Defense Information Systems Agency

A Combat Support Agency

SATCOM, Teleport, and Services Program Executive Office

Mr. Bob Clayton

Acting Deputy Director

SATCOM, Teleport, and Services

Program Executive Office

DISA

Technology Insertion

Warfighter Support

Acquisition Oversight
Program Management
Advocacy and Support

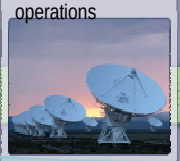
PEO for SATCOM, Teleport, and Services

Engineering

Operations

SATCOM PMO
Provide cost-effective, timely, commercial fixed and mobile satellite services

Teleport PMO
Provide DoD Teleport support to warfighting forces deploying in all phases of operations



PCM PMO
Provide premier telecom systems to support the President and his staff in times of peace or crisis

Joint IP Modem
Provide standards-based net-centric SATCOM capability meeting DoD security requirements

Service Acquisitions
- FCSA
- GSM
- JTIC Mission Support Services

Portfolio Management

Resource Management

Program Controls

System Engineering

PEO Results

- ✓ Offers synchronization of SATCOM and Teleport components
- ✓ Optimizes assets and services provided
- ✓ Leverages agency engineering and operation capabilities
- ✓ Provides stewardship of resources
- ✓ Presents strategic alignment of related programs
- ✓ Facilitates greater customer focus

Any Information Flow, from Any Source, to Any Gateway, to Any Uplink, to Any Satellite, to Any Deployed Terminal, to Any User, at Any Time, for Any Reason, Anywhere in the World

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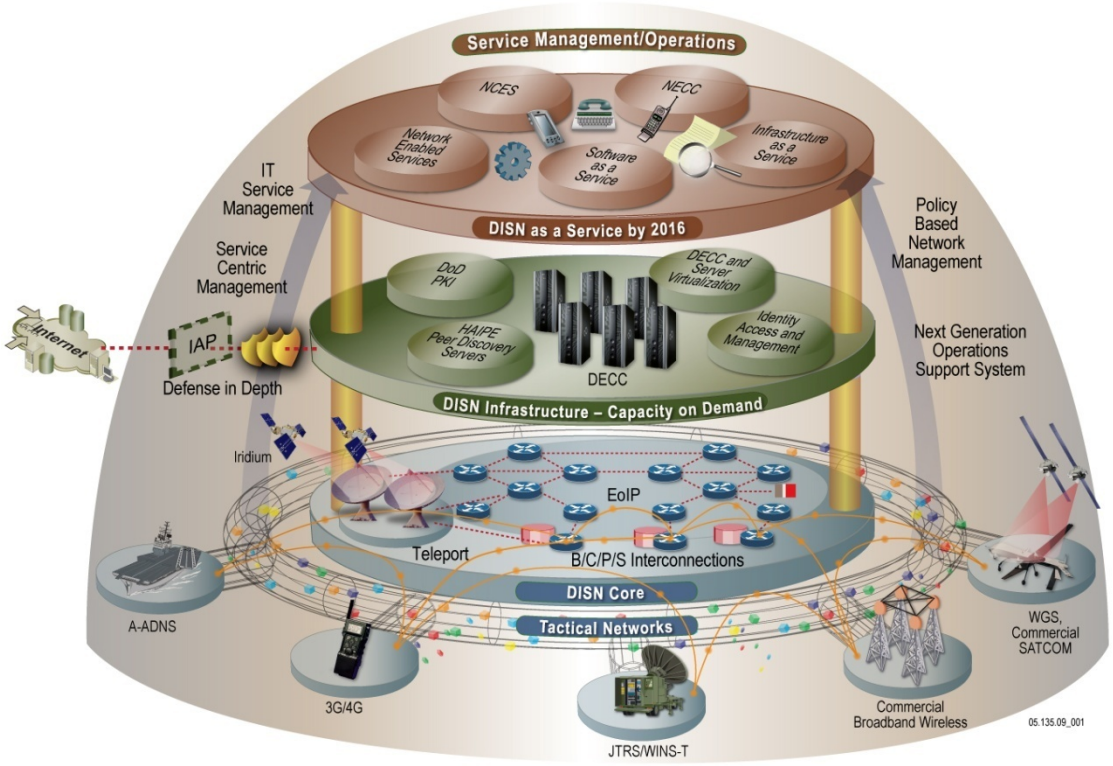
DISA GIG Strategy



- The GIG provides Warfighters with increased information sharing capabilities over a robust and secure communications infrastructure
- Key enabler for this vision is the migration from legacy stove-piped communications to network-centric (IP-based) communications
- As the primary service provider of the GIG, DISA will interconnect heterogeneous (e.g., fixed, mobile) DoD assets across a “common core”

Goal: Provide the Warfighter with ubiquitous GIG connectivity through high capacity terrestrial and SATCOM links

