

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: 9/15/2008
2. Agency: Environmental Protection Agency
3. Bureau: Office Of Environmental Information
4. Name of this Capital Asset: Central Data Exchange (CDX)
5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.) 020-00-01-16-01-6005-00
6. What kind of investment will this be in FY 2010? (Please NOTE: Investments moving to O&M in FY 2010, with Planning/Acquisition activities prior to FY 2010 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? FY2001 or earlier
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:
- CDX is the electronic gateway for environmental data entering the Agency. CDX also serves as EPA's Node on the Environmental Information Exchange Network. Per the March 16, 2007 memorandum, CDX is the recognized point of presence for the Agency under the President's e-Authentication Initiative. CDX supports EPA's Cross Goal Strategies by making information more accessible with a broad range of partners. It offers thousands of customers fast, easy, and secure electronic reporting features. Prior to the development of CDX, EPA programs developed their own data collection capabilities. Programs developed duplicative and inconsistent services that didn't always comply with security requirements and didn't allow EPA to integrate data for cross-program analysis. By offering CDX as a single point of exchange, it has begun to eliminate independent interfaces to major EPA systems with states, eventually eliminating as many as eight for a given state doing business with EPA. CDX created a Cross-Media Electronic Reporting Regulation (CROMERR) compliant solution for information exchange. No other in-house solution contemplated by EPA would do this. CDX delivers savings from establishing a joint data exchange infrastructure that complied with all legislative and regulatory requirements concerning electronic information exchange & offered the potential to conduct cross-program analysis. CDX uses a Service Oriented Architecture approach. This drives a lower cost per each data flow that is added to CDX, and therefore allows more data flows to be added to CDX for the same operational budget. Because the CDX architecture is a series of services, these services can be exposed to various offices within EPA to achieve agency wide service reuse. CDX is a primary component of EPA's Enterprise Architecture. It supports the President's Management Agenda initiative of expanding E-Government by interfacing with other key federal initiatives. This system is in a mixed phase of its life cycle. The basic infrastructure is complete and operating. 2008-2010 funding will allow CDX to expand capacity, enhance new data flows like CDC's Data Exchange & EPA's underground injection control program & support exchanges among federal agencies. The new data and enhancements are closely monitored for risk impacts to ensure qualitative benefits are achieved such as increased customer satisfaction, access to timely data, secure information exchange & assistance with regulatory compliance.
9. Did the Agency's Executive/Investment Committee approve this request? Yes
- a. If "yes," what was the date of this approval? 8/28/2008
10. Did the Project Manager review this Exhibit? Yes
11. Contact information of Program/Project Manager?
- Name
- Phone Number
- Email
- a. What is the current FAC-P/PM (for civilian agencies) or DAWIA (for defense agencies) certification level of the program/project manager? Waiver Issued
- b. When was the Program/Project Manager Assigned? 12/7/2005
- c. What date did the Program/Project Manager receive the FAC-P/PM certification? If the certification has not been issued, what is the anticipated date for certification? 8/28/2009

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12. Has the agency developed and/or promoted cost effective, energy-efficient and environmentally sustainable techniques or practices for this project? Yes
- 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? Yes
- If "yes," check all that apply: Expanded E-Government
- 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?) CDX supports goals of the eGov initiative: 1. Supporting cross-agency exchange of environmental data with DOI, DHS, CDC & DOT 2. Integrating with Grants.gov & providing an interface from Grants.gov to EPA's Integrated Grants Management System 3. Acting as a Relying Party in the eAuthentication Federation (3/16/07 memo) 4. Reducing time & resource burden of processing submissions 5. Acting as a Node on the Environmental Exchange Network to create an electronic information gateway
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?
- 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 2
17. In addition to the answer in 11(a), what project management qualifications does the Project Manager have? (per CIO Council PM Guidance)
18. Is this investment or any project(s) within this investment identified as "high risk" on the Q4 - FY 2008 agency high risk report (per OMB Memorandum M-05-23) No
19. Is this a financial management system? No
- a. If "yes," does this investment address a FFIA compliance area?
1. If "yes," which compliance area: N/A
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 FY2010 funding request for the following? (This should total 100%)
- | | |
|----------|----|
| Hardware | 4 |
| Software | 6 |
| Services | 90 |

Other 0

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? No

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

Name

Phone Number

Title

E-mail

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? No

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 2008	CY 2009	BY 2010	BY+1 2011	BY+2 2012	BY+3 2013	BY+4 and beyond	Total
Planning:	22.81	0	0	0					
Acquisition:	15.13158	2.369	0.8812	0.8812					
Subtotal Planning & Acquisition:	37.94158	2.369	0.8812	0.8812					
Operations & Maintenance:	32.4209	6.443	7.9308	7.9308					
TOTAL:	70.36248	8.812	8.8120	8.8120					
Government FTE Costs should not be included in the amounts provided above.									
Government FTE Costs	7.1199	1.425	1.425	1.425					
Number of FTE represented by Costs:	55	11	11	11					

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?

3. If the summary of spending has changed from the FY2009 President's budget request, briefly explain those changes:

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.

