



Transportation Internet Portal (TIP) Demonstration

January 24, 2003



This material is based upon the work supported by the Space and Naval Warfare Systems Center, San Diego, under Contract No. N6601-02-D-039, with the Center for Commercial Deployment of Transportation Technologies (CCDoTT) at California State University, Long Beach.

Any opinions or conclusions or recommendations expressed in this material are those of the author (s) and do not necessarily reflect the views of the Space and Naval Warfare Systems Center, San Diego or the Center for Commercial Deployment of Transportation Technologies (CCDoTT) at California State University, Long Beach.



Overview

- **Project background and objectives**
- **Commercial Transportation Internet Portals**
- **TIP Demonstration Overview**
- **Road ahead**



Project Evolution

- **Originally TIP idea envisioned as DOD-sponsored network development**
- **TIP Phase I completed Jan 2002**
- **Now envisioned as subscription to commercial service**
 - **Take advantage of fast-maturing commercial networks**
 - CargoSmart, GTNexus, Intra, etc.

Project Objectives

- **Demonstrate potential uses of a commercial transportation internet portal (TIP) as a VISA JPAG planning and execution tool**
- **Clarify and document operational procedures for using TIP**
- **Facilitate discussion among stakeholders on key trust issues (such as portal neutrality and security of business-sensitive information)**

Project Team

- **LMI**
 - Project Lead
- **GT Nexus**
 - Commercial network provider
- **Intellitrans**
 - Scenario work
 - Security issues
- **Manalytics**
 - Commercial business rules



Voluntary Intermodal Sealift Agreement (VISA)

- **The objective of the VISA program is a Sealift Readiness Program that:**
 - **Assures DoD access to critical sealift capability for national security contingency requirements**
 - **Contributes to a robust and healthy U.S. merchant marine**
 - **Balances defense and economic elements of civilian transportation for national security.**
- **US Flag carriers commit to providing shipping capacity for the 3 stages of VISA**



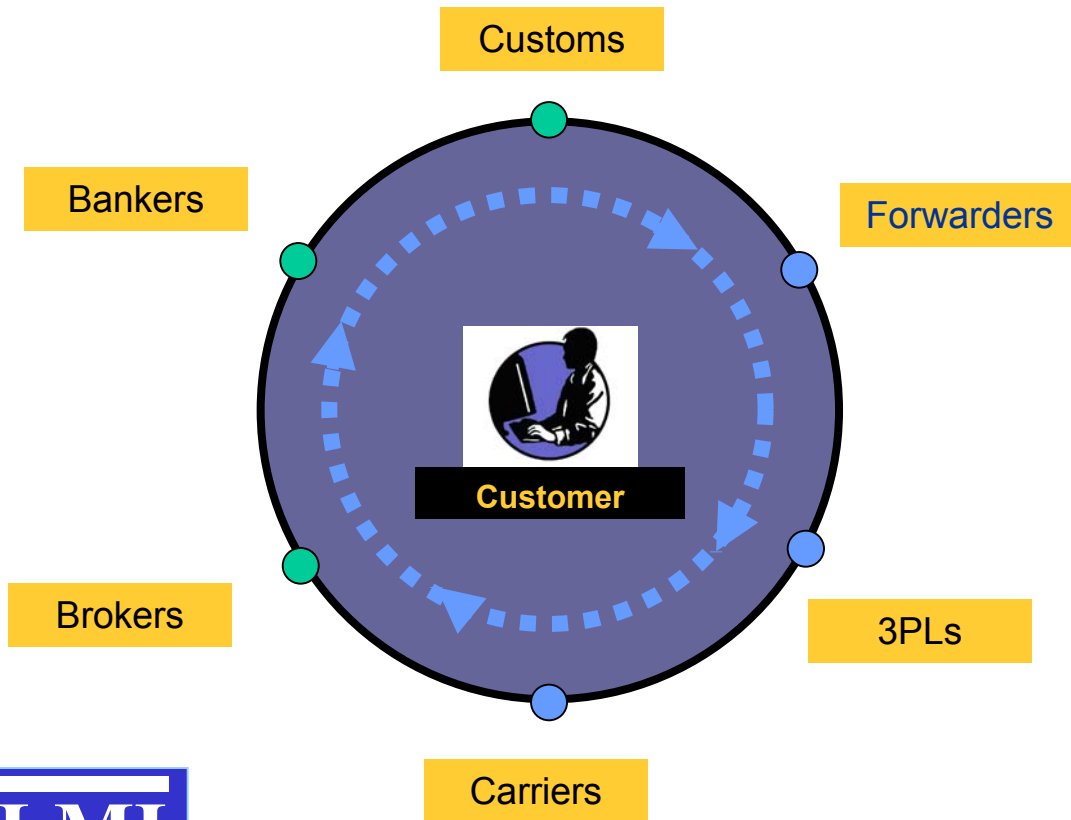
Commercial Transportation Internet Portals



