

Exhibit 300 FY2011

FAAXX703: System Wide Information Management (SWIM)

Part I: Summary Information And Justification (All Capital Assets)

Description: In Part I, complete Sections A, B, C, and D for all capital assets (IT and non-IT). Complete Sections E and F for IT capital assets.

I.A. Overview (All Capital Assets)

Description: The following series of questions are to be completed for all investments.

I.A.1. Date of Submission:	2010-02-12
I.A.2. Agency:	021
I.A.3. Bureau:	12
I.A.4. Name of this Investment: Description: (Up to 250 characters)	FAAXX703: System Wide Information Management (SWIM)
I.A.5. Unique Project (Investment) Identifier: Description: For IT investment only, see section 53.9. For all other, use agency ID system.	021-12-01-11-01-1220-00
I.A.6. What kind of investment will this be in FY2011? Description: Please NOTE: Investments moving to O&M in FY2011, with Planning/Acquisition activities prior to FY2011 should not select O&M. These investments should indicate their current status.	Mixed Life Cycle
I.A.8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap; this description may include links to relevant information which should include relevant GAO reports, and links to relevant findings of independent audits. Description: (Up to 2500 characters)	System Wide Information Management (SWIM) is being developed as the focal information management and data sharing system for the Next Generation Air Transportation System (NextGen). SWIM will collect and disseminate information and will provide services to the aviation community. The initial phase of SWIM, Segment 1, includes 9 capabilities which were selected based upon the needs of various data communities, maturity of concepts of use, and the ability of existing programs to accommodate development of these SWIM capabilities within their existing program plans. Future segments will be defined in a similar manner, and will include additional capabilities that move the FAA toward the data sharing required for NextGen programs. SWIM will provide standards/guidance to publish data to the network, retrieve it, secure its integrity, and control its access and use to NAS programs that provide the capabilities that comprise Segment 1. It will leverage existing programs, systems and networks, and be able to integrate technologies introduced into the NextGen system. The implementing programs (ERAM, TFMS, CIWS, NASR, SAMS, TDDS, WMSCR, and ITWS) will host the SWIM-provided core services commercial software on existing hardware, if available, or will procure hardware as part of a planned future release to support implementation of the SWIM capability. The implementing programs will develop application software to interface to the core services software to provide the Segment 1 capabilities in Section II.A.3. Deployment of capabilities will start in FY10 along with the implementing programs' planned releases. Existing programs' processes (e.g., security C&A, configuration management, life cycle support, safety) will be leveraged to implement the SWIM capabilities assigned to the implementing programs. SWIM Segment 1 will be fully operational by FY15. On June 20, 2007, the FAA's Joint Resource Council (JRC) gave funding approval for FY09 and FY10, the first years of Segment 1. In July 2009, the FAA received JRC funding approval for FY11 through FY15 which covers development and deployment. Additional funding, which is included in the Summary of Spending Table, is required post FY15 for tech refreshes and operations and maintenance through FY33. During FY09 and FY10, SWIM will proceed with the selection of COTS software for SWIM core capabilities, design of all Segment 1A capabilities, and deployment of: SUA Automated Data Exchange (SAMS/NASR software only).
I.A.8.a. Enter dates for approved rebaselining, alternative analysis, and risk management plan and risk register information. Description: Provide here the date of any approved rebaselining within the past year, the date for the most recent (or planned) alternatives analysis for this investment, and whether this investment has a risk management plan and risk register. (Up to 500 characters)	Alternative Analysis: June 22, 2009; Risk Management Plan: May 8,2009; Risk Register: August 11, 2009; Latest JRC approved baseline: July 15, 2009
I.A.9. Did the Agency's Executive/Investment Committee approve this request?	yes
I.A.9.a. If "yes," what was the date of this approval?	2009-07-15
I.A.12. If this investment is a financial management system, then please fill out the following as reported in the most recent financial systems inventory (FMSI):	
I.A.12.a. Financial Management System Table	
I.A.12.b. If this investment is a financial management system AND the investment is part of the core financial system then select the primary FFMIA compliance area that this investment addresses (choose only one):	

I.B. Summary of Funding (Budget Authority for Capital Assets)