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Contracts/Task Orders Table:																* Costs in millions
Contract or Task Order Number	Type of Contract/ Task Order (In accordance with FAR Part 16)	Has the contract been awarded (Y/N)	If so what is the date of the award? If not, what is the planned award date?	Start date of Contract/ Task Order	End date of Contract/ Task Order	Total Value of Contract/ Task Order (\$M)	Is this an Interagency Acquisition ? (Y/N)	Is it performance based? (Y/N)	Competitively awarded? (Y/N)	What, if any, alternative financing option is being used? (ESPC, UESC, EUL, N/A)	Is EVM in the contract? (Y/N)	Does the contract include the required security & privacy clauses? (Y/N)	Name of CO	CO Contact information (phone/email)	Contracting Officer FAC-C or DAWIA Certification Level (Level 1, 2, 3, N/A)	If N/A, has the agency determined the CO assigned has the competencies and skills necessary to support this acquisition ? (Y/N)
GS00T99ALD0203 (Note, contract value is \$285M. This higher than CDX budget dollars as the contract supports more activities than CDX. The numbers reported here are CDX contract dollars only).	Cost Plus Incentive Award Fee (Performance Based)	Yes	3/27/2002	3/27/2002	3/21/2009	87.986	No	Yes	Yes	NA	Yes	Yes				

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 not or how this is being done? Section 508 compliance is ensured by following standard development practices established by GSA for web-based applications including conducting user acceptance testing. Internal testing is conducted on all applications as a quality assurance measure to ensure new applications being deployed meet these standards. For example, screen reader tools are used to test compliance. CDX will continue to ensure Section 508 compliance through development contract language that requires internal testing.

4. Is there an acquisition plan which reflects the requirements of FAR Subpart 7.1 and has been approved in accordance with agency requirements? Yes

a. If "yes," what is the date? 8/15/2008

1. Is it Current? Yes

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 the next President's Budget.

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2008	Cross-Goal Strategies	Customer Results	Customer Benefit	Customer Satisfaction	Customer Satisfaction Survey Score (survey deployed semi-annually by CDX team and survey response score based on limited subset of user base ranging from 1-6)	4.0	4.0	November 2008
2008	Cross-Goal Strategies	Customer Results	Service Coverage	New Customers and Market Penetration	Number of production data flows out of number of potential data flows.	41 out of 78	44 out of 78	November 2008
2008	Cross-Goal Strategies	Customer Results	Service Coverage	New Customers and Market Penetration	Number of test data exchanges	8	8	November 2008
2008	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Customer support services (survey responses based on limited subset of users ranging from 1-6 score)	4.0	4.5	November 2008
2008	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Ease of use (survey responses from based on limited	4.0	4.2	November 2008

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Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
					subset of users ranging from 1-6 score)			
2008	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	User documentation (calculated by the number of actual user support documents in place divided by number of potential user support documents)	41%	60%	November 2008
2008	Cross-Goal Strategies	Mission and Business Results	Information and Technology Management	System Development	Number of states using CDX	50 out of 50	50 out of 50	November 2008
2008	Cross-Goal Strategies	Processes and Activities	Cycle Time and Timeliness	Timeliness	Timeliness of Data (survey responses from limited subset of users ranging from 1-6 score)	4.8	4.6	November 2008
2008	Cross-Goal Strategies	Processes and Activities	Financial (Processes and Activities)	Savings and Cost Avoidance	Business Process Cost (survey responses from limited subset of users ranging from 1-6 score)	4.2	4.2	November 2008
2008	Cross-Goal Strategies	Technology	Effectiveness	IT Contribution to Process, Customer, or Mission	Mission Impact (survey responses from limited subset of users ranging from a 1-6 score)	4.5	4.5	November 2008
2008	Cross-Goal Strategies	Technology	Information and Data	Data Reliability and Quality	Information Quality (survey responses from subset of users where 1 is exceptionally dissatisfied and 6 is exceptionally satisfied)	4.5	4.6	November 2008
2008	Cross-Goal Strategies	Technology	Reliability and Availability	Availability	Percent availability of CDX services (during operational hours)	88.3%	90%	November 2008
2008	Cross-Goal Strategies	Technology	Technology Costs	Operations and Maintenance Costs	CDX operational cost (cost/submission cost)	15	22	November 2008
2009	Cross-Goal Strategies	Customer Results	Customer Benefit	Customer Satisfaction	Customer Satisfaction Survey Score (survey responses from limited subset of user base ranging from 1-6)	4.0	4.1	November 2009
2009	Cross-Goal Strategies	Customer Results	Service Coverage	New Customers and Market Penetration	Number of production data flows out of number of potential data flows	44 out of 78	47 out of 78	November 2009
2009	Cross-Goal Strategies	Customer Results	Service Coverage	New Customers and Market Penetration	Number of Test Data Exchanges	8	8	November 2009
2009	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Customer support services (survey responses based on limited subset of users ranging from 1-6 score)	4.0	4.5	November 2009