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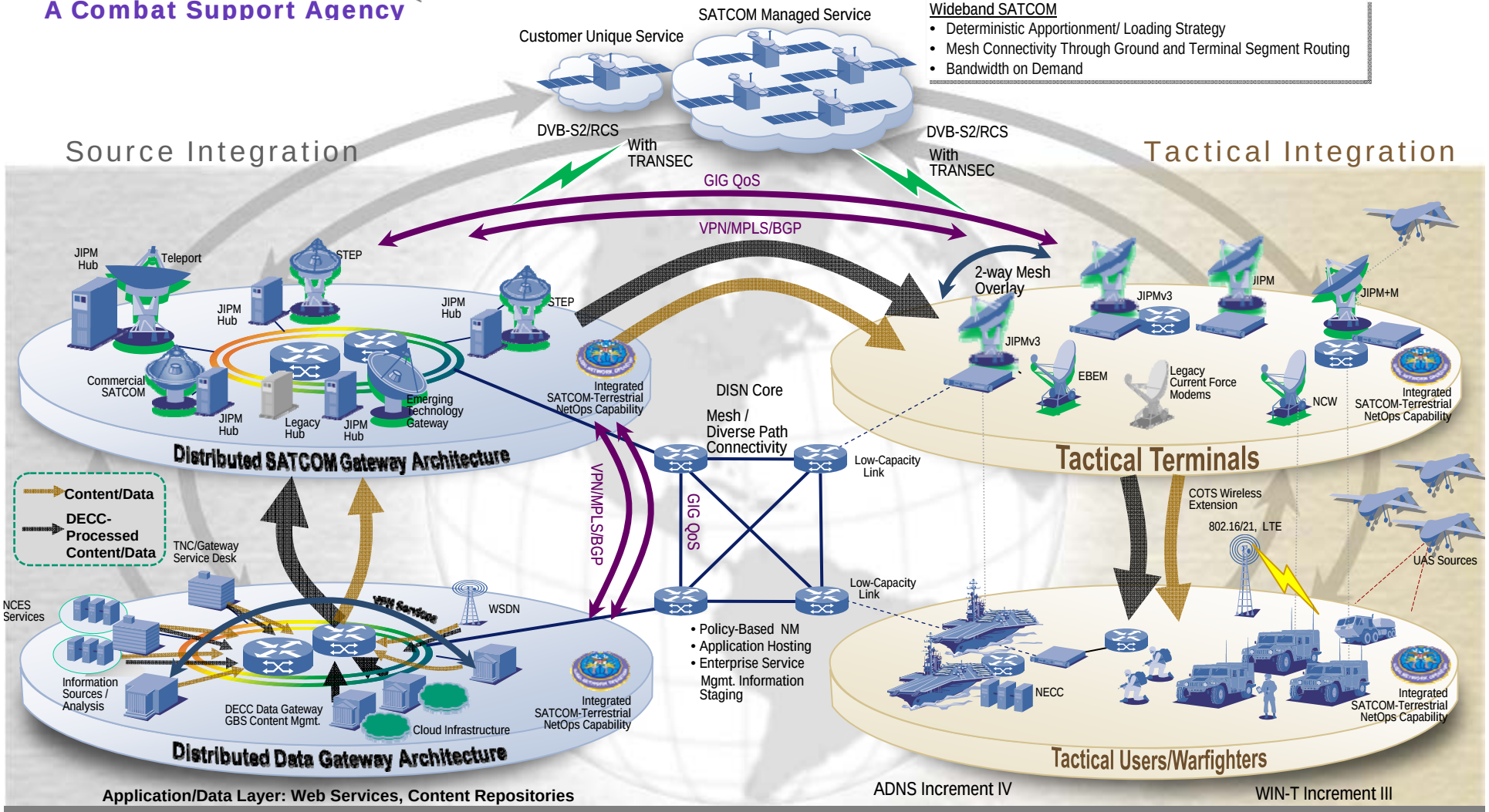
2016 Vision for Wideband SATCOM



Distributed Gateway	Deterministic Apportionment	NetOps
JIPM V3/4 at Teleport & STEP sites connected via VPN Mesh provides network diversity	Managed WGS & Commercial bandwidth allocations to meet on-demand Warfighter requirements	Policy-based network mgmt & situational awareness to meet cyber requirements

