

FBI Sentinel

Exhibit 300: Part I: Summary Information and Justification (All Capital Assets)

I.A. Overview

1. Date of Submission:	8/4/2006
2. Agency:	Department of Justice
3. Bureau:	Federal Bureau of Investigation
4. Name of this Capital Asset:	FBI Sentinel
5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.)	011-10-02-00-01-3211-00
6. What kind of investment will this be in FY2008? (Please NOTE: Investments moving to O&M ONLY in FY2008, with Planning/Acquisition activities prior to FY2008 should not select O&M. These investments should indicate their current status.)	Mixed Life Cycle
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:

Per the FBI/OIPP, for a description and justification of this project, please refer previous Exhibit 300 submissions. Below are a response to Sec. B Questions 1-7 of OMB Memo (Evans) dated 31 Aug 06 on how Sentinel Supports the Information Sharing Environment. 1: As the first implementation of the interagency Federal Investigative Case Management System (FICMS) framework, SENTINEL supports Defense and National Security through the management and intelligent storage of FBI investigative case information. 2: SENTINEL actively participates in the National Information Exchange Model (NIEM) effort co-sponsored by DOJ and DHS. SENTINEL will provide ISE packages for the Justice and Intelligence Domains of NIEM. SENTINEL participates in the ISE PM Common Information Sharing Standards (CISS) effort and adheres to the reference standards therein. 3: SENTINEL will contain investigative case data which can be used for suspicious activity reports and watch list development and sharing, by using common standards established pursuant to section 3 of Executive Order 13388. 4: SENTINEL supports HSPD-6 via support for data sharing standards common to both FTTTF and TSC, including NIEM and the CISS standards. As a member of the IC Enterprise Architecture Data Management Committee, SENTINEL adheres to guidelines for SBU, privacy and training activities consistent with Executive Orders 13311 and 13388, section 892 of the Homeland Security Act of 2002 and section 1016 of IRTPA. 5: SENTINEL works directly with the FBI project team creating an FBI-wide electronic directory service to be used as an authoritative source for IAM (identity, authentication, and authorization management). Electronic directory services will be integrated through the new FBI Service-Oriented Architecture. 6: SENTINEL will provide access via information sharing to all cases, records, and reports related to terrorism using accepted IC data standards. 7: Many new search and retrieval technologies will be used in the SENTINEL program, including entity extraction, full-text indexing, metadata management, relational database technology, data cleansing technologies, and a sophisticated COTS document (record) management system. Using proven industry standards such as ISO/IEC 11179 for consistent entity

naming, Dublin Core (ISO 15836) for document retrieval, and the IC standards underlying CISS.

9. Did the Agency's Executive/Investment Committee approve this request?	Yes
a. If "yes," what was the date of this approval?	5/19/2006
10. Did the Project Manager review this Exhibit?	Yes
11. Contact information of Project Manager?	
Name	
Mr. Miodrag Lazarevich	
Phone Number	703-983-9610
Email	Miodrag.Lazarevich@ic.fbi.gov
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?	No
2. If "yes," will this investment meet sustainable design principles?	No
3. If "yes," is it designed to be 30% more energy efficient than relevant code?	
13. Does this investment support one of the PMA initiatives?	Yes
If "yes," check all that apply:	Human Capital, Budget Performance Integration, Expanded E-Government
13a. Briefly describe how this asset directly supports the identified initiative(s)?	E-Gov - maximizes productivity gains from technology, eliminates redundant systems, and improves sharing information more quickly and conveniently with other agencies Human Capital - enables the FBI to manage employees and their job assignments, while providing an opportunity to increase their efficiency and productivity by supervisors Budget & Performance - provides managers with workload, resource, and performance information, with which they can monitor and improve their results

