

TransViz

Transportation Visualizer (TransViz) is a transportation requirements and plan analysis tool based on commercial-off-the-shelf technology - CoMotion®. TransViz can give users full access to their Joint Operations Planning and Execution System (JOPES) data and provide a clear visual environment in which to explore it. In TransViz, users can manipulate data in one location, and instantly see their changes reflected across one or more collaborative workspaces. Crisis-action planners in multiple locations can analyze information, share thoughts, evaluate courses of action and make data changes with permissions based write-back to JOPES. 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 plan and 'what if' analysis. These tools include:

- maps that reflect origins, routes and destinations as contained in JOPES;
- tables that can be modified to show user specified data that can then 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 (charts / maps / tables);
- and scenario manipulation culminating in the ability to write-back changes to JOPES

TransViz's strength 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.



TransViz: A Global Visualization

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Information Pamphlet

CoMotion® is a trademark of General Dynamics C4 Systems

Pamphlet 24-6

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The TPFDD Timeline Editor displays/edits Combatant Commander (COCOM) required movement times.

Scenario Details is your management tool for reviewing and approving scenario "what ifs." Once you drop a scenario on the chart, information about that scenario appears allowing you to view attributes in terms of the system of record or scenario values and make note of or communicate those details to your collaborators.

The ULN Unit Equipment/PAX Chart displays ULNs by their cargo and amount. The top portion of the chart shows the number of passengers included in the requirement. The cargo data is listed on the left side of the bottom portion and each cargo type is charted, by quantification as a horizontal bar.

In System of Record (SOR) view, the Requirements Editor displays requirements over time to analyze possible spikes in the transportation flow and anticipate future problems. It is a visual representation of the whole plan that is not available in a tabular tool. In Scenario View, you can edit ULN data by physically moving data on the editor to different days in order to smooth flow the visual data.

The User Browser shows which users are available for collaboration and color codes them on-line as (green) and off-line as (red).

Scenario Details

Title: Scenario One Committed:

Author: TCWINGMT Committed By:

Created: 2006-06-26 09:32:46 TRANSCOM Concurs:

Views

Scenario One

Scenario Plans

Plan	Latest SDR Feed	# Edited	ULNs	Newsgroup Post
91MTW	2006-06-22 16:49:...	5		

Scenario Overview

Change Detail

Plan	ULN	ALD		EAD		LAD		SOR		Scena	
		enarior	SOR	Scenario	SOR	Scenario	SOR	Scenario	SOR	Scenario	SOR
91MTW	GAJWP		45	46	49	49	53	53	55	55	55
91MTW	GAJQP		45	47	49	49	53	53	55	55	55
91MTW	GAJUP		45	48	49	49	53	53	55	55	55
91MTW	GAJLP		45	47	49	49	53	53	55	55	55
91MTW	GAAUP		24	24	26	26	30	32	38	38	38

Cancel Selected Cancel All Update JOPEs

USTRANSCOM Concurs not submitted

TPFDD Timeline Editor

Mark legend

- GACE RLD
- GAAN ALD
- GAJCC RDD
- GABM EAD, LAD
- GAAUP Late
- GAJHC
- GAAR001
- GAATP
- GAK1C
- GAAR
- GAA3
- GAJDC
- GAA0

Views

Scenario One

21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10

21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10

2007-01-21 2007-01-21

Requirements Editor

Views

Scenario One

PAX (in thousands)

5

4

3

2

1

0

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

2007-02-02

ULN Unit Equipment/PAX Chart

19145

5 10 15 20

- PAX (in thousands)

Equipment

50

175

308

11

65

16

51

1

12

11

4

64

88

0 100 200 300 400

- atv required

User Browser

login_name

- administrator
- TCPORTRW
- TCWINGMT
- TCFEILT
- TCKLOPMB
- TCTESTPA