Net-Centric Enterprise Services

Outlook

- Forecast International projects that DISA will spend approximately $11.4 million on its Net-Centric Enterprise Services program over the next decade

- According to an FY17 DISA budget document, no work is scheduled to be conducted beyond FY16

- If this is the case, this report will be archived in December 2017

Funding Forecast 2016-2025

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
US$	300000	0	0	0	0	0	0	0	0	0
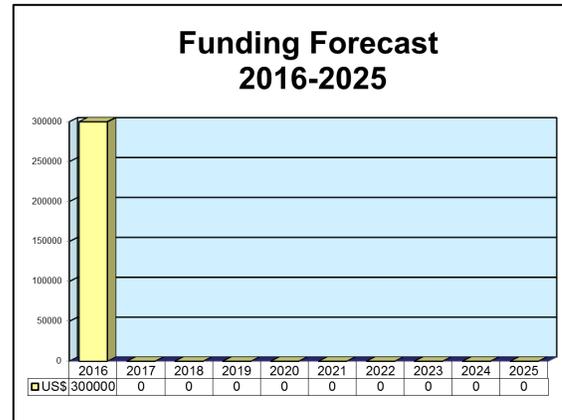
Orientation

Description. The Net-Centric Enterprise Services program of the U.S. Defense Information Systems Agency (DISA) is charged with developing a common set of services and applications to help individuals locate and share information on the Global Information Grid (GIG). The NCES program is also charged with developing tools to enable the U.S. Department of Defense to monitor and manage GIG performance and problems.

Note: *The Global Information Grid is a DoD concept representing an Internet-like network that enables weapons, other systems, and people to share information and allows warfighters to identify threats and respond to those threats with lethality.*

Sponsor
U.S. Defense Information Systems Agency
    Arlington, VA

Status. Ongoing research, development, test, and evaluation activities.

Application. To help individuals locate and share information on the Global Information Grid, as well as to monitor and manage GIG performance.

Contractors

Prime

Booz Allen Hamilton	http://www.bah.com, 8283 Greensboro Dr, McLean, VA 22102 United States, Tel: + 1 (703) 902-5000, Program Participant (RDT&E)
Data Systems Analysts Inc	http://www.dsainc.com, Eight Neshaminy Interplex, Suite 209, Trevose, PA 19053-6980 United States, Tel: + 1 (215) 245-4800, Fax: + 1 (215) 245-4375, Program Participant (RDT&E)
Defense Information Systems Agency	http://www.disa.mil, 5205 Leesburg Pike, Falls Church, VA 22041 United States, Tel: + 1 (703) 607-6020, Fax: + 1 (703) 607-4081, Program Participant (RDT&E)

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FGM Inc	http://www.fgm.com, 12021 Sunset Hills Rd, Reston, VA 20190 United States, Tel: + 1 (703) 885-1000, Fax: + 1 (703) 885-0130, Program Participant (RDT&E)
MITRE Corp	http://mitre.org, 7515 Colshire Dr, McLean, VA 22102 United States, Tel: + 1 (703) 983-6000, Program Participant (RDT&E)
Pragmatics Inc	http://www.pragmatics.com, 7926 Jones Branch Dr, McLean, VA 22102 United States, Tel: + 1 (703) 761-4033, Fax: + 1 (703) 761-4089, Program Participant (RDT&E)
Science Applications International Corp (SAIC)	http://www.saic.com, 10260 Campus Point Dr, San Diego, CA 92121 United States, Tel: + 1 (858) 826-6000, Fax: + 1 (858) 826-6634, Program Participant (RDT&E)

Contractors are invited to submit updated information to Editor, International Contractors, Forecast International, 22 Commerce Road, Newtown, CT 06470, USA; rich.pettibone@forecast1.com

Technical Data

Architecture.   The NCES architecture provides the following core enterprise services:

Discovery.   The "discovery" of services, people, content, and metadata, enables users to find the information they need, no matter where it is located or what data structure (xml, metadata, text, video, etc.) is used.