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Our Programs

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SATCOM PMO

DISN whether in the middle of the desert or at sea

terrestrial customers—using teleports

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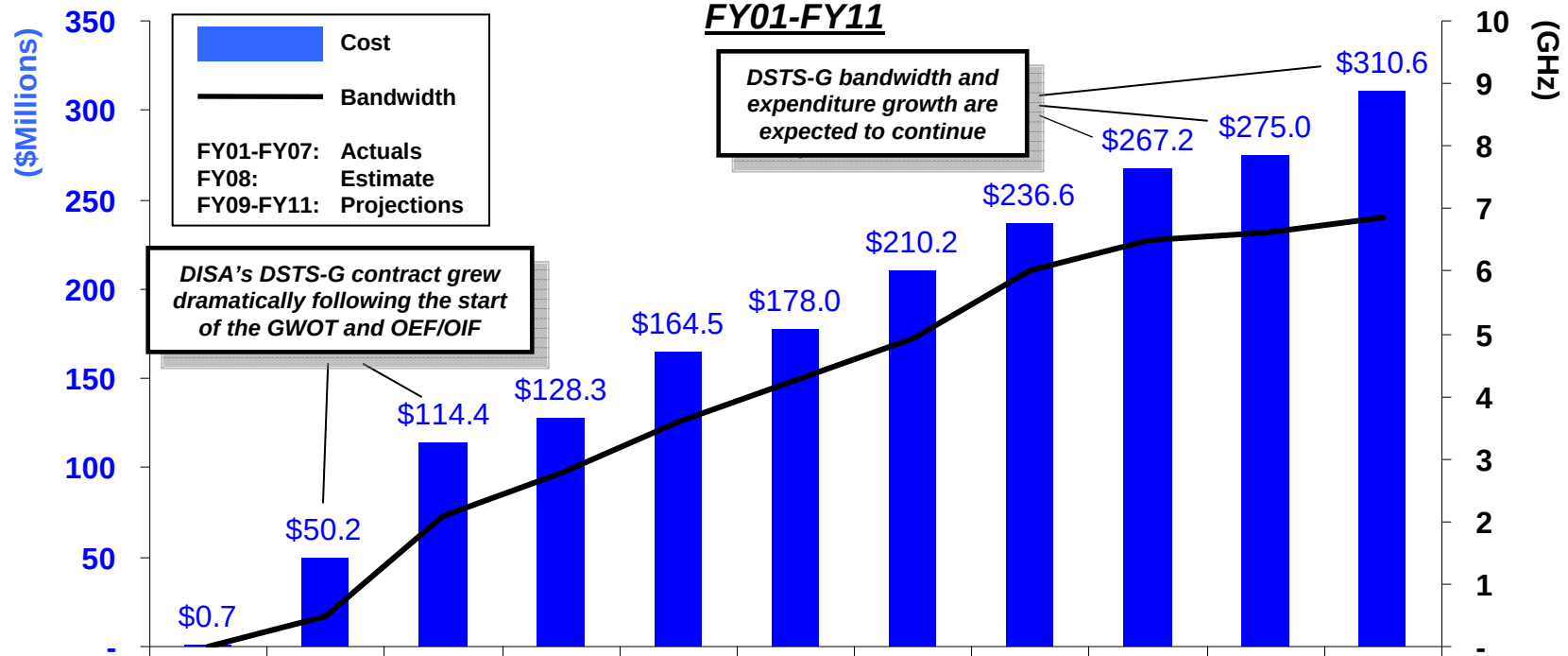
Commercial SATCOM

- DISA is DoD's only authorized source for COMSATCOM services
- Our responsiveness and cost effectiveness have made us the warfighter's provider of choice!
- DISA projects continued DoD demand for COMSATCOM services

Actual and Projected DSTS-G Costs & Bandwidth – All Task Orders FY01-FY11



FY:	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11
# of Task Orders:	6	24	45	64	91	108	125	140	163	165	172

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Commercial SATCOM Initiatives

Today…

- Improved business processes – 73% response time reduction
- Streamlined contracting fees – 50% reduction
- Improved customer satisfaction
- Implemented IA protections on DoD leases
- Providing the majority of SATCOM bandwidth for DoD
- Providing 80% of bandwidth to OIF/OEF for the Warfighters

Tomorrow…

- As most COMSATCOM is funded via supplemental dollars, pursue appropriated funding to reduce risk to the warfighter
- Support future DoD COMSATCOM apportionment initiatives
- Facilitate SATCOM technology (e.g., Joint IP Modem) use to improve efficiency and reduce overall cost
- Explore the use all available COMSATCOM services to extend DISN services to the tactical edge

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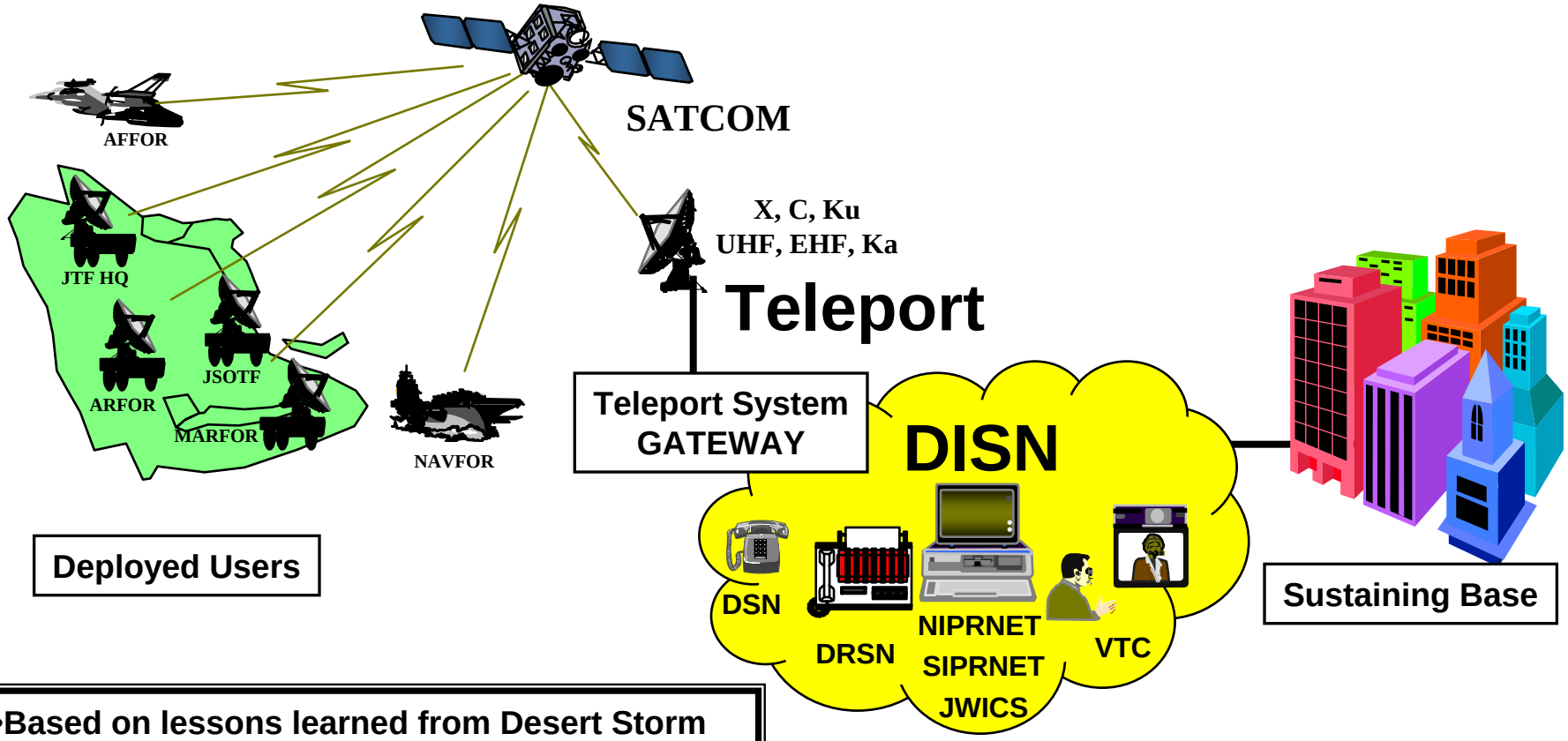
Teleport "In Context"



