The information provided in today’s briefings is for general information purposes only. It does not constitute a commitment on behalf of the United States Government to provide any of the capabilities, systems, or equipment presented and in no way obligates the United States Government to enter into any future agreements with regard to the same. The information presented may not be disseminated without the express consent of the United States Government.
Forecast to Industry 2018

Infrastructure Directorate

Mr. Charles Osborn
Acting, Infrastructure Executive
5 November 2018
A global enterprise network that enables information superiority and critical communications

The core of the Department of Defense (DoD) Information Network (DoDIN)

A combined campaign of DoD owned and leased telecommunications networks, undersea and terrestrial transport, satellites, gateways, subsystems, and operations support to:

- **Enable** the U.S. Military and mission partners to leverage, sustain and exercise the distinct advantages over our adversaries by ensuring that the voice, video and data traversing the DISN are immune from unfriendly attacks and are able to operate in a degraded environment
- **Support** command and control, intelligence, logistics, medical, and other essential missions across the full spectrum of military operations
- **Connect** Warfighters with each other and their sustaining bases; U.S. Forces to their coalition partners; and DoD to intelligence, federal, state, and local agencies
- **Integrate & Deliver** capabilities fluidly across domains, ranks, U.S. Territories and Allies
DISN’s Operational Focus

Deliver Senior Leadership Command and Control and Cybersecurity Sovereignty

Allow Commanders to conduct Joint Operations through a resilient, robust, secure and normalized network

Support Warfighter missions by providing access to a global network that is virtual, intelligent, consolidated, secure, elastic, provisioned and managed in real time

Homeland Defense Drug Interdiction
USSOUTHCOM/ USNORTHCOM

Jukebox Lotus/ Juniper Micron/ Juniper Nimbus
USAFRICOM

Inherent Resolve, Iraq/ Syria
USCENTCOM

Freedom Sentinel, Afghanistan
USCENTCOM

Resolute Support, Afghanistan
USCENTCOM

Operation Gladiator Shield
USCYBERCOM

The Unblinking Eye
USSOCOM

Atlantic Resolve
USEUCOM
**DISN Network Infrastructure**

**SATCOM Portfolio**
- DoD Teleport ACAT 1AC Program Office
- Enterprise Gateways Program Office
- Unified Video Dissemination System - Airborne Intelligence, Surveillance, and Reconnaissance
- Digital Intermediate Frequency
- Enhanced Mobile Satellite Services*
- Commercial SATCOM*

**Network Portfolio**
- Terrestrial Transport
- Gateways
- Senior National Leadership Communications
- Special Services

**Key Statistics**
- 12.5 Tbps Backbone
- 14,800 Managed Devices
- 38,900 Optical Fiber Miles
- 17,000 Circuits
- 1,100 Worldwide Locations
- 150K+ Worldwide Users
- 100+ Nations
- 10 Internet Access Points
- 8 Mobility Gateways
- 48 Satellite Gateways
- 14,800 Managed Devices
- 38,900 Optical Fiber Miles
- 17,000 Circuits
**United In Service**
- Centralized global management framework focused on the warfighter
- Expanding the service portfolio to meet changing mission needs
- Enhanced situational awareness providing superior cyber security and perimeter protection against threats

**Connecting The User**
- Access to any data, any device, anywhere
- Single point of entry
- Global, high bandwidth satellite coverage
- Encrypted & protected data
- High bandwidth & secure Internet and telephone network access

**Evolving The Network**
- Service layer converged on a common resilient IP core
- Dynamic congestion control and enhanced network quality of service
- Auto-provisioning and network function virtualization
- Resilient & survivable network infrastructure
- Next generation self-recovering optical transport network
- Transport layer security via DISN edge-to-edge encryption
- 400 Gbps link capacity
- Integrated, automated IP-optical network capacity management

**Emerging DISN Services**
- Everything over IP (EoIP) Service
- High Data Rate Wavelength Service
- Bandwidth Calendaring
- On Demand Capacity
- High Data Rate SATCOM Service
- Virtualized Network Function Service
DISN Transport of the Future

From the Foxhole to the Pentagon: Leveraging Industry-Proven Capabilities for Terrestrial, Airborne & Space

End-to-End Encryption
Assured Identity
Software Defined
Resilient / Multilayered

Military/Commercial SATCOM

Airborne Command & Control
Global Communications Reach

COTS Mobile Devices
5G LTE MiFi

Cellular on Wheels
SATCOM MiFi 5G LTE LiFi

Tactical Spectrum
Unlicensed (LTE-U/LAA)

Strategic Spectrum

Low & Mid Earth Orbit SATCOM

A-ISR

WAVE Integration
5G LTE(U) Radio Data A-ISR

SATCOM & Network Transport

NIPR / SIPR / JWICS

DISA JFHQ/DODIN

5G LTE MiFi

5G LTE MiFi

5G LTE LiFi
IE TOP Priorities
1 - DISN Enhancements

Quality of Service
FY2019

Software Defined Network
FY2019

Universal Gateway
FY2020

Next Generation Optical Network
FY2019

Commercial Ethernet Gateways
FY2019

DoD SATCOM SUNS IP Optimization
FY2020

CSfC DECTK

Multiprotocol Label Switching (MPLS) Router Network
FY2019

Trans-Oceanic Upgrades
FY2019
IE TOP Priorities

2 - Legacy Elimination

TDM Elimination
FY2023

NIPRNet Virtualized Routing and Forwarding / Consolidation
FY2019

SIPRNet Access Migration
FY2019

Defense Red Switch Network – TDM to IP
FY2019
IE TOP Priorities
3 – Survivable Infrastructure

