Forecast to Industry 2017

Networking Technologies

Mr. Jessie L. Showers Jr.
Infrastructure Executive
6 November 2017
Mission
Implement and sustain the global transport, voice, video and data network infrastructure and provide Information superiority to the President, Combatant Commanders, Senior Leadership, Services, Agencies and Warfighters

Vision
World class DoD Information Network (DoDIN) capabilities for our mission partners

- Worldwide staff - 1100+ Civilian, Military, and Contractor
- Sustains and optimizes DISN infrastructure at 3500 locations in 26 Nations
- Manage terrestrial and undersea transport, satellite and gateways, and Multinational Info Systems
UNITED IN SERVICE TO OUR NATION

DISN Grand Design – Evolution Vision
FY 2023

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
- QoS oriented network architecture
- 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
Transport of the Future

From the Foxhole to the Pentagon: Terrestrial – Airborne – Space
DISN Enterprise Infrastructure and Services

Robust, diverse, resilient, and protected communications and computing environment enabling the warfighter.
DISN Technology Refreshes

- Legacy Elimination
- Grey Service Implementation
- Secure Communications IP & Commercial Ethernet Gateway Implementation
- Low-Speed TDM Elimination
- MPLS Implementation
- Classified & Unclassified Router Aggregation Implementation
- Voice Internet Service Provider Implementation
- Enterprise Classified & Unclassified Voice & Video Over IP
- Single Point of Failure Elimination
- DRSN TDM to IP Implementation
- Legacy Optical Elimination
- Next Generation Optical (100G/Packet Based)
- Timing & Synchronization
- Transmission Security
- Software Defined Networking
Network Portfolio
Programs, Services, Support, and Technologies

Terrestrial Transport
- DISN Optical Transport Network (OTN)
- DISA-managed Optical Fiber with IRU leases
- DISN Secret & Unclass Common Data Services (SIPRNet and NIPRNet)
- VPN Services (Private IP, Label Transport, and Private LAN)

Gateways
- DoD Enterprise Travel Kit (DECTK)
- Organizational Messaging Service (OMS) consisting of National /Allied Gateways

Special Services
- Requirements analysis, impact assessments, telecom services and support
- Enterprise DNS Management
- Secret Service Communication and Special
- Events support

Multi-National Information Sharing
- Sustainment and support of coalition networks and capabilities

Senior National Leadership Communications
- Communications for US Defense / National Leadership, allies, and other foreign nations
SATCOM Portfolio
Programs, Services, Support, and Technologies

Gateway & Teleport Programs
- Leading evolution and integration of Enterprise Gateway services
- SATCOM Path diversity & resiliency
- Suite of products & services

AISR/UVDS
- Global AISR transport from UAV to DoDIN
- Centralized location for real time access to ISR FMV
- Web portal services
- Robust, Redundant & Scalable

PATHFINDERS
- Examining innovative approaches to Enterprise-wide COMSATCOM acquisition and management

Digital IF
- Improved SATCOM resiliency & path diversity
- Increased MIL/COM Interoperability

EMSS
- Global Reach Communications
- Phone/Messaging
- Short-Burst-Data (SBD)
- One-way Global Data Broadcast & Paging
- Distributed Tactical Communications System (DTCS)

COMSATCOM Services
- COMSATCOM procurement & leasing
- Enterprise-wide strategic planning & analysis
- Systems Engineering

