow.



[H3] Excluded Recording Directories

The Excluded Recording Directories page lists directories on the disk that have been removed from copying.