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Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2009	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Ease of use (survey responses from based on limited subset of users ranging from 1-6 score)	4.2	4.3	November 2009
2009	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	User documentation (calculated by the number of actual user support documents in place divided by number of potential user support documents)	60%	65%	November 2009
2009	Cross-Goal Strategies	Mission and Business Results	Information and Technology Management	System Development	Number of states continuing to use CDX	50 out of 50	50 out of 50	November 2009
2009	Cross-Goal Strategies	Processes and Activities	Cycle Time and Timeliness	Timeliness	Timeliness of Data (survey responses from limited subset of users ranging from 1-6 score)	4.6	4.6	November 2009
2009	Cross-Goal Strategies	Processes and Activities	Financial (Processes and Activities)	Savings and Cost Avoidance	Business Process Cost (survey responses from limited subset of users ranging from 1-6 score)	4.3	4.3	November 2009
2009	Cross-Goal Strategies	Technology	Effectiveness	IT Contribution to Process, Customer, or Mission	Mission Impact (survey responses from limited subset of users ranging from a 1-6 score)	4.6	4.8	November 2009
2009	Cross-Goal Strategies	Technology	Information and Data	Data Reliability and Quality	Information Quality (survey responses from subset of users where 1 is exceptionally dissatisfied and 6 is exceptionally satisfied)	4.6	4.6	November 2009
2009	Cross-Goal Strategies	Technology	Reliability and Availability	Availability	Percent availability of CDX Services (during operational hours)	88.3%	93%	November 2009
2009	Cross-Goal Strategies	Technology	Technology Costs	Operations and Maintenance Costs	CDX operational costs (cost/submission)	14	15	November 2009
2010	Cross-Goal Strategies	Customer Results	Customer Benefit	Customer Satisfaction	Customer Satisfaction Survey Score (survey responses from limited subset of user base ranging from 1-6)	4.1	4.2	November 2010
2010	Cross-Goal Strategies	Customer Results	Service Coverage	New Customers and Market Penetration	Number of production data flows out of number of potential data flows	45 of 78	50 out of 78	November 2010
2010	Cross-Goal Strategies	Customer Results	Service Coverage	New Customers and Market Penetration	Number of Test Data Exchanges	8	8	November 2010
2010	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Customer support services (survey responses based	4.5	4.6	November 2010

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Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
					on limited subset of users ranging from 1-6 score)			
2010	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Ease of use (survey responses from based on limited subset of users ranging from 1-6 score)	4.3	4.4	November 2010
2010	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	User documentation (calculated by the number of actual user support documents in place divided by number of potential user support documents)	65%	70%	November 2010
2010	Cross-Goal Strategies	Mission and Business Results	Information and Technology Management	System Development	Number of states continuing to use CDX	50 out of 50	50 out of 50	November 2010
2010	Cross-Goal Strategies	Processes and Activities	Cycle Time and Timeliness	Timeliness	Timeliness of Data (survey responses from limited subset of users ranging from 1-6 score)	4.6	4.5	November 2010
2010	Cross-Goal Strategies	Processes and Activities	Financial (Processes and Activities)	Savings and Cost Avoidance	Business Process Cost (survey responses from limited subset of users ranging from 1-6 score)	4.4	4.4	November 2010
2010	Cross-Goal Strategies	Technology	Effectiveness	IT Contribution to Process, Customer, or Mission	Mission Impact (survey responses from limited subset of users ranging from a 1-6 score)	4.6	4.8	November 2010
2010	Cross-Goal Strategies	Technology	Information and Data	Data Reliability and Quality	Information Quality (survey responses from subset of users where 1 is exceptionally dissatisfied and 6 is exceptionally satisfied)	4.7	4.8	November 2010
2010	Cross-Goal Strategies	Technology	Reliability and Availability	Availability	Percent Availability of CDX Services (during operational hours)	88.3%	94%	November 2010
2010	Cross-Goal Strategies	Technology	Technology Costs	Operations and Maintenance Costs	CDX operational cost (cost/submission)	13	11	November 2010

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

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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? Yes

a. If "yes," provide the "Percentage IT Security" for the budget year: 10

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)
Central Data Exchange (CDX)	Government Only		
CSC-NC	Contractor Only		

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 Completed: Security Control Testing	Date the contingency plan tested
Central Data Exchange (CDX)	Government Only	Moderate	yes	2/2/2007	FIPS 200 / NIST 800-53	7/3/2008	2/23/2008
CSC-NC	Contractor Only	Low	yes	4/27/2007	FIPS 200 / NIST 800-53	10/30/2007	2/23/2008

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? Yes

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

6. Indicate whether an increase in IT security funding is requested to remediate IT security weaknesses? No

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?

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
Central Data Exchange (CDX)	No	Yes	http://www.epa.gov/privacy/assess/cdx.htm	Yes	http://www.epa.gov/privacy/notice/epa-52.htm
CSC-NC	No	Yes	http://www.epa.gov/privacy/assess/cdx.htm	Yes	http://www.epa.gov/privacy/notice/epa-52.htm

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.

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
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. Central Data Exchange (CDX)

b. If "no," please explain why?

3. Is this investment identified in a completed and approved segment architecture? No

a. If "yes," provide the six digit code corresponding to the agency segment architecture. The segment architecture codes are maintained by the agency Chief Architect. For detailed guidance regarding segment architecture codes, please refer to <http://www.egov.gov>.