- Based on lessons learned from Desert Storm
- Upgrade 6 Operational DSCS sites
- Minimum 2 Teleports in View to Warfighter anywhere around the globe

DISN = Defense Information Systems Network
DSCS = Defense Satellite Communication System

Building the Dynamic Gateway for Seamless Communications Support to the Warfighter

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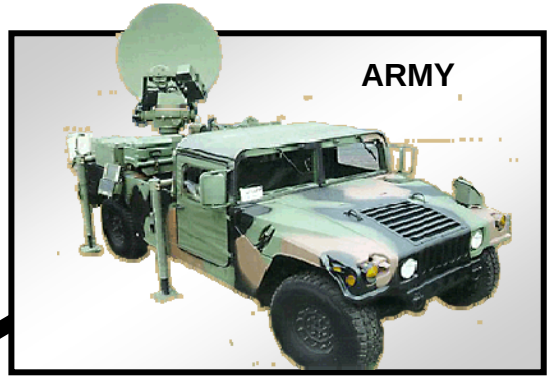
Teleport Program Overview

- Provide Critical Support for the Deployed Warfighter
  - Global Information Grid (GIG) Compliant Network Solutions
  - Enhanced Seamless Access to Critical Information Sources
- Provide High Bandwidth, Multiband, Multimode Telecommunications Transport
  - Enhanced Interoperability
- Serve as a Media "Junction" for Space and Terrestrial Information Distribution
  - Cornerstone of GIG Expansion
- Serve as a Technology Insertion Point



Teleport is the only Broadband Communications Link to the Deployed Warfighter

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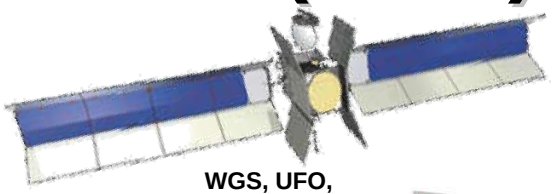
Joint Internet Protocol Modem (JIPM) Program Overview

***KEY* to Net Centric Operations for Deployed Warfighters**

- Utilizes DVB-S2/RCS Open Standards
- Ensures Interoperability
- NSA-Approved TRANSEC
- High Data Rates
- Bandwidth Efficiency



WGS, UFO, X, Ka, Ku

WGS, DSCS, UFO, Commercial (X, Ka, C, Ku)

Shared DVB-S2 Forward Link (50 Msps)

Shared RCS MF-TDMA Return Link(s) (2 Msps)

Remote VSAT

Remote VSAT

Remote VSAT

Remote VSAT

Remote VSAT

Teleport/ DoD Gateway/ SBM

NIPR

SIPR

DSN

DRSN

VTC

JWICS

Secure Delivery Node

Convergence Router

JIPM Transmission Components

JIPM NMS/ EMS

JIPM NCC

JIPM RM

Deployed Warfighters

Service, Agency, Combatant Commands

IP-based Applications and Services

NIPR

SIPR

DSN

DRSN

VTC

JWICS

Data

Voice

Video

JIPM Network Control Center (NCC) allows for Global Information Grid (GIG) Connectivity

JIPM Remote Modem (RM) allows for Tactical Local Area Network (LAN) Connectivity

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Joint IP Modem (JIPM)

- **JIPM Mission guided by OSD/Networks & Information Integration (NII) policy via DISA**
  "To support the Department's overarching goals to implement a secure means for Transmission of Internet Protocol (IP) over Department Of Defense (DOD)-Leased and DOD-Owned transponded Satellite Communication Systems in support of the war fighter"

- **JIPM supports DOD's vision for the future consolidation of satellite communications infrastructure**
  - **Cost savings/avoidance from a reduced gateway footprint**
  - **Increased interoperability within the network**
  - **Single technology growth path**
  - **Significantly less infrastructure costs to the individual Services due to investment already being made in the DOD Gateways**

- **JIPM supports Net-Centric Communications via Everything over Internet Protocol (EoIP) and transponded Satellites to Deployed Warfighters, enabling SATCOM to become a TRUE PEER to the Terrestrial GIG.**

JIPM is a mechanism for the Services to attain affordable bandwidth on demand over transponded SATCOM

