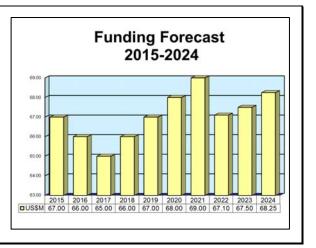# ARCHIVED REPORT

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Cyber Systems Modernization

Outlook

- Forecast International projects that the U.S. Air Force will spend approximately $671 million on its Cyber Systems Modernization project over the next decade

- Given the growing significance of cyber operations in the modern defense arena, FI believes that the Cyber Systems Modernization project will be well funded by the U.S. Air Force beyond the forecast period

Funding Forecast 2015-2024

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
US$M	67.00	66.00	65.00	66.00	67.00	68.00	69.00	67.10	67.50	68.25

Orientation

Description. The Cyber Systems Modernization project conducts research and development into technologies and capabilities that allow the U.S. Department of Defense to conduct cyberspace activities.

Sponsor
United States Air Force
  Pentagon
  Washington, DC

Status. Ongoing research and development.

Application. U.S. Department of Defense cyberspace activities.

Contractors

Contractor(s) not selected or not disclosed.

Comprehensive information on Contractors can be found in Forecast International's "International Contractors" series. For a detailed description, go to www.forecastinternational.com (see Products & Services/Governments & Industries) or call + 1 (203) 426-0800.

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

The United States Cyber Command (USCYBERCOM) is a U.S. armed forces sub-unified command subordinate to U.S. Strategic Command. The USCYBERCOM centralizes command of cyberspace operations, organizes existing cyber resources, and synchronizes defense of U.S. military networks.

The Cyber Systems Modernization project is part of Program Element #0208059F (Cyber Command Activities). The Cyber Systems Modernization project consists of the following subprojects:

Cyber Systems Modernization

Combatant Command Support. The Combatant Command Support subproject (formerly Cyber Command Activities) develops and tests various tools critical to achieve Combatant Command (COCOM) military objectives. The subproject includes research, studies, integration efforts, analysis, "access development," and operational assessment of cyberspace capabilities, methodologies and tactics used in support of COCOM objectives.

Defend the Nation. The Defend the Nation subproject (formerly Defensive/Offensive Cyber Capability Development) supports the development of a diverse cyber capability portfolio to enable SEE, BLOCK, and MANEUVER efforts that will defeat a wide variety of cyber attacks. This subproject encompasses research, integration efforts, analysis, access development, training, testing, and assessments of offensive, defensive, and situational awareness capabilities.

Operate and Defend the DoDIN and CYBER Situational Awareness. Funding for this subproject supports the engineering and development of tools, data strategy, and the management of a common operating picture to support operations focused on cyber key terrain at the global and national level.

Program Review

Below are summaries of the recent activity for each subproject of the Cyber Systems Modernization project:

Combatant Command Support. From FY13 through FY14, subproject funding supported studies, analysis, testing and development of cyber operations capabilities and tools in support of Combatant Command objectives. Look for this work to continue in FY15

Defend the Nation. In FY13, this subproject supported development, prototyping and testing of various cyber capabilities and tools, and cyber operations infrastructure technologies.

In FY14, the subproject supported the development, prototyping, and testing of tools for Defend the Nation cyber operations. Look for this work to continue in FY15.

Operate and Defend the DoDIN and CYBER Situational Awareness. From FY13 through FY14, this subproject supported the development of cyber operations tools, plus engineering, data strategy efforts, and the development of a common operating picture to support USCYBERCOM in planning, coordinating, integrating, synchronizing and conducting operations in defense of specified Department of Defense information networks. Look for this work to continue in FY15.

Funding

U.S. FUNDING

	FY13 QTY	FY13 AMT	FY14 QTY	FY14 AMT	FY15 QTY	FY15 AMT
RDT&E (U.S. Air Force)						
PE#0208059F						
Project 6002 Cyber Systems Modernization	-	59.32	-	38.10	-	67.06

	FY16 QTY	FY16 AMT	FY17 QTY	FY17 AMT	FY18 QTY	FY18 AMT	FY19 QTY	FY19 AMT
RDT&E (U.S. Air Force)								
PE#0208059F								
Project 6002 Cyber Systems Modernization	-	73.79	-	71.70	-	73.11	-	74.50

All $ are in millions.

Source: U.S. Department of Defense FY15 RDT&E budget document

Contracts/Orders & Options

No contract information regarding the Cyber Systems Modernization project has been made public. Consequently, no recent contracts have been identified.

Cyber Systems Modernization

Timetable

Year	Major Development
FY13- FY14	Combatant Command Support subproject funds analysis, testing and development of cyber operations capabilities and tools in support of Combatant Command objectives
FY15	Defend the Nation subproject to support development, prototyping, and testing of tools for Defend the Nation cyber operations

Worldwide Distribution/Inventories

The Cyber Systems Modernization project is managed by the **United States Air Force**.

Forecast Rationale

The U.S. Air Force's Cyber Systems Modernization project is a research and development effort. Forecast International projects that the USAF will spend more than $660 million over the next 10-plus years on this project. This funding stream is being driven by the need of the U.S. Department of Defense to modernize technologies in order to successfully conduct cyberspace activities. Given the growing significance of cyber operations in the modern defense arena, FI believes the Cyber Systems Modernization project will be well funded by the U.S. Air Force beyond the forecast period.

Ten-Year Outlook

ESTIMATED CALENDAR YEAR RDT&E FUNDING (in millions US$)											
Designation or Program		**High Confidence**				**Good Confidence**			**Speculative**		
	Thru 2014	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**Total**
MFR Varies												
Cyber Systems Modernization Military <> United States <> Air Force												
	135.67	67.00	66.00	65.00	66.00	67.00	68.00	69.00	67.10	67.50	68.25	670.85
Total	135.67	67.00	66.00	65.00	66.00	67.00	68.00	69.00	67.10	67.50	68.25	670.85