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)
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Back Office Services	Data Management	Data Exchange	Data Exchange	020-00-01-16-01-6005-00	Internal	10
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Back Office Services	Data Management	Extraction and Transformation	Data Exchange	020-00-01-16-01-6005-00	Internal	2
Portal/Extract, Transform, and Load Tool (ETL) Tool (PETL)	The Portal will provide dynamic tools enabling the transformation of data into knowledge, improving the environmental community's ability to access and report on the environment and human health. A single Agency-standard Extract, Transform and	Back Office Services	Data Management	Extraction and Transformation	Extraction and Transformation	020-00-01-16-02-6029-00	Internal	1

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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)
	Load (ETL) tool will allow program systems to replace their old, less efficient ETL processes with modern, easy to use technology.							
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Back Office Services	Data Management	Loading and Archiving	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Back Office Services	Data Management	Meta Data Management	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Back Office Services	Development and Integration	Legacy Integration	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Business Analytical Services	Reporting	Ad Hoc	Data Exchange	020-00-01-16-01-6005-00	Internal	4
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Business Analytical Services	Reporting	Standardized / Canned	Data Exchange	020-00-01-16-01-6005-00	Internal	3
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Business Analytical Services	Visualization	Graphing / Charting	Data Exchange	020-00-01-16-01-6005-00	Internal	1
National Geospatial Program (GEO/GIS)	Ties directly to Geo One-Stop business case-supports FGDC framework activities.	Business Analytical Services	Visualization	Mapping / Geospatial / Elevation / GPS	Mapping / Geospatial / Elevation / GPS	020-00-01-16-01-0120-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Business Management Services	Investment Management	Strategic Planning and Mgmt	Data Exchange	020-00-01-16-01-6005-00	Internal	4
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Business Management Services	Management of Processes	Business Rule Management	Data Exchange	020-00-01-16-01-6005-00	Internal	3
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Business Management Services	Management of Processes	Change Management	Data Exchange	020-00-01-16-01-6005-00	Internal	2
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Business Management Services	Management of Processes	Configuration Management	Data Exchange	020-00-01-16-01-6005-00	Internal	5
Central Data Exchange	A website through which environmental data enters the Agency	Business Management Services	Management of Processes	Governance / Policy Management	Data Exchange	020-00-01-16-01-6005-00	Internal	3

Exhibit 300: Central Data Exchange (CDX) (Revision 11)

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)
	electronically.							
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Business Management Services	Management of Processes	Program / Project Management	Data Exchange	020-00-01-16-01-6005-00	Internal	5
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Business Management Services	Management of Processes	Quality Management	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Business Management Services	Management of Processes	Requirements Management	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Customer Services	Customer Relationship Management	Call Center Management	Data Exchange	020-00-01-16-01-6005-00	Internal	4
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Customer Services	Customer Relationship Management	Customer / Account Management	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Customer Services	Customer Relationship Management	Partner Relationship Management	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Digital Asset Services	Content Management	Content Authoring	Data Exchange	020-00-01-16-01-6005-00	Internal	4
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Digital Asset Services	Content Management	Content Publishing and Delivery	Data Exchange	020-00-01-16-01-6005-00	Internal	3
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Digital Asset Services	Content Management	Content Review and Approval	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Digital Asset Services	Document Management	Classification	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Digital Asset Services	Document Management	Document Conversion	Data Exchange	020-00-01-16-01-6005-00	Internal	3
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Digital Asset Services	Document Management	Document Review and Approval	Data Exchange	020-00-01-16-01-6005-00	Internal	3
System of Registries (SoR)	Supports data integration, security, and accurate identification values.	Digital Asset Services	Knowledge Management	Information Mapping / Taxonomy	Information Mapping / Taxonomy	020-00-01-16-01-6006-00	Internal	1
Central Data	A website	Digital Asset	Knowledge	Information	Data Exchange	020-00-01-16-	Internal	4

Exhibit 300: Central Data Exchange (CDX) (Revision 11)

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)
Exchange	through which environmental data enters the Agency electronically.	Services	Management	Retrieval		01-6005-00		
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Digital Asset Services	Knowledge Management	Information Sharing	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Enterprise Content Management System (ECMS)	Allows agency to manage electronic records in a legally accepted manner-meets GPEA requirements.	Digital Asset Services	Records Management	Record Linking / Association	Record Linking / Association	020-00-01-16-04-0240-24	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Support Services	Collaboration	Document Library	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Support Services	Collaboration	Email	Data Exchange	020-00-01-16-01-6005-00	Internal	5
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Support Services	Collaboration	Task Management	Data Exchange	020-00-01-16-01-6005-00	Internal	4
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Support Services	Security Management	Access Control	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Support Services	Security Management	Audit Trail Capture and Analysis	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Support Services	Security Management	Digital Signature Management	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Support Services	Security Management	FISMA Management and Reporting	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Support Services	Security Management	Identification and Authentication	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Support Services	Security Management	Intrusion Detection	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Central Data Exchange	A website through which environmental data enters the Agency electronically.	Support Services	Systems Management	License Management	Data Exchange	020-00-01-16-01-6005-00	Internal	4
Central Data	A website	Support Services	Systems	System	Data Exchange	020-00-01-16-	Internal	3

