## *INITIATIVE DEFINITION BY08*

### *Initiative Definition BY08*

| | |
|---|---|
| Template Name | IT Investment BY2008 |
| Investment Name | HSG-SF - 663400 - Single Family Integration-P233 |
| Investment Revision Number | 9 |
| Is this investment a consolidated business case? | No |
| Point of Contact | Lasley, Kris |
| Revision Comment | |
| Class | IT |

## *I.A: OVERVIEW BY08*

### *Descriptive Information BY08*

| | |
|---|---|
| Date of Submission | |
| Agency | Department of Housing and Urban Development |
| Bureau | Working Capital Fund |
| Name of this Capital Asset | HSG-SF - 663400 - Single Family Integration-P233 |
| Full UPI Code | 025-00-01-04-01-1220-00 |
| Four Digit UPI Code | 1220 |
| Two Digit UPI Code | 00 |
| Exhibit 53 Part | IT Investments by Mission Area |
| OMB Investment Type | 01 - Major Investment |
| OMB Exhibit 53 Major Mission Area | 04 - Single Family Housing |
| PY Full UPI Code | 025-00-01-04-01-1010-00-101-001 |
| What kind of investment will this be in this Budget Year? | Mixed Life Cycle |
| If this investment supports homeland security, Indicate by corresponding number which homeland security mission area(s) this investment supports? | |
| OMB Short Description | This initiative integrates the legacy systems supporting the SF mortgage insurance process, resulting in decreased system costs, and improved integration, and monitoring and evaluation of the SF insurance process. |
| Investment C&A Status | 25 - Some or all of the systems within this investment have been through a C&A Process, some systems have been granted Full Authority to Operate |

### *Screening Questions BY08*

| | |
|---|---|
| What was the first budget year this investment was submitted to OMB? | FY2006 |

Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap:

The SFI project was initiated to replace outdated legacy and cuff systems within FHA's Office of Single Family Housing and to help the office transform from a large number of individual systems developed for unique purposes to an integrated systems architecture that serves present and future needs. Currently, over forty national systems, and many local (cuff) systems support the five key business functions: Loan Origination, Loan Insurance Management, Asset Management, Business Partner Approval & Monitoring, and Business Intelligence/Reporting. This project will consolidate 35 legacy systems and 50 cuff systems for processing FHA SF mortgage insurance. The project was undertaken, in part, to address the recommendations made in the General Accounting Office's report "Single Family Housing: Current Information Systems Do Not Fully Support the Business Processes at HUD's Homeownership Centers." The project addresses the persistent need to replace systems that are past their design life or that do not provide needed functionality; consolidate the large number of separate systems into a more manageable group of related systems that aligns with the Target Architecture; improve system capability by using a common software platform; reduce data errors and redundancy by using a single, common database; and utilize COTS software where possible. The investment supports the SFI LoB defined by HUD's EA and Business and IT Modernization Roadmap (Vision 2010).

The SFI project is in the process of obtaining contract services that will perform the migration of the legacy systems to the new platform. In FY07, it is expected that the first systems will be moved into the

new environment, while additional systems will be moved in FY2008.

As a result of this investment, HUD will realize the following impacts: (1) a significant reduction in operational and maintenance costs; (2) simplified system administration; (3) reduced total costs of ownership; (4) enhanced system flexibility and adaptability; (5) improved systems security; (6) additional support for field operations; (7) an enhanced ability to respond to emerging business requirements; and (8) improved program support and oversight.

Specific results will include : Automating the lender case binder tracking process; reducing the Department's dependency on batch processing between legacy systems; allowing Home Ownership Centers (HOCs) the ability to better monitor lenders; and improving data quality.

| | |
|---|---|
| Did the Agency's Executive/Investment Committee approve this request? | Yes |
| If "yes," what was the date of this approval? | 8/15/2006 |
| Did the Project Manager review this Exhibit? | Yes |
| Contact information of Project Manager? | |
| | |
| Project Manager Name | |
| Reed Sr., Peter J | |
| Project Manager Phone Number | 202-708-0614 x6391 |
| Project Manager E-mail | peter_j._reed@hud.gov |
| Has the agency developed and/or promoted cost effective, energy efficient and environmentally sustainable techniques or practices for this project. | Yes |
| Will this investment include electronic assets (including computers)? | Yes |
| Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only) | No |
| If "yes," is an ESPC or UESC being used to help fund this investment? | |
| If "yes," will this investment meet sustainable design principles? | |
| If "yes," is it designed to be 30% more energy efficient than relevant code? | |
| Does this investment directly support one of the PMA initiatives? | Yes |
| If "yes," check all of the PMA initiatives that apply: | Expanded E-Government, Financial Performance, Housing and Urban Development Management and Performance, Real Property Asset Management |
| 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 |
| Does this investment address a weakness found during the PART Review? | No |
| If "yes," what is the name of the PARTed program? | |
| If "yes," what PART rating did it receive? | |
| Is this investment for information technology? | Yes |
| Briefly describe how this asset directly supports the identified initiative(s)? | The initiative will incorporate e-Gov and e-business to the maximum extent possible; will work with other agencies (e.g. SSA, Treasury), state/local governments, and the mortgage industry to improve the Mortgage Insurance process. Financial Performance and Asset Management will be improved by better staff ability to analyze partner performance, and automated monitoring. HUD Management & Performance are addressed by improved capabilities for risk management and strengthened program controls. |

*IT Screening Questions BY08*

| | |
|---|---|
| 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. | |
| What is the level of the IT Project? (per CIO Council PM Guidance) | Level 2 |

| | |
|---|---|
| What project management qualifications does the Project Manager have? (per CIO Council's PM Guidance): | (1) Project manager has been validated as qualified for this investment |
| Is this investment identified as "high risk" on the Q4 - FY 2006 agency high risk report (per OMB's 'high risk" memo)? | No |
| Is this a financial management system? | No |
| If "yes", does this investment address a FFMIA compliance area? | No |
| If "yes," which FFMIA compliance area? | |
| If "no," what does it address? | |
| 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 | |
| | |
| Provide the Percentage Financial Management for the budget year | 12.602000 |
| What is the percentage breakout for the total FY2008 funding request for the following? (This should total 100%) | 100.000000 |
| For budget year, what percentage of the total investment is for hardware? | 15.000000 |
| For budget year, what percentage of the total investment is for software? | 10.000000 |
| For budget year, what percentage of the total investment is for services? | 75.000000 |
| For budget year, what percentage of the total investment is for other services? | |
| 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? | Yes |
| Contact information of individual responsible for privacy related questions: | |
| | |
| Privacy Officer Name Jeanette Smith | |
| Privacy Officer Phone Number | 202-708-2374 X8062 |
| Privacy Officer Title | Privacy Act Officer |
| Privacy Officer E-mail | Jeanette_Smith@HUD.GOV |
| Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval? | Yes |

## I.B: SUMMARY OF SPENDING BY08

### Summary of Spending BY08

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.

