

Exhibit 300: Capital Asset Plan and Business Case Summary

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

Section A: Overview (All Capital Assets)

1. Date of Submission: 8/21/2007
2. Agency: Department of Transportation
3. Bureau: Federal Aviation Administration
4. Name of this Capital Asset: FAAXX703: System-Wide Information Management (SWIM)
5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.) 021-12-01-11-01-1220-00
6. What kind of investment will this be in FY2009? (Please NOTE: Investments moving to O&M in FY2009, with Planning/Acquisition activities prior to FY2009 should not select O&M. These investments should indicate their current status.) Full Acquisition
7. What was the first budget year this investment was submitted to OMB? FY2007

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:

The System Wide Information Management (SWIM) Program is the focal information management and data sharing system for the Next Generation Air Transportation System (NextGen). SWIM will provide policies and standards to support data management, along with the core services needed to publish data to the network, retrieve it, secure its integrity, and control its access and use. SWIM is being developed incrementally. The initial phase of SWIM, which is referred to as Segment 1, includes capabilities described in Section II.A.3 that 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 reduce the number and types of interfaces and systems, reduce unnecessary redundancy of information and better facilitate information-sharing; improve predictability and operational decision-making and reduce cost of service. Planned improvements include reducing the cost of developing an application-to-application interface by 20%, and reducing the cost to deliver data services via an external security gateway by 60% from FY09 to FY13. The improved coordination that SWIM will provide will allow for the transition from tactical conflict management of air traffic to strategic trajectory-based operations. In addition, SWIM will provide the foundation for greatly enhanced information exchange and sharing with other agencies.

The FAA's Joint Resource Council (JRC) approved the Initial Investment Decision for SWIM on July 17, 2006; approved the Final Investment Decision for Segment 1, and established a baseline for the first two years of Segment 1 (FY09 and FY10) on June 20, 2007. The SWIM Program Office will return to the JRC in FY09 to establish a baseline for the remaining 3 years of Segment 1 (FY11-13). A JRC for future segment approval is also planned.

During FY09 and FY10, SWIM will proceed with the selection of COTS software for SWIM core services, design of all Segment 1 capabilities, and deployment of these Segment 1 capabilities: SUA Automated Data Exchange (SAMS/NASR software only), Flight Data Publication (initial flight data services only), and CIWS Publication.

9. Did the Agency's Executive/Investment Committee approve this request? Yes
- a. If "yes," what was the date of this approval? 6/20/2007
10. Did the Project Manager review this Exhibit? Yes
11. Contact information of Project Manager?
- Name Usmani, Ahmad
- Phone Number Redacted
- Email Ahmad.Usmani@faa.gov
- a. What is the current FAC-P/PM certification level of the project/program manager? TBD
12. Has the agency developed and/or promoted cost effective, energy-efficient and environmentally sustainable techniques or practices for this project? No
- a. Will this investment include electronic assets (including computers)? Yes
- b. Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only) No

1. If "yes," is an ESPC or UESC being used to help fund this investment?

2. If "yes," will this investment meet sustainable design principles?

3. If "yes," is it designed to be 30% more energy efficient than relevant code?

13. Does this investment directly support one of the PMA initiatives? No

If "yes," check all that apply:

a. Briefly and specifically describe for each selected how this asset directly supports the identified initiative(s)? (e.g. If E-Gov is selected, is it an approved shared service provider or the managing partner?)

14. Does this investment support a program assessed using the Program Assessment Rating Tool (PART)? (For more information about the PART, visit www.whitehouse.gov/omb/part.) No

a. If "yes," does this investment address a weakness found during a PART review? No

b. If "yes," what is the name of the PARTed program?

c. If "yes," what rating did the PART receive?

15. Is this investment for information technology? Yes

If the answer to Question 15 is "Yes," complete questions 16-23 below. If the answer is "No," do not answer questions 16-23.

For information technology investments only:

16. What is the level of the IT Project? (per CIO Council PM Guidance) Level 3

17. What project management qualifications does the Project Manager have? (per CIO Council PM Guidance) (1) Project manager has been validated as qualified for this investment

18. Is this investment or any project(s) within this investment identified as "high risk" on the Q4 - FY 2007 agency high risk report (per OMB Memorandum M-05-23) Yes

19. Is this a financial management system? No

a. If "yes," does this investment address a FFMI compliance area?

1. If "yes," which compliance area:

2. If "no," what does it address?

b. If "yes," please identify the system name(s) and system acronym(s) as reported in the most recent financial systems inventory update required by Circular A-11 section 52

20. What is the percentage breakout for the total FY2009 funding request for the following? (This should total 100%)

Hardware	1.600000
Software	3.400000
Services	95.000000
Other	0.000000

21. If this project produces information dissemination products for the public, are these products published to the Internet in conformance with OMB Memorandum 05-04 and included in your agency inventory, schedules and priorities? N/A

22. Contact information of individual responsible for privacy related questions:

Name	Mauney, Carla
Phone Number	Redacted
Title	Privacy Officer
E-mail	carla.mauney@faa.gov

23. Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval? Yes

Question 24 must be answered by all Investments:

24. Does this investment directly support one of the GAO High Risk Areas? Yes

Section B: Summary of Spending (All Capital Assets)

1. 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. The costs associated with the entire life-cycle of the investment should be included in this report.

Table 1: SUMMARY OF SPENDING FOR PROJECT PHASES (REPORTED IN MILLIONS) (Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)									
	PY-1 and earlier	PY 2007	CY 2008	BY 2009	BY+1 2010	BY+2 2011	BY+3 2012	BY+4 and beyond	Total
Planning:	0	24	0	5.6	Redacted	Redacted	Redacted	Redacted	Redacted
Acquisition:	0	0	22.9	35	Redacted	Redacted	Redacted	Redacted	Redacted
Subtotal Planning & Acquisition:	0	24	22.9	40.6	Redacted	Redacted	Redacted	Redacted	Redacted
Operations & Maintenance:	0	0	0	0.212	Redacted	Redacted	Redacted	Redacted	Redacted
TOTAL:	0	24	22.9	40.812	Redacted	Redacted	Redacted	Redacted	Redacted
Government FTE Costs should not be included in the amounts provided above.									
Government FTE Costs	0	1.957	2.055	3.991	Redacted	Redacted	Redacted	Redacted	Redacted
Number of FTE represented by Costs:	0	16	16	24	Redacted	Redacted	Redacted	Redacted	Redacted

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.