Networking 101 - DISA Computing Center Connectivity
FY2020

Increasing Redundancy and Resiliency
FY2020

Standard Core Architecture in PAC & SWA
FY2020

Transmission Security
FY2023

Mid-Earth Orbit Satellite Transport
FY2019

CONUS IP Network Redesign
FY2019
IE TOP Priorities
4 – Satellite Improvements

A-ISR Transport
FY2019

Enhanced Mobile Satellite Services
FY2019*

Teleport Generation 3 Phase 2
FY2020

Teleport Generation 3 Phase 3
FY2019

MLGC/MVG & IW Enhancement
FY2019 and FY2020

Enterprise SATCOM Gateway Modem
FY2020

MILSATCOM Gateway Right-Sizing
FY2021

SATCOM Gateway Global Broadcast Service (GBS)
FY2021

Global Broadcast Service (GBS) Encryption Implementation
FY2019

Unified Video Dissemination System (UVDS) Enhancements
FY2019
IE TOP Priorities
5- DISN Technology Refreshment

- **Domain Name System**
  - FY2019

- **Internet Access Point**
  - FY2019

- **SIPRNET Refresh (Ethernet Security Specification)**
  - FY2020

- **Secure Communications Interoperability Protocol (SCIP) Gateway**
  - FY2019
Acquisition Opportunities
FY19 & Beyond
### Acquisition Opportunities

<table>
<thead>
<tr>
<th>Project Title &amp; Description</th>
<th>Program Office</th>
<th>RFP / Projected Award</th>
</tr>
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<tbody>
<tr>
<td><strong>Enhanced Mobile Satellite Services (EMSS)</strong> EMSS Customer order fulfillment of Iridium Mobile Satellite equipment and accessories. 24/7/365 support including both help desk and provisioning services.</td>
<td>DISA IE21 AFSPACE</td>
<td>Full and Open Competition Single Award IDIQ RFP: 1QFY19 Projected Award: 3QFY19</td>
</tr>
<tr>
<td><strong>CSS0087</strong>: Inmarsat Aeronautical, VHF Data Link, and DirecTV commercial satellite services in support of USAF Airborne Command Post missions.</td>
<td>DISA IE22 AFSPACE</td>
<td>Full and Open Competition GSA IT Schedule 70 Task Order RFP: 1QFY19 Projected Award: 2QFY19</td>
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| **CTC0307 Blanket Purchase Agreement (BPA) for USAFRICOM**  
Multiple use bandwidth with coverage of the USAFRICOM AOR and reach-back to Europe          | DISA IE22 AFSPACE | Full and Open Competition  
GSA Schedule 70 SIN 132-54  
RFP: 1QFY19  
Projected Award: 2QFY19                                                      |
| **CS30001 Wideband Enterprise Satellite Systems (WESS) COMSATCOM Network**  
Space segment, teleport services, terrestrial interconnection services, and ancillary support services. | DISA IE22 AFSPACE | Full and Open Competition  
Complex Custom COMSATCOM Solutions (CS3) Task Order  
RFP: 1QFY19  
Projected Award: 3QFY19                                                  |
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<td><strong>CTC0308 Joint SATCOM Engineering Center (JSEC)</strong> Ku-band space segment to support TDMA networks world-wide</td>
<td>DISA IE22 AFSPACE</td>
<td>Small Business set-aside GSA Schedule 70 SIN 132-54 RFP: 3QFY19 Projected Award: 4QFY19</td>
</tr>
<tr>
<td><strong>Communications Center/Gateways &amp; Satellite Systems Engineering &amp; Technical Assistance (SETA) Contract.</strong> Provides for comprehensive program management, integration, technical, operational, life cycle sustainment, migration, transition, and financially oriented support.</td>
<td>DISA IE23</td>
<td>Small Business set-aside Vehicle: TBD RFP:1QFY19 Projected Award: TBD</td>
</tr>
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| **Gateway Defense Information Service Network (DISN)/ Internet Protocol Satellite Communication (IP SATCOM) Integration and Engineering Support.** Provides for program management, integration, operational, life cycle sustainment, transition support for all aspects of engineering and integration support. | DISA IE23       | **Full and Open Competition**  
Vehicle: TBD  
RFP: 2QFY19  
Projected Award: TBD                                                    |
| **The Unified Video Dissemination System Engineering Supportive Service Contract.** The objective of the contract is maintain the baseline UVDS service will planning the development and execution of a full UVDS Enterprise solution beyond the early implementation of the UVDS service. | DISA IE23       | **Full and Open Competition**  
Vehicle: TBD  
RFP: 2QFY19  
Projected Award: TBD                                                    |
# Acquisition Opportunities

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| Global Content Delivery Service II – Re-Compete (GCDS) Content Delivery, storage, streaming, WAF services in support of the DOD community | DISA IE/IE7/IE74 | Full and Open Competition Vehicle: TBD  
RFP: 2QFY19  
Projected Award: 1QFY20 |