Satellite Unified NetCentric System (SUNS)
<table>
<thead>
<tr>
<th>Project Title &amp; Description</th>
<th>Program Office</th>
<th>RFP / Projected Award</th>
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</thead>
<tbody>
<tr>
<td>GSM-Operations (GSM-O) II Operations, Sustainment and Maintenance activities of the DISN/DoDIN</td>
<td>DISA OC IE</td>
<td>Single Award IDIQ Full &amp; Open Competition RFP: 4QFY18 Projected Award: 3QFY19</td>
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<tr>
<td>CTC0290 – American Forces Network (AFN) Global C-band for distribution of AFRTS SatNet and Direct to Sailor television and radio services; Ku-band for distribution of SatNet Direct to Home service in Asia</td>
<td>DISA OC IE</td>
<td>Single Award TBD RFQ/RFP: 1QFY18 Projected Award: 2QFY18</td>
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<td>CTC0285 – United States Air Forces Central Command (USAFCENT) Commercial Satellite Bandwidth for Operation Inherit Resolve; 144 MHz Ku-band covering Southwest Asia and Europe</td>
<td>DISA OC IE</td>
<td>Single Award GSA IT Schedule 70, SIN 132-54 RFQ: 1QFY18 Projected Award: 3QFY18</td>
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<td>Project Title &amp; Description</td>
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<tr>
<td><strong>Technology Refresh</strong></td>
<td>DISA OC IE</td>
<td>Multiple Awards</td>
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</table>
| Replaces equipment with a new or next generation product to avoid issues related to security, software updates and hardware replacement/end of life. | | • MPLS  
• Optical  
• Timing and Synchronization  
• Voice over IP  
• Internet Access  
• Operational Support Systems |
| **CTC0293 – United States Marine Corps COMSATCOM Services** | DISA OC IE | Single Award  
GSA IT Schedule 70, SIN 132-54  
RFQ/RFP: 1QFY18  
Projected Award: 3QFY18 |
| World-wide bandwidth, teleport services, terrestrial backhaul services, host nation support services, bandwidth management, portability | | |
| **CTC0287 – MQ-1C Grey Eagle COMSATCOM Services** | DISA OC IE | Single Award  
GSA IT Schedule 70, SIN 132-54  
RFQ/RFP: 1QFY18  
Projected Award: 2QFY18 |
<p>| Southwest Asia, Afghanistan bandwidth | | |</p>
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<tr>
<td>CTC0294 – U.S. Army Network Enterprise Technology Command (NETCOM) Pacific Bandwidth</td>
<td>DISA OC IE</td>
<td>Single Award GSA IT Schedule 70, SIN 132-54 RFQ/RFP: 1QFY18 Projected Award: 2QFY18</td>
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<td>260 MHz with coverage of Japan, Guam, and Korea</td>
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<td>CSS0077 – Maritime Services Blanket Purchase Agreement (BPA)</td>
<td>DISA OC IE</td>
<td>Single Award GSA IT Schedule 70, SIN 132-55 RFQ: 1QFY18 Projected Award: 2QFY18</td>
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<tr>
<td>Inmarsat L-band and Global Xpress services</td>
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<tr>
<td>TBD – Military Sealift Command COMSATCOM Services</td>
<td>DISA OC IE</td>
<td>Single Award TBD RFQ/RFP: 1QFY18 Projected Award: 2QFY18</td>
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<tr>
<td>World-wide bandwidth, teleport, and engineering support services</td>
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<td>TBD – Defense Wide Transmission Systems (DWTS) COMSATCOM Network (DCN)</td>
<td>DISA OC IE</td>
<td>Single Award</td>
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<td>World-wide bandwidth, teleport services, terrestrial backhaul services, host nation support services, system engineering, hardware, software</td>
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<td>RFQ/RFP: 1QFY18</td>
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<td>Projected Award: 3QFY18</td>
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<tr>
<td>CTC0288 – United States Northern Command (USNORTHCOM) Defense Support of Civil Authorities (DSCA) Network</td>
<td>DISA OC IE</td>
<td>Single Award</td>
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<td>Bandwidth, gateway services (including telephone and Internet)</td>
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<td>GSA IT Schedule 70, SIN 132-55</td>
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<td>RFQ: 1QFY18</td>
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<td>Projected Award: 2QFY18</td>
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<tr>