2. Will this project require the agency to hire additional FTE's? No

a. If "yes," How many and in what year?

No additional FTEs will be hired, but some additional existing resources will be applied to the SWIM program. More system engineering resources will be needed in FY09 and FY10 (8.251 more in FY08, and 8.293 more in FY09) than estimated in FY08 exhibit.

3. If the summary of spending has changed from the FY2008 President's budget request, briefly explain those changes:
Redacted

Section C: Acquisition/Contract Strategy (All Capital Assets)

1. Complete the table for all (including all non-Federal) contracts and/or task orders currently in place or planned for this investment. Total Value should include all option years for each contract. Contracts and/or task orders completed do not need to be included.

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

The Boeing contracts require earned value management per the ANSI/EIA-748-98 standard. Since both contracts are for level of effort system engineering support, they are not performance based. Many other contracts are for specialized skills that were not available from another source. Due to the relatively low dollar value of the contracts, it was not considered cost effective to use performance based contracting for these support contracts. All contracts require monthly program reporting of performance, activities, accomplishments, and plans. The SWIM program office estimates work accomplished or value earned, aggregated across contracts using a combination of weighted milestone measurement, percentage completions, and apportionment.

The SWIM procurement strategy is to implement core services required for Segment 1 through the use of existing contractual vehicles. These existing contracts will be used to develop/procure hardware and software and to conduct testing using a Segment 1 lab at the WJHTC. Based on the results of these tests, a COTS acquisition is planned and core services functionality will be provided to existing Community of Interest (COI) -NAS programs as Government Furnished Equipment. The use of existing contractual vehicles and COI- NAS system vendors is emphasized to reduce risk, cost and schedule impacts to SWIM implementation. SWIM Program Office FY09 cost estimates for ERAM and TFM, the primary implementing program efforts in FY09, are included in the contract table.

SWIM will provide money to the programs that will be interfacing with SWIM in Segment 1 to make their systems SWIM-compatible. These NAS programs will provide cost and schedule performance information to SWIM based on the approved EVM approach for each participating NAS program.

A Final Investment Decision JRC was approved on June 20, 2007 to baseline FY09 and FY10 funding. Cost estimates will be refined and the FY11-13 estimates will be baselined at a JRC 2b in mid-2009. An investment analysis will be conducted for Segment 2 in FY09.

An integration contract is planned for FY2010 to complete segment 1 integration and to accomplish Segment 2 implementation. Requirements for full EVM to comply with A-11, Part 7, monthly program reviews and a detailed schedule will be applied to this contract.

3. Do the contracts ensure Section 508 compliance? Yes
- a. Explain why: In accordance with FAA's Section 508 Procurement Standard Operating Procedures, the SWIM Program will determine which of the Section 508 standards apply to the program. The integration contract planned for FY2010 will comply with these applicable standards. The support contracts that are in place, as listed in the table in Section C.1, are not Information Technology purchases.
4. Is there an acquisition plan which has been approved in accordance with agency requirements? Yes
- a. If "yes," what is the date? 6/6/2007
- b. If "no," will an acquisition plan be developed?
1. If "no," briefly explain why:

Section D: Performance Information (All Capital Assets)

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. The investment must discuss the agency's mission and strategic goals, and performance measures (indicators) must be provided. These goals need to map to the gap in the agency's strategic goals and objectives this investment is designed to fill. 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 or qualitative 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 www.egov.gov. The table can be extended to include performance measures for years beyond FY 2009.

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2007	Organizational Excellence	Customer Results	Customer Benefit	Customer Complaints	Cost of developing an application-to-application interface	FY06 – no baseline. Cost estimates were established during final investment analysis.	Measure initial pre-SWIM baseline cost in FY07	Completed
2007	Organizational	Mission and	Information and	Information	Cost to deliver	FY06 – no	Measure initial	9/07

Exhibit 300: FAAXX703: System-Wide Information Management (SWIM) Redacted 1-25-2008

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
	Excellence	Business Results	Technology Management	Systems Security	data services via external security gateway	baseline	baseline in FY07	
2007	Organizational Excellence	Processes and Activities	Management and Innovation	Compliance	FAA-wide policy to govern network-enabled operations	No existing FAA-wide policy	Establish SWIM Governance Plan	Completed
2007	Organizational Excellence	Technology	Effectiveness	User Requirements	Number of SWIM requirements that map to mission shortfalls	No requirements exist	Validate 100% of Core Services requirements against mission shortfalls	Completed
2008	Organizational Excellence	Customer Results	Customer Benefit	Customer Impact or Burden	Cost of developing an application-to-application interface	FY07 – Initial Baseline	Refine baseline in FY08	9/08
2008	Organizational Excellence	Mission and Business Results	Information and Technology Management	Information Systems Security	Cost to deliver data services via external security gateway	FY07 – Initial Baseline	Refine baseline in FY08	9/08
2008	Organizational Excellence	Processes and Activities	Management and Innovation	Policies	FAA-wide policy to govern network-enabled operations.	SWIM Governance Plan	Implement 90% of critical elements of SWIM Governance Plan.	9/08
2008	Organizational Excellence	Technology	Effectiveness	IT Contribution to Process, Customer, or Mission	Number of implementing program requirements that map to mission shortfalls.	Baseline established during FY08	Validate 100% of implementing programs requirements against mission shortfalls.	9/08
2009	Organizational Excellence	Customer Results	Service Coverage	New Customers and Market Penetration	Number of NAS users subscribing to SWIM data services	FY08 – no baseline	Measure initial baseline in FY09.	9/09
2009	Organizational Excellence	Mission and Business Results	Information and Technology Management	Information Systems Security	Cost to deliver data services via external security gateway	FY08 – Initial Baseline	Reduce recurring costs per system by 30% over FY08 baseline	9/09
2009	Organizational Excellence	Processes and Activities	Cycle Time and Resource Time	Cycle Time	Frequency of SUA Management System updates.	Measure in FY09	Reduce cycle time from baseline (Baseline is expected to be 56 days).	9/09
2009	Organizational Excellence	Technology	Quality	Functionality	Frequency of PIREP capture rate with automation.	Measure initial baseline in FY09	Increase PIREPs capture rate by 50% in FY11.	9/09
2010	Organizational Excellence	Customer Results	Customer Benefit	Customer Impact or Burden	Cost of developing an application-to-application interface	FY08 – no baseline	Reduced cost of developing interface by 10%.	9/10
2010	Organizational Excellence	Customer Results	Service Coverage	New Customers and Market Penetration	Number of NAS users subscribing to SWIM data services	FY09 – no baseline	Measure initial baseline in FY10.	9/10
2010	Organizational Excellence	Mission and Business Results	Information and Technology Management	Information Systems Security	Cost to deliver data services via external security gateway	FY08 – Initial Baseline	Reduce recurring costs per system by 60% over FY08 baseline	9/10
2010	Organizational Excellence	Processes and Activities	Cycle Time and Resource Time	Cycle Time	Frequency of SUA Management System updates.	Measure in FY09	Reduce cycle time by 50%.	9/10
2010	Organizational Excellence	Technology	Quality	Functionality	Frequency of PIREP capture rate with automation.	Measure initial baseline in FY10	Increase PIREPs capture rate by 50% in FY11.	9/10
2011	Organizational Excellence	Customer Results	Customer Benefit	Customer Impact or Burden	Cost of developing an application-to-application interface	FY08 – no baseline	Reduced cost of developing interface by 20%.	9/11
2011	Organizational	Customer	Service	New Customers	Number of NAS	Measured in	Increase	9/11