I.B.1. Summary of Funding Table

Description: Provide the total estimated life-cycle cost for this investment by completing the following table. All amounts represent budget authority in millions and are rounded to three decimal places. Federal personnel costs should be included only in the row designated "Government FTE Cost," and should be excluded from the amounts shown for "Planning," "Full Acquisition," and "Operation/Maintenance." The "TOTAL" estimated annual cost of the investment is the sum of costs for "Planning," "Full Acquisition," and "Operation/Maintenance." For Federal buildings and facilities, life-cycle costs should include long term energy, environmental, decommissioning, and/or restoration costs. Funding for all costs associated with the entire life-cycle of the investment should be

included in this report. Funding levels should be shown for budget authority by year consistent with funding levels in Exhibit 53. The Summary of Funding table shall include the amounts allocated to the investment from, and should be directly tied to, the Fiscal Year Budget. This includes direct appropriations (discretionary or mandatory accounts), user fees, and approved self-funding activities and will provide the actual annual "budget" for the investment. This "budget" will be a subset of the congressionally approved budget for each fiscal year. This will provide Departments/Agencies and OMB useful information on the actual Fiscal Year dollars being asked for and spent on an investment.

NOTE: For the multi-agency investments, this table should include all funding (both managing partner and partner agencies). Government FTE Costs should not be included as part of the TOTAL represented.

I.B.1.a. Summary of Spending for Project Phases (Reported in Millions)

	PY-1 and earlier	PY 2009	CY 2010	BY 2011
Planning	\$44.800	\$5.600	\$0.000	\$0.000
Acquisition	\$0.000	\$30.300	\$54.400	\$80.300
Subtotal Planning and Acquisition	\$44.800	\$35.900	\$54.400	\$80.300
Operations and Maintenance	\$0.000	\$0.000	\$0.000	\$2.800
Disposition Costs (Optional)	\$0.000	\$0.000	\$0.000	\$0.000
SUBTOTAL	\$44.800	\$35.900	\$54.400	\$83.100
Government FTE Costs	\$4.100	\$4.000	\$4.000	\$4.500
TOTAL	\$48.900	\$39.900	\$58.400	\$87.600

I.B.1.b. Summary of Spending for Project Phases (Government FTE Costs Only)

	PY-1 and earlier	PY 2009	CY 2010	BY 2011
Number of FTE represented by Costs	32	23	23	27

I.B.2. If the summary of funding has changed from the FY2010 President's budget request, briefly explain those changes:

Description: (Up to 2500 characters)

The Capital Investment Plan for FY08 included an earmark of \$2.058M that is not included here since it was not applied to SWIM development. There was a decrement in funding of \$5M in FY09. An FY09 earmark of \$7M to support new capabilities is not included in the Summary of Spending table. The investment/alternative analysis for the follow on (2009) JRC reflects an increase in the total lifecycle costs. FY11 funding and beyond has been revised based on the Investment Analysis estimates. FY07 and FY08 funding is for the Segment 1 planning phase. Segment 1 is from FY09-FY33. The planning estimates in FY09 are for DME activities to baseline Segment 1 FY11-15 and to initiate future segment analysis. All other estimates in the Summary of Spending table and table II.C are for Segment 1.

I.D. Performance Information (All Capital Assets)

I.D.1. Performance Information Table.

Description: In order to successfully address this area of the exhibit 300, performance goals must be provided for the agency and be linked to the annual performance plan and the relevant Agency Segment Architecture. The investment must discuss its performance measures in support of the agency's mission and strategic goals as outlined in the corresponding Segment Architecture. Performance measures (indicators) must be provided. They are the internal and external performance benefits this investment is expected to deliver to the agency (e.g., improve efficiency by 60 percent, increase citizen participation by 300 percent a year to achieve an overall citizen participation rate of 75 percent by FY 2xxx, etc.). The goals must be clearly measurable investment outcomes, and if applicable, investment outputs. They do not include the completion date of the module, milestones, or investment, or general goals, such as "significant," "better," "improved," that do not have a quantitative measure.