<td>CSS0080 – Defense Logistics Agency (DLA) COMSATCOM Services</td>
<td>DISA OC IE</td>
<td>Single Award</td>
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<td>Managed services with teleport service and public internet in each of the coverage areas; coverage includes CONUS, Hawaii, Alaska (south of 65˚N and east of 165˚W), Korea, and Afghanistan</td>
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<td>GSA IT Schedule 70, SIN 132-55</td>
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<td>RFQ: 1QFY18</td>
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<td>Projected Award: 2QFY18</td>
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<td><strong>CSS0074 – Aeronautical Services Blanket Purchase Agreement (BPA)</strong> Inmarsat L-band and Global Xpress services</td>
<td>DISA OC IE</td>
<td>Single Award GSA IT Schedule 70, SIN 132-55 RFQ: 1QFY18 Projected Award: 2QFY18</td>
</tr>
<tr>
<td><strong>MNIS Capability Support Services for the Combatant Commands</strong></td>
<td>DISA OC IE</td>
<td>Pending RFP: 1QFY18 Projected Award: 2QFY18</td>
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<tr>
<td><strong>Gateway Consolidated Satellite Systems</strong></td>
<td>DISA OC IE</td>
<td>GSA Alliant SB (P&amp;S) RFP: 1QFY18 Projected Award: 3QFY18</td>
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<td>CSS0082 – Low Latency, High throughput Ka-Band Satellite Service Blanket Purchase Agreement (BPA)</td>
<td>DISA OC IE</td>
<td>Single Award GSA IT Schedule 70, SIN 132-55 RFQ/RFP: 2QFY18 Projected Award: 3QFY18</td>
</tr>
<tr>
<td>Design, Transition and Operation (DTO) Support Services</td>
<td>DISA OC IE</td>
<td>Pending RFP: 2QFY18 Projected Award: 3QFY18</td>
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<tr>
<td>Provide network engineering services to directly support the MNIS PMO in the design, transition and operation of MNIS networks, which directly support U.S. military forces, NATO, and U.S. Coalition members with critical war planning and warfighting capabilities.</td>
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<td><strong>EMSS Services Acquisition and Customer Support, Equipment (SACSE)</strong></td>
<td>DISA OC IE</td>
<td>Pending</td>
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<td>Provides equipment deliverables, repair services, provisioning, record management, and customer care services to DoD &amp; USG users who access the Iridium satellite constellation through the DoD EMSS Gateway.</td>
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<td>RFP: 2QFY18</td>
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<td>Project Award: 3QFY18</td>
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<td>Projected Award: 3QFY18</td>
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<td><strong>IP Traffic Navigator (ITN) and Traffic Data Analysis Support – Re-compete</strong></td>
<td>DISA OC IE</td>
<td>TBD</td>
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<td>RFP: 2QFY18</td>
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<td>Project Award: 4QFY18</td>
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<td>Projected Award: 4QFY18</td>
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<td><strong>Network Services Capabilities Center (NS2) UC and Telemetry Engineering Support – Re-compete</strong></td>
<td>DISA OC IE</td>
<td>TBD</td>
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| DISN Customer Implementation Projects Support – Re-compete | DISA OC IE | TBD  
RFP: 2QFY18  
Projected Award: 4QFY18 |
| GNS PAC Transport Services  
Provides transport and circuit transition services to DISA PAC customers | DISA OC IE | Full and Open Competition with GNS Vendors only  
RFP: 2QFY18  
Projected Award: 4QFY18 |
| Circuit and Transport Services  
Bandwidth and network capabilities and services | DISA OC IE | GNS (OCONUS), NS2020 EIS (CONUS)  
RFP: 2Q-3QFY18  
Projected Award: 3Q-4QFY18 |
How You Can Help

- Provide solutions that evolve DISA (e.g. mobility, virtual networking, cloud)
- Operate and secure the DoD Enterprise
- Ensure a survivable network through full path diversity and self healing networking
- Integrate and use commercial services
  - On demand and capacity services
  - Commercial capability to eliminate/optimize legacy equipment
  - Commercial Ethernet
  - Commercial services for classified
  - Secure use of internet and mobile for access

Budget pressures are not going away
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