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
	Excellence	Results	Coverage	and Market Penetration	users subscribing to SWIM data services	FY10	customer base to 5% of potential customers.	
2011	Organizational Excellence	Mission and Business Results	Information and Technology Management	Information Systems Security	Cost to deliver data services via external security gateway	FY08 – Initial Baseline	Reduce recurring costs per system by 60% over FY08 baseline	9/11
2011	Organizational Excellence	Processes and Activities	Cycle Time and Resource Time	Cycle Time	Frequency of SUA Management System updates.	Measure in FY09	Reduce cycle time by 50%.	9/11
2011	Organizational Excellence	Technology	Quality	Functionality	Frequency of PIREP capture rate with automation.	Measure initial baseline in FY10	Increase PIREPs capture rate by 50% in FY11.	9/11
2012	Organizational Excellence	Customer Results	Service Coverage	New Customers and Market Penetration	Number of NAS users subscribing to SWIM data services	Measured in FY10	Increase customer base to 10% of potential customers.	9/12
2012	Organizational Excellence	Mission and Business Results	Information and Technology Management	Information Systems Security	Cost to deliver data services via external security gateway	FY08 – Initial Baseline	Reduce recurring costs per system by 60% over FY08 baseline	9/12
2012	Organizational Excellence	Processes and Activities	Cycle Time and Resource Time	Cycle Time	Frequency of SUA Management System updates.	Measure in FY09	Reduce cycle time by 50%.	9/12
2012	Organizational Excellence	Technology	Quality	Functionality	Frequency of PIREP capture rate with automation.	Measure initial baseline in FY10	Increase PIREPs capture rate by 75%.	9/12
2013	Organizational Excellence	Customer Results	Service Coverage	New Customers and Market Penetration	Number of NAS users subscribing to SWIM data services	Measured in FY10	Increase customer base to 20% of potential customers.	9/13
2013	Organizational Excellence	Mission and Business Results	Information and Technology Management	Information Systems Security	Cost to deliver data services via external security gateway	FY08 – Initial Baseline	Reduce recurring costs per system by 60% over FY08 baseline	9/13
2013	Organizational Excellence	Processes and Activities	Cycle Time and Resource Time	Cycle Time	Frequency of SUA Management System updates.	Measure in FY09	Reduce cycle time by 50%.	9/13
2013	Organizational Excellence	Technology	Quality	Functionality	Frequency of PIREP capture rate with automation.	Measure initial baseline in FY10	Increase PIREPs capture rate by 80%.	9/13

Section E: Security and Privacy (IT Capital Assets only)

In order to successfully address this area of the business case, each question below must be answered at the system/application level, not at a program or agency level. Systems supporting this investment on the planning and operational systems security tables should match the systems on the privacy table below. Systems on the Operational Security Table must be included on your agency FISMA system inventory and should be easily referenced in the inventory (i.e., should use the same name or identifier).

For existing Mixed-Life Cycle investments where enhancement, development, and/or modernization is planned, include the investment in both the "Systems in Planning" table (Table 3) and the "Operational Systems" table (Table 4). Systems which are already operational, but have enhancement, development, and/or modernization activity, should be included in both Table 3 and Table 4. Table 3 should reflect the planned date for the system changes to be complete and operational, and the planned date for the associated C&A update. Table 4 should reflect the current status of the requirements listed. In this context, information contained within Table 3 should characterize what updates to testing and documentation will occur before implementing the enhancements; and Table 4 should characterize the current state of the materials associated with the existing system.

All systems listed in the two security tables should be identified in the privacy table. The list of systems in the "Name of System" column of the privacy table (Table 8) should match the systems listed in columns titled "Name of System" in the security tables (Tables 3 and 4). For the Privacy table, it is possible that there may not be a one-to-one ratio between the list of systems and the related privacy documents. For example, one PIA could cover multiple systems. If this is the case, a working link to the PIA may be listed in column (d) of the privacy table more than once (for each system covered by the PIA).

The questions asking whether there is a PIA which covers the system and whether a SORN is required for the system are discrete from the narrative fields. The narrative column provides an opportunity for free text explanation why a working link is not provided. For example, a SORN may be required for the system, but the system is not yet operational. In this circumstance, answer "yes" for column (e) and in the narrative in column (f), explain that because the system is not operational the SORN is

not yet required to be published.

