

# TransViz

Transportation Visualizer (TransViz) is a web-based transportation requirements and plan analysis tool. TransViz can give users full access to **real-time** Joint Operations Planning and Execution System (JOPES) data and provide a clear visual environment to explore it.

In TransViz, users can manipulate data in one location and instantly see their changes reflected across one or more collaborative workspaces. Planners in multiple locations can analyze information, share thoughts, evaluate courses of action (COA) and if their JOPES permissions allow, make data changes to 15 different transportation-related fields. Planners can quickly identify exceptions, outliers, anomalies and collaborate across organizations to facilitate decision making and then make necessary changes to achieve a transportation solution.

The TransViz workspace contains visualization tools that allow collaboration as well as planning what-if analysis. These tools include:

- Maps that reflect origins, routes, intermediate locations (ILOCS) and destinations, as contained in JOPES.
- Tables that can be modified to show user-specified data that can be exported to Excel.
- Charts with editing capability that provide a graphic view of transportation requirement data.
- Annotation tools that allow users to write and draw on any of the visualization tools.
- Scenario manipulation culminating in the ability to write changes back to JOPES.
- The ability visualize cargo increment numbers (CINs) and personnel increment numbers (PINs).

The strength of TransViz lies in its ability to drag and drop data from one visualization tool onto another and its capability to drill down on data that is available in all visualizations.

## Common Operational Uses

- **Flow Analysis and Smoothing** - TransViz offers three specific tools that allow planners to visualize the flow of requirements as a view of peaks and valleys. These views can then be narrowed to specific requirements (e.g., a Brigade Combat Team [BCT]) or a specific location (e.g., port of debarkation [POD], port of embarkation [POE]) and analyzed.
- **Aggregations** - TransViz can assist force transportation planning because it provides ready-made, visual aggregation solutions.
- **Port Flow Analysis** - TransViz also provides users the ability to view JOPES planned requirements into and out of specific locations.
- **Rotational Plan Analysis** - Combatant commands can view deployment/redeployment plans together in a single view.
- **COA Development** - TransViz provides a scenario tool that allows users to manipulate the data within TransViz to create a COA and view what the flow will look like if certain changes are implemented. If approved, the changes the COA recommends may be written back to JOPES, alleviating the need to manually update records.
- **Export** - Quickly export data to Excel and PowerPoint
- **Dynamic view of JOPES data**

## Points of Contact

USTRANSCOM, TCJ3-IA, Subject Matter Experts:  
DSN: 770-7961 / Comm: 618-220-7961

USTRANSCOM, TCJ3-IA, Functional Manager:  
DSN: 770-7458 / Comm: 618-220-7458

USTRANSCOM, TCAQ-T, Program Manager:  
DSN: 576-6776 / Comm: 618-256-6776

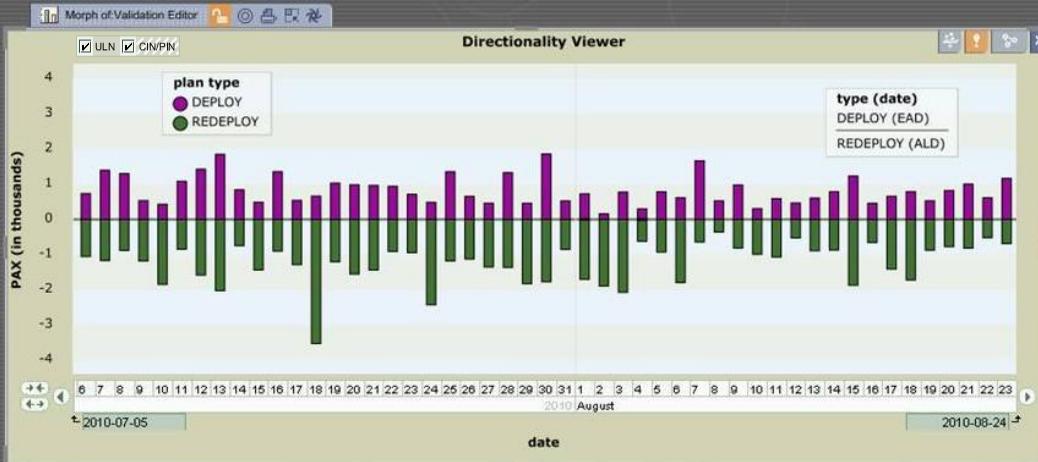
SIPRNet Email: [TransViz@ustranscom.smil.mil](mailto:TransViz@ustranscom.smil.mil)