Commercial Network Architecture

(Notional)

Private Network on an Existing Commercial Enterprise Information Portal



Flexibility

- **Add Partners** – can select additional partners and take advantage of existing alliance partners
- **Add Products** – a range of optional premium planning products can be added
- **Configure Workflow** – can design the partner participation rules and permissions across the network

Typical Commercial Network Tools

- **Planning –**
 - **Decision support tools (sailing schedules, regulatory guides, etc)**
 - Forecasts – Cargo forecast for weekly or quarterly cargo flows across commodities and lanes
 - **Contracts – Contract management system**
 - Optimization – Global bid optimization tool
 - Allocations – Optimal freight distribution across providers
 - Rates – Collaborative rate request and response network
- **Execution –**
 - **Schedules – Single source access across all participating carriers**
 - **Procurement – Single source access across all participating carriers**
 - **Booking – Full shipment booking and change management**
 - **Documentation**
 - **Visibility – Tracking and exception alerts**
 - **Reports – Performance analysis across execution process**



TIP Demonstration Overview



TIP Concept

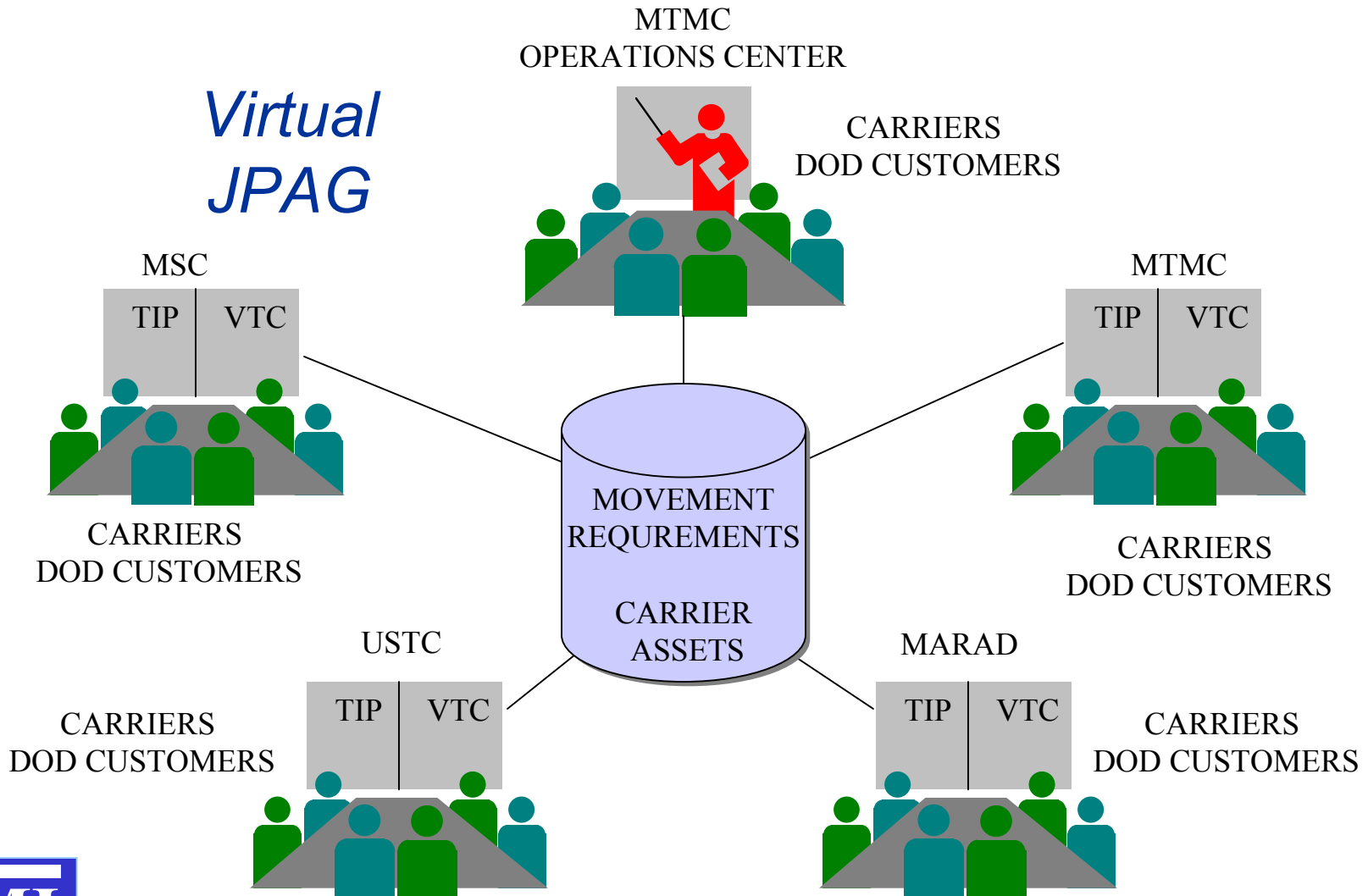
- **TIP is a neutral internet portal that allows timely collaboration between USTRANSCOM (and its components) and VISA carriers so that:**
 - **USTRANSCOM can provide VISA carriers necessary information on requirements;**
 - **VISA carriers can provide USTRANSCOM with necessary information on offered capacity;**
 - **together they can plan, book, and track shipments from end to end;**
 - **and, to the extent practicable, they can minimize adverse impacts on commercial operations of member carriers.**



Key Players

	Player	Roles
Members of JPAG	DoD Planners JCS, OSD, etc.	Identify need and establish requirements
	USTRANSCOM MTMC MSC	Execute transactions
	MARAD	Enroll and approve VISA partners and monitor impact on carriers
	3 VISA Carriers	Execute carrier transactions
	GTNexus	Commercial network facilitates marriage of requirements and available capacity