Collaboration.   Collaboration – in the form of Web conferencing, audio and video communications, whiteboarding, instant messaging, file sharing, and application sharing – provides for real-time information sharing and processing by any user with privileges on the DoD network.

Mediation.   Users can translate data from one format to another, so that it can be accessed by all, no matter what format they prefer. This increases data interoperability and enables all warfighting and business users to communicate with each other to support rapid decision-making.

Machine-to-Machine Messaging.   The service provides secure machine-to-machine communications on behalf of the user: a Web-browser-based e-mail system, secure messaging, message notifications and alerts, message boards and newsgroups, wireless support, and interoperable global communications support.

Enterprise Services Management (ESM).   ESM provides performance monitoring, configuration management, event correlation and mission impact assessment, and problem detection and resolution, as well as enterprise IT resource accounting and addressing – assured end-to-end service availability, information protection, and information delivery.

Application. This service provides a protected hosting environment consisting of common hardware platforms, operating systems, and applications that will be developed and delivered as Evaluation Capability Modules.   Four ECM environments make up the application service: test and integration, pilot, staging, and production.

User Assistant.   This service provides automated helper capabilities.

Storage. It provides enough hard disk storage to store information obtained from NCES's core enterprise services, as well as storage operations and capacity management.

Information Assurance/Security (IAS). IAS provides authentication, access management, and domain security services. It enables resistance to non-user system access and interference, and prevents user misuse and security errors. IAS interoperates with the other core services to protect the Core Enterprise Service portion of the GIG Enterprise Services as an entity.   This service relies on the public key infrastructure and supports user authentication and validation services, cryptographic functions, and IAS policies and procedures.

Product Lines. The nine core enterprise services of the Net-Centric Enterprise Services program (PE#0303170K) are grouped and implemented as four product lines:

Service-Oriented Architecture Foundation (SOAF). SOAF represents the core set of system components providing the essential elements of interoperability, access, security, and performance. SOAF empowers service users and producers to rapidly construct and deploy interoperable service-based applications. SOAF capabilities provide the critical NCES foundation that enables Community of Interest users to securely discover, share, and process information and services from a multitude of sources. The SOAF also provides the engineering flexibility necessary to respond to changing business processes and requirements.

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Content Discovery and Delivery (CD&D). CD&D provides search and discovery functionality across the GIG Enterprise. CD&D provides the methodology, specifications, user interfaces, and services to support advertising, information discovery, and efficient delivery of information. Content Delivery provides computing infrastructure services for dynamic caching, forward staging, and information storage within the network.

Collaboration. Collaboration provides users with a range of capabilities such as instant messaging/chat, Web conferencing, application sharing, whiteboarding (including annotations), and application broadcasting that meet the warfighter's operational requirements. The Web-accessible services enable information sharing and processing anywhere and at any time by any user with privileges on the DoD network.

User Access. The User Access capability provides the user with secure Web-based access to NCES as well as a single launch point to access NCES services, but it is not the only method used to access NCES services. The User Access capability also provides a flexible profiling and customization capability for capturing, managing, and acting on a full array of user preferences.

Net-Centric Enterprise Services is a U.S. DISA program

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Source: U.S. DISA

Program Review

From FY09 through FY10, the Net-Centric Enterprise Services program tested Collaboration, User Access (Portal), Content Discovery and Delivery, and Service-Oriented Architecture Foundation (SOAF) capabilities and conducted operational assessments of overall NCES services. The program also worked on supporting the certification, accreditation testing, interoperability testing, and validation of all Managed Service Provider (MSP) services.

In FY11, the Net-Centric Enterprise Services program supported the enhancement of the Strategic Knowledge Integration Web (SKIWeb), which provides event-based information in a globally accessible, operationally relevant, near real-time fashion, enabling users to collaboratively share data, plan strategies, and develop courses of action.