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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)
Exchange	through which environmental data enters the Agency electronically.		Management	Resource Monitoring		01-6005-00		

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)
Data Exchange	Component Framework	Business Logic	Platform Dependent Technologies	
Extraction and Transformation	Component Framework	Business Logic	Platform Dependent Technologies	
Loading and Archiving	Component Framework	Business Logic	Platform Dependent Technologies	
Meta Data Management	Component Framework	Business Logic	Platform Independent Technologies	
Requirements Management	Component Framework	Business Logic	Platform Independent Technologies	
Legacy Integration	Component Framework	Business Logic	Platform Independent Technologies	
Graphing / Charting	Component Framework	Data Interchange	Data Exchange	
Strategic Planning and Mgmt	Component Framework	Data Interchange	Data Exchange	
Ad Hoc	Component Framework	Data Interchange	Data Exchange	
Document Conversion	Component Framework	Data Interchange	Data Exchange	
Business Rule Management	Component Framework	Data Management	Database Connectivity	
Governance / Policy Management	Component Framework	Data Management	Database Connectivity	
Configuration Management	Component Framework	Data Management	Database Connectivity	
Partner Relationship Management	Component Framework	Security	Certificates / Digital Signatures	
Content Authoring	Component Framework	Security	Supporting Security Services	
Mapping / Geospatial / Elevation / GPS	Component Framework	User Presentation / Interface	Content Rendering	
Program / Project Management	Component Framework	User Presentation / Interface	Content Rendering	
Quality Management	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Customer / Account Management	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Call Center Management	Service Access and Delivery	Access Channels	Other Electronic Channels	
Content Publishing and Delivery	Service Access and Delivery	Access Channels	Other Electronic Channels	
Content Review and Approval	Service Access and Delivery	Access Channels	Web Browser	
Classification	Service Access and Delivery	Delivery Channels	Extranet	
Information Retrieval	Service Access and Delivery	Service Requirements	Hosting	
Document Library	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Information Sharing	Service Access and Delivery	Service Requirements	Legislative / Compliance	

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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)
Task Management	Service Access and Delivery	Service Transport	Service Transport	
Access Control	Service Access and Delivery	Service Transport	Service Transport	
Digital Signature Management	Service Access and Delivery	Service Transport	Service Transport	
Email	Service Access and Delivery	Service Transport	Service Transport	
FISMA Management and Reporting	Service Access and Delivery	Service Transport	Supporting Network Services	
Identification and Authentication	Service Interface and Integration	Integration	Enterprise Application Integration	
License Management	Service Interface and Integration	Integration	Middleware	
Standardized / Canned	Service Interface and Integration	Interoperability	Data Format / Classification	
Document Review and Approval	Service Interface and Integration	Interoperability	Data Types / Validation	
Information Mapping / Taxonomy	Service Interface and Integration	Interoperability	Data Types / Validation	
Audit Trail Capture and Analysis	Service Platform and Infrastructure	Database / Storage	Database	
Record Linking / Association	Service Platform and Infrastructure	Database / Storage	Database	
System Resource Monitoring	Service Platform and Infrastructure	Database / Storage	Storage	
Intrusion Detection	Service Platform and Infrastructure	Software Engineering	Test Management	
Change Management	Service Platform and Infrastructure	Support Platforms	Dependent Platform	

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., USA.gov, Pay.Gov, etc)? Yes

a. If "yes," please describe.

CDX leverages E-Authentication, Pay.gov, and Grants.gov:

1. E-Authentication: CDX sponsored the first project to successfully demonstrate that Federal and State agencies could accept and validate each other's PKI certificates, using GSA's Federal Bridge. Per the memorandum dated March 16, 2007 and in partnership with GSA and the State of Indiana, CDX demonstrated the ability to accept and validate Indiana certificates using the Federal Bridge. CDX is working with GSA on a second phase of E-Authentication integration, where a much broader set of CDX's infrastructure will be integrated with GSA's E-Authentication Portal, Step-down Translator and Hosted Validation Services.

2. Pay.gov: EPA has collaborated with the Department of Treasury to integrate CDX functionality with Pay.gov. The first CDX data flow released that leverages this functionality is the Lead-Based Paint Abatement Request for Certification. EPA collects reviews and approves requests by abatement firms to be certified in accordance with laws and regulations. As a result of this investment, the review time for lead abatement certification requests has fallen from 10 to two days. This has resulted in dramatic savings for the customer (\$6.67 per application to \$3.00) and EPA (\$38 to \$23 per application)

3. Grants.gov: EPA working with the Department of Health and Human Services (DHHS) has implemented a set of web services based interfaces with Grants.Gov E-Apply. The interfaces support the flow of grant applications received by the GRANTS.GOV site through CDX and into the Integrated Grants Management System (IGMS) application workflow for managing and awarding grants. This project successfully integrated three systems using W3C standards based web services. As a result of this project, grant applicants can now apply for grants from EPA directly on the Grants.Gov web site and have their applications seamlessly submitted into the Integrated Grants Management System for processing.