SUMMARY OF SPENDING FOR PROJECT STAGES                    <span style="color:red">* Costs in thousands</span>

| | 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 | 26907.805 | 248.668 | 946.847 | 722.378 | | | | | |
| Outlays | 131.361 | 0 | 0 | 0 | | | | | |
| A. Project Initiation/Planning | | | | | | | | | |

| | PY - 1 and Earlier | PY 2006 | CY 2007 | BY 2008 | BY + 1 2009 | BY + 2 2010 | BY + 3 2011 | BY + 4 and Beyond | Total |
|---|---|---|---|---|---|---|---|---|---|
| Budgetary Resources | 26907.805 | 57.711 | 95.48 | 72.845 | | | | | |
| Outlays | 131.361 | 0 | 0 | 0 | | | | | |
| **B. Requirements Definition** | | | | | | | | | |
| Budgetary Resources | 0 | 73.448 | 39.784 | 30.352 | | | | | |
| Outlays | 0 | 0 | 0 | 0 | | | | | |
| **C. System Design** | | | | | | | | | |
| Budgetary Resources | 0 | 117.509 | 811.583 | 619.181 | | | | | |
| Outlays | 0 | 0 | 0 | 0 | | | | | |
| **Acquisition** | | | | | | | | | |
| Budgetary Resources | 0 | 1250.332 | 7010.553 | 5348.022 | | | | | |
| Outlays | 0 | 0 | 0 | 0 | | | | | |
| **D. Software Acquisition** | | | | | | | | | |
| Budgetary Resources | 0 | 216.911 | 95.48 | 72.845 | | | | | |
| Outlays | 0 | 0 | 0 | 0 | | | | | |
| **E. Hardware/Infrastructure Acquisition** | | | | | | | | | |
| Budgetary Resources | 0 | 291.024 | 779.757 | 594.899 | | | | | |
| Outlays | 0 | 0 | 0 | 0 | | | | | |
| **F. New Development/Perfective Maintenance** | | | | | | | | | |
| Budgetary Resources | 0 | 111.546 | 2958.727 | 2561.709 | | | | | |
| Outlays | 0 | 0 | 0 | 0 | | | | | |
| **G. Systems Integration & Testing** | | | | | | | | | |
| Budgetary Resources | 0 | 430.851 | 2954.101 | 1948.598 | | | | | |
| Outlays | 0 | 0 | 0 | 0 | | | | | |
| **H. Installation & Deployment** | | | | | | | | | |
| Budgetary Resources | 0 | 200 | 222.488 | 169.971 | | | | | |
| Outlays | 0 | 0 | 0 | 0 | | | | | |
| **Subtotal Planning & Acquisition** | | | | | | | | | |
| Budgetary Resources | 26907.805 | 1499 | 7957.4 | 6070.4 | | | | | |
| Outlays | 131.361 | 0 | 0 | 0 | | | | | |
| **Operations & Maintenance** | | | | | | | | | |
| Budgetary Resources | 45702.572 | 14331.908 | 10731.949 | 10411.286 | | | | | |
| Outlays | 3188.199 | 0 | 0 | 0 | | | | | |
| **I. Systems Operation** | | | | | | | | | |
| Budgetary Resources | 41794.324 | 5693.646 | 4425.179 | 4164.515 | | | | | |
| Outlays | 3188.199 | 0 | 0 | 0 | | | | | |
| **J. Corrective & Adaptive Maintenance** | | | | | | | | | |
| Budgetary Resources | 3908.248 | 8638.262 | 6306.77 | 6246.771 | | | | | |
| Outlays | 0 | 0 | 0 | 0 | | | | | |
| **TOTAL** | | | | | | | | | |

|  | PY - 1 and Earlier | PY 2006 | CY 2007 | BY 2008 | BY + 1 2009 | BY + 2 2010 | BY + 3 2011 | BY + 4 and Beyond | Total |
|---|---|---|---|---|---|---|---|---|---|
| Budgetary Resources | 72610.377 | 15830.908 | 18689.349 | 16481.686 |  |  |  |  |  |
| Outlays | 3319.560 | 0 | 0 | 0 |  |  |  |  |  |
| Government FTE Costs |  |  |  |  |  |  |  |  |  |
| Budgetary Resources | 5804.455 | 1093.126 | 2928.051 | 1865.697 |  |  |  |  |  |
| Planning |  |  |  |  |  |  |  |  |  |
| Budgetary Resources | 0 | 0 | 0 | 0 |  |  |  |  |  |
| Acquisition |  |  |  |  |  |  |  |  |  |
| Budgetary Resources | 0 | 0 | 0 | 0 |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |  |  |  |
| Budgetary Resources | 5804.455 | 1093.126 | 2928.051 | 1865.697 |  |  |  |  |  |

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.

*Full Time Equivalents BY08*

Use the following table to provide the number of Government Full Time Equivalents (FTE) represented by the Government FTE Costs in the Summary of Spending Table. Numbers should be entered in decimal format for each of the categories listed.

FTE Table

|  | PY - 6 2000 | PY - 5 2001 | PY - 4 2002 | PY - 3 2003 | PY - 2 2004 | PY - 1 2005 | PY 2006 | CY 2007 | BY 2008 | BY + 1 2009 | BY + 2 2010 | BY + 3 2011 | BY + 4 2012 | BY + 5 2013 | BY + 6 2014 | BY + 7 2015 | BY + 8 2016 | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Financial Management | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |
| Security | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |
| Program Management | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |
| IT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 9.220 | 9.22 | 9.220 |  |  |  |  |  |  |  |  |  |
| Total* | 0 | 0 | 0 | 0 | 0 | 0 | 9.220 | 9.22 | 9.220 |  |  |  |  |  |  |  |  |  |

*This row represents the 'Number of FTE represented by cost' from Summary of Spending table and will be sent to OMB.

