

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 displays the 'Test Logging Nodes & Transfers' interface. At the top, a navigation bar includes links for TREQS, Data Extraction, Data Analysis, Vulcan, Commissioning, VDI, THAS, and Discovery. The main title 'Test Logging Nodes & Transfers' is followed by a 'Last updated' timestamp of 11/10/2025, 10:46:43 AM EST. Below the title, there is a search bar for 'Search Vehicle ID' and a 'Location' dropdown menu set to 'All'. The interface is divided into two main sections: 'Active Loggers' and 'Transfer Progress'. The 'Active Loggers' section shows six loggers: Transfer1-ARB, Transfer1-DFW, Transfer1-MOBILE, Transfer2-ACM, Transfer2-ARB, and Transfer2-DFW. Each logger has a status bar indicating 'Available' or 'Occupied' and a 'No Active Transfers' message. The 'Transfer Progress' section shows two progress bars: 'Transfer Progress (3/3)' and 'Transfer Progress (6/6)'. Both progress bars are marked as 'Transfer Complete' and show 'Flush: COMPLETE'. The 'Transfer Progress (3/3)' bar also shows '12 Excluded Directories' and '8/8 Disks Available'. The 'Transfer Progress (6/6)' bar shows '25 Excluded Directories' and '8/8 Disks Available'. The 'Transfer Progress (6/6)' bar also shows '1/1 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 displays the 'Test Logging Nodes & Transfers' interface with search filters. The navigation bar and title are the same as in the previous screenshot. The 'Search Vehicle ID' dropdown menu is highlighted with a red circle and the number 1. The 'Location' dropdown menu is also highlighted with a red circle and the number 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.

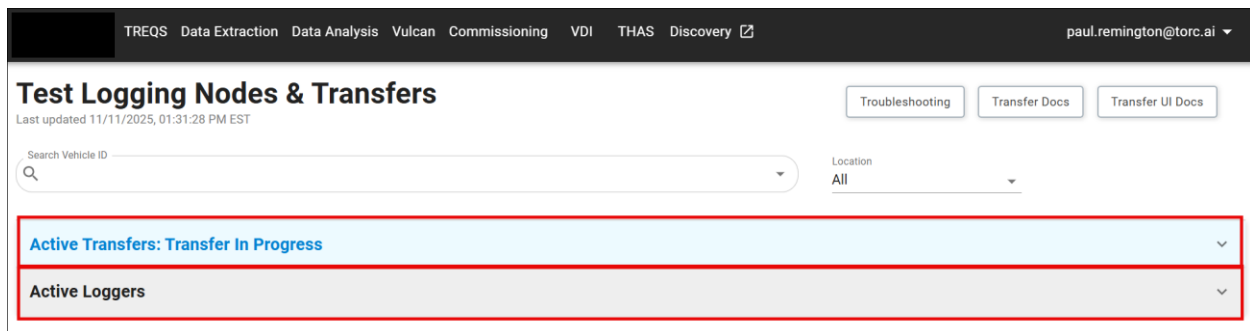
Transfer cards are presented under three categories:

- **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.

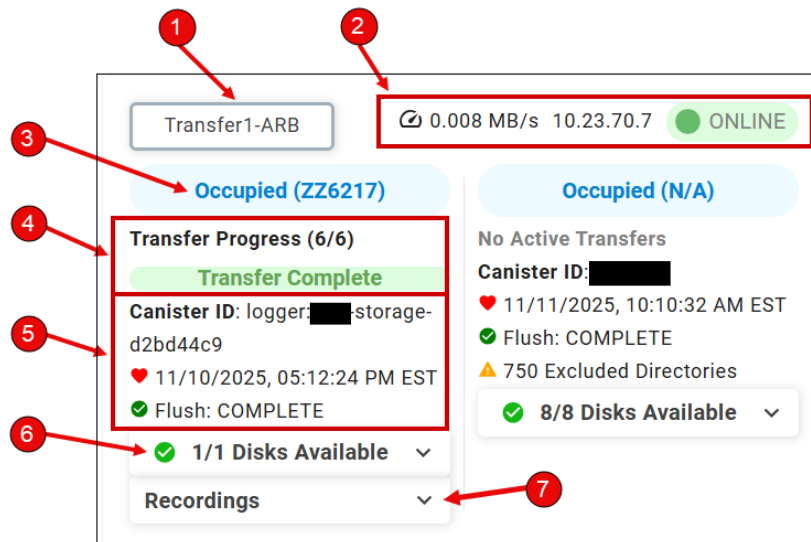
The following image shows both active transfer and active logger accordion views collapsed.

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.



