



Defense Information Systems Agency

A Combat Support Agency

# **Network Services Forecast to Industry**

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# Elements of the DISN

Centralized Services (Customer Serv/OSS) / DISN Business Services	<b>Exploiting Economies Of Scale</b>	TRANSPORT (Common User)	DISN ATM Service (DATMS) IDNX / Promina Network Enhanced SONET (ESONET)	
		<b>Muxed Svcs</b>		
		<b>Physical Layer</b>	DISN CONUS (DISN-C/DATS) DISN Core (SONET/Optical) JHITS Hawaii (JHITS Transport) (Non DSS) Digital European Backbone (DEB) Puerto Rico Area Wideband System (PRAWS)	
	Functional Networks	VOICE	(Unclassified) (Unclassified) (Classified (S-TS)) (Classified (SCI))	Defense Switched Network (DSN) JHITS Hawaii local service (JHITS Switch) (Non DSS) Defense Red Switch Network (DRSN) Joint Worldwide Intelligence Communications System (JWICS) <i>Circuit Switched</i>
		VIDEO	(Common User (U-TS)) (Classified (SCI))	DISN Video Services - Global (DVS-G) Joint Worldwide Intelligence Communications System (JWICS) <i>Circuit Switched</i>
		DATA	(Unclassified) (Classified (S)) (Classified (SCI))	Unclassified but sensitive IP Router Network (NIPRNET) Secret IP Router Network (SIPRNET) Joint Worldwide Intelligence Communications System (JWICS) DISN Leading Edge Services (LES) <i>IP Based</i>
Apps	MESSAGING	(Unclassified) (Classified (S-TS))	Defense Messaging System (DMS) Defense Messaging System (DMS)	
	SATELLITE	(Unclassified)	Enhanced Mobile Satellite Services (EMSS) (Non DSS)	

# DISN Backbone



## NETWORKS

- Secret IP Router Network (SIPR)
- Not-Classified IP Router Network (NIPR)
- Defense Switched Network (DSN)
- Defense Red Switch Network (DRSN)