*Funding Questions BY08*

| Will this project require the agency to hire additional FTE's? | No |
|---|---|
| How many and in what year? | |

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

The 2008 summary of spending has changed for this initiative for several reasons. First, the initiative did not receive the budget requested for 2006, so the original amount needed for 2006 was rolled over to 2007, and 2007 rolled over to 2008, etc. Next, four additional children initiatives were added to the consolidated business case, causing an increase in the maintenance dollars being reported. Finally, legislation was introduced this past year by the program area that will require legacy system changes prior to the new system being implemented, causing additional development dollars to be added to the original budget requests.

| Provide the Percent Budget Formulation (BF) for the budget year | |
|---|---|
| Provide the Percent Budget Execution (BE) for the | |

budget year

*Funding Sources BY08*

Funding Sources

| FS Name: MAX Code | Row Type | PY - 6 2000 | PY - 5 2001 | PY - 4 2002 | PY - 3 2003 | PY - 2 2004 | PY - 1 2005 | PY 2006 | CY 2007 | BY 2008 | BY + 1 2009 | BY + 2 2010 | BY + 3 2011 | BY + 4 2012 | BY + 5 2013 | BY + 6 2014 | BY + 7 2015 | BY + 8 2016 | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Working Capital Fund: 025-35-4586-0 On Ex.53: **Yes** | DME | 0 | 0 | 0 | 0 | 0 | 0 | 1498.85 | 7957.4 | 6070.400 | | | | | | | | | |
| | SS | 0 | 0 | 0 | 0 | 0 | 0 | 15425.406 | 13660 | 12276.983 | | | | | | | | | |
| | Total | 0 | 0 | 0 | 0 | 0 | 0 | 16924.256 | 21617.4 | 18347.383 | | | | | | | | | |
| Total Yearly Budgets | DME | 0 | 0 | 0 | 0 | 0 | 0 | 1498.85 | 7957.4 | 6070.4 | | | | | | | | | |
| | SS | 0 | 0 | 0 | 0 | 0 | 0 | 15425.406 | 13660 | 12276.983 | | | | | | | | | |
| | Total | 0 | 0 | 0 | 0 | 0 | 0 | 16924.256 | 21617.4 | 18347.383 | | | | | | | | | |

## I.C: ACQUISITION/CONTRACT STRATEGY BY08

*Contract/Task Order Table BY08*

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.

Contract/Task Orders Table

| Row Number | Contract or Task Order Number | Type of Contract/ Task Order | Has the contract been awarded? | 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 | Is this an Interagency Acquisition? | Is it performance based? | Competitively awarded? | What, if any, alternative financing option is being used? | Is EVM in the contract? | Does the contract include the required security and privacy clauses? | Name of CO | CO Contact information (phone/email) | Contracting Officer Certification Level | If N/A, has the agency determined the CO assigned has the competencies and skills necessary to support this acquisition? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TBD | FFP | No | 9/1/2006 | 1/1/1900 | 1/1/1900 | 3000 | No | Yes | No | NA | Yes | Yes | Lasley, Kris D | kris_d._lasley@hud.gov | N/A | Yes |
| 2 | TBD | Ã TBD | No | 3/1/2007 | 1/1/1900 | 1/1/1900 | 20000 | No | Yes | Yes | NA | Yes | Yes | Lasley, Kris D | kris_d._lasley@hud.gov | N/A | Yes |
| 3 | C-ATL-01831 | FFP | Yes | 7/27/2005 | 7/27/2005 | 7/22/2006 | 1750 | No | Yes | Yes | NA | No | Yes | Cannon, Norma | norma_s._cannon@hud.gov | Level 3 | |
| 4 | C-DEN-01959 | Firm Fixed Price | Yes | 9/27/2004 | 9/27/2004 | 1/31/2007 | 2990 | No | Yes | No | NA | No | Yes | Surber, Keith W | 303-672-5281 / keith_w._surber@hud.gov | Level 3 | |
| 5 | C-DEN-02045 | Firm | Yes | 9/30/2005 | 10/1/2005 | 9/30/2006 | 2920 | No | Yes | No | NA | Yes | Yes | Surber, | 303-672-5281 / | Level 3 | |