Please respond to the questions below and verify the system owner took the following actions:

1. Have the IT security costs for the system(s) been identified and integrated into the overall costs of the investment:
 - a. If "yes," provide the "Percentage IT Security" for the budget year: 3.00
2. Is identifying and assessing security and privacy risks a part of the overall risk management effort for each system supporting or part of this investment. Yes

3. Systems in Planning and Undergoing Enhancement(s), Development, and/or Modernization - Security Table(s):			
Name of System	Agency/ or Contractor Operated System?	Planned Operational Date	Date of Planned C&A update (for existing mixed life cycle systems) or Planned Completion Date (for new systems)
Redacted			

4. Operational Systems - Security Table:							
Name of System	Agency/ or Contractor Operated System?	NIST FIPS 199 Risk Impact level (High, Moderate, Low)	Has C&A been Completed, using NIST 800-37? (Y/N)	Date Completed: C&A	What standards were used for the Security Controls tests? (FIPS 200/NIST 800-53, Other, N/A)	Date Complete(d): Security Control Testing	Date the contingency plan tested
Redacted							

5. Have any weaknesses, not yet remediated, related to any of the systems part of or supporting this investment been identified by the agency or IG? No
 - a. If "yes," have those weaknesses been incorporated into the agency's plan of action and milestone process?
6. Indicate whether an increase in IT security funding is requested to remediate IT security weaknesses? Redacted
 - a. If "yes," specify the amount, provide a general description of the weakness, and explain how the funding request will remediate the weakness.
7. How are contractor security procedures monitored, verified, and validated by the agency for the contractor systems above? Redacted

8. Planning & Operational Systems - Privacy Table:					
(a) Name of System	(b) Is this a new system? (Y/N)	(c) Is there at least one Privacy Impact Assessment (PIA) which covers this system? (Y/N)	(d) Internet Link or Explanation	(e) Is a System of Records Notice (SORN) required for this system? (Y/N)	(f) Internet Link or Explanation
SWIM Lab (evaluation)	Yes	No	No, the system does not contain, process, or transmit personal identifying information.	No	No, the system is not a Privacy Act system of records.
SWIM Lab (planning)	Yes	No	No, the system does not contain, process, or transmit personal identifying information.	No	No, the system is not a Privacy Act system of records.

Details for Text Options:
 Column (d): If yes to (c), provide the link(s) to the publicly posted PIA(s) with which this system is associated. If no to (c), provide an explanation why the PIA has not been publicly posted or why the PIA has not been conducted.
 Column (f): If yes to (e), provide the link(s) to where the current and up to date SORN(s) is published in the federal register. If no to (e), provide an explanation why the SORN has not been published or why there isn't a current and up to date SORN.
 Note: Working links must be provided to specific documents not general privacy websites. Non-working links will be considered as a blank field.

Section F: Enterprise Architecture (EA) (IT Capital Assets only)

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.

1. Is this investment included in your agency's target enterprise architecture? Yes

a. If "no," please explain why?

2. Is this investment included in the agency's EA Transition Strategy? Yes

a. If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment. System-Wide Information Management

b. If "no," please explain why?

3. Is this investment identified in a completed (contains a target architecture) and approved segment architecture? Yes

a. If "yes," provide the name of the segment architecture as provided in the agency's most recent annual EA Assessment. Air Traffic

4. Service Component Reference Model (SRM) Table: Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov .								
Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
TM Strategic Flow - Flight Day Management	Flight day traffic management optimizes NAS traffic flow for the current 24-hour period. Demand profiles are compared with projections of NAS capacity for the current day and identify periods and locations where predicted demand exceeds predicted capacity. Specific responses to maximize efficiency are developed and implemented through collaboration across the NAS.	Back Office Services	Data Management	Data Exchange			No Reuse	6
ATC Advisory - Weather Advisories Capability	Weather information is available either automatically or manually through communication with ATC and other facilities. For example, pilots receive weather advisories from automated surface observing systems and other systems, ATC facilities, and aircraft operations centers (AOCs). Advisories provide both routine and hazardous weather	Back Office Services	Data Management	Data Exchange			No Reuse	6

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Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
	information and/or flight conditions at airports or along a flight path.							
TM Strategic Flow - Flight Day Management	Flight day traffic management optimizes NAS traffic flow for the current 24-hour period. Demand profiles are compared with projections of NAS capacity for the current day and identify periods and locations where predicted demand exceeds predicted capacity. Specific responses to maximize efficiency are developed and implemented through collaboration across the NAS.	Back Office Services	Data Management	Meta Data Management			No Reuse	6
ATC Advisory - Weather Advisories Capability	Weather information is available either automatically or manually through communication with ATC and other facilities. For example, pilots receive weather advisories from automated surface observing systems and other systems, ATC facilities, and aircraft operations centers (AOCs). Advisories provide both routine and hazardous weather information and/or flight conditions at airports or along a flight path.	Back Office Services	Data Management	Meta Data Management			No Reuse	5
TM Strategic Flow - Flight Day Management	Flight day traffic management optimizes NAS traffic flow for the current 24-hour period. Demand profiles are compared with projections of NAS capacity for the current day and identify periods and locations where predicted demand exceeds predicted capacity. Specific responses to	Back Office Services	Development and Integration	Data Integration			No Reuse	4

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Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to <http://www.egov.gov>.

Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
	maximize efficiency are developed and implemented through collaboration across the NAS.							
ATC Advisory - NAS Status Advisory	Information about NAS status that has changed or was not readily available during flight planning is provided to in-flight aircraft. This includes updates concerning the operational status of airspace, airports, nav aids, in-flight or ground hazards, traffic management directives, and other information that is essential to the safety and efficiency of aircraft.	Back Office Services	Development and Integration	Data Integration			No Reuse	6
ATC Advisory - Weather Advisories Capability	Weather information is available either automatically or manually through communication with ATC and other facilities. For example, pilots receive weather advisories from automated surface observing systems and other systems, ATC facilities, and aircraft operations centers (AOCs). Advisories provide both routine and hazardous weather information and/or flight conditions at airports or along a flight path.	Back Office Services	Development and Integration	Data Integration			No Reuse	6
TM Strategic Flow - Flight Day Management	Flight day traffic management optimizes NAS traffic flow for the current 24-hour period. Demand profiles are compared with projections of NAS capacity for the current day and identify periods and locations where predicted demand exceeds predicted capacity.	Back Office Services	Development and Integration	Enterprise Application Integration			No Reuse	6

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Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
	Specific responses to maximize efficiency are developed and implemented through collaboration across the NAS.							
ATC Advisory - NAS Status Advisory	Information about NAS status that has changed or was not readily available during flight planning is provided to in-flight aircraft. This includes updates concerning the operational status of airspace, airports, nav aids, in-flight or ground hazards, traffic management directives, and other information that is essential to the safety and efficiency of aircraft.	Back Office Services	Development and Integration	Enterprise Application Integration			No Reuse	6
ATC Advisory - Weather Advisories Capability	Weather information is available either automatically or manually through communication with ATC and other facilities. For example, pilots receive weather advisories from automated surface observing systems and other systems, ATC facilities, and aircraft operations centers (AOCs). Advisories provide both routine and hazardous weather information and/or flight conditions at airports or along a flight path.	Back Office Services	Development and Integration	Enterprise Application Integration			No Reuse	6
TM Strategic Flow - Flight Day Management	Flight day traffic management optimizes NAS traffic flow for the current 24-hour period. Demand profiles are compared with projections of NAS capacity for the current day and identify periods and locations where predicted demand exceeds	Digital Asset Services	Knowledge Management	Information Sharing			No Reuse	6

4. Service Component Reference Model (SRM) Table:								
Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov .								
Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
	predicted capacity. Specific responses to maximize efficiency are developed and implemented through collaboration across the NAS.							
ATC Advisory - NAS Status Advisory	Information about NAS status that has changed or was not readily available during flight planning is provided to in-flight aircraft. This includes updates concerning the operational status of airspace, airports, nav aids, in-flight or ground hazards, traffic management directives, and other information that is essential to the safety and efficiency of aircraft.	Digital Asset Services	Knowledge Management	Information Sharing			No Reuse	5
ATC Advisory - Weather Advisories Capability	Weather information is available either automatically or manually through communication with ATC and other facilities. For example, pilots receive weather advisories from automated surface observing systems and other systems, ATC facilities, and aircraft operations centers (AOCs). Advisories provide both routine and hazardous weather information and/or flight conditions at airports or along a flight path.	Digital Asset Services	Knowledge Management	Information Sharing			No Reuse	5
ATC Advisory - Weather Advisories Capability	Weather information is available either automatically or manually through communication with ATC and other facilities. For example, pilots receive weather advisories from automated	Digital Asset Services	Knowledge Management	Knowledge Capture			No Reuse	6

4. Service Component Reference Model (SRM) Table:								
Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov .								
Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
	surface observing systems and other systems, ATC facilities, and aircraft operations centers (AOCs). Advisories provide both routine and hazardous weather information and/or flight conditions at airports or along a flight path.							
TM Strategic Flow - Flight Day Management	Flight day traffic management optimizes NAS traffic flow for the current 24-hour period. Demand profiles are compared with projections of NAS capacity for the current day and identify periods and locations where predicted demand exceeds predicted capacity. Specific responses to maximize efficiency are developed and implemented through collaboration across the NAS.	Digital Asset Services	Knowledge Management	Knowledge Capture			No Reuse	5
TM Strategic Flow - Flight Day Management	Flight day traffic management optimizes NAS traffic flow for the current 24-hour period. Demand profiles are compared with projections of NAS capacity for the current day and identify periods and locations where predicted demand exceeds predicted capacity. Specific responses to maximize efficiency are developed and implemented through collaboration across the NAS.	Digital Asset Services	Knowledge Management	Knowledge Distribution and Delivery			No Reuse	6
ATC Advisory - NAS Status Advisory	Information about NAS status that has changed or was not readily available during flight planning is provided to in-flight aircraft. This includes updates concerning the	Digital Asset Services	Knowledge Management	Knowledge Distribution and Delivery			No Reuse	6

4. Service Component Reference Model (SRM) Table:								
Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov .								
Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
	operational status of airspace, airports, nav aids, in-flight or ground hazards, traffic management directives, and other information that is essential to the safety and efficiency of aircraft.							
ATC Advisory - Weather Advisories Capability	Weather information is available either automatically or manually through communication with ATC and other facilities. For example, pilots receive weather advisories from automated surface observing systems and other systems, ATC facilities, and aircraft operations centers (AOCs). Advisories provide both routine and hazardous weather information and/or flight conditions at airports or along a flight path.	Digital Asset Services	Knowledge Management	Knowledge Distribution and Delivery			No Reuse	4

a. Use existing SRM Components or identify as "NEW". A "NEW" component is one not already identified as a service component in the FEA SRM.

b. A reused component is one being funded by another investment, but being used by this investment. Rather than answer yes or no, identify the reused service component funded by the other investment and identify the other investment using the Unique Project Identifier (UPI) code from the OMB Ex 300 or Ex 53 submission.

c. 'Internal' reuse is within an agency. For example, one agency within a department is reusing a service component provided by another agency within the same department. 'External' reuse is one agency within a department reusing a service component provided by another agency in another department. A good example of this is an E-Gov initiative service being reused by multiple organizations across the federal government.

d. Please provide the percentage of the BY requested funding amount used for each service component listed in the table. If external, provide the percentage of the BY requested funding amount transferred to another agency to pay for the service. The percentages in the column can, but are not required to, add up to 100%.