**CONUS: 3277 GBS**

Optical Switching  
N x OC-192

**EUROPE: 450 GBS**

**PACIFIC: 150 GBS**

**SWA: 4.4 GBS**

4 x OC192

## TOTAL CAPACITY

**FEB 05**



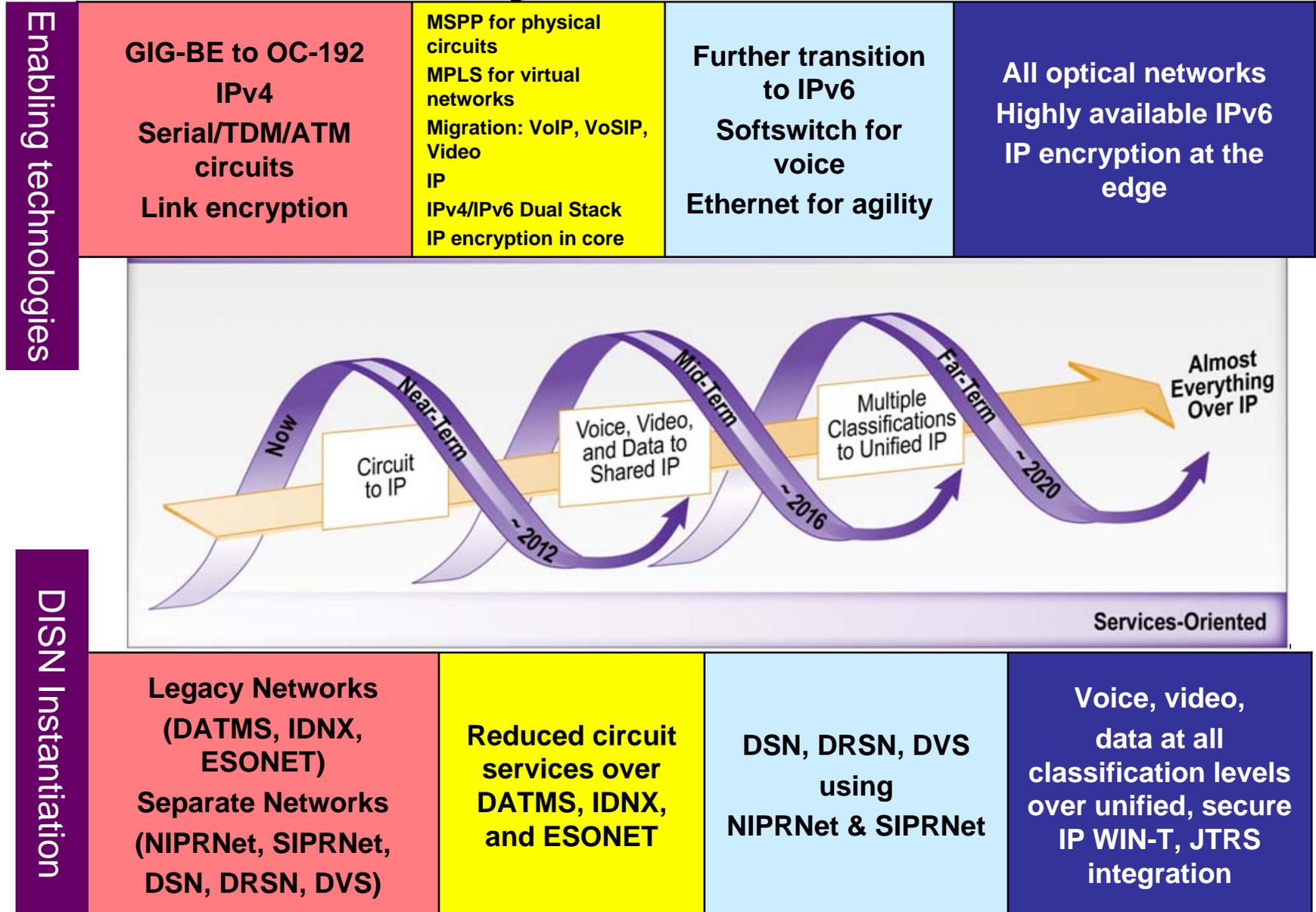
**FEB 09**

**480 GBS**

**3942 GBS**



# Net-Centric Communications Implementation



# On the Horizon for DISN

Contract/Task/Area of Support	Anticipated Start Date
FY10	
DISN Video – Maintaining current managed service contract. Future video and collaboration being addressed outside of Network Services.	TBD
DISN Equipment – Acquire equipment and components necessary for DISN expansion, DISN technical refresh, and DISN upgrades. Equipment current acquired using DGS and other contract sources	As needed
<p>Technology Refresh (Near-term) - Identify and evaluate approaches and contractual alternatives leading to a recommended solution for:</p> <ul style="list-style-type: none"> <li>- Maintaining the DISN operational infrastructure</li> <li>- Upgrading end-of-life products</li> <li>- Ensuring timely insertion of technological upgrades and new equipment</li> <li>- Managing the DISN services</li> </ul>	On-going

# On the Horizon for DISN

Contract/Task/Area of Support	Anticipated Start Date
FY10 – FY17	
DISN Access and backbone circuits	<p style="text-align: center;">DISN Access Transport Services -- ongoing            DITCO Bulletin Board -- ongoing            DISN Transport Service-Pacific (DTS-P II) -- ongoing</p>
FY11	
DISN IP Video extension to NIPRNET	FY12
FY11 – FY17	
<p>DISN Technology Refresh            Equipment Future - DISN Optical, SONET and IP Core transition technology refresh, plus equipment to support DISN expansion, upgrades, and improvements</p>	<p>Technology Refresh engineering analysis underway.            Acquisition date TBD.            Acquired competitively using NASA SEWP</p>

# On the Horizon for DISN

Contract/Task/Area of Support	Anticipated Start Date
FY11 – FY16	
Programmatic, engineering services, and related support services of the life cycle management for the Defense Networks, and its extensions	Alliant Small Business (GSM-Programs and Support) Start 1QFY11
FY11 – FY16	
Engineering, transition, and implementation services to perform life cycle sustainment, expansion, updated, and technical refresh of the DISN and related telecommunications services	GSM-ETI (Small business multiple award FY11) (Managed by PEO-STS)
FY11 – FY18	
Operations services to perform day to day operations of the DISN and related telecommunications services	GSM-Operations (award FY11) (Managed by PEO-STS)

# Summary

- Simultaneously transitioning multiple services onto higher bandwidth cores
  - Leading the Department's efforts in moving toward net-centric operations and warfare
  - Terminating expiring contracts with a combination of government-owned core with contractor-operated SONET and video services that takes advantage of both government and contractor capabilities
  - Adapting to the changing budgetary and operational environments
  - Keeping pace with change
- Moving to implement approved GSM acquisition strategy

**Converging Voice, Video and Data...Posturing for Everything over IP**