| Row Number | Contract or Task Order Number | Type of Contract/ Task Order | Has the contract been awarded? | 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 | Is this an Interagency Acquisition? | Is it performance based? | Competitively awarded? | What, if any, alternative financing option is being used? | Is EVM in the contract? | Does the contract include the required security and privacy clauses? | Name of CO | CO Contact Information (phone/email) | Contracting Officer Certification Level | If N/A, has the agency determined the CO assigned has the competencies and skills necessary to support this acquisition? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fixed Price | | | | | | | | | | | | Keith W | keith_w._surber@hud.gov | | |
| 6 | C-OPC-22595 | FFP | Yes | 12/1/2003 | 1/1/1900 | 1/1/1900 | 1700 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 7 | C-OPC-22595, TO1 | FFP | Yes | 9/30/2004 | 9/30/2004 | 9/30/2008 | 453 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 8 | C-OPC-22595, TO3 | FFP | Yes | 9/30/2004 | 9/30/2004 | 11/30/2006 | 802 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 9 | C-OPC-22595, TO2 | FFP | Yes | 9/30/2004 | 9/30/2004 | 9/30/2006 | 1300 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 10 | C-OPC-22595, TO4 | FFP | Yes | 1/1/2005 | 1/1/2005 | 4/30/2007 | 732 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 11 | C-OPC-22595, TO6 | FFP | Yes | 4/30/2005 | 4/30/2005 | 12/31/2006 | 2200 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 12 | C-OPC-22595, TO7 | FFP | Yes | 12/30/2005 | 1/2/2006 | 9/30/2006 | 2821 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 13 | C-OPC-22571 | FFP | Yes | 9/28/2004 | 9/28/2004 | 9/29/2009 | 8700 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 14 | C-OPC-22571, TO2 | FFP | Yes | 12/1/2005 | 12/1/2005 | 10/31/2006 | 1238 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 15 | C-OPC-22310 | FFP | Yes | 9/28/2002 | 9/28/2002 | 9/29/2007 | 1100 | No | Yes | Yes | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 16 | C-OPC-22310, TO17 | FFP | Yes | 9/30/2005 | 9/30/2005 | 9/29/2006 | 371 | No | Yes | Yes | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 17 | C-OPC-22310, TO18 | FFP | Yes | 2/24/2006 | 2/24/2006 | 11/23/2006 | 89 | No | Yes | Yes | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 18 | C-OPC-22583 | FFP | Yes | 12/2/2003 | 12/2/2003 | 11/27/2008 | 945 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 19 | C-OPC-22583, TO2 | FFP | Yes | 9/30/2004 | 9/30/2004 | 6/30/2006 | 124 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 20 | C-OPC-22583, TO3 | FFP | Yes | 9/30/2004 | 9/30/2004 | 9/30/2006 | 392 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 21 | C-OPC-22583, TO4 | FFP | Yes | 10/1/2005 | 10/1/2005 | 8/31/2006 | 304 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 22 | C-OPC-22583, TO5 | FFP | Yes | 12/8/2005 | 12/8/2005 | 11/27/2006 | 2100 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 23 | C-OPC-22583, TO7 | FFP | Yes | 11/28/2005 | 11/28/2005 | 10/27/2006 | 2217 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 24 | C-OPC-22219 | FFP | Yes | 11/30/2005 | 12/1/2005 | 11/30/2006 | 3627 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 25 | C-OPC-22753 | FFP | Yes | 9/20/2004 | 9/20/2004 | 9/19/2009 | 6800 | No | Yes | Yes | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 26 | C-OPC-22753, TO3 | FFP | Yes | 12/1/2005 | 12/1/2005 | 11/30/2006 | 318 | No | Yes | No | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 27 | C-OPC-22163 | FFP | Yes | 6/3/2002 | 6/3/2002 | 5/30/2007 | 3400 | No | Yes | Yes | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 28 | C-OPC-22163, TO12 | FFP | Yes | 3/24/2006 | 3/24/2006 | 11/25/2006 | 573 | No | Yes | Yes | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 29 | C-OPC-22310, TO16 | FFP | Yes | 7/15/2005 | 7/15/2005 | 7/14/2006 | 301 | No | Yes | Yes | NA | No | Yes | Glymph, Kelvin | 202-708-7133 / Kelvin_X._Glymph@hud.gov | N/A | Yes |
| 30 | C-OPC-22421 | FFP | Yes | 5/25/2006 | 6/28/2006 | 6/27/2007 | 371 | No | Yes | No | NA | No | Yes | Glymph, | 202-708-7133 / | N/A | Yes |

| Row Number | Contract or Task Order Number | Type of Contract/ Task Order | Has the contract been awarded? | 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 | Is this an Interagency Acquisition? | Is it performance based? | Competitively awarded? | What, if any, alternative financing option is being used? | Is EVM in the contract? | Does the contract include the required security and privacy clauses? | Name of CO | CO Contact Information (phone/email) | Contracting Officer Certification Level | If N/A, has the agency determined the CO assigned has the competencies and skills necessary to support this acquisition? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | Kelvin | Kelvin_X._Glymph@hud.gov |  |  |
| 31 | C-DEN-01874 | FFP | Yes | 6/20/2006 | 6/20/2006 | 6/21/2007 | 1238 | No | Yes | No | NA | No | Yes | Surber, Keith W | 303-672-5281 / keith_w._surber@hud.gov | Level 3 |  |
| 32 | C-DEN-02057 | FFP | Yes | 3/16/2006 | 3/16/2006 | 11/5/2011 | 332 | No | Yes | No | NA | No | Yes | Royce, Nancy | Nancy_J._Royce@hud.gov | Level 2 |  |

*Contract/Task Order Questions BY08*

| | |
|---|---|
| If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why: | |
| Contracts with "NO" EVM indicated in the contract are maintenance contracts which practice "Operational Analysis". | |
| Do the contracts ensure Section 508 compliance? | Yes |
| Explain why (508 Compliance)? | The contracts are written to require Section 508 compliance where applicable. The following is an excerpt of the language contained in the contracts, including a statement that "the Contractor shall ensure compliance with the requirements in this section."<br><br>"The standards cited in the "Section 508 Standard Citation" column in the table (below) are derived from 36 CFR (Code of Federal Regulations) PART 1194 - Electronic and Information Technology Accessibility Standards." |
| Is there an acquisition plan which has been approved in accordance with agency requirements? | Yes |
| What is the date of your acquisition plan? | 11/1/2006 |
| If "no," will an acquisition plan be developed? | |
| If "no," briefly explain why: | |

### I.D: PERFORMANCE INFORMATION BY08

*Performance Goals & Measures BY08*

Agencies must use the Performance Goals and Measures Table 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 Goals and Measures

| Fiscal Year | Strategic Goal(s) Supported | Performance Measure | Actual/baseline (from Previous Year) | Planned Performance Metric (Target) | Performance Metric Results (Actual) |
|---|---|---|---|---|---|
| 2004 |  |  | See PRM Table 2 |  |  |

*FEA Performance Reference Model (PRM) BY08*

FEA PRM

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Planned Improvement to the Baseline | Actual Results |
|---|---|---|---|---|---|---|---|---|
| 2006 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Customer Results | Customer Benefit | Customer Impact or Burden | Enable electronic submission of mortgage case binders in support of Strategic Objective EM.3: Improve accountability, service delivery, and customer service of HUD and its partners | 0 | 40% | .5% |
| 2006 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Mission and Business Results | Controls and Oversight | Program Monitoring | Decrease the number of FHA mortgage insurance claims in support of PMA Objective: Housing and Urban Development Management and Performance | 248,995 | 25% | 6% |
| 2006 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Processes and Activities | Financial (Processes and Activities) | Savings and Cost Avoidance | Reduce Mailing and Storage Costs By Increasing the number of system interfaces with public sector partners in support of Strategic Objective EM.3: Improve accountability, service delivery, and customer service of HUD and its partners | 0 | 50% | 60% |
| 2006 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Technology | Financial (Technology) | Overall Costs | Decrease the maintenance costs for legacy systems in support of PMA Objective: Housing and Urban Development Management and Performance | $12 Million | 25% | 8% |
| 2007 | Goal A: | Customer | Customer | Customer | Increase the | 0% | 25% | |