[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> <div> 1/1 Disks Available </div> <div> <div> Disk1 - 838.28 GiB / 27.29 TiB </div> <div> 3% </div> </div> </div> <p>NOTE: Disks that are at or near capacity list in yellow.</p> <div> <div> Disk1 - 13.64 TiB / 13.64 TiB </div> <div> 100% </div> </div>

Label	Item	Description
7	Recordings	<div>When clicked, presents a list of recordings on the logger, including each recording's transfer status.</div> <div><div>Recordings</div><div><div>f0944e0d-870c-4501-ac8b-63c1c883992d</div><div>Transfer Progress</div><div>Transfer Complete</div></div><div><div>5971b281-8eaa-4832-8d35-18b185b75d68</div><div>Transfer Progress</div><div>Transfer Complete</div></div></div>

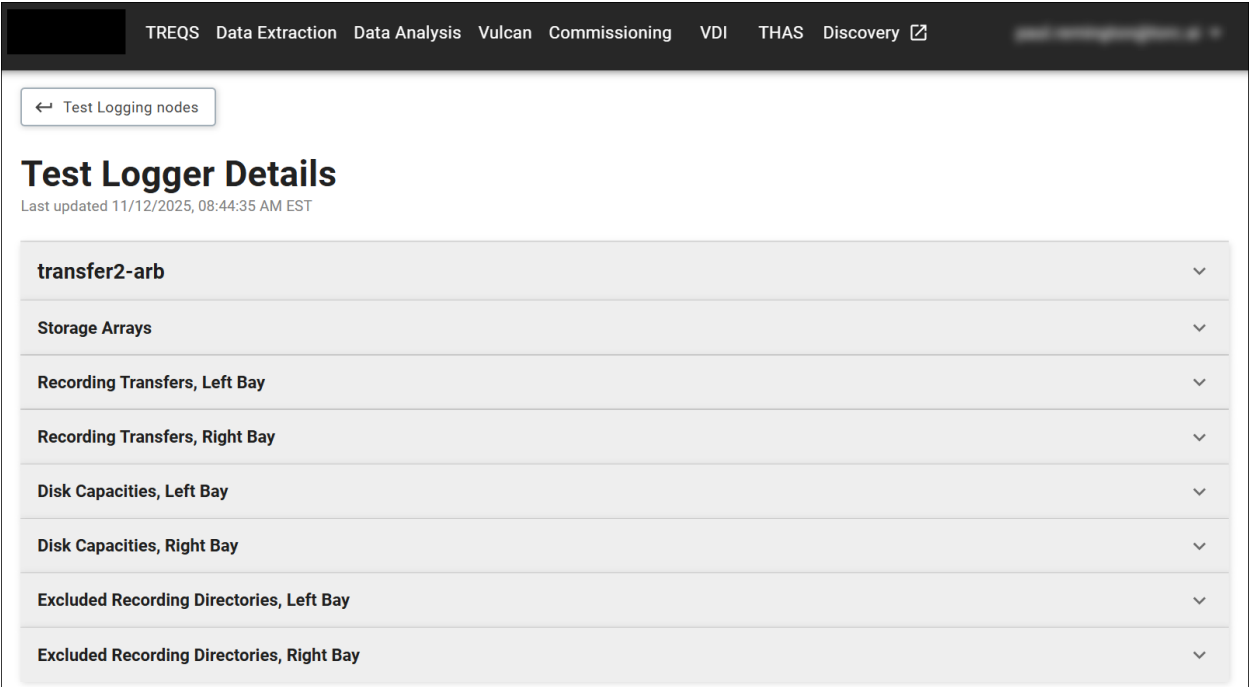
[H2] Test Logger Details Page

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.



[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.

transfer2-arb ^

1 Platform Version: 2.3

2 10.23.70.6

3 Connection: ONLINE

4 Controller: ONLINE

5 11/12/2025, 08:45:55 AM EST

6 ARB

7 1196.148 MB/s

8 Transfer Progress (1/13)

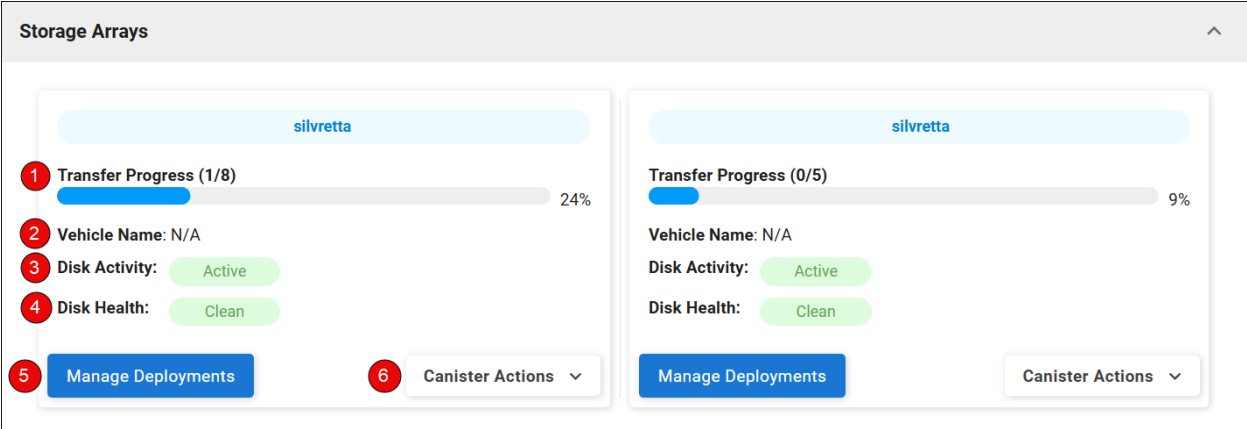
18%

Actions ▾

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, 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
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