Agencies must use the following table to report performance goals and measures for the major investment and use the Federal Enterprise Architecture (FEA) Performance Reference Model (PRM). Map all Measurement Indicators to the corresponding "Measurement Area" and "Measurement Grouping" identified in the PRM. There should be at least one Measurement Indicator for each of the four different Measurement Areas (for each fiscal year). The PRM is available at <http://www.whitehouse.gov/omb/e-gov/>. The table can be extended to include performance measures for years beyond the next President's Budget.

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Grouping	Measurement Indicator
2007	Organizational Excellence	Mission and Business Results	Cost Accounting / Performance Measurement	Cost to retrieve data services via external gateway
2007	Organizational Excellence	Customer Results	Customer Impact or Burden	Cost of developing an application-to-application interface
2007	Organizational Excellence	Processes and Activities	Policies	FAA-wide policy to govern network-enabled operations
2007	Organizational Excellence	Technology	User Requirements	Number of SWIM Program Office requirements that map to shortfalls in approved Mission Shortfall
2008	Organizational Excellence	Mission and Business Results	Cost Accounting / Performance Measurement	Cost to retrieve data services via external gateway
2008	Organizational Excellence	Customer Results	Customer Impact or Burden	Cost of developing an application-to-application interface
2008	Organizational Excellence	Technology	IT Contribution to Process.	Percentage of SWIM

			Customer, or Mission	requirements allocated to the implementing Programs (ERAM, TFM, etc) that map to shortfalls in approved Mission Shortfall Statement.
2008	Organizational Excellence	Processes and Activities	Policies	FAA-wide policy to govern network-enabled operations
2009	Organizational Excellence	Technology	Accessibility	Number of data products provided by SWIM Implementing Programs via SWIM
2009	Organizational Excellence	Customer Results	Customer Impact or Burden	Cost of developing an application-to-application interface
2009	Organizational Excellence	Processes and Activities	Cycle Time	Frequency of SUA Management Status updates.
2009	Organizational Excellence	Technology	Functionality	Frequency of PIREP capture rate with automation
2009	Organizational Excellence	Processes and Activities	Policies	Percentage of SOA-suitable programs assessed
2009	Organizational Excellence	Mission and Business Results	Cost Accounting / Performance Measurement	Cost to retrieve data services via external gateway
2009	Organizational Excellence	Mission and Business Results	Information Security	Number of different users (e.g FedEx and UPS) connected to secure gateway
2009	Organizational Excellence	Customer Results	New Customers and Market Penetration	Number of subscribed SWIM data products by user (e.g. FedEx, UPS)
2010	Organizational Excellence	Technology	Accessibility	Number of data products provided by SWIM Implementing Programs via SWIM
2010	Organizational Excellence	Customer Results	Customer Impact or Burden	Cost of developing an application-to-application interface
2010	Organizational Excellence	Processes and Activities	Cycle Time	Frequency of SUA Management Status updates.
2010	Organizational Excellence	Processes and Activities	Policies	Percentage of SOA-suitable programs assessed
2010	Organizational Excellence	Mission and Business Results	Information Security	Number of different users (e.g FedEx and UPS) connected to secure gateway
2010	Organizational Excellence	Customer Results	New Customers and Market Penetration	Number of subscribed SWIM data products by user (e.g. FedEx, UPS)
2011	Organizational Excellence	Technology	Accessibility	Number of data products provided by SWIM Implementing Programs via SWIM
2011	Organizational Excellence	Customer Results	Customer Impact or Burden	Cost of developing an application-to-application interface
2011	Organizational Excellence	Processes and Activities	Cycle Time	Frequency of SUA Management Status updates.
2011	Organizational Excellence	Processes and Activities	Policies	Percentage of SOA-suitable programs assessed
2011	Organizational Excellence	Mission and Business Results	Information Security	Number of different users (e.g FedEx and UPS) connected to secure gateway
2011	Organizational Excellence	Customer Results	New Customers and Market Penetration	Number of subscribed SWIM data products by user (e.g. FedEx, UPS)
2012	Organizational Excellence	Technology	Accessibility	Number of data products provided by SWIM Implementing Programs via SWIM
2012	Organizational Excellence	Customer Results	Customer Impact or Burden	Cost of developing an application-to-application interface
2012	Organizational Excellence	Processes and Activities	Cycle Time	Frequency of SUA Management Status updates.
2012	Organizational Excellence	Processes and Activities	Policies	Percentage of SOA-suitable programs assessed
2012	Organizational Excellence	Mission and Business Results	Information Security	Number of different users (e.g FedEx and UPS) connected to secure gateway
2012	Organizational Excellence	Customer Results	New Customers and Market Penetration	Number of subscribed SWIM data products by user (e.g. FedEx, UPS)