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Planned Improvement to the Baseline | Actual Results |
|---|---|---|---|---|---|---|---|---|
| | Increase Homeownership Opportunities | Results | Benefit | Impact or Burden | share of Single Family mortgages endorsed for insurance by FHA through electronic endorsement in support of Strategic Objective EM.3: Improve accountability, service delivery and customer service of HUD and its partners | | | |
| 2007 | Goal A: Increase Homeownership Opportunities | Customer Results | Service Accessibility | Automation | Increase the percentage of Business Partner submissions that can be received electronically in support of increased electronic capability for Lerders, Brokers and Non-profit participants to submit applications | 20% | 10% | |
| 2007 | Goal A: Increase Homeownership Opportunities | Customer Results | Service Accessibility | Automation | Increase the percentage of annual mortgage case binders submitted electronically in support of increased electronic capability for Lenders, Brokers and Non-profit participants to submit data | 0% | 10% | |
| 2007 | Goal A: Increase Homeownership Opportunities | Mission and Business Results | Community and Social Services | Homeownership Promotion | H.1.11. Maintain the share of insurable REO properties sold to owner/occupants at no less than 66% in support of PMA Objective: Real Property Asset Management | 54% | 12% | |
| 2007 | Goal A: Increase Homeownership | Mission and Business Results | Community and Social Services | Homeownership Promotion | H.6.1. Ensure that at least 45% of total | 35% | 10% | |

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Planned Improvement to the Baseline | Actual Results |
|---|---|---|---|---|---|---|---|---|
| | Opportunities | | | | claims on FHA-insured Single Family mortgages are loss-mitigation claims in support of PMA Objective: Housing and Urban Development Management and Performance | | | |
| 2007 | Goal A: Increase Homeownership Opportunities | Mission and Business Results | Community and Social Services | Homeownership Promotion | H.6.2 Ensure that at least 62% of mortgagors receiving default counseling will successfully avoid foreclosure in support of PMA Objective: Housing and Urban Development Management and Performance | 45% | 17% | |
| 2007 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Mission and Business Results | Controls and Oversight | Program Monitoring | Reduce the percentage of mortgage insurance claims in support of PMA Objective: Housing and Urban Development Management and Performance | 42% | 5% | |
| 2007 | Goal A: Increase Homeownership Opportunities | Mission and Business Results | Internal Risk Management and Mitigation | Continuity Of Operations | Reduce the percentage of loss mitigation claim cases that re-default in support of PMA Objective: Financial Performance | 15.57 | 2% | |
| 2007 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Processes and Activities | Management and Innovation | Innovation and Improvement | Increase the share of audited financial statements submitted electronically by FHA-approved lenders in support of Strategic Objective EM.3: Improve | 0% | 20% | |

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Planned Improvement to the Baseline | Actual Results |
|---|---|---|---|---|---|---|---|---|
| | | | | | accountability, service delivery, and customer service of HUD and its partners | | | |
| 2007 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Processes and Activities | Productivity and Efficiency | Efficiency | Increase the average quarterly performance score for all M&M contracts by 3% over the score for the initial period in support of Strat Obj EM.3 Improve accountability, service delivery, and customer service of HUD and its business partners | 82.8 | 3% | |
| 2007 | Goal A: Increase Homeownership Opportunities | Processes and Activities | Quality | Errors | Reduce the share of mortgage insurance applications rejected during e-verification of SSN to .5% of all applications submitted to FHA in support of Strat Obj EM.3 Improve accountability, service delivery, and customer service of HUD and its partners | .7% | .2% | |
| 2007 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Technology | Effectiveness | IT Contribution to Process, Customer, or Mission | Reduce the number of different platforms required to perform Single Family business, thereby reducing maintenance costs and employing current technology in support of PMA Objective: Housing and Urban Development Management and Performance | 5 | 1 | |

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Planned Improvement to the Baseline | Actual Results |
|---|---|---|---|---|---|---|---|---|
| 2007 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Technology | Financial (Technology) | Overall Costs | Reduce the # of legacy mainframe systems for SF business processes, reducing maintenance costs and improving data quality in support of Strategic Objective EM.3: Improve accountability, service delivery and customer service of HUD and its partners | 32 | 6 | |
| 2007 | Goal A: Increase Homeownership Opportunities | Technology | Information and Data | Data Reliability and Quality | Increase the percentage of mortgage insurance applications that pass all automated edits for electronically submitted data in support of Strategic Objective EM.3: Improve accountability, service delivery and customer service of HUD and its partners | 83% | 5% | |
| 2008 | Goal A: Increase Homeownership Opportunities | Customer Results | Customer Benefit | Customer Impact or Burden | Increase the share of Single Family mortgages endorsed for insurance by FHA through electronic endorsement in support of Strategic Objective EM.3: Improve accountability, service delivery and customer service of HUD and its partners | 0% | 25% | |
| 2008 | Goal A: Increase Homeownership Opportunities | Customer Results | Service Accessibility | Automation | Increase the percentage of Business Partner submissions that can be received | 20% | 10% | |

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Planned Improvement to the Baseline | Actual Results |
|---|---|---|---|---|---|---|---|---|
| | | | | | electronically in support of increased electronic capability for Lerders, Brokers and Non-profit participants to submit applications | | | |
| 2008 | Goal A: Increase Homeownership Opportunities | Customer Results | Service Accessibility | Automation | Increase the percentage of annual mortgage case binders submitted electronically in support of increased electronic capability for Lenders, Brokers and Non-profit participants to submit data | 0% | 10% | |
| 2008 | Goal A: Increase Homeownership Opportunities | Mission and Business Results | Community and Social Services | Homeownership Promotion | H.1.11. Maintain the share of insurable REO properties sold to owner/occupants at no less than 66% in support of PMA Objective: Real Property Asset Management | 54% | 12% | |
| 2008 | Goal A: Increase Homeownership Opportunities | Mission and Business Results | Community and Social Services | Homeownership Promotion | H.6.1. Ensure that at least 45% of total claims on FHA-insured Single Family mortgages are loss-mitigation claims in support of PMA Objective: Housing and Urban Development Management and Performance | 35% | 10% | |
| 2008 | Goal A: Increase Homeownership Opportunities | Mission and Business Results | Community and Social Services | Homeownership Promotion | H.6.2 Ensure that at least 62% of mortgagors receiving default counseling will successfully avoid foreclosure in | 45% | 17% | |