5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Information Sharing	Component Framework	Business Logic	Platform Independent	Redacted
Knowledge Capture	Component Framework	Business Logic	Platform Independent	Redacted
Knowledge Distribution and Delivery	Component Framework	Business Logic	Platform Independent	Redacted
Data Exchange	Component Framework	Business Logic	Platform Independent	Redacted
Meta Data Management	Component Framework	Business Logic	Platform Independent	Redacted
Enterprise Application Integration	Component Framework	Business Logic	Platform Independent	Redacted

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5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Data Integration	Component Framework	Business Logic	Platform Independent	Redacted
Information Sharing	Component Framework	Data Interchange	Data Exchange	Redacted
Knowledge Capture	Component Framework	Data Interchange	Data Exchange	Redacted
Knowledge Distribution and Delivery	Component Framework	Data Interchange	Data Exchange	Redacted
Data Exchange	Component Framework	Data Interchange	Data Exchange	Redacted
Meta Data Management	Component Framework	Data Interchange	Data Exchange	Redacted
Enterprise Application Integration	Component Framework	Data Interchange	Data Exchange	Redacted
Data Integration	Component Framework	Data Interchange	Data Exchange	Redacted
Information Sharing	Component Framework	Data Management	Reporting and Analysis	Redacted
Knowledge Capture	Component Framework	Data Management	Reporting and Analysis	Redacted
Knowledge Distribution and Delivery	Component Framework	Data Management	Reporting and Analysis	Redacted
Data Exchange	Component Framework	Data Management	Reporting and Analysis	Redacted
Meta Data Management	Component Framework	Data Management	Reporting and Analysis	Redacted
Enterprise Application Integration	Component Framework	Data Management	Reporting and Analysis	Redacted
Data Integration	Component Framework	Data Management	Reporting and Analysis	Redacted
Information Sharing	Service Access and Delivery	Access Channels	Collaboration / Communications	Redacted
Knowledge Distribution and Delivery	Service Access and Delivery	Access Channels	Collaboration / Communications	Redacted
Data Exchange	Service Access and Delivery	Access Channels	Collaboration / Communications	Redacted
Meta Data Management	Service Access and Delivery	Access Channels	Collaboration / Communications	Redacted
Enterprise Application Integration	Service Access and Delivery	Access Channels	Collaboration / Communications	Redacted
Data Integration	Service Access and Delivery	Access Channels	Collaboration / Communications	Redacted
Information Sharing	Service Access and Delivery	Delivery Channels	Internet	Redacted
Knowledge Distribution and Delivery	Service Access and Delivery	Delivery Channels	Internet	Redacted
Data Exchange	Service Access and Delivery	Delivery Channels	Internet	Redacted
Meta Data Management	Service Access and Delivery	Delivery Channels	Internet	Redacted
Enterprise Application Integration	Service Access and Delivery	Delivery Channels	Internet	Redacted
Knowledge Capture	Service Access and Delivery	Delivery Channels	Internet	Redacted
Data Integration	Service Access and Delivery	Delivery Channels	Internet	Redacted
Information Sharing	Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)	Redacted
Knowledge Capture	Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)	Redacted
Knowledge Distribution and Delivery	Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)	Redacted
Data Exchange	Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)	Redacted
Meta Data Management	Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)	Redacted
Enterprise Application Integration	Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)	Redacted
Data Integration	Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)	Redacted
Information Sharing	Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)	Redacted
Knowledge Capture	Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)	Redacted
Knowledge Distribution and Delivery	Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)	Redacted
Data Exchange	Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)	Redacted
Meta Data Management	Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)	Redacted
Enterprise Application Integration	Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)	Redacted
Data Integration	Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)	Redacted
Information Sharing	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Redacted
Knowledge Capture	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Redacted
Knowledge Distribution and Delivery	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Redacted
Data Exchange	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Redacted
Meta Data Management	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Redacted
Enterprise Application Integration	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Redacted
Data Integration	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Redacted

5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Information Sharing	Service Access and Delivery	Service Transport	Supporting Network Services	Redacted
Knowledge Capture	Service Access and Delivery	Service Transport	Supporting Network Services	Redacted
Knowledge Distribution and Delivery	Service Access and Delivery	Service Transport	Supporting Network Services	Redacted
Data Exchange	Service Access and Delivery	Service Transport	Supporting Network Services	Redacted
Meta Data Management	Service Access and Delivery	Service Transport	Supporting Network Services	Redacted
Enterprise Application Integration	Service Access and Delivery	Service Transport	Supporting Network Services	Redacted
Data Integration	Service Access and Delivery	Service Transport	Supporting Network Services	Redacted
Information Sharing	Service Interface and Integration	Integration	Enterprise Application Integration	Redacted
Knowledge Capture	Service Interface and Integration	Integration	Enterprise Application Integration	Redacted
Knowledge Distribution and Delivery	Service Interface and Integration	Integration	Enterprise Application Integration	Redacted
Data Exchange	Service Interface and Integration	Integration	Enterprise Application Integration	Redacted
Meta Data Management	Service Interface and Integration	Integration	Enterprise Application Integration	Redacted
Enterprise Application Integration	Service Interface and Integration	Integration	Enterprise Application Integration	Redacted
Data Integration	Service Interface and Integration	Integration	Enterprise Application Integration	Redacted
Information Sharing	Service Interface and Integration	Integration	Middleware	Redacted
Knowledge Capture	Service Interface and Integration	Integration	Middleware	Redacted
Knowledge Distribution and Delivery	Service Interface and Integration	Integration	Middleware	Redacted
Data Exchange	Service Interface and Integration	Integration	Middleware	Redacted
Meta Data Management	Service Interface and Integration	Integration	Middleware	Redacted
Enterprise Application Integration	Service Interface and Integration	Integration	Middleware	Redacted
Data Integration	Service Interface and Integration	Integration	Middleware	Redacted
Information Sharing	Service Interface and Integration	Interface	Service Description / Interface	Redacted
Knowledge Capture	Service Interface and Integration	Interface	Service Description / Interface	Redacted
Knowledge Distribution and Delivery	Service Interface and Integration	Interface	Service Description / Interface	Redacted
Data Exchange	Service Interface and Integration	Interface	Service Description / Interface	Redacted
Meta Data Management	Service Interface and Integration	Interface	Service Description / Interface	Redacted
Enterprise Application Integration	Service Interface and Integration	Interface	Service Description / Interface	Redacted
Data Integration	Service Interface and Integration	Interface	Service Description / Interface	Redacted
Information Sharing	Service Interface and Integration	Interface	Service Discovery	Redacted
Knowledge Capture	Service Interface and Integration	Interface	Service Discovery	Redacted
Knowledge Distribution and Delivery	Service Interface and Integration	Interface	Service Discovery	Redacted
Data Exchange	Service Interface and Integration	Interface	Service Discovery	Redacted
Meta Data Management	Service Interface and Integration	Interface	Service Discovery	Redacted
Enterprise Application Integration	Service Interface and Integration	Interface	Service Discovery	Redacted
Data Integration	Service Interface and Integration	Interface	Service Discovery	Redacted
Information Sharing	Service Interface and Integration	Interoperability	Data Format / Classification	Redacted
Knowledge Capture	Service Interface and Integration	Interoperability	Data Format / Classification	Redacted
Knowledge Distribution and Delivery	Service Interface and Integration	Interoperability	Data Format / Classification	Redacted