2013	Organizational Excellence	Technology	Accessibility	Number of data products provided by SWIM Implementing Programs via SWIM
2013	Organizational Excellence	Customer Results	Customer Impact or Burden	Cost of developing an application-to-application interface
2013	Organizational Excellence	Processes and Activities	Cycle Time	Frequency of SUA Management Status updates.
2013	Organizational Excellence	Processes and Activities	Policies	Percentage of SOA-suitable programs assessed
2013	Organizational Excellence	Mission and Business Results	Information Security	Number of different users (e.g. FedEx and UPS) connected to secure gateway
2013	Organizational Excellence	Customer Results	New Customers and Market Penetration	Number of subscribed SWIM data products by user (e.g. FedEx, UPS)
2014	Organizational Excellence	Technology	Accessibility	Number of data products provided by SWIM Implementing Programs via SWIM
2014	Organizational Excellence	Customer Results	Customer Impact or Burden	Cost of developing an application-to-application interface
2014	Organizational Excellence	Processes and Activities	Cycle Time	Frequency of SUA Management Status updates.
2014	Organizational Excellence	Processes and Activities	Policies	Percentage of SOA-suitable programs assessed
2014	Organizational Excellence	Mission and Business Results	Information Security	Number of different users (e.g. FedEx and UPS) connected to secure gateway
2014	Organizational Excellence	Customer Results	New Customers and Market Penetration	Number of subscribed SWIM data products by user (e.g. FedEx, UPS)

I.F. Enterprise Architecture (EA) (IT Capital Assets only)

Description: In order to successfully address this area of the capital asset plan and business case, the investment must be included in the agency's EA and Capital Planning and Investment Control (CPIC) process and mapped to and supporting the FEA. The business case must demonstrate the relationship between the investment and the business, performance, data, services, application, and technology layers of the agency's EA.

Have the requisite investment-level architecture documentation requirements (e.g., reference model mappings, FTF mappings, etc.) for this investment been documented in the corresponding Segment Architecture? For detailed guidance regarding segment architecture requirements, please refer to <http://www.whitehouse.gov/omb/e-gov/>. See this guidance also regarding the reporting of six digit codes corresponding to agency segment architectures in Exhibit 53, and, for limited cases determined by the Chief Architect, reporting an investment alignment with multiple segments.

I.F.1. Is this investment included in your agency's target enterprise architecture? yes

Part IV: Planning for "Multi-Agency Collaboration" ONLY

Description: Part IV should be completed only for investments identified as an E-Gov initiative, a Line of Business (LOB) Initiative, or a Multi-Agency Collaboration effort. The "Multi-Agency Collaboration" choice should be selected in response to Question 6 in Part I, Section A above. Investments identified as "Multi-Agency Collaboration" will complete only Parts I and IV of the exhibit 300.

IV.A. Multi-Agency Collaboration Oversight (All Capital Assets)

Description: Multi-agency Collaborations, such as E-Gov and LOB initiatives, should develop a joint exhibit 300.

IV.A.1. Stakeholder Table

Description: As a joint exhibit 300, please identify all the agency stakeholders (all participating agencies, this should not be limited to agencies with financial commitment). All agency stakeholders should be listed regardless of approval. If the partner agency has approved this joint exhibit 300 please provide the date of approval.

IV.A.5. Does this investment replace any legacy systems investments?

Description: Disposition costs (costs of retirement of legacy systems) may be included as a category in Part I, Section B, Summary of Funding, or in separate investments, classified as major or non-major. For legacy system investments being replaced by this investment, include the following data on these legacy investments.