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Planned Improvement to the Baseline | Actual Results |
|---|---|---|---|---|---|---|---|---|
| | | | | | support of PMA Objective: Housing and Urban Development Management and Performance | | | |
| 2008 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Mission and Business Results | Controls and Oversight | Program Monitoring | Reduce the percentage of mortgage insurance claims in support of PMA Objective: Housing and Urban Development Management and Performance | 42% | 5% | |
| 2008 | Goal A: Increase Homeownership Opportunities | Mission and Business Results | Internal Risk Management and Mitigation | Continuity Of Operations | Reduce the percentage of loss mitigation claim cases that re-default in support of PMA Objective: Financial Performance | 15.57 | 2% | |
| 2008 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Processes and Activities | Management and Innovation | Innovation and Improvement | Increase the share of audited financial statements submitted electronically by FHA-approved lenders in support of Strategic Objective EM.3: Improve accountability, service delivery, and customer service of HUD and its partners | 0% | 20% | |
| 2008 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Processes and Activities | Productivity and Efficiency | Efficiency | Increase the average quarterly performance score for all M&M contracts by 3% over the score for the initial period in support of Strat Obj EM.3 Improve accountability, service delivery, and customer service of HUD and its business | 82.8 | 3% | |

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Planned Improvement to the Baseline | Actual Results |
|---|---|---|---|---|---|---|---|---|
| | | | | | partners | | | |
| 2008 | Goal A: Increase Homeownership Opportunities | Processes and Activities | Quality | Errors | Reduce the share of mortgage insurance applications rejected during e-verification of SSN to .5% of all applications submitted to FHA in support of Strat Obj EM.3 Improve accountability, service delivery, and customer service of HUD and its partners | .7% | .2% | |
| 2008 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Technology | Effectiveness | IT Contribution to Process, Customer, or Mission | Reduce the number of different platforms required to perform Single Family business, thereby reducing maintenance costs and employing current technology in support of PMA Objective: Housing and Urban Development Management and Performance | 5 | 1 | |
| 2008 | Goal E: Embrace High Standards of Ethics, Management and Accountability | Technology | Financial (Technology) | Overall Costs | Reduce the # of legacy mainframe systems for SF business processes, reducing maintenance costs and improving data quality in support of Strategic Objective EM.3: Improve accountability, service delivery and customer service of HUD and its partners | 32 | 6 | |
| 2008 | Goal A: | Technology | Information | Data Reliability | Increase the | 83% | 5% | |

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Planned Improvement to the Baseline | Actual Results |
|---|---|---|---|---|---|---|---|---|
| | Increase Homeownership Opportunities | | and Data | and Quality | percentage of mortgage insurance applications that pass all automated edits for electronically submitted data in support of Strategic Objective EM.3: Improve accountability, service delivery and customer service of HUD and its partners | | | |

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.

### I.E: SECURITY AND PRIVACY BY08

#### Costs & Risks BY08

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:

| | |
|---|---|
| Have the IT security costs for the system(s) been identified and integrated into the overall costs of the investment? | Yes |
| Provide the Percentage IT Security for the budget year | 8.313000 |
| 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 |

#### Security: Planning Systems BY08

Systems in Planning - Security

| Name of System | Agency/ or Contractor Operated System? | Planned Operational Date | Planned or Actual C&A Completion Date |
|---|---|---|---|
| SFIntegration (P233) | Contractor and Government | 1/25/2007 | 2/28/2007 |

#### Security: Operational Systems BY08

Operational Systems - Security

| 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 |
|---|---|---|---|---|---|---|---|
| Approval and Recertification Tracking System (F51A) | Contractor and Government | High | Yes | 6/23/2005 | FIPS 200 / NIST 800-53 | 9/15/2006 | 3/17/2006 |
| Computerized Home Underwriting Management System (F17) | Contractor and Government | High | Yes | 6/17/2005 | FIPS 200 / NIST 800-53 | 9/15/2006 | 9/9/2006 |
| Consolidated Single Family Statistical System (F42) | Contractor and Government | Moderate | Yes | 6/24/2005 | FIPS 200 / NIST 800-53 | 9/5/2006 | 3/17/2006 |
| Credit Alert Voice Response (F57) | Contractor and Government | High | Yes | 6/16/2005 | FIPS 200 / NIST 800-53 | 9/6/2006 | 3/26/2006 |
| Disposition Program Compliance System (P177) | Contractor and Government | Moderate | Yes | 6/29/2005 | FIPS 200 / NIST 800-53 | 9/6/2006 | 4/27/2006 |
| FHA Connection (F17C) | Contractor and Government | High | Yes | 6/17/2005 | FIPS 200 / NIST 800-53 | 9/7/2006 | 9/9/2006 |
| Home Equity Conversion Mortgage (F12) | Contractor Only | Moderate | Yes | 6/20/2005 | FIPS 200 / NIST 800-53 | 9/15/2006 | 3/20/2006 |
| Housing Counselling System (F11) | Contractor and Government | Moderate | Yes | 6/23/2005 | FIPS 200 / NIST 800-53 | 9/19/2006 | 2/22/2006 |
| Institutional Master File (F51) | Contractor and Government | Moderate | Yes | 6/23/2005 | FIPS 200 / NIST 800-53 | 9/19/2006 | 5/19/2006 |
| Lender Assessment Subsystem (P096) | Contractor and Government | Low | Yes | 7/1/2005 | FIPS 200 / NIST 800-53 | 9/15/2006 | 3/1/2006 |
| Single Family Acquired Asset Management System (SAMS) | Contractor and Government | High | Yes | 6/17/2005 | FIPS 200 / NIST 800-53 | 9/15/2006 | 3/20/2006 |
| Single Family Default Monitoring Subsystem (F42D) | Contractor and Government | High | Yes | 6/17/2005 | FIPS 200 / NIST 800-53 | 9/5/2006 | 3/17/2006 |
| Single Family Housing Enterprise Data Warehouse (D64A) | Contractor and Government | High | Yes | 6/17/2005 | FIPS 200 / NIST 800-53 | 9/12/2006 | 9/9/2006 |
| Single Family Neighborhood Watch (A80W) | Contractor and Government | High | Yes | 6/17/2005 | FIPS 200 / NIST 800-53 | 9/8/2006 | 2/9/2006 |