5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Data Exchange	Service Interface and Integration	Interoperability	Data Format / Classification	Redacted
Meta Data Management	Service Interface and Integration	Interoperability	Data Format / Classification	Redacted
Enterprise Application Integration	Service Interface and Integration	Interoperability	Data Format / Classification	Redacted
Data Integration	Service Interface and Integration	Interoperability	Data Format / Classification	Redacted
Information Sharing	Service Interface and Integration	Interoperability	Data Transformation	Redacted
Knowledge Capture	Service Interface and Integration	Interoperability	Data Transformation	Redacted
Knowledge Distribution and Delivery	Service Interface and Integration	Interoperability	Data Transformation	Redacted
Data Exchange	Service Interface and Integration	Interoperability	Data Transformation	Redacted
Meta Data Management	Service Interface and Integration	Interoperability	Data Transformation	Redacted
Enterprise Application Integration	Service Interface and Integration	Interoperability	Data Transformation	Redacted
Data Integration	Service Interface and Integration	Interoperability	Data Transformation	Redacted
Information Sharing	Service Interface and Integration	Interoperability	Data Types / Validation	Redacted
Knowledge Capture	Service Interface and Integration	Interoperability	Data Types / Validation	Redacted
Knowledge Distribution and Delivery	Service Interface and Integration	Interoperability	Data Types / Validation	Redacted
Data Exchange	Service Interface and Integration	Interoperability	Data Types / Validation	Redacted
Meta Data Management	Service Interface and Integration	Interoperability	Data Types / Validation	Redacted
Enterprise Application Integration	Service Interface and Integration	Interoperability	Data Types / Validation	Redacted
Data Integration	Service Interface and Integration	Interoperability	Data Types / Validation	Redacted
Information Sharing	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Redacted
Knowledge Capture	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Redacted
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Redacted
Data Exchange	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Redacted
Meta Data Management	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Redacted
Enterprise Application Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Redacted
Data Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Redacted
Information Sharing	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Redacted
Knowledge Capture	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Redacted
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Redacted
Data Exchange	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Redacted
Meta Data Management	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Redacted
Enterprise Application Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Redacted
Data Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Redacted
Information Sharing	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)	Redacted
Knowledge Capture	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)	Redacted
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)	Redacted
Data Exchange	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)	Redacted

5. Technical Reference Model (TRM) Table:

To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.

FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Meta Data Management	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)	Redacted
Enterprise Application Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)	Redacted
Data Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)	Redacted
Information Sharing	Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	Redacted
Knowledge Capture	Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	Redacted
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	Redacted
Data Exchange	Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	Redacted
Meta Data Management	Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	Redacted
Enterprise Application Integration	Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	Redacted
Data Integration	Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	Redacted
Information Sharing	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Redacted
Knowledge Capture	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Redacted
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Redacted
Data Exchange	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Redacted
Meta Data Management	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Redacted
Enterprise Application Integration	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Redacted
Data Integration	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Redacted
Information Sharing	Service Platform and Infrastructure	Support Platforms	Platform Independent	Redacted
Knowledge Capture	Service Platform and Infrastructure	Support Platforms	Platform Independent	Redacted
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Support Platforms	Platform Independent	Redacted
Data Exchange	Service Platform and Infrastructure	Support Platforms	Platform Independent	Redacted
Meta Data Management	Service Platform and Infrastructure	Support Platforms	Platform Independent	Redacted
Enterprise Application Integration	Service Platform and Infrastructure	Support Platforms	Platform Independent	Redacted
Data Integration	Service Platform and Infrastructure	Support Platforms	Platform Independent	Redacted

a. Service Components identified in the previous question should be entered in this column. Please enter multiple rows for FEA SRM Components supported by multiple TRM Service Specifications

b. In the Service Specification field, agencies should provide information on the specified technical standard or vendor product mapped to the FEA TRM Service Standard, including model or version numbers, as appropriate.

6. Will the application leverage existing components and/or applications across the Government (i.e., FirstGov, Pay.Gov, etc)?

a. If "yes," please describe.

SWIM is leveraging lessons learned from the other agencies that have already implemented SWIM-like concepts such as the Global Information Grid (GIG).

Exhibit 300: Part II: Planning, Acquisition and Performance Information

Section A: Alternatives Analysis (All Capital Assets)

Part II should be completed only for investments identified as "Planning" or "Full Acquisition," or "Mixed Life-Cycle" investments in response to Question 6 in Part I, Section A above.

In selecting the best capital asset, you should identify and consider at least three viable alternatives, in addition to the current baseline, i.e., the status quo. Use OMB Circular A-94 for all investments and the Clinger Cohen Act of 1996 for IT investments to determine the criteria you should use in your Benefit/Cost Analysis.

- 1. Did you conduct an alternatives analysis for this project? Yes
 - a. If "yes," provide the date the analysis was completed? 5/25/2007
 - b. If "no," what is the anticipated date this analysis will be completed?
 - c. If no analysis is planned, please briefly explain why:

2. Alternative Analysis Results:			* Costs in millions
Use the results of your alternatives analysis to complete the following table:			
Alternative Analyzed	Description of Alternative	Risk Adjusted Lifecycle Costs estimate	Risk Adjusted Lifecycle Benefits estimate
Redacted			

3. Which alternative was selected by the Agency's Executive/Investment Committee and why was it chosen?

Redacted

4. What specific qualitative benefits will be realized?

Redacted

5. Will the selected alternative replace a legacy system in-part No or in-whole?

a. If "yes," are the migration costs associated with the migration to the selected alternative included in this investment, the legacy investment, or in a separate migration investment.

b. If "yes," please provide the following information:

List of Legacy Investment or Systems		
Name of the Legacy Investment of Systems	UPI if available	Date of the System Retirement

Section B: Risk Management (All Capital Assets)

You should have performed a risk assessment during the early planning and initial concept phase of this investment's life-cycle, developed a risk-adjusted life-cycle cost estimate and a plan to eliminate, mitigate or manage risk, and be actively managing risk throughout the investment's life-cycle.

- 1. Does the investment have a Risk Management Plan? Yes
 - a. If "yes," what is the date of the plan? 3/1/2007
 - b. Has the Risk Management Plan been significantly changed since last year's submission to OMB? Yes
 - c. If "yes," describe any significant changes:

The Risk Management Plan was not submitted last year since SWIM was in the planning phase. The approved risk management process requires proactively monitoring of risks and mitigation activities, keeping risk register/database updated (monthly), and keeping the management informed of any emerging high risks. A Risk Assessment Team was formed to identify and assess risks that would affect the investment analysis using the risk analysis process described in the FAA System Engineering Manual v3.0, dated 9/30/04. One high risk, 13 medium risks, and 13 low risks were identified. The one high risk was identified: for the risk of software development using a new technology, such as Service Oriented Architecture (SOA). Since the JRC, the risk has been mitigated to a medium level by SOA training that has been completed, and by proposing a design which compartmentalizes software containing SOA technology. The risk will be also be mitigated by conducting a formal Trade Study in FY08 that includes purchase of selected SOA supporting technologies and prototyping these against COI requirements in the WJHTC SWIM Lab. During development, COIs will apply proven software development processes and will use the SWIM

Support Lab for prototyping SWIM capabilities.

2. If there currently is no plan, will a plan be developed?

- a. If "yes," what is the planned completion date?
- b. If "no," what is the strategy for managing the risks?

3. Briefly describe how investment risks are reflected in the life cycle cost estimate and investment schedule:

The FAA System Engineering Manual is currently used as the guidance for developing and maintaining risks. As part of the investment analysis risk assessment, identified risks were mapped to WBS elements. F&E WBS elements with the highest risk percentages were WBS 3.3.2 (Software Design and Development (risk range -30/+110), WBS 3.3.3 HW/SW Integration, Assembly, Test and Checkout (risk range -30/+110), WBS 3.2.1 System Engineering Management (risk range -15/+70 for core services, -15/+55 for F&FM COI and -15/+45 for AIM COI and Wx COI) and WBS 3.5.1 System Development Test and Evaluation/WBS 3.5.2 System Operational Test and Evaluation (risk range -15/+60 for core services and F&FM COI, -15/+50 for AIM COI and Wx COI). O&M WBS elements with the highest risk percentages were WBS 5.10.3 HW and SW Engineering Support (risk range -5/+35) and WBS 5.10.9 SW Licenses (risk range -5/+35).

Based on the identified risk bands for each WBS element in the Cost Estimate, new risk-adjusted cost estimates were generated. The risk-adjusted (80% confidence level) cost estimate was derived using a Monte Carlo simulation. Addition of risk to the SWIM segment 1 estimate resulted in a total life-cycle cost increase of 11.3%. The F&E life-cycle cost increase was 12.9% and the O&M life-cycle cost increase was 10.0%.

The risk assessment identified several key areas of the program that have the potential to impact schedule. After the risk factors were applied to appropriate activities identified in the SWIM schedule, an 80% confidence level for the schedule durations was selected. Risk+ software, also employing Monte Carlo simulation, was used to develop the 80% confidence estimates. The simulation determined a completion date for each WBS schedule element that had a risk range assigned by the Risk Assessment Team in order to generate the risk-adjusted schedule. Assessment of the impacts of risks on the SWIM schedule resulted in near term activities being risk-adjusted by 3-9 months, and longer term activities being adjusted by 6-12 months.

Section C: Cost and Schedule Performance (All Capital Assets)

EVM is required only on DME portions of investments. For mixed lifecycle investments, O&M milestones should still be included in the table (Comparison of Initial Baseline and Current Approved Baseline). This table should accurately reflect the milestones in the initial baseline, as well as milestones in the current baseline.

1. Does the earned value management system meet the criteria in ANSI/EIA Standard-748? No

2. Is the CV% or SV% greater than +/- 10%? (CV%= CV/EV x 100; SV%= SV/PV x 100) No

- a. If "yes," was it the CV or SV or both?
- b. If "yes," explain the causes of the variance:
- c. If "yes," describe the corrective actions:

The previous EVM assessment showed that SWIM does not meet the intent of the ANSI/EIA Standard because the program was in the planning stage at the time of the assessment. The SWIM Program will be reviewed in early FY08 by the FAA EVM Focal Point to verify the EVM and POA&M implementation is consistent with the ANSI/EIA 748 Standard. The SWIM program was baselined in June 2007. EVM reporting will start after EVM review.

3. Has the investment re-baselined during the past fiscal year? No

a. If "yes," when was it approved by the agency head?

4. Comparison of Initial Baseline and Current Approved Baseline

Complete the following table to compare actual performance against the current performance baseline and to the initial performance baseline. In the Current Baseline section, for all milestones listed, you should provide both the baseline and actual completion dates (e.g., "03/23/2003"/ "04/28/2004") and the baseline and actual total costs (in \$ Millions). In the event that a milestone is not found in both the initial and current baseline, leave the associated cells blank. Note that the 'Description of Milestone' and 'Percent Complete' fields are required. Indicate 'O' for any milestone no longer active.

Milestone Number	Description of Milestone	Initial Baseline		Current Baseline				Current Baseline Variance		Percent Complete
		Planned Completion Date (mm/dd/yyyy)	Total Cost (\$M) Estimated	Completion Date (mm/dd/yyyy)		Total Cost (\$M)		Schedule (# days)	Cost (\$M)	
				Planned	Actual	Planned	Actual			
Redacted										