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.)	Yes
a. If "yes," does this investment address a weakness found during the PART review?	Yes
b. If "yes," what is the name of the PART program assessed by OMB's Program Assessment Rating Tool?	Counterintelligence; Counterterrorism; Criminal Justice Services; Cyber Crime; Organized Crime/Drug Enforcement; White Collar Crime
c. If "yes," what PART rating did it receive?	Adequate
15. Is this investment for information technology?	Yes
If the answer to Question: "Is this investment for information technology?" was "Yes," complete this sub-section. If the answer is "No," do not answer this sub-section.	
For information technology investments only:	
16. What is the level of the IT Project? (per CIO Council PM Guidance)	Level 2
17. What project management qualifications does the Project Manager have? (per CIO Council PM Guidance):	(4) Project manager assigned but qualification status review has not yet started
18. Is this investment identified as "high risk" on the Q4 - FY 2006 agency high risk report (per OMB's "high risk" memo)?	Yes
19. Is this a financial management system?	No
a. If "yes," does this investment address a FFMI A 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 FY2008 funding request for the following? (This should total 100%)	
Hardware	26
Software	24
Services	47

Other

3

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

Kelley, Patrick W

Phone Number

(202) 324-8067

Title

Deputy General Counsel/Senior Privacy Official

E-mail

Patrick.Kelley@ic.fbi.gov

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

No

I.B. Summary of Funding

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 2006	CY 2007	BY 2008	BY + 1 2009	BY + 2 2010	BY + 3 2011	BY + 4 and Beyond	Total
Planning									
Budgetary Resources	4.34	0	0	0	0	0	0	0	
Acquisition									

Budgetary Resources	0	89.092	156.714	50.367					
Subtotal Planning & Acquisition									
Budgetary Resources	4.34	89.092	156.714	50.367					
Operations & Maintenance									
Budgetary Resources	0	0	0	2.469					
TOTAL									
Budgetary Resources	4.34	89.092	156.714	52.836					
Government FTE Costs									
Budgetary Resources	0.849	4.16	4.313	4.468					
Number of FTE represented by Costs:	3.4	16	16	16					

Note: For the cross-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?

3. If the summary of spending has changed from the FY2007 President's budget request, briefly explain those changes:

In the FY2007 President's budget request the Sentinel program has a total cost \$503M (FY2005-2011). The Sentinel development contract was awarded in the second quarter of FY2006. Based on the new contract proposal the contract award the total cost is now \$450.3M including Government FTE costs of \$20.9M, which is a decrease of \$53.6M over the program's earlier estimate of \$503.9M, which was projected before contract award. The Sentinel program had originally projected that it would require funding for Phases 1 and 2 in FY2006. However, with the revised phasing from the new notional schedule based on the contract award, Phase 2 will begin April 2007 or third quarter of FY2007. Based on the new contract proposal and changes in the Phases the new budget requirement in FY2007 is \$169.7. This is an increase of \$69.4M from the FY2007 requirement in the FY2007 President's Budget Request. The additional \$65.4M is required by the program in Phase 2 in order to keep the program schedule on track, as Phase 2 and 3 are the most critical phases as well as having the largest combined deliverables. The Phase 3 requirement, which is \$56.2 M, will be funded in FY2008.

I.C. Acquisition/Contract Strategy

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.

Contracts/Task Orders Table:

[Contracts/Task Orders Table](#)

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:

3. Do the contracts ensure Section 508 compliance?	Yes
a. Explain why:	The requirements to satisfy Section 508 are incorporated in the System Requirements Specification (SRS). As such, they are the requirements of the development contractor. During source selection and negotiations, the FBI reviewed and accepted the contractor's plan to meet these requirements. The FBI will oversee the contract to ensure compliance.
4. Is there an acquisition plan which has been approved in accordance with agency requirements?	Yes
a. If "yes," what is the date?	8/3/2005
b. If "no," will an acquisition plan be developed?	
1. If "no," briefly explain why:	

I.D. Performance Information

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 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 Table 1 below for reporting performance goals and measures for all non-IT investments and for existing IT investments that were initiated prior to FY 2005. The table can be extended to include measures for years beyond FY 2006.

Performance Information Table 1:					
Fiscal Year	Strategic Goal(s) Supported	Performance Measure	Actual/baseline (from Previous Year)	Planned Performance Metric (Target)	Performance Metric Results (Actual)

All new IT investments initiated for FY 2005 and beyond must use Table 2 and are required to use the Federal Enterprise Architecture (FEA) Performance Reference Model (PRM). Please use Table 2 and the PRM to identify the performance information pertaining to this major IT investment. 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 at least four different Measurement Areas (for each fiscal year). The PRM is available at www.egov.gov.

Performance Information Table 2:

Fiscal Year	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Planned Improvement to the Baseline	Actual Results
2008	Customer Results	Customer Benefit	Customer Impact or Burden	Workbox Productivity, measured by the number of hours that can be transitioned from 'non-value-added' to 'value-added tasks	Specialists spend 0.25 hours per business day obtaining agent workload information.	Reduce time to obtain agent workload information to .05 hours.	TBD
2008	Mission and Business Results	Law Enforcement	Criminal Investigation and Surveillance	Operational Efficiency, measured by the number of individual systems an agent/ analyst must access to obtain investigative case information.	Users must access nine (9) systems individually to access the various data elements comprising investigative case management.	Users will have one (1) single point of entry for investigative case management information. Allows agents/	TBD
2008	Technology	Quality	Compliance and Deviations	Data accuracy	25%	5%	TBD
2008	Technology	Quality	Functionality	Functionality	The current multimedia functionality is extremely limited. Less than 10% of all case files have multimedia attachments.	SENTINEL will have the functionality to provide multimedia files to 100% of all case files within the FBI.	TBD
2008	Technology	Reliability and Availability	Availability	Availability	ACS operates at 99% availability. The large number of investigative case management systems with an availability measure of less than 1 implies the overall availability is appreciably less than 99%. Users must be physically connected to ACS to upload	SENTINEL will provide an operational availability of at least 99.98% with 24 hours continuous daily operations. This measure applies to all SENTINEL Phases. SENTINEL will allow creation of documents off-line and the upload of this information.	TBD
2009	Customer Results	Customer Benefit	Customer Impact or	Workbox Productivity, measured by the	Specialists spend 0.25 hours per business day obtaining	Reduce time to obtain agent workload information to .05	TBD

			Burden	number of hours that can be transitioned from 'non-value-added' to 'value-added tasks	agent workload information.	hours	
2009	Customer Results	Service Accessibility	Availability	Information Sharing, measured by the number of serials (or artifacts) that are maintained electronically	Seventy percent (70%) of case file artifacts are maintained electronically.	Case file artifacts maintained electronically will increase to ninety-five percent (95%) for new case files. Allows the intelligence community to obtain more investigative data in less time.	TBD
2009	Customer Results	Timeliness and Responsiveness	Delivery Time	Search Profile Efficiency, measured as the time between the entry of information into the system and the associated notification to an interested user	Users must re-generate and re-submit queries to identify any new information that has been entered into the system. Queries are not saved.	SENTINEL will allow users to create a search profile that pushes matching information to the user within 45 minutes of that information's entry into SENTINEL. This will provide agents with a more efficient and effective data search	TBD
2009	Mission and Business Results	Law Enforcement	Criminal Investigation and Surveillance	Availability of Information, measured by the lag time after which approved information is available to authorized users	Availability of information varies greatly based on document type and geographic location. Upon final approval, information is available to authorized users in a timeframe that ranges from approximately 9 hours to 6 months. Currently, some case file	Approved information maintained by SENTINEL will be made available to authorized users within 10 minutes. The information expected to be made available in Phase II includes work products submitted to workflow and information provided through reports.	TBD
2009	Technology	Quality	Compliance and Deviations	Data Quality, measured through accuracy, validity, and completeness	25.7% of UNI index records have no supporting ICM case record	100%	TBD
2009	Technology	Quality	Functionality	Functionality	The current multimedia functionality is extremely limited. Less than 10% of all case files have multimedia attachments within the file themselves.	SENTINEL will provide the functionality to provide multimedia files to 100% of all case files within the FBI. This will increase readily accessible information at an agent's fingertips as well as reduce manpower in logistically acquiring such info.	TBD

2009	Technology	Reliability and Availability	Availability	Availability	ACS operates at 99% availability. The large number of investigative case management systems with an availability measure of less than 1 implies the overall availability is appreciably less than 99%. Users must be physically connected to ACS to upload	SENTINEL will provide an operational availability of at least 99.98% with 24 hours continuous daily operations. This measure applies to all SENTINEL Phases. SENTINEL will allow creation of documents off-line and the upload of this information.	TBD
2010	Customer Results	Customer Benefit	Customer Impact or Burden	Workbox Productivity, measured by the number of hours that can be transitioned from 'non-value-added' to 'value-added tasks	Specialists spend 0.25 hours per business day obtaining agent workload information.	Reduce time to obtain agent workload information to .05 hours.	TBD
2010	Customer Results	Customer Benefit	Customer Impact or Burden	Indexing Productivity, measured by the number of hours that can be transitioned from 'non-value-added' to 'value-added tasks	Specialists spend approximately 3.2 hours per business day indexing records.	The time specialists spend indexing records will be reduced to 0 hours per day. Allowing agents to spend more of their time on 'value-added' tasks	TBD
2010	Customer Results	Service Accessibility	Availability	Information Sharing, measured by the number of serials (or artifacts) that are maintained electronically	Seventy percent (70%) of case file artifacts are maintained electronically.	Case file artifacts maintained electronically will increase to ninety-five percent (95%) for new case files. Allowing the intelligence community to obtain more investigative data in less time	TBD
2010	Customer Results	Timeliness and Responsiveness	Delivery Time	Search Profile Efficiency, measured as the time between the entry of information into the system and the associated notification to an interested user	Users must re-generate and re-submit queries to identify any new information that has been entered into the system. Queries are not saved.	SENTINEL will allow users to create a search profile that pushes matching information to the user within 45 minutes of that information's entry into SENTINEL. This will provide agents with a more efficient and effective data search	TBD
2010	Mission and Business Results	Law Enforcement	Criminal Investigation and Surveillance	Availability of Information, measured by the lag time after which approved information is available	Upon final approval, information is available to authorized users in a timeframe that ranges from approximately 9 hours to 6	SENTINEL Phase IV is expected to provide data that supports management and human resource allocation. Upon final approval, SENTINEL information	TBD

				to authorized users	months. Currently, some case file information is never made available electronically.	will be made available to authorized users within 10 minutes. Reducing the amount of time it takes.	
2010	Technology	Quality	Compliance and Deviations	Data Quality, measured through accuracy, validity, and completeness	Various measures of data quality have been collected in the past without the benefit of an integrated data quality program. These analyses indicate that 25.7% of UNI index records have no supporting ICM case record.	SENTINEL will have a data accuracy error rate of no more than 5% as determined by comparing the database contents against the information contained in the original source. This planned improvement will apply to all SENTINEL Phases.	TBD
2010	Technology	Quality	Functionality	Functionality	The current multimedia functionality is extremely limited. Less than 10% of all case files have multimedia attachments within the file themselves.	SENTINEL will provide the functionality to provide multimedia files to 100% of all case files within the FBI. This will increase readily accessible information at an agent's fingertips as well as reduce manpower in logistically acquiring info.	TBD
2010	Technology	Reliability and Availability	Availability	Availability	ACS operates at 99% availability.	SENTINEL will provide an operational availability of at least 99.98%	TBD
2011	Customer Results	Customer Benefit	Customer Impact or Burden	Indexing Productivity, measured by the number of hours that can be transitioned from 'non-value-added' to 'value-added tasks	Specialists spend approximately 3.2 hours per business day indexing records.	The time specialists spend indexing records will be reduced to 0 hours per day. Allowing agents to spend more of their time on 'value-added' tasks	TBD
2011	Customer Results	Customer Benefit	Customer Impact or Burden	Workbox Productivity, measured by the number of hours that can be transitioned from 'non-value-added' to 'value-added tasks	Specialists spend 0.25 hours per business day obtaining agent workload information.	Reduce time to obtain agent workload information to .05 hours.	TBD
2011	Customer Results	Service Accessibility	Availability	Information Sharing, measured by the number of serials (or artifacts) that are maintained electronically	Seventy percent (70%) of case file artifacts are maintained electronically.	Case file artifacts maintained electronically will increase to ninety-five percent (95%) for new case files. Allowing the intelligence community to obtain more investigative data in less	TBD

						time	
2011	Customer Results	Timeliness and Responsiveness	Delivery Time	Search Profile Efficiency, measured as the time between the entry of information into the system and the associated notification to an interested user	Users must re-generate and re-submit queries to identify any new information that has been entered into the system. Queries are not saved.	SENTINEL will allow users to create a search profile that pushes matching information to the user within 45 minutes of that information's entry into SENTINEL. This will provide agents with a more efficient and effective data search	TBD
2011	Mission and Business Results	Law Enforcement	Criminal Investigation and Surveillance	Availability of Information, measured by the lag time after which approved information is available to authorized users	Upon final approval, information is available to authorized users in a timeframe that ranges from approximately 9 hours to 6 months. Currently, some case file information is never made available electronically.	SENTINEL Phase IV is expected to provide data that supports management and human resource allocation. Upon final approval, SENTINEL information will be made available to authorized users within 10 minutes. Reducing the amount of time it takes.	TBD
2011	Technology	Quality	Functionality	Functionality	The current multimedia functionality is extremely limited. Less than 10% of all case files have multimedia attachments within the file themselves.	SENTINEL will provide the functionality to provide multimedia files to 100% of all case files within the FBI. This will increase readily accessible information at an agent's fingertips as well as reduce manpower in logistically acquiring info.	TBD
2011	Technology	Reliability and Availability	Availability	Availability	ACS operates at 99% availability. The large number of investigative case management systems with an availability measure of less than 1 implies the overall availability is appreciably less than 99%. Users must be physically connected to ACS.	SENTINEL will provide an operational availability of at least 99.98% with 24X 7 operations. This measure applies to all SENTINEL Phases. SENTINEL will allow the creation of documents off-line and the upload of this information.	TBD

I.E. Security and Privacy

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).

All systems supporting and/or part of this investment should be included in the tables below, inclusive of both agency owned systems and contractor systems. For IT investments under development, security and privacy planning must proceed in parallel with the development of the system/s to ensure IT security and privacy requirements and costs are identified and incorporated into the overall lifecycle of the system/s.

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: Yes

a. If "yes," provide the "Percentage IT Security" for the budget year: 2.30

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 - Security Table:

Name of System	Agency/ or Contractor Operated System?	Planned Operational Date	Planned or Actual C&A Completion Date
SENTINEL Phase 1	Government Only	4/1/2007	1/1/2007
SENTINEL Phase 2	Government Only	5/1/2008	4/1/2008
SENTINEL Phase 3	Government Only	2/1/2009	1/1/2009
SENTINEL Phase 4	Government Only	12/1/2009	11/1/2009

4. Operational Systems - Security Table:

Name of System	Agency/ or Contractor Operated System?	NIST FIPS 199 Risk Impact level	Has C&A been Completed, using NIST 800-37?	Date C&A Complete	What standards were used for the Security Controls tests?	Date Complete(d): Security Control Testing	Date the contingency plan tested
----------------	--	---------------------------------	--	-------------------	---	--	----------------------------------

5. Have any weaknesses related to any of the systems part of or supporting this investment been identified by the agency or IG?

a. If "yes," have those weaknesses been incorporated agency's plan of action and milestone process?

6. Indicate whether an increase in IT security funding is requested to remediate IT security weaknesses?

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, validated by the agency for the contractor systems above?

8. Planning & Operational Systems - Privacy Table:

Name of System	Is this a new system?	Is there a Privacy Impact Assessment (PIA) that covers this system?	Is the PIA available to the public?	Is a System of Records Notice (SORN) required for this system?	Was a new or amended SORN published in FY 06?
SENTINEL Phase 1	Yes	Yes.	No, because a PIA is not yet required to be completed at this time.	Yes	No, because the existing Privacy Act system of records was not substantially revised in FY 06.
SENTINEL Phase 2	Yes	No.	No, because a PIA is not yet required to be completed at this time.	Yes	No, because the existing Privacy Act system of records was not substantially revised in FY 06.
SENTINEL Phase 3	Yes	No.	No, because a PIA is not yet required to be completed at this time.	Yes	No, because the existing Privacy Act system of records was not substantially revised in FY 06.
SENTINEL Phase 4	Yes	No.	No, because a PIA is not yet required to be completed at this time.	Yes	No, because the existing Privacy Act system of records was not substantially revised in FY 06.

I.F. Enterprise Architecture (EA)

In order to successfully address this area of the business case and capital asset plan you must ensure the investment is included in the agency's EA and Capital Planning and Investment Control (CPIC) process, and is mapped to and supports the FEA. You must also ensure the business case demonstrates 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. SENTINEL

b. If "no," please explain why?

3. Service 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.whitehouse.gov/omb/egov/>.

Agency Component Name	Agency Component Description	Service Domain	FEA SRM Service Type	FEA SRM Component	FEA Service Component Reused Name	FEA Service Component Reused UPI	Internal or External Reuse?	BY Funding Percentage
		Back Office Services	Data Management	Data Classification			No Reuse	10
		Back Office Services	Data Management	Data Exchange			No Reuse	20
		Back Office Services	Development and Integration	Legacy Integration			No Reuse	50
		Back Office Services	Human Capital / Workforce Management	Contingent Workforce Management			No Reuse	0
		Customer Services	Customer Preferences	Alerts and Notifications			No Reuse	0
		Customer Services	Customer Preferences	Personalization			No Reuse	0
		Digital Asset Services	Document Management	Document Revisions			No Reuse	5
		Digital Asset Services	Document Management	Library / Storage			No Reuse	5
		Process Automation Services	Tracking and Workflow	Case Management			No Reuse	0
		Support	Security	Audit Trail Capture			No Reuse	10

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

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.

'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.

Please provide the percentage of the BY requested funding amount used for each service component listed in the table. If external, provide the funding level transferred to another agency to pay for the service.

4. 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	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (i.e. vendor or product name)
Data Exchange	Component Framework	Business Logic	Platform Independent	TBD
Data Classification	Component Framework	Data Interchange	Data Exchange	TBD
Contingent Workforce Management	Component Framework	Security	Supporting Security Services	TBD
Personalization	Service Access and Delivery	Access Channels	Collaboration / Communications	TBD
Alerts and Notifications	Service Access and Delivery	Access Channels	Web Browser	TBD
Alerts and Notifications	Service Access and Delivery	Delivery Channels	Extranet	TBD
Alerts and Notifications	Service Access and Delivery	Delivery Channels	Intranet	TBD
Alerts and Notifications	Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)	TBD
Alerts and Notifications	Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)	TBD
Case Management	Service Access and Delivery	Service Requirements	Legislative / Compliance	TBD
Audit Trail Capture and	Service Interface and	Interoperability	Data Types / Validation	TBD

Analysis	Integration			
Legacy Integration	Service Interface and Integration	Interoperability	Data Types / Validation	TBD
Alerts and Notifications	Service Platform and Infrastructure	Delivery Servers	Web Servers	TBD
Alerts and Notifications	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	TBD
Library / Storage	Service Platform and Infrastructure	Support Platforms	Platform Dependent	TBD
Document Revisions	Service Platform and Infrastructure	Support Platforms	Platform Independent	TBD

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

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.

5. Will the application leverage existing components and/or applications across the Government (i.e., FirstGov, Pay.Gov, etc)? No

a. If "yes," please describe.

6. Does this investment provide the public with access to a government automated information system? No

a. If "yes," does customer access require specific software (e.g., a specific web browser version)?

1. If "yes," provide the specific product name(s) and version number(s) of the required software and the date when the public will be able to access this investment by any software (i.e. to ensure equitable and timely access of government information and services).

II.A. Alternatives Analysis

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?** 9/1/2005
- 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:

Use the results of your alternatives analysis to complete the following table:

Send to OMB	Alternative Analyzed	Description of Alternative	Risk Adjusted Lifecycle Costs estimate	Risk Adjusted Lifecycle Benefits estimate
True	Alternative 1 - Service-Oriented Architecture	SENTINEL will employ a new Service-Oriented Architecture (SOA) approach to development. An SOA establishes a number of automated services that manage information for users or other systems. SOAs allow for the integration of Commercial-Off-The-Shelf (COTS) packages to satisfy various business needs by designing interface applications that utilize COTS functionality. The interfaces will need to fit into the defined SOA and information security employed to protect critical business data.	450.359	0
True	Baseline	Status quo	0	0

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

Alternative 1, the Service-Oriented Architecture (SOA) was selected as the best alternative for the FBI. Each alternative was evaluated using the Value Measuring Methodology (VMM), which evaluates alternatives based on benefits (value), cost, and risk. The SOA alternative had the highest assessed value (90.6 out of 100) among the alternatives considered and is the best approach to foster information sharing and ensure adaptability of future FBI systems.

4. What specific qualitative benefits will be realized?

One of the benefits of Sentinel is that it will use an SOA and that existing legacy systems can remain, provided a web service is established to act as the interface into that systems functionality and data. To that end, the legacy Automated Case Support (ACS) system can remain while new SENTINEL services are developed to augment and replace those functions provided by ACS. A similar benefit exists when integrating Commercial Off-The-Shelf (COTS) packages into an SOA. The process of integrating a COTS package to satisfy a group of business needs is simply the creation of defining interface services that utilize the COTS functionality. Moreover, many COTS packages are developing Application Program Interfaces (APIs) that support web services. Hence, the integration process is significantly easier. Most of the functionality required for SENTINEL can be supported through the selection of appropriate COTS packages. The interface service required for each of the packages would need to fit into the defined SENTINEL SOA, and data security services need to be employed to ensure business information is properly protected. Implementing an SOA for SENTINEL will positively affect the enterprise. Basing the future on an SOA will bring the FBI's information technology capabilities into the 21st century. In addition, conforming to this modern standard will establish the FBI as a leader in conforming to Intelligence Community information sharing standards and meeting the direction provided by OMB, DOJ and the National Academy of Sciences (NAS). In the end, users will be able to access one portal for most of their investigative and analytical needs. Sentinel will connect systems and information not previously linked and add analytical tools that will increase the productivity of employees, timeliness of analysis and quality of information.

II.B. Risk Management

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?	7/8/2005
b. Has the Risk Management Plan been significantly changed since last year's submission to OMB?	No

c. If "yes," describe any significant changes:

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 overall Sentinel program plan is intended to minimize program risk. The Sentinel cost baseline reflects a risk adjusted cost estimate for the WBS reflecting the technical risk and cost uncertainty inherent in the estimate. On June 29, 2006, the Integrated Master Schedule was baselined and consequently the cost of identified risk is being assessed by the Sentinel PMO to determine their impact on the life cycle cost estimate and schedule.

II.C. Cost and Schedule Performance

1. Does the earned value management system meet the criteria in ANSI/EIA Standard-748?	Yes
2. Answer the following questions about current cumulative cost and schedule performance. The numbers reported below should reflect current actual information. (Per OMB requirements Cost/Schedule Performance information should include both Government and Contractor Costs):	
a. What is the Planned Value (PV)?	13822
b. What is the Earned Value (EV)?	12722
c. What is the actual cost of work performed (AC)?	11663
d. What costs are included in the reported Cost/Schedule Performance information (Government Only/Contractor Only/Both)?	Contractor and Government
e. "As of" date:	8/30/2005
3. What is the calculated Schedule Performance Index (SPI = EV/PV)?	0.92
4. What is the schedule variance (SV = EV-PV)?	-1100
5. What is the calculated Cost Performance Index (CPI = EV/AC)?	1.09
6. What is the cost variance (CV=EV-AC)?	1059
7. 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?	
b. If "yes," explain the variance:	