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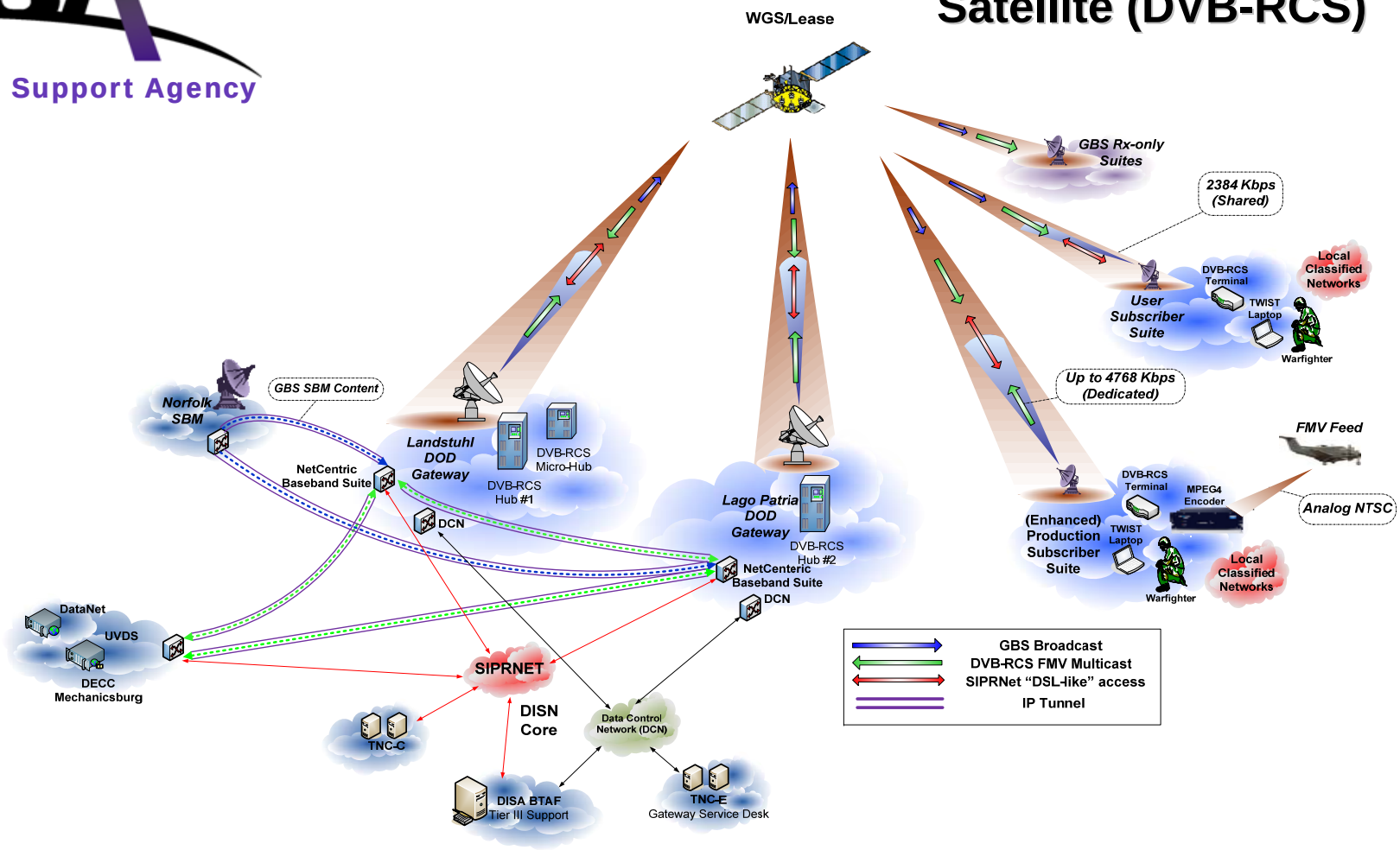
Digital Video Broadcast – Return Channel Satellite (DVB-RCS)



- **Primary Services:**
  - UAV Full Motion Video Broadcast
  - Tactical UAV backhaul
  - GBS Broadcast
- **Secondary Services:**
  - SIPRNET
  - Data File Dissemination
  - Imagery File Dissemination