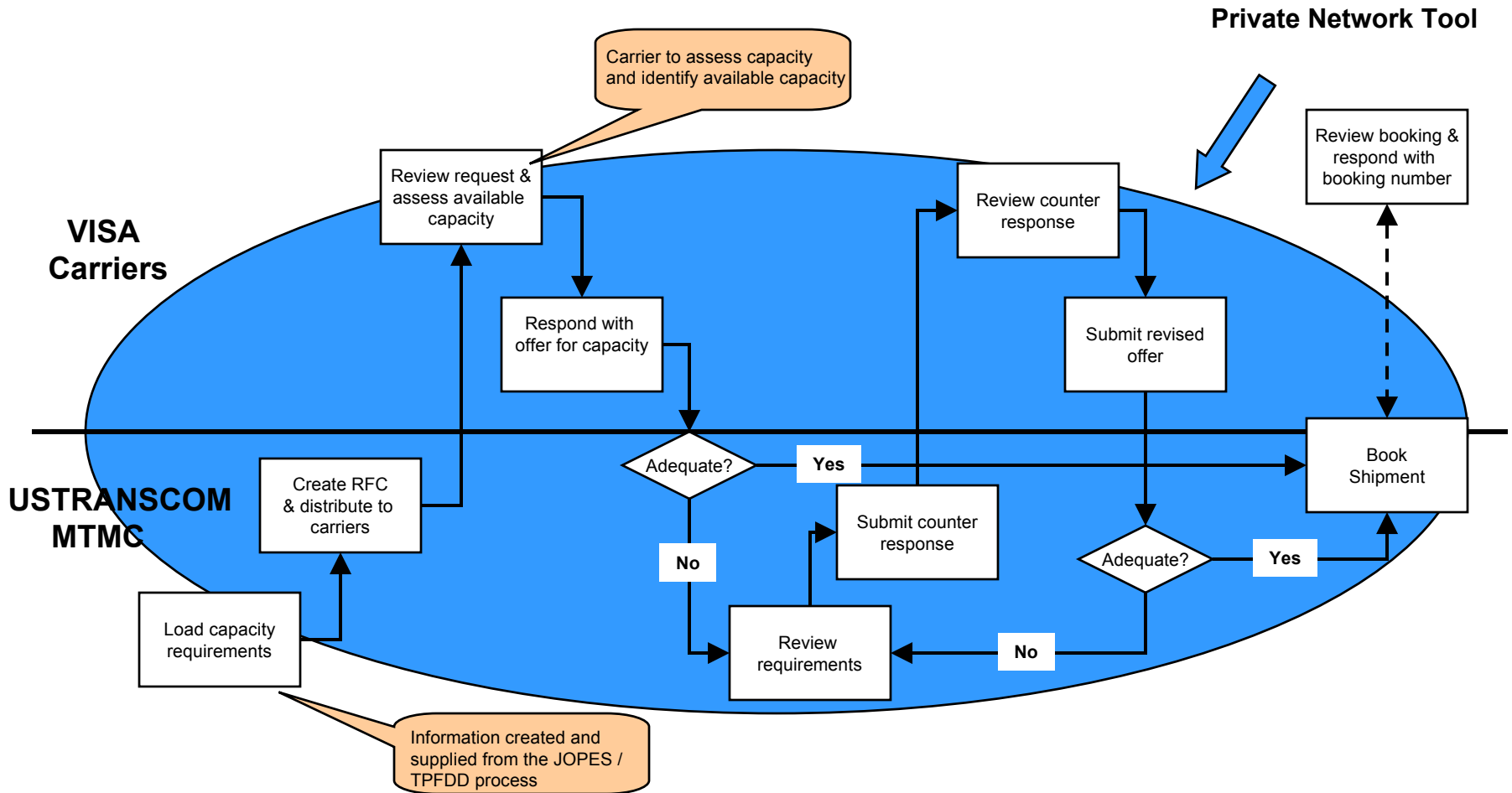
TIP Demonstration Environment



Scenario Starting Conditions

- **A military response has been planned and VISA Stage I has been activated**
- **VISA carrier enrollment procedures are complete**
- **VISA carriers have container shipping capacity available**
- **DoD shipping container requirements exceed available voluntary capacity**

TIP Demonstration Flow Diagram



TIP Demonstration Development

- Develop demonstration scenario
- Coordinate with key players and gather source materials necessary to establish the Network on GT Nexus
 - Meetings held with MARAD, USTRANSCOM, MTMC, MSC, APL, Crowley, Maersk
- **Establish a simulated private network on GT Nexus**
- **Demonstrate simulated private network in scenario that illustrates potential as a VISA JPAG planning and execution tool**
- **Document observations / operational procedures**

Road Ahead

Date	Milestone
Present -14 Mar	Continue to add fidelity & detail to scenario, construct requirements & available capacity data inputs, script transactions -Coordinate with key players
15 Mar	Establish private network
18 Apr- 16 May	Conduct demonstrations at: -USTRANSCOM, MARAD, multiple DoD locations, LMI, WEBEX
11 Jul	Document results