*Security: Weaknesses & Contractor Procedures BY08*

| | |
|---|---|
| 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 |
| If "yes," have those weaknesses been incorporated into the agency's plan of action and milestone process? | Yes |
| Indicate whether an increase in IT security funding is requested to remediate IT security weaknesses? | Yes |

If "yes," specify the amount, provide a general description of the weakness, and explain how the funding request will remediate the weakness.

For the SFIntegration System Project, the project has allocated $700,000 toward the development and maintenance of the System Security Plan, Contingency Plan, System Security Plan, Technical Architecture Document, Minimum Security Baseline Assessment, Risk Assessment, and Contingency Plan. In addition, these funds will be used to support the Certification and Accreditation Statement process which includes the Security Test and Evaluation, Plan of Action and Milestones and address any deficiencies identified through the Security Test and Evaluation. The C&A process is estimated to take approximately 90 days and estimatd costs are $30,000-$50,000 depending on the complexity of the system. The C&A process is executed each time major functionality (e.g., a legacy system is sunset) is added to the SFIntegration System.

For the Legacy Systems, the project has allocated $150,000 to address the deficiencies identified in the System Test and Evaluation which is tracked through the Plan of Action and Milestone document. These deficiencies range from updating the System Security Plan to addressing data integrity, validation and audit trail issues.

How are contractor security procedures monitored, verified, and validated by the agency for the contractor systems above?

Contractors who require access to the system must complete an SF 85P background investigation form, must be fingerprinted and must undergo a background investigation. Only after this process has been completed may contractor personnel obtain access, and the access will be limited according to the role the contractor plays on the project. Different levels of contractors will have access to only the functions necessary to perform their job. Contractors that leave the project are immediately removed from the application, and from the HUD network. IT Data Centers are required to follow FISMA, A-130, A-11, and other major federal requirements. Contractor procedures are monitored during weekly status meetings where security incidents and events, results of automated scans, and audit trails may be reviewed. Periodic reporting and validation is also done to ensure that all user IDs that are active belong to staff that are still working on the project for both users and contractors, and to check that access levels are still appropriate. Management, operational, and technical security controls will be tested as part of NIST SP 800-37-compliant certification review activities as each module of the system is deployed. Weaknesses found will be documented and addressed in the plan of action and milestones for the system. Contracts for the SFI Project contain security clauses from HUD Acquisition Regulations (HUDAR 2452.239-70) that require contractors and subcontractors to: be U.S. citizens (or owe allegiance to the U.S.); notify HUD of any security breach or suspected breach or unauthorized disclosure of information contained in the specific investment; not release or divulge information developed or obtained during the contract; establish security procedures that meet the relevant requirements of HUD Handbooks 2400.24, "Information Security Program", and 732.2, "Personnel Security/ Suitability"; and comply with the contract security clause or face termination of the contract for default. This is in addition to the background investigation requirement, also required under the HUD Acquisition Regulations.

*Privacy: Planning & Operational Systems BY08*

Planning & Operational Systems - Privacy

| 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? |
|---|---|---|---|---|---|
| Approval and Recertification Tracking System (F51A) | No | Yes. | No, because the PIA has not been prepared. | Yes | No, because the system is operational, but the SORN has not yet been published. |
| Computerized Homes Underwriting Management | No | Yes. | Yes. | Yes | No, because the existing Privacy Act system of records was not substantially |

| 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? |
|---|---|---|---|---|---|
| System (F17) | | | | | revised in FY 06. |
| Consolidated Single Family Statistical System (F42) | No | No. | No, because a PIA is not yet required to be completed at this time. | No | No, because the system is not a Privacy Act system of records. |
| Credit Alert Interactive Voice Response System (F57) | No | Yes. | Yes. | Yes | No, because the system is operational, but the SORN has not yet been published. |
| Disposition Program Compliance System (P177) | No | Yes. | Yes. | Yes | No, because the system is operational, but the SORN has not yet been published. |
| FHA Connection (F17C) | No | Yes. | Yes. | No | No, because the system is not a Privacy Act system of records. |
| Home Equity Conversion Mortgage (F12) | No | Yes. | Yes. | Yes | No, because the existing Privacy Act system of records was not substantially revised in FY 06. |
| Housing Counseling System (F11) | No | No. | No, because the PIA has not been prepared. | Yes | Yes, because this is a newly established Privacy Act system of records. |
| Institution Master File (F51) | No | Yes. | No, because the PIA has not been prepared. | Yes | No, because the system is operational, but the SORN has not yet been published. |
| Lender Assessment Subsystem (P096) | No | No. | No, because a PIA is not yet required to be completed at this time. | No | No, because the system is not a Privacy Act system of records. |
| Single Family Acquired Asset Management System (A80S) | No | Yes. | Yes. | Yes | Yes, because the existing Privacy Act system of records was substantially revised in FY 06. |
| Single Family Default Montoring Subsystem (F42D) | No | Yes. | Yes. | No | No, because the system is not a Privacy Act system of records. |
| Single Family Housing Enterprise Data Warehouse (D64A) | No | Yes. | Yes. | Yes | No, because the existing Privacy Act system of records was not substantially revised in FY 06. |
| Single Family Integration (P233) | Yes | No. | No, because a PIA is not yet required to be completed at this time. | Yes | No, because the system is operational, but the SORN has not yet been published. |
| Single Family Neighborhood | No | Yes. | Yes. | Yes | No, because the existing Privacy Act |

| 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? |
|---|---|---|---|---|---|
| Watch (A80W) | | | | | system of records was not substantially revised in FY 06. |

## I.F: ENTERPRISE ARCHITECTURE (EA) BY08

### General EA Questions BY08

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.