SIPRNet Website and Application:  
<https://www.transcom.smil.mil/j3/transviz/>



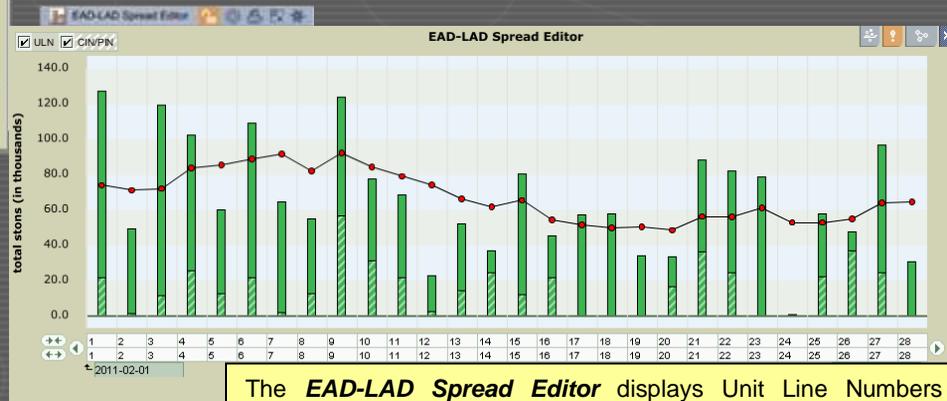
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Information Pamphlet



The **Directionality Viewer** allows users to view deploy and redeploy data in a mirror image. Plans are segregated displaying deployment plan data (by either earliest arrival date [EAD] or latest arrival date [LAD]) on the top and redeployment plan data (by available-to-load date [ALD]) on the bottom. Capacity lines can be placed on the viewer to indicate limits. The **Port Throughput Viewer** displays data in a similar manner, but the data can be limited to a single or specific locations (origin, POE, POD, ILOC or destination).

**Scenario Details** is the management tool for reviewing and approving what-if scenarios. Once a scenario is dropped on the tool, information about that scenario appears allowing the user to view attributes in terms of system of record and scenario values as well as communicate those details to other users.



The **EAD-LAD Spread Editor** displays Unit Line Numbers (ULNs) over time to analyze possible spikes in the transportation flow and anticipate future problems. It is a visual representation of the whole plan, not available in a tabular view. The editor further calculates the EAD-LAD spread of the requirements for each day and displays that value for the analyst.

**Scenario Details**

Title: Port Smooth      Committed:      Views

Authors: TCWINGMT      Committed By:

Created: 2010-07-16 14:39:26      TRANSECON Concur:

Scenario Plans

Plan	Latest SOR Feed	# Edited ULNs
91MTW	2010-06-23 15:17...	3

Scenario Overview

This change will relieve the PAX plot at El Bar...

Change Detail

Plan	ULN	PDE MODE/SOR...		POD		POD MODE/SOR...		DEST MODE/SOR	
		to	Scenario	SDR	Scenario	SDR	Scenario	SDR	Scenario
91MTW	GAHC1	LIH	LIH	EL BOR...	MATMA...	AJK	AJK	LIH	LIH
91MTW	GAHV	LIH	LIH	EL BOR...	MATMA...	AJK	AJK	LIH	LIH
91MTW	GAHC1	LIH	LIH	EL BOR...	MATMA...	AJK	AJK	LIH	LIH

Notes Detail

Plan	ULN	Note Title	Note Comment
91MTW	GAHC1	SMOOTH PORT FLOW	TCWINGMT: Move through M...
91MTW	GAHC1	SMOOTH PORT FLOW	TCWINGMT: Move through M...
91MTW	GAHV	SMOOTH PORT FLOW	TCWINGMT: Move through M...

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The **Validation Editor** provides a view of the validation and transportation status of requirements relative to the current date. It displays aggregates of requirements per day based on days out from the current date. The current date is shown on the editor as day zero and ULNs will be displayed relevant to the zero date (on either the left or right of the current date on the chart).