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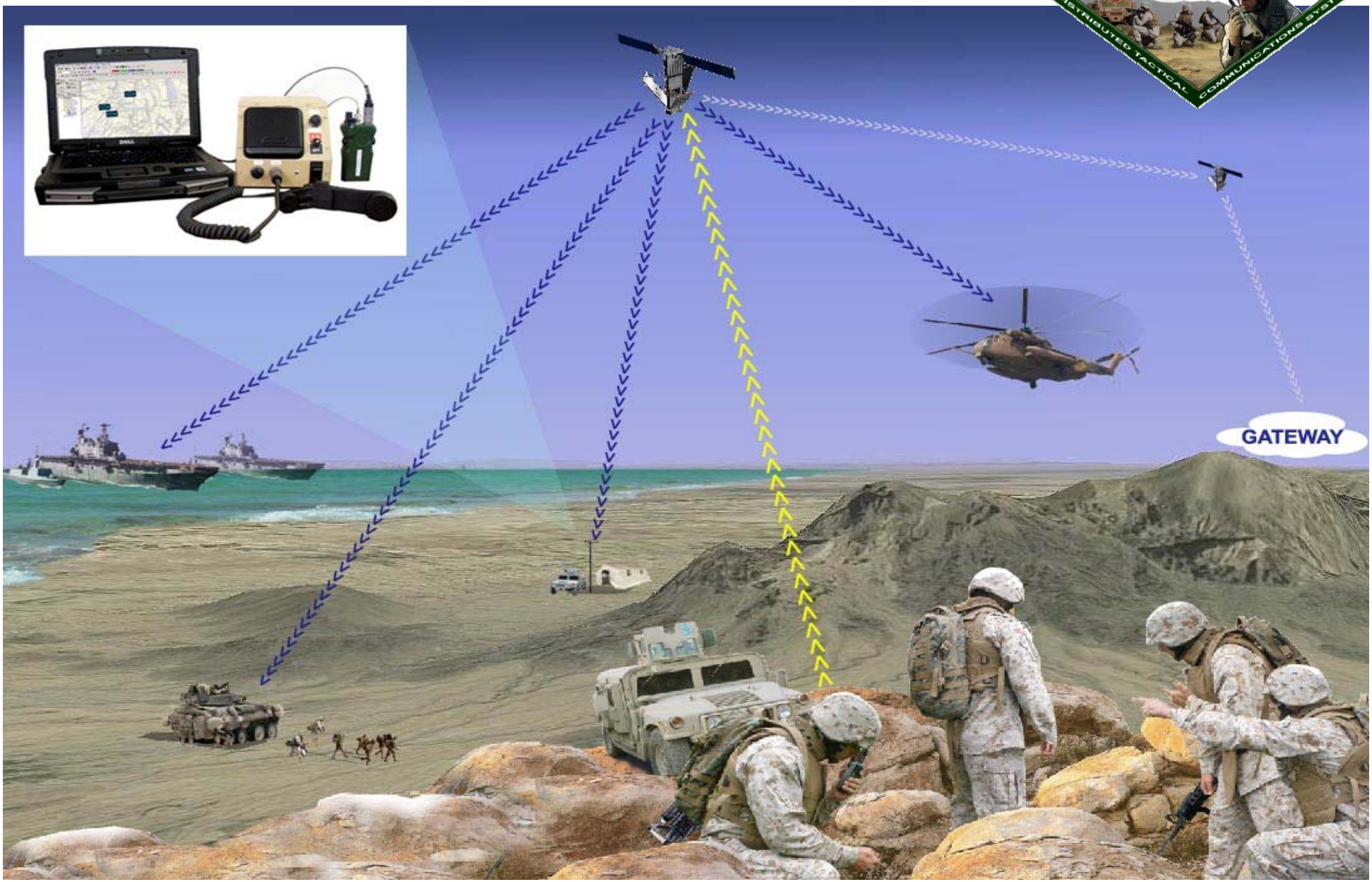
Distributed Tactical Communications System (DTCS)



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Our Acquisitions

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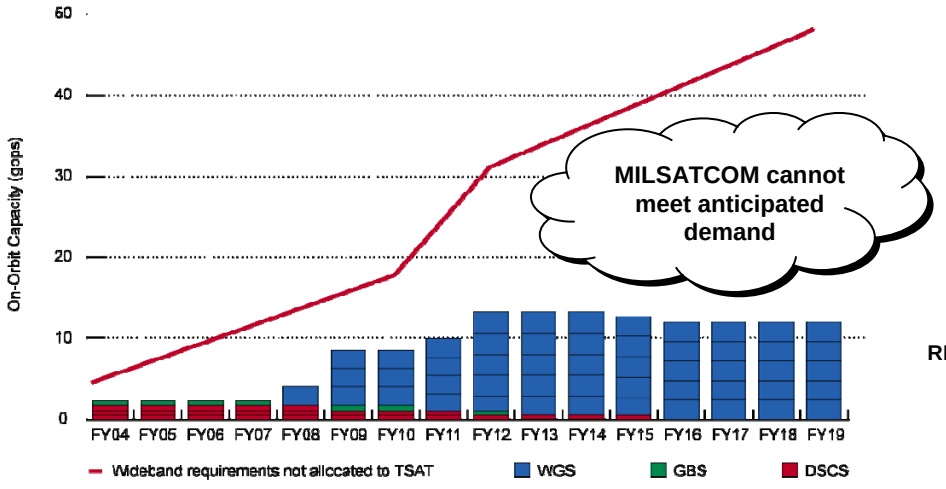
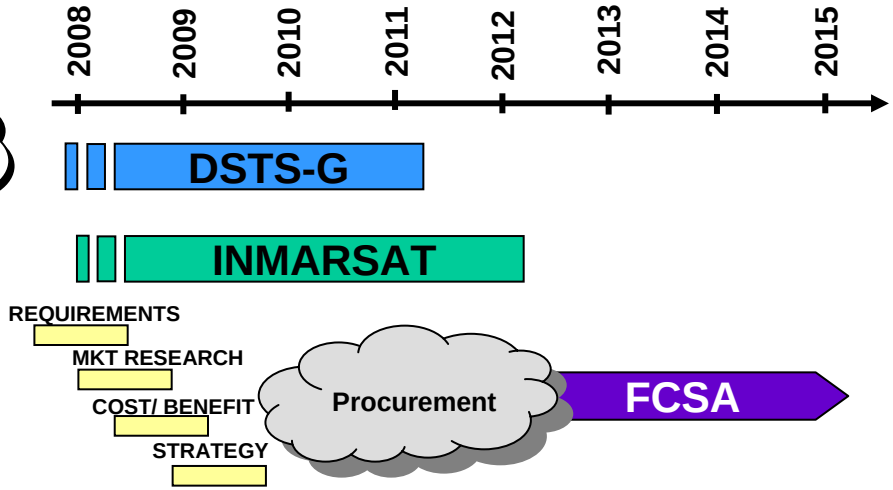
Future COMSATCOM Services Acquisition (FCSA)



DoD's SATCOM usage continues to increase in support of DoD's net-centric approach to warfare

Satellite Service Contracts



FCSA: Future COMSATCOM Services Acquistion

Objectives

- Satisfy revalidated Joint Staff capabilities
- Provide Warfighters with a flexible, best value, mechanism
- Takes advantage of future industry and user trends

Operational Flexibility is key to meeting the unique and changing needs of military users

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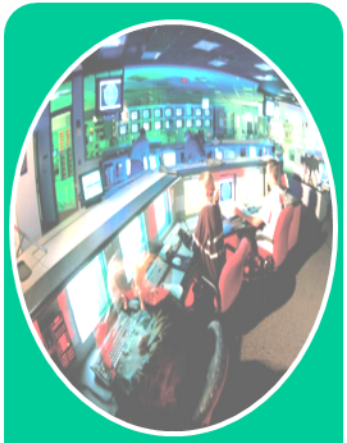
GIG Services Management Program Overview



DISN Operations & Sustainment

DISN Engineering, Transition and Implementation

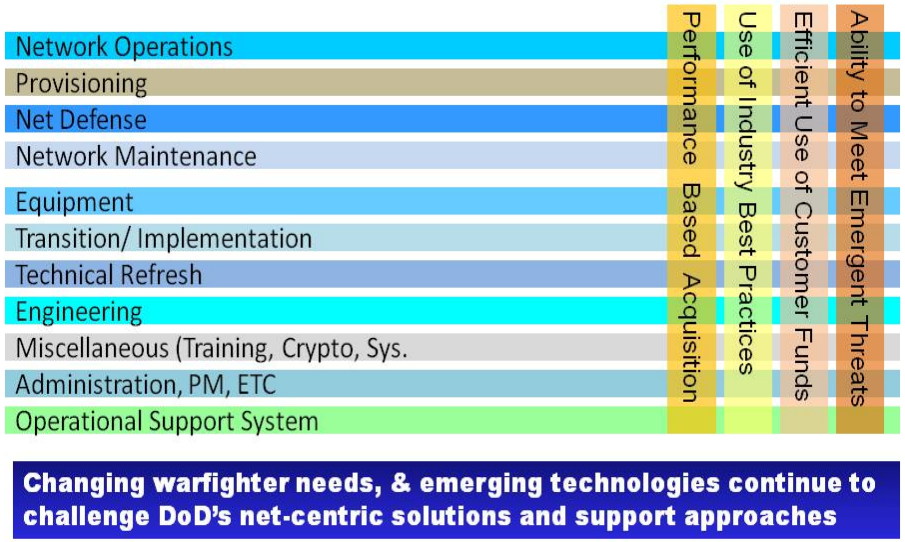
Network Defense

Request fulfillment & delivery (Provisioning)

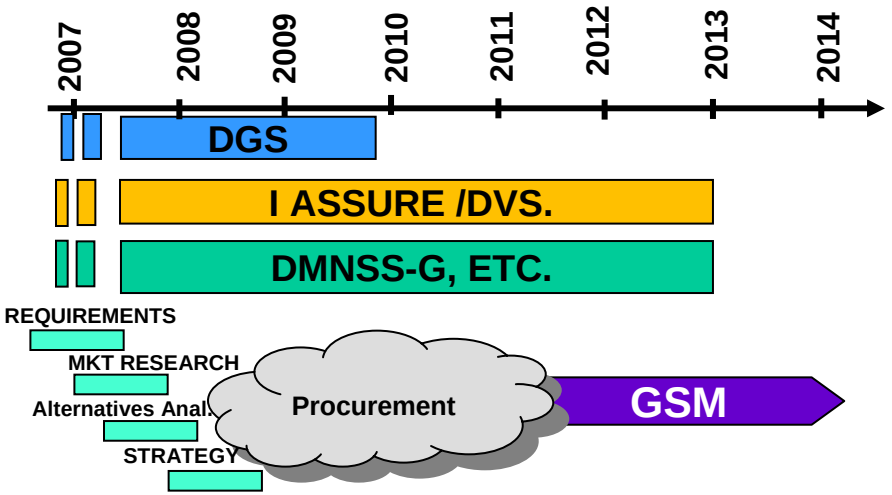
GIG Services Management

Provides performance based capabilities for all aspects of DISN Support, plus the ability to address convergence of DISA wide operations and network maintenance needs, plus the potential for vendor defined optional DISN services

Future GIG Services Management (GSM) Acquisition of Services



DISN Support Services Contracts



GSM Acquisition of Services/ Performance Baseline Manabement

Objectives

- **Provide performance based capabilities for all aspects of DISN support**
- **Provide the ability to address convergence of DISA wide operations & network maintenace needs**
- **Provide vendor defined optional DISN services such as network capacity on demand**

Performance based DISN services support today, flexibility to meet GIG information and communications technology requirements for the next Decade.

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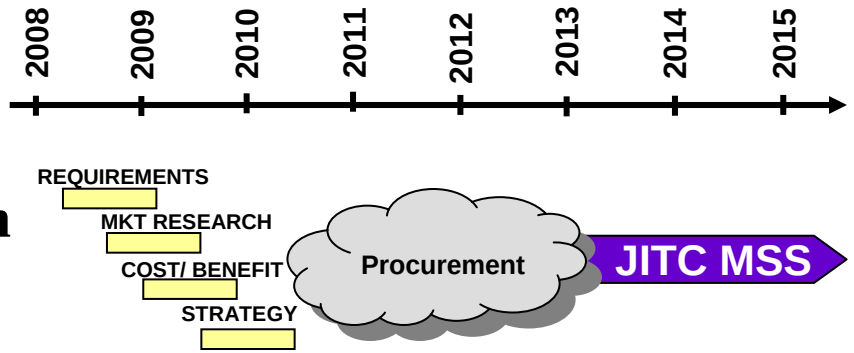
Joint Interoperability Test Command (JITC)

Mission Support Service Contract

•**Mission Statement: JITC conducts DOD-wide Systems of Systems joint interoperability test, certification, operational testing, and analysis to enhance combat effectiveness and support investment decisions in Warfighting, National Intelligence, and Business mission areas**

•**Current Contract Scope: Supports JITC's mission by performing scientific, engineering, logistic, administrative, acquisition, and ancillary support**

•**JITC will continue to require such support - way ahead under investigation**



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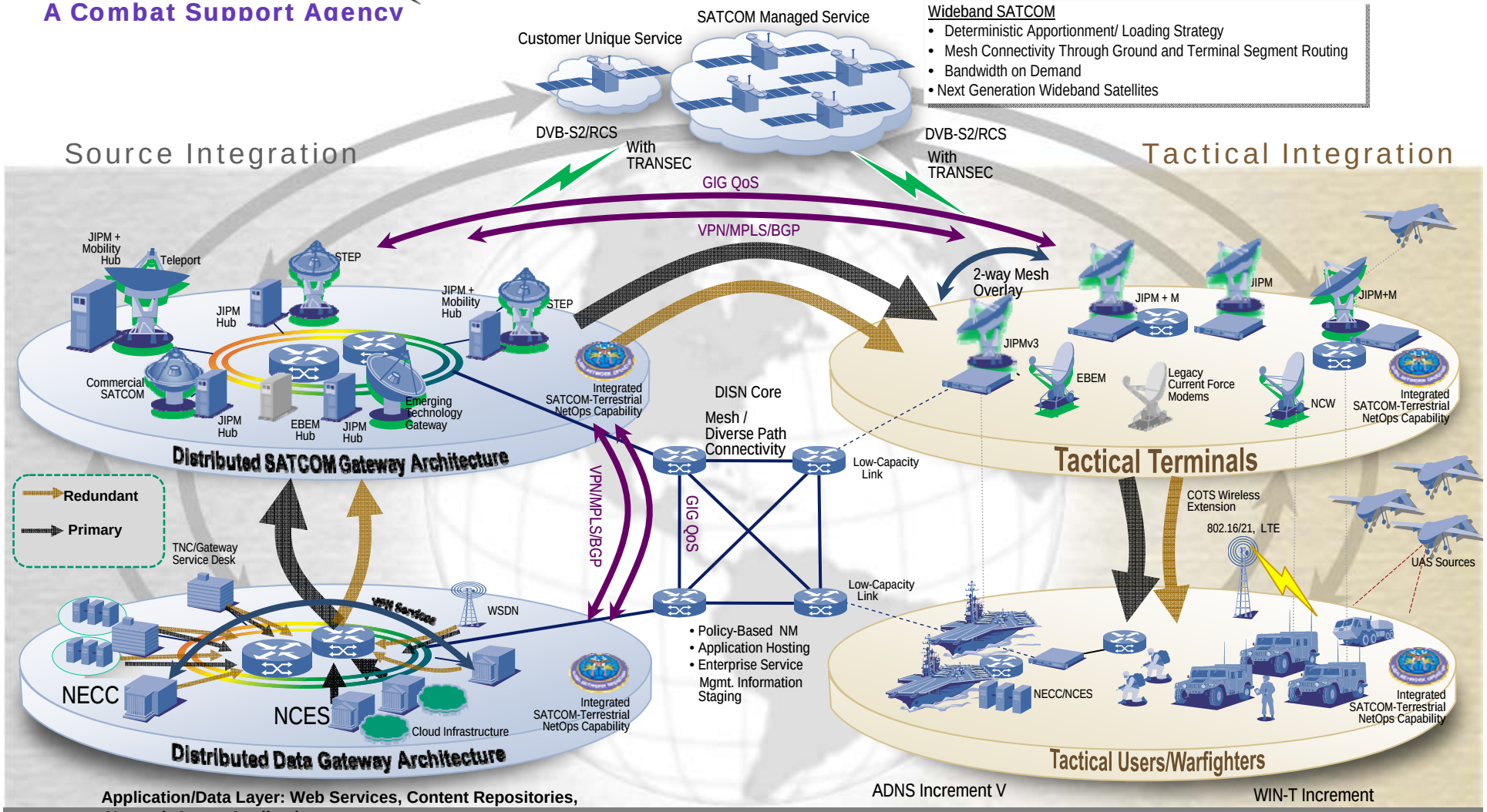
2020 Vision for Wideband SATCOM



Distributed Gateway	SATCOM Services	NetOps
Full convergence of IP operations with Terrestrial Services. Automated Flow routing.	Convergence of Narrowband, Wideband, Protected, and Commercial offerings into a dynamic and flexible resource	Policy-based network mgmt & situational awareness to meet cyber requirements

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