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

If "no," please explain why this investment is not included in your agency's target enterprise architecture?

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

If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment.    Single Family Integration

If "no," please explain why this investment is not included in the agency's EA Transition Strategy?

### FEA SRM BY08

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/.

Service Component Reference Model (SRM) Table

| 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 |
|---|---|---|---|---|---|---|---|---|
| Assets/Materials Management - Asset Transfer, Allocation, and Maintenance | Assets / Materials Management defines the set of capabilities that support the acquisition, oversight and tracking of an organization's assets. Asset Transfer, Allocation, and Maintenance defines the set of capabilities that support the movement, assignment, and replacement of assets. | Back Office Services | Asset / Materials Management | Asset Transfer, Allocation, and Maintenance | Asset Transfer, Allocation, and Maintenance | 025-00-01-02-01-1010-00-101-002 | Internal | 2 |
| Assets/Materials Management - Property/Asset Management | Assets / Materials Management defines the set of capabilities that support the acquisition, oversight and tracking of an organization's assets. Property / Asset Management defines the set of capabilities that support the identification, planning and allocation of an organization's physical capital and resources. | Back Office Services | Asset / Materials Management | Property / Asset Management | Property / Asset Management | 025-00-01-02-01-1010-00-101-002 | Internal | 2 |
| Data Management - Data Classification | Data Management defines the set of capabilities that support the usage, processing and general administration of unstructured information. Data Classification defines the set of capabilities that allow the classification of data. | Back Office Services | Data Management | Data Classification | Data Classification | | No Reuse | 2 |

| 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 |
|---|---|---|---|---|---|---|---|---|
| Data Management - Data Cleansing | Data Management defines the set of capabilities that support the usage, processing and general administration of unstructured information. Data Cleansing defines the set of capabilities that support the removal of incorrect or unnecessary characters and data from a data source. | Back Office Services | Data Management | Data Cleansing | Data Cleansing | | No Reuse | 2 |
| Data Management - Data Exchange | Data Management defines the set of capabilities that support the usage, processing and general administration of unstructured information. Data Exchange defines the set of capabilities that support the interchange of information between multiple systems or applications. | Back Office Services | Data Management | Data Exchange | Data Exchange | | No Reuse | 2 |
| Data Management - Data Mart | Data Exchange defines the set of capabilities that support the interchange of information between multiple systems or applications. Data Mart defines the set of capabilities that support a subset of a data warehouse for a single department or function within an organization. | Back Office Services | Data Management | Data Mart | Data Mart | 025-00-01-02-03-0000-00-404-142 | Internal | 2 |
| Data Management - Data Warehouse | Data Management defines the set of capabilities that support the usage, processing and general administration of unstructured information. Data Warehouse defines the set of capabilities that support the archiving and storage of large volumes of data. | Back Office Services | Data Management | Data Warehouse | Data Warehouse | 025-00-01-02-03-0000-00-404-142 | Internal | 2 |
| Data Management - Extraction and Transformation | Data Management defines the set of capabilities that support the usage, processing and general administration of unstructured information. Extraction and Transformation defines the set of capabilities that support the manipulation and change of data. | Back Office Services | Data Management | Extraction and Transformation | Extraction and Transformation | | No Reuse | 2 |
| Data Management - Loading and Archiving | Data Management defines the set of capabilities that support the usage, processing and general administration of unstructured information. Loading and Archiving defines the set of capabilities that support the population of a data source with external data. | Back Office Services | Data Management | Loading and Archiving | Loading and Archiving | | No Reuse | 2 |
| Data Management - Meta Data Management | Data Management defines the set of capabilities that support the usage, processing and general administration of unstructured information. Meta Data Management defines the set of capabilities that support the maintenance and administration of data that describes data. | Back Office Services | Data Management | Meta Data Management | Meta Data Management | | No Reuse | 2 |
| Development and Integration - Data Integration | Development and Integration defines the set of capabilities that support the communication between hardware/software applications and the activities associated with deployment of software applications. Data Integration defines the set of capabilities that support the organization of data from separate data sources into a single source using middleware or application integration as well as the modification of system data models to capture new information within a single | Back Office Services | Development and Integration | Data Integration | Data Integration | | No Reuse | 2 |

| 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 |
|---|---|---|---|---|---|---|---|---|
| | system. | | | | | | | |
| Development and Integration - Enterprise Application Integration | Development and Integration defines the set of capabilities that support the communication between hardware/software applications and the activities associated with deployment of software applications. Enterprise Application Integration â€" defines the set of capabilities that support the redesigning of disparate information systems into one system that uses a common set of data structures and rules. | Back Office Services | Development and Integration | Enterprise Application Integration | Enterprise Application Integration | | No Reuse | 2 |
| Development and Integration - Instrmentation and Testing | Development and Integration defines the set of capabilities that support the communication between hardware/software applications and the activities associated with deployment of software applications. Instrumentation and Testing defines the set of capabilities that support the validation of application or system capabilities and requirements. | Back Office Services | Development and Integration | Instrumentation and Testing | Instrumentation and Testing | | No Reuse | 2 |
| Development and Integration - Software Development | Development and Integration defines the set of capabilities that support the communication between hardware/software applications and the activities associated with deployment of software applications. Software Development defines the set of capabilities that support the creation of both graphical and process application and system software. | Back Office Services | Development and Integration | Software Development | Software Development | | No Reuse | 2 |
| Financial Management - Billing and Accounting | Financial Management defines the set of capabilities that support the accounting practices and procedures that allow for the handling of revenues, funding and expenditures. Billing and Accounting defines the set of capabilities that support the charging, collection and reporting of an organization's accounts. | Back Office Services | Financial Management | Billing and Accounting | Billing and Accounting | 025-00-01-01-01-1020-00-402-124 | Internal | 2 |
| Financial Management - Debt Collection | Financial Management defines the set of capabilities that support the accounting practices and procedures that allow for the handling of revenues, funding and expenditures. Debt Collection defines the set of capabilities that support the process of accounts receivable. | Back Office Services | Financial Management | Debt Collection | Debt Collection | 025-00-01-01-01-1020-00-402-124 | Internal | 2 |
| Financial Management - Expense Management | Financial Management defines the set of capabilities that support the accounting practