

FBI Computer Analysis Response Team Storage Area Network (CARTSAN)

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

I.A. Overview

1. Date of Submission:	12/19/2006
2. Agency:	Department of Justice
3. Bureau:	Federal Bureau of Investigation
4. Name of this Capital Asset:	FBI Computer Analysis Response Team Storage Area Network (CARTSAN)
5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.)	011-10-02-00-01-2809-00
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?	FY2003

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:

In the aftermath of the 9/11 tragedy, the FBI collected digital evidence from businesses, personal computers and loose media from across the US. The FBI did not possess a storage/examination/ review system that could efficiently and consistently process large quantities of digital evidence collected from multiple sources. The CARTSAN System is a unique state-of-the-art "Digital Forensic Network" that allows for the efficient forensic processing and review of computer evidence. This exceptional system was certified and accredited on August 15, 2005. It offers the Computer Analysis Response Team (CART) Examiner and FBI Case Agent a resource that ensures accurate and timely handling of computer evidence acquired in support of Criminal, Cyber, Counterintelligence and Counterterrorism matters in a forensically secure environment. The need for this investment is immediate. Each CARTSAN System has the ability to temporarily store large quantities of digital computer evidence. This system establishes digital connectivity between the CART forensic examination and review processes, eliminating the need to store forensic examination data on multiple hard drives. The system greatly reduces the time required to process and disseminate computer related evidence. In FY2006, CART anticipates completing more than 10,000 examinations of computer media, equating to more than one Petabyte of digital evidence. One Petabyte of information is equivalent to 250 billion pages of text; enough to fill 20 million, four-drawer filing cabinets. As the amount of data average businesses collect and store is doubling each year, this amount of data will be what many businesses will be managing within the next five years. As this growth occurs, the FBI is required to expand its capability to process and temporarily store these increasing amounts of data. Phase I of the CARTSAN project, initiated in FY2002 and concluded in FY2006, included the design, acquisition, and deployment of CARTSAN Systems to 25 major FBI Field Office and Regional Computer Forensic Laboratories (RCFL) locations. Phase II is scheduled to begin in BY2007 with the allocation of personnel resources to begin planning for the next deployment of systems. Phase II includes the purchase and deployment of 20 new CARTSAN Systems as well as operation, maintenance

and upgrade costs for the existing 25 systems.

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	
Kosiba, Timothy P	
Phone Number	410-981-1042
Email	Timothy.Kosiba@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?	
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 support one of the PMA initiatives?	Yes
If "yes," check all that apply:	Expanded E-Government
13a. Briefly describe how this asset directly supports the identified initiative(s)?	In support of Expanded Electronic Government, the CARTSAN System project will enable integration of investigator/analyst review of forensic examination results with existing FBI Information Infrastructure, Trilogy. This integration will allow the investigator/analyst to have timely access to information furthering on-going investigations and or intelligence operations. CARTSAN expands digital forensic processing electronic government by implementing an e-business platform.

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 the PART review?	No
b. If "yes," what is the name of the PART program assessed by OMB's Program Assessment Rating Tool?	
c. If "yes," what PART rating did it receive?	
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)?	No
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	30
Software	1
Services	2

Other

67

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?

Yes

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	0.6	0.1	0.2	0.49	0	0	0	0	
Acquisition									

Budgetary Resources	1.5	0	0	15.191	0	0	0	0	
Subtotal Planning & Acquisition									
Budgetary Resources	2.1	0.1	0.2	15.681	0	0	0	0	
Operations & Maintenance									
Budgetary Resources	1.328	14.382	14.282	21.992	0	0	0	0	
TOTAL									
Budgetary Resources	3.428	14.482	14.482	37.673	0	0	0	0	
Government FTE Costs									
Budgetary Resources	1.059	0.176	0.265	3.352	0	0	0	0	
Number of FTE represented by Costs:	12	2	3	38	0	0	0	0	

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? Yes

a. If "yes," How many and in what year? 35 in BY2008 It will be necessary to hire System Analysts for each CARTSAN System site in order to efficiently administer the existing systems and the new systems.

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

Significant changes have occurred since the FY2007 President's request. These are the result of changes in the defined scope of the CARTSAN Project and its corresponding OMB300 submission. The current submission reflects only the CARTSAN System Project as opposed to the entire CART Unit, to include the CARTSAN System project and other smaller projects. Additionally, based on re-defined project phases by the FBI's OCIO, this exhibit breaks the CARTSAN project into two phases. Phase One includes the development, acquisition and deployment of 25 systems. Phase One will be complete by the end of FY2006. Phase Two is scheduled to begin in FY2008 and includes the development, acquisition and deployment of 20 new systems as well as significant technical refresh of the original 25 systems.

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:	All FBI contracts are required to be Section 508 compliant or to qualify for an approved exemption. This status is determined at the time of the contract award.
4. Is there an acquisition plan which has been approved in accordance with agency requirements?	Yes
a. If "yes," what is the date?	5/30/2004
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)
2003	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Provide an FBI Digital Forensic Network digital evidence review capability to investigators.	0 customers with access to this capability	Baseline year FSL of 0 offices will have access to this capability. 0 customers	FSL of 0 offices have access to this capability. 0 customers

2003	FBI Strategic Goal 16: Forensic: Establish a worldwide network of scientific services that maximized forensics in combating terrorism, cyber-based attacks, and crime.	Improve efficiency of digital data processing	Baseline Year	Baseline Year	447TB processed by examiners
2004	FBI Strategic Goal 16: Forensic: Establish a worldwide network of scientific services that maximized forensics in combating terrorism, cyber-based attacks, and crime.	Improve efficiency of digital data processing	971TB processed by examiners	Increase performance by 22% (545TB)	Increased performance by 78% (796TB)
2004	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Provide an FBI Digital Forensic Network digital evidence review capability to investigators.	0 customers with access to this capability	FSL of 18 offices will have access to this capability. 4000 customers	FSL of 14 offices have access to this capability. 3400 customers
2005	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Provide an FBI Digital Forensic Network to investigators.	FSL of 14 offices have access to this capability. 3400 customers	FSL of 20 offices will have access to this capability. 4400 customers	FSL of 18 offices have access to this capability. 4000 customers
2005	FBI Strategic Goal 16: Forensic: Establish a worldwide network of scientific services that maximized forensics in combating terrorism, cyber-based attacks, and crime.	Improve efficiency of digital data processing	796TB processed by examiners	Increase FY2004 performance by 21% (963TB)	Increased performance by 78% (1422TB)
2006	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Provide an FBI Digital Forensic Network to investigators.	FSL of 18 offices have access to this capability. 4000 customers	FSL of 25 offices will have access to this capability. 6900 customers	
2006	FBI Strategic Goal 16: Forensic: Establish a worldwide network of scientific services that maximized forensics in combating terrorism, cyber-based attacks, and crime.	Improve efficiency of digital data processing	1422TB processed by examiners	Increase FY2005 performance by 22% (1734TB)	
2006	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Improve overall cycle time for CART processing and review of digital evidence	83 days	Decrease cycle time by 25% (62 days)	

2007	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Provide an FBI Digital Forensic Network to investigators.		FSL of 25 offices will have access to this capability.	
2007	FBI Strategic Goal 16: Forensic: Establish a worldwide network of scientific services that maximized forensics in combating terrorism, cyber-based attacks, and crime.	Improve efficiency of digital data processing		Increase FY2006 performance by 22%.	
2007	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Improve overall cycle time for CART processing and review of digital evidence		Decrease cycle time by 25%	
2008	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Provide an FBI Digital Forensic Network to investigators.		FSL of 25 offices will have access to this capability. 7000 customers	
2008	FBI Strategic Goal 16: Forensic: Establish a worldwide network of scientific services that maximized forensics in combating terrorism, cyber-based attacks, and crime.	Grow the data processing capacity to keep pace with FBI digital evidence collections		Increase FY2007 performance by 22%	
2008	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Improve overall cycle time for CART processing and review of digital evidence		Decrease cycle time by 25%	
2009	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Provide an FBI Digital Forensic Network to investigators.		FSL of 35 offices will have access to this capability. 8400 customers	
2009	FBI Strategic Goal 16: Forensic: Establish a worldwide network of scientific services that maximized forensics in combating terrorism, cyber-based attacks, and crime.	Grow the data processing capacity to keep pace with FBI digital evidence collections		Increase FY2008 performance by 19%	
2009	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Improve overall cycle time for CART processing and review of digital evidence		Decrease cycle time by 25%	
2010	FBI Strategic Goal 2 : Protect the United States from	Provide an FBI Digital Forensic Network to		FSL of 45 offices will have access to this capability.	

	terrorist attack	investigators.		9600 customers	
2010	FBI Strategic Goal 16: Forensic: Establish a worldwide network of scientific services that maximized forensics in combating terrorism, cyber-based attacks, and crime.	Grow the data processing capacity to keep pace with FBI digital evidence collections		Increase FY2009 performance by 19%	
2010	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Improve overall cycle time for CART processing and review of digital evidence		Decrease cycle time by 25%	
2011	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Provide an FBI Digital Forensic Network to investigators.		FSL of 45 offices will have access to this capability	
2011	FBI Strategic Goal 16: Forensic: Establish a worldwide network of scientific services that maximized forensics in combating terrorism, cyber-based attacks, and crime.	Grow the data processing capacity to keep pace with FBI digital evidence collections		Increase FY2010 performance by 19%	
2011	FBI Strategic Goal 2 : Protect the United States from terrorist attack	Improve overall cycle time for CART processing and review of digital evidence.		Decrease cycle time by XX%	

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

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: 2.50

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
Next Generation CARTSAN System for Phase Two Deployments (20 systems)	Government Only	3/31/2009	3/31/2008

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
CARTSAN	Government Only		Yes	8/15/2005	FIPS 200 / NIST 800-53	8/3/2005	7/28/2006

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?

N/A, reference #4 above (agency operated system)

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?
CARTSAN System	No	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. CARTSAN System

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
		Business Analytical Services	Analysis and Statistics	Forensics			No Reuse	50
		Business Analytical Services	Knowledge Discovery	Data Mining			No Reuse	1
		Business Analytical Services	Visualization	Multimedia			No Reuse	2
		Business Management Services	Organizational Management	Workgroup / Groupware			No Reuse	2
		Digital Asset Services	Content Management	Tagging and Aggregation			No Reuse	25
		Digital Asset Services	Knowledge Management	Information Retrieval			No Reuse	2
		Digital Asset Services	Knowledge Management	Knowledge Capture			No Reuse	2
		Digital Asset Services	Knowledge Management	Knowledge Engineering			No Reuse	2
		Process Automation Services	Tracking and Workflow	Case Management			No Reuse	2
		Support Services	Search	Pattern Matching			No Reuse	2
		Support Services	Security Management	Access Control			No Reuse	2
		Support Services	Security Management	Audit Trail Capture and Analysis			No Reuse	2
		Support Services	Security Management	Digital Signature Management			No Reuse	2

		Support Services	Security Management	Identification and Authentication			No Reuse	2
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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 Mining	Service Access and Delivery	Access Channels	Other Electronic Channels	CART Approved Forensic Tools EnCase, ILook, LogiCube
Tagging and Aggregation	Service Access and Delivery	Access Channels	Other Electronic Channels	CART Approved Forensic Tools EnCase, ILook, LogiCube
Information Retrieval	Service Access and Delivery	Access Channels	Other Electronic Channels	CART Approved Forensic Tools EnCase, ILook, LogiCube
Knowledge Capture	Service Access and Delivery	Access Channels	Other Electronic Channels	CART Approved Forensic Tools EnCase, ILook, LogiCube
Knowledge Distribution and Delivery	Service Access and Delivery	Access Channels	Other Electronic Channels	CART Approved Forensic Tools EnCase, ILook, LogiCube
Access Control	Service Access and Delivery	Access Channels	Other Electronic Channels	Microsoft/Windows Access Controls Permissions
Multimedia	Service Access and Delivery	Access Channels	Other Electronic Channels	Other Electronic Channels
Case Management	Service Access and Delivery	Access Channels	Other Electronic Channels	Vendor/Caymas 318
Case Management	Service Access and Delivery	Access Channels	Other Electronic Channels	Vendor/Gateway/Firewall

Tagging and Aggregation	Service Access and Delivery	Access Channels	Other Electronic Channels	VMWare
Information Retrieval	Service Access and Delivery	Access Channels	Other Electronic Channels	VMWare
Knowledge Capture	Service Access and Delivery	Access Channels	Other Electronic Channels	VMWare
Knowledge Distribution and Delivery	Service Access and Delivery	Access Channels	Other Electronic Channels	VMWare
Pattern Matching	Service Access and Delivery	Access Channels	Other Electronic Channels	VMWare and CART Approved Forensic Tools
Forensics	Service Access and Delivery	Delivery Channels	Internet	CART Approved Forensic Tools EnCase, ILook, LogiCube
Digital Signature Management	Service Access and Delivery	Delivery Channels	Internet	CART Approved Forensic Tools: EnCase, ILook, LogiCube.
Data Exchange	Service Access and Delivery	Delivery Channels	Intranet	Trilogy Intranet
Identification and Authentication	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Gateway/Firewall
Case Management	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Gateway/Firewall
Access Control	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Gateway/Firewall
Case Management	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Microsoft/Windows Access Controls Permissions
Access Control	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Vendor/Caymas 318
Case Management	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Vendor/Caymas 318
Identification and Authentication	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Vendor/Caymas 318
Case Management	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Windows Access Controls and Permissions
Access Control	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Windows Access Controls Permissions
Identification and Authentication	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Windows Access Controls Permissions
Audit Trail Capture and Analysis	Service Platform and Infrastructure	Support Platforms	Platform Dependent	Gateway/Firewall
Audit Trail Capture and Analysis	Service Platform and Infrastructure	Support Platforms	Platform Dependent	Vendor/Caymas 318
Audit Trail Capture and Analysis	Service Platform and Infrastructure	Support Platforms	Platform Dependent	Windows Access Controls Permissions

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).