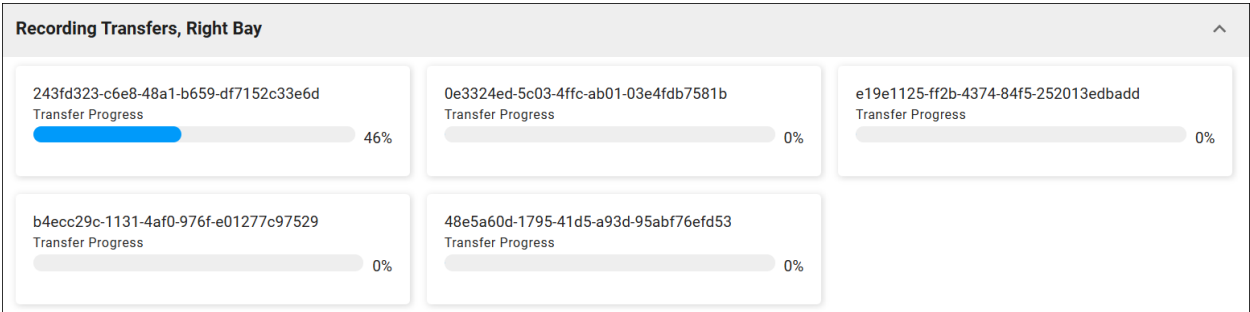
The Storage Arrays page lists status information and the transfer progress of each canister attached to the Transfer Station. The progress shown represents an average percentage of canister transfers for a particular bay in addition to any recordings attributed to it.



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</i> [redacted] trucks. Clicking the Manage Deployments button opens a Vehicle Platform subpage. NOTE: The page does not open for [redacted] trucks. <div><div>Vehicle Platform</div><div><div>Bootstrap</div><div>Orin Flashing</div><div>Deployment</div><div>Maps</div></div><div><div>atures</div><div>unknown</div><div>ZZ6216</div></div><div><div>search for deployment</div><div>Submit</div></div><div><div></div></div><div><div>Component Details</div><div>Hide healthy components: <input checked="" type="checkbox"/></div></div><div><div>prerelease_lvi/0.6002.8-learned_vi-b4d5bcf</div><div>11/13/2025, 06:19 PM</div><div>PULLED</div><div></div></div><div><div>2.1.0-dc-69936cc</div><div>11/12/2025, 09:35 PM</div><div>PULLED</div><div></div></div><div><div>injection/0.6002.10-ce0ba7a</div><div>11/12/2025, 06:08 PM</div><div>PULLED</div><div></div></div></div>

[H3] Recording Transfers

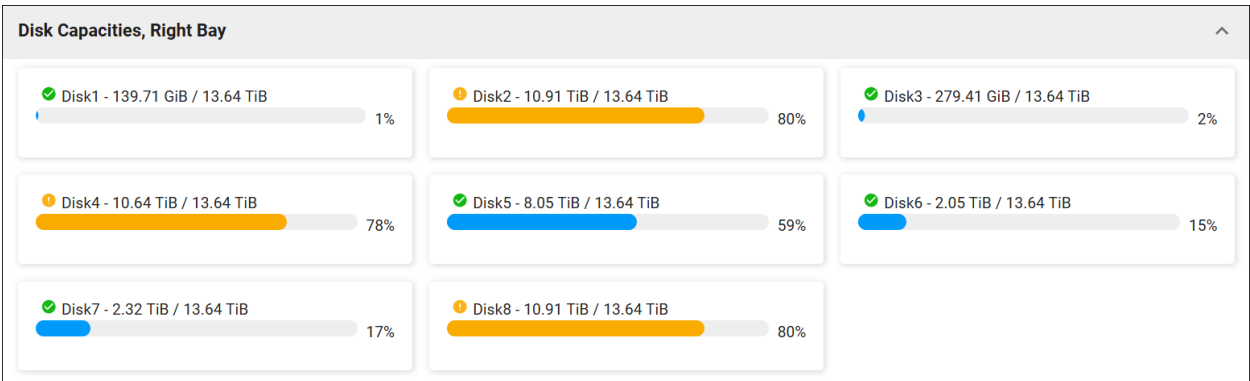
The Recording Transfers page lists the recordings on each logger, including each recording’s transfer status. A page is provided for recordings on both the left and right Transfer Station bays.



[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.

Excluded Recording Directories, Left Bay

77 Directories will not be transferred due to missing metadata

ZZ6195-20251112T180524Z	ZZ6195-20251104T175153Z	ZZ6195-20251112T180717Z
ZZ6195-20251112T212552Z	ZZ6199-20251110T151047Z	ZZ6195-20251112T173813Z