CDX is also becoming an asset which other Federal Agencies can leverage. For example, other Federal Agencies could make use of CDX-developed tools such as the Exchange Network security model, QA services, and other web services that support the exchange of data.

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? 8/20/2007
 - 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
Alternative 1, CDX as currently planned	Under this alternative, EPA developed CDX as currently envisioned. The alternative assumes that CDX is implemented from FY03 to FY17. 78 data flows are implemented and supporting infrastructure. Please note, costs do match budget costs because: (1) the costs include CDX contract and government FTE costs (\$158M + \$21M) and costs related to contributions from EPA Programs to develop data flows and residual manual process costs (\$135M); and (2) Costs (and benefits) are current dollars.	395.658989	774.500744
Alternative 2, Multiple EPA-Program Developed and Maintained Data Systems	Each EPA Program Office would develop their own CDX-like system. The alternative assumes that EPA Programs implement a CDX-like set of systems between FY03 to FY17. 78 data flows are implemented and supporting infrastructure. Programs implement data flows at a rate of five per year (until FY17 when 8 data flows are implemented. Costs (and benefits) are present value. The alternative includes residual manual process costs. Benefits include savings from automating manual data.	431.84566	256.531483
Alternative 3, Multiple EPA-Program Developed and Maintained Data Systems with Portal-Like Integration	Each EPA Program Office would develop their own CDX-like system and in FY08 EPA would develop a system that would integrate all the Program Office systems and allow users to access them via a common portal. The alternative assumes that EPA Programs implement a CDX-like set of systems between FY03 to FY17. 78 data flows are implemented and supporting infrastructure. Programs implement data flows at a rate of five per year (until FY17 when 8 data flows are implemented.	511.184835	229.167371
Baseline: Manual Data Flow Processes Only	Each EPA Program Office would continue to maintain a manual system where data was received from stakeholders in paper, disks and tapes and files are maintained in paper form. The alternative covers the period between FY03 to FY17. 78 data flows are included in the alternative. Costs (and benefits) are present value. No benefits are included as this is the baseline alternative against which other alternatives are measured.	610.71456	0

3. Which alternative was selected by the Agency's Executive/Investment Committee and why was it chosen?
 All alternatives were compared consistently in terms of goals, costs, and benefits. Alternative 1 was chosen because: (1) it is

Exhibit 300: Central Data Exchange (CDX) (Revision 11)

the lowest cost alternative over 15 years; and (2) it produces more benefits than the other alternatives. Please note, costs do not match budget costs because: (1) the costs include CDX contract and government FTE costs and costs related to contributions from EPA Programs to develop data flows and residual manual process costs. All costs (and benefits) are in current dollars. Benefits arise from automating data flows, improved data quality, and improved access to data benefits. The payback year, when the total budgeted cost savings exceeds the cumulative costs, is estimated to be achieved in FY2012. The return on investment is positive and estimated to be 95%.

a. What year will the investment breakeven? (Specifically, 2012 when the budgeted costs savings exceed the cumulative costs.)

4. What specific qualitative benefits will be realized?

CDX has conducted a detailed analysis to identify potential qualitative benefits. EPA has documented, but not quantified, the following benefits:

1. Regulatory Compliance: CDX created a Cross-Media Electronic Reporting Rule (CROMERR) compliant solution for information exchange. No other EPA, in-house solution contemplated by EPA Programs would do this.
2. Security: All systems now comply with security-related electronic information exchange requirements. This means that EPA can receive electronic information in a secure, regulatory compliant system.
3. User Satisfaction: Users have reported increased satisfaction with CDX compared to previous systems. Surveys conducted for performance measures show a high level of satisfaction with CDX and CDX functionality.
4. Timeliness: CDX improved the timeliness of information. Data is now available to Program Offices much quicker than without CDX. Previous data was sent to EPA in paper form, via disk, or FTP'ed, resulting in processing time of several weeks or longer. Now data is sent to EPA virtually instantaneously via CDX. As a result, data is available to EPA Program Offices in a much more timely fashion.
5. Cost: CDX implementation significantly reduced the cost and time to develop and maintain several data flows.

5. Federal Quantitative Benefits				
What specific quantitative benefits will be realized (using current dollars) Use the results of your alternatives analysis to complete the following table:				
	Budgeted Cost Savings	Cost Avoidance	Justification for Budgeted Cost Savings	Justification for Budgeted Cost Avoidance
PY - 1 2007 & Prior	29.63	65.14	Cost savings arise from replacing a legacy method of data collection (paper processes) with data flow automation. This process reengineering helps to decrease the time and resource costs associated with manual processing and increases access to information in a timely manner.	Cost avoidance from improved data consistency and quality by avoiding implementation of the costly development and maintenance of program-developed data flows.
PY 2008	22.79	26.05	Cost savings arise from replacing a legacy method of data collection (paper processes) with data flow automation. This process reengineering helps to decrease the time and resource costs associated with manual processing and increases access to information in a timely manner.	Cost avoidance from improved data consistency and quality by avoiding implementation of the costly development and maintenance of program-developed data flows.
CY 2009	27.86	31.85	Cost savings arise from replacing a legacy method of data collection (paper processes) with data flow automation. This process reengineering helps to decrease the time and resource costs associated with manual processing and increases access to information in a timely manner.	Cost avoidance from improved data consistency and quality by avoiding implementation of the costly development and maintenance of program-developed data flows.
BY 2010	32.93	37.63	Cost savings arise from replacing a legacy method of data collection (paper processes) with data flow automation. This process reengineering helps to decrease the time and resource costs associated with manual processing and increases access to information in a timely manner.	Cost avoidance from improved data consistency and quality by avoiding implementation of the costly development and maintenance of program-developed data flows.
Total LCC Benefit			LCC = Life-cycle Cost	

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

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:

5b. 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? 7/1/2007
 - 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?

Note: CDX maintain a collective risk management plan. Risks are managed are the work assignment level. Each work assignment contains a detailed risk management plan that identifies risks and strategies for eliminating or mitigating these risks. The CDX Management Team regularly meets with with contractors and reviews the risks for each work assignment and how they are being managed. At these meeting, the Management Team also considers the interaction between risks identified in different Work Assignment and how to manage and mitigate program-wide risks. Any decisions made are documented and their implementation is tracked by the Management Team.

In addition, CDX conducts a monthly program risk assessment meeting. At this meeting, the CDX Team reviews all program-wide risks and identifies mitigation/management strategies. The results of this meeting are documented, tracked and reported on in the next program-wide risk meeting.

Please note, the 7/1/07 date for the risk management plan relects the most recent review of all CDX risks.

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

The current cost analysis includes investment risks in a number of ways. EPA developed a cost-benefit model that allowed it to vary a number of parameters that contributed to the overall cost of CDX. Using this model EPA identified those parameters that significantly affect the overall cost of CDX (e.g., the number of data flows that will use CDX). EPA varied these parameters to consider different risk scenarios to see how they might affect cost using a Monte Carlo risk analysis. EPA then reviewed these estimates, explored how they might affect the overall costs, and selected a conservative, prudent estimate that included all likely risks. EPA then used industry-benchmarks and best-professional judgment to determine how these parameters might vary under different risk scenarios. EPA then conducted a series of sensitivity analyses to see how the overall program cost might be affected by different risk scenarios.

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? Yes
- 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:

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

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

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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			
01	FY 2004	9/30/2004	\$7.64	9/30/2004	9/30/2004	\$7.64	\$7.64	0	\$0.00	100%
22	Maintain centralized EPA CDX for up to 15 major EPA data exchanges (O&M)	9/30/2004	\$6.21	9/30/2004	9/30/2004	\$6.21	\$6.21	0	\$0.00	100%
23	Begin implementing for three new data exchanges (DME)	9/30/2004	\$0.27	9/30/2004	9/30/2004	\$0.27	\$0.27	0	\$0.00	100%
24	Design and conduct testing, for up to three data exchanges, including a test of the Federal Bridge Certificate Authority or E-authentication gateway with one state partner (DME)	9/30/2004	\$0.45	9/30/2004	9/30/2004	\$0.45	\$0.45	0	\$0.00	100%
25	Assess and evaluate CDX strategic design and operations to incorporate E-Authentication Gateway functionality as necessary, and update plans - security, risk mitigation, acquisition and other documentation as necessary. (DME)	6/30/2004	\$0.23	6/30/2004	9/30/2004	\$0.23	\$0.23	-92	\$0.00	100%
26	Expand CDX support to at least 12 state nodes (DME)	9/30/2004	\$0.47	9/30/2004	9/30/2004	\$0.47	\$0.47	0	\$0.00	100%
02	FY 2005	9/30/2005	\$182.91	9/30/2005	9/30/2005	\$7.03	\$7.78	0	(\$0.75)	100%
27	Maintain centralized EPA CDX for 15 to 18 major EPA data exchanges (O&M)	9/30/2005	\$42.21	9/30/2005	9/30/2005	\$3.52	\$4.21	0	(\$0.69)	100%
30	Assess and evaluate CDX strategic design and operations and update plans - security, risk mitigation, acquisition and other documentation as necessary (DME)	9/30/2005	\$70.35	9/30/2005	9/30/2005	\$1.90	\$1.93	0	(\$0.03)	100%
31	Maintain state and tribal nodes	9/30/2005	\$70.35	9/30/2005	9/30/2005	\$1.62	\$1.64	0	(\$0.02)	100%

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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 '0' 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			
	(DME)									
03	FY 2006	9/30/2006	\$11.78	9/30/2006	9/30/2006	\$8.81	\$8.33	0	\$0.49	100%
32	Maintain centralized EPA CDX for 18 to 20 major/minor data exchanges (O&M)	9/30/2006	\$7.71	9/30/2006	9/30/2006	\$4.37	\$4.32	0	\$0.05	100%
33	Begin implementing for three new data exchanges (DME)	9/30/2006	\$0.00	9/30/2006	9/30/2006	\$0.47	\$0.47	0	\$0.00	100%
34	Design and conduct testing for up to three data exchanges (DME)	9/30/2006	\$0.00	9/30/2006	9/30/2006	\$0.47	\$0.41	0	\$0.06	100%
35	Assess and evaluate CDX strategic design and operations and update plans - security, risk mitigation, acquisition and other documentation as necessary (O&M)	6/30/2006	\$1.23	6/30/2006	6/30/2006	\$1.60	\$1.37	0	\$0.23	100%
36	Maintain state and tribal nodes for multiple delegated programs (DME)	9/30/2006	\$2.85	9/30/2006	9/30/2006	\$1.90	\$1.76	0	\$0.14	100%
47	Develop an inventory of current sources and contractual obligations for information security products and services	12/31/2005	\$0.00	12/31/2005	12/31/2005	\$0.00	\$0.00	0	\$0.00	100%
48	Develop migration plan for acquiring information security products and services from Centers of Excellence established under the Information Systems Security Line of Business.	9/30/2006	\$0.00	9/30/2006	9/30/2006	\$0.00	\$0.00	0	\$0.00	0%
04	FY 2007	9/30/2007	\$14.41	9/30/2007		\$8.81	\$9.15		(\$0.34)	100%
37	Maintain centralized EPA CDX for 20 to 23 major/minor data exchanges	9/30/2007	\$9.59	9/30/2007		\$4.37	\$4.35		\$0.02	100%

Exhibit 300: Central Data Exchange (CDX) (Revision 11)

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 '0' 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			
38	Begin implementing for three new data exchanges	9/30/2007	\$0.00	9/30/2007		\$0.47	\$0.43		\$0.04	100%
39	Design and conduct testing for up to three data exchanges	9/30/2007	\$0.00	9/30/2007		\$0.47	\$0.78		(\$0.31)	100%
40	Assess and evaluate CDX strategic design and operations and update plans - security, risk mitigation, acquisition and other documentation as necessary	6/1/2007	\$0.98	6/1/2007		\$1.60	\$1.94		(\$0.34)	100%
41	Maintain state and tribal nodes for multiple delegated programs	9/30/2007	\$3.84	9/30/2007		\$1.90	\$1.65		\$0.25	100%
49	Implement plan to migrate from current information security acquisition processes to the procurement of information security products and services from Centers of Excellence established under the Information Systems Security Line of Business.	9/30/2007	\$0.00	9/30/2007		\$0.00	\$0.00		\$0.00	0%
05	FY 2008	9/30/2008	\$8.81	9/30/2008		\$8.81	\$4.67		(\$0.07)	52.3%
51	Maintain centralized EPA CDX for 44 major/minor data exchanges (O&M)	9/20/2008	\$4.37	9/30/2008		\$4.37	\$2.34		\$0.05	54.6%
52	Begin implementing for three new data exchanges	9/30/2008	\$0.47	9/30/2008		\$0.47	\$0.34		(\$0.11)	50.2%
53	Design and conduct testing for up to three data exchanges	9/30/2008	\$0.47	9/30/2008		\$0.47	\$0.52		(\$0.28)	50.1%
54	Assess and evaluate CDX strategic design and operations and update plans--security, risk mitigation, acquisition and	9/30/2008	\$1.60	9/30/2008		\$1.60	\$0.70		\$0.10	50%

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			
	other documentation as necessary									
55	Maintain state and tribal nodes for multiple delegated programs (O&M)	9/30/2008	\$1.90	9/30/2008		\$1.90	\$0.77		\$0.18	50%
06	FY 2009	9/30/2009	\$8.81	9/30/2009		\$8.81				0%
61	Begin implementing for three new data exchanges	9/30/2009	\$0.47	9/30/2009		\$0.47				0%
62	Maintain centralized EPA CDX for 47 major/minor data exchanges (O&M)	9/30/2009	\$4.37	9/30/2009		\$4.37				0%
63	Design and conduct testing for up to three data exchanges	9/30/2009	\$0.47	9/30/2009		\$0.47				0%
64	Assess and evaluate CDX strategic design and operations and update plans--security, risk mitigation, acquisition and other documentation as necessary	9/30/2009	\$1.60	9/30/2009		\$1.60				0%
65	Maintain state and tribal nodes for multiple delegated programs (O&M)	10/1/2008	\$1.90	9/30/2009		\$1.90				0%
07	FY 2010	9/30/2010	\$8.81	9/30/2010		\$8.81				0%
71	Maintain centralized EPA CDX for 50 major/minor data exchanges (O&M)	9/30/2010	\$4.37	9/30/2010		\$4.37				0%
72	Begin implementing for three new data exchanges	9/30/2010	\$0.47	9/30/2010		\$0.47				0%
73	Design and conduct testing for up to three data exchanges	9/30/2010	\$0.47	9/30/2010		\$0.47				0%
74	Assess and evaluate CDX strategic design and operations and update plans--security, risk	9/30/2010	\$1.60	9/30/2010		\$1.60				0%

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 '0' 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			
	mitigation, acquisition and other documentation as necessary									
75	Maintain state and tribal nodes for multiple delegated programs (O&M)	9/30/2010	\$1.90	9/30/2010		\$1.90				0%
Project Totals										