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

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?

6/18/2006

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				0
True				
True	3. 300 examiners using stand alone-workstations with the deployment of 45 CARTSAN systems at \$800K each over a nine year period. Increase of 45 system analysts to administer the CARTSAN systems. \$30,500 per new examiner for hardware and software .	An enterprise network (CARTSAN System) is set up in 45 major FO/RCFL locations. Digital evidence is loaded and examined on the CARTSAN Systems then distributed to a Trilogy desktop or designated review system allowing enterprise-wide Case Agent review of Digital Evidence at their location. The FE can work on multiple examinations while multiple Case Agents are able to review their evidence simultaneously. Strong physical security and controls are in place to control access to digital evidence.	508	81
True				0

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

Alternative 3: CARTSAN System. Savings to taxpayers of approximately \$81M. Best meets the strategic objective of "better serving the FBI Case Agent/Analyst population" Fully interactive e-business capability. Enterprise level solution vice stand-alone system allows sharing of examination results over FBI WAN infrastructure to Case Agents and analysts via Trilogy desktops.

4. What specific qualitative benefits will be realized?

Implementing Alternative 3 will allow the existing compliment of CART Field Examiners to process the increasing amounts of digital evidence which the FBI will receive over the next few years. The need for this forensic processing is immediate. The consequences of not implementing the CARTSAN technology would be the ineffectiveness of the FBI to process digital evidence and investigate Criminal, Cyber, Counterintelligence and Counterterrorism matters. Implementing the CARTSAN system allows CART's Forensic Examiners to load and examine digital evidence onto the CARTSAN Systems and then distribute their examination results to a Trilogy desktop or designated review system allowing enterprise-wide Case Agent review of Digital Evidence at their location. The CART Forensic Examiners can work on multiple examinations while multiple Case Agents are able to review their evidence simultaneously. With this solution, strong physical

security and controls are in place to control access to the digital evidence. The total cost to taxpayers for Alternative 3 is \$508M (This includes Govt FTE costs for 300 CART Field Examiners) This alternative represents a savings to taxpayers of \$81M worth of Govt FTE costs versus the CART baseline solution which includes significant Govt FTE cost increases to keep pace with the increasing amounts of digital evidence which the FBI is required to process.

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?	7/11/2005
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 CARTSAN System Risk Management Plan identifies the procedures used to manage risk throughout the life of the project. In addition to documenting the risk approach, the plan focuses on: how the risk process is to be implemented; the roles and responsibilities of the PM, project team and development contractors for managing risk; how risks are to be tracked throughout the project life cycle; and how mitigation and contingency plans are implemented. This plan also describes executive level risk reporting. As a part of continuous process improvement efforts, this plan is updated as needed and reviewed during the entire IT System Life Cycle by the project management team. CARTSAN System risks are identified throughout the project lifecycle. This is a continuous process and for the most part, conducted by the project management team. Risks are identified as described in the Risk Planning Tailoring Guideline. CARTSAN System risks are assessed using the Risk Exposure Matrix described in the Risk Planning Tailoring Guideline. CARTSAN System risks are tracked in accordance with the procedure outlined in the Risk Management Guideline. CARTSAN System risks are mitigated in accordance with the procedure outlined in the Risk Management Guideline. CARTSAN System risks are reported in accordance with the procedures outlined in the Risk Management Guideline and the FBI Information Technology Life Cycle Management Directive. No dedicated funding has been allocated for CARTSAN System risk management and mitigation. However, the CART Unit's Forensic Network Program typically receives annual, unit level funding in the amount of approximately 3.9 million dollars. A significant portion of this funding is often used to support ongoing maintenance and upgrades to the existing CARTSAN Systems. Additionally, the development and deployment of less robust CARTSAN solutions has been financed by this funding. As the CARTSAN System is deployed in a more vigorous manner, the current level of funding will become insufficient to deploy, maintain and upgrade the existing CARTSAN Systems.

II.C. Cost and Schedule Performance

1. Does the earned value management system meet the criteria in ANSI/EIA Standard-748?	Yes
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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)?	18664
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b. What is the Earned Value (EV)?	17328
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c. What is the actual cost of work performed (AC)?	17328
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d. What costs are included in the reported Cost/Schedule Performance information (Government Only/Contractor Only/Both)?	Contractor and Government
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e. "As of" date:	5/31/2006
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3. What is the calculated Schedule Performance Index (SPI = EV/PV)?	0.93
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4. What is the schedule variance (SV = EV-PV)?	-1.3360
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5. What is the calculated Cost Performance Index (CPI = EV/AC)?	1
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6. What is the cost variance (CV=EV-AC)?	0
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7. Is the CV% or SV% greater than +/- 10%? (CV%= CV/EV x 100; SV%= SV/PV x 100)	No
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a. If "yes," was it the?	
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b. If "yes," explain the variance:	
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c. If "yes," what corrective actions are being taken?	
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d. What is most current "Estimate at Completion	
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8. Have any significant changes been made to the baseline during the past fiscal year? No

8. If "yes," when was it approved by OMB? No

Comparison of Initial Baseline and Current Approved Baseline

Milestone Number	Description of Milestone	Initial Baseline		Current Baseline				Current Baseline Variance		Percent Complete
		Planned Completion Date	Total Cost (Estimated)	Completion Date		Total Cost		Schedule (# days)	Cost	
				Planned	Actual	Planned	Actual			
1	Design and develop CARTSAN System	05/01/2003	\$0.000	05/01/2003	05/01/2003	\$0.000	\$0.000	0	\$0.000	100%
2	Obtain CARTSAN SYSTEM Forensic Side ATO from SecD	05/01/2004	\$0.000	05/01/2004	05/01/2004	\$0.000	\$0.000	0	\$0.000	100%
3	Purchase 6 CARTSAN Systems	09/30/2004	\$3.600	09/30/2004	09/30/2004	\$3.600	\$3.600	0	\$0.000	100%
4	Deploy 6 CARTSAN Systems	09/30/2004	\$0.000	09/30/2005	09/30/2005	\$0.000	\$0.000	0	\$0.000	100%
5	Purchase 12 CARTSAN Systems	09/30/2004	\$7.200	09/30/2004	09/30/2004	\$7.200	\$7.200	0	\$0.000	100%
6	Deploy 12 CARTSAN Systems	09/30/2004	\$0.126	09/30/2005	09/30/2005	\$0.126	\$0.126	0	\$0.000	100%
7	Purchase and Deploy 7 TSANs (Mobile Solution)	09/30/2004	\$2.100	09/30/2004	09/30/2004	\$2.100	\$2.100	0	\$0.000	100%
8	Purchase 2 CARTSAN Systems	09/30/2004	\$1.200	09/30/2004	09/30/2004	\$1.200	\$1.200	0	\$0.000	100%
9	Deploy 2 CARTSAN Systems (NWR CFL, NJRCFL)	09/30/2005	\$0.028	06/30/2006	03/31/2006	\$0.028	\$0.028	91	\$0.000	100%
10	Purchase 5 CARTSAN Systems	12/31/2005	\$3.000	06/30/2006	06/30/2006	\$3.000	\$3.000	0	\$0.000	100%
11	Deploy 5 CARTSAN Systems (AQ, SD, NH, IWR CFL, AT)	06/30/2006	\$0.700	06/30/2006	06/30/2006	\$0.700	\$0.700	0	\$0.000	50%
12	Obtain CARTSAN SYSTEM Full ATO from SecD	06/15/2005	\$0.000	08/15/2005	08/15/2005	\$0.000	\$0.000	0	\$0.000	100%
13	Obtain approval to connect CARTSAN Systems to Trilogy	09/30/2005	\$0.000	09/30/2005	09/30/2005	\$0.000	\$0.000	0	\$0.000	100%
14	Connect CARTSAN System to Trilogy	06/30/2006	\$0.000	06/30/2006		\$0.000	\$0.000		\$0.000	80%
15	Purchase 25 CARTSAN System Tape Backup Systems	06/30/2006	\$1.200	06/30/2006		\$1.200	\$0.900		\$0.300	50%
16	Deploy 25 CARTSAN System Tape Backup Systems	09/30/2006	\$0.000	09/30/2006		\$0.000	\$0.000		\$0.000	0%
17	FY04 Government Planning Support	09/30/2004	\$0.300	09/30/2004	09/30/2004	\$0.300	\$0.300	0	\$0.000	100%
18	FY05 Government Planning Support	09/30/2005	\$0.300	09/30/2005	09/30/2005	\$0.300	\$0.300	0	\$0.000	100%
19	FY06 Government Planning Support	09/29/2006	\$0.200	09/29/2006		\$0.200				%