The NCES program conducted the final development and operational testing required to complete the transition of SKIWeb into an enterprise service in FY12.

In FY13, the NCES program conducted operational testing and evaluation of enterprise services and transitioned local services into the DoD enterprise infrastructure. The program conducted analysis of industry standards and specifications to facilitate the integration of emerging commercial technologies into existing operational enterprise services in FY14.

From FY15 through FY16, the NCES program supported the operational testing and evaluation of enterprise services and the transitioning of local services into the DoD enterprise infrastructure. It also analyzed industry standards and specifications in order to enhance and add functionality to existing operational enterprise services to keep them current with evolving technologies.

There is no work scheduled beyond FY16.

Funding

		U.S. FUNDING					
		FY15 QTY	FY15 AMT	FY16 QTY	FY16 AMT	FY17 QTY	FY17 AMT
RDT&E (U.S. DISA) PE#0303170K		-	3.77	-	0.44	-	0.00

	FY18 QTY	FY18 AMT	FY19 QTY	FY19 AMT	FY20 QTY	FY20 AMT	FY21 QTY	FY21 AMT
RDT&E (U.S. DISA) PE#0303170K	-	0.00	-	0.00	-	0.00	-	0.00

All $ are in millions.

Source: U.S. Defense Information Systems Agency FY17 RDT&E Budget Document

Contracts/Orders & Options

No contract information regarding the Net-Centric Enterprise Services program has been made public. Consequently, no recent contracts have been identified.

Timetable

Year	Major Development
FY04	The U.S. DoD Milestone Decision Authority authorizes the NCES program to enter the technology development phase
FY05	The NCES program tests and integrates potential ECMs
FY06	Funds allocated to the SOAF product line to support testing of SOAF capabilities

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Year	Major Development
FY07	Funds allocated to the CD&D product line to be used to deliver a set of integrated services
FY08	Funds allocated to the Collaboration product line to be used to provide incremental enhancements to the E-CollabCenter instant messaging and Web conferencing capabilities
FY09-FY10	NCES program tests the Collaboration, User Access (Portal), CD&D, and SOAF capabilities and conducts operational assessments of overall NCES services
FY11	NCES program works on the enhancement of SKIWeb
FY12	NCES program supports the operational testing required to complete the enhancement of SKIWeb and its transition into an enterprise service
FY13	NCES program conducts operational testing and evaluation of enterprise services and transitions local services into the DoD enterprise infrastructure
FY14	NCES program conducts analysis of industry standards and specifications in order to enhance and add functionality to existing operational enterprise services
FY15	NCES program supports the operational testing and evaluation of enterprise services and the transitioning of local services into the DoD enterprise infrastructure
FY16	NCES program to analyze industry standards and specifications

Worldwide Distribution/Inventories

Net-Centric Enterprise Services is a program of the **U.S. Defense Information Systems Agency**.

Forecast Rationale

The Net-Centric Enterprise Services program of the U.S. Defense Information Systems Agency (DISA) is charged with developing a common set of services and applications to help individuals locate and share information on the Global Information Grid (GIG). The NCES program will also develop tools to enable the DoD to monitor and manage GIG performance and problems.

Forecast International projects that the DISA will spend about $300 thousand on its NCES program in FY16. The Pentagon's desire to execute wars in a network-centric way is driving NCES program forecast stream.

According to an FY17 DISA budget document, no work is scheduled to be conducted for the program beyond FY16. If this is the case this report will be archived in December 2017.

Ten-Year Outlook

ESTIMATED CALENDAR YEAR RDT&E FUNDING (in US$)											
Designation or Program		**High Confidence**				**Good Confidence**			**Speculative**		
	Thru 2015	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**Total**
MFR Varies												
NET-CENTRIC ENTERPRISE SERVICES Military <> United States <> Department of Defense												
	245,190,000	300000	0	0	0	0	0	0	0	0	0	300,000
Total	245,190,000	300000	0	0	0	0	0	0	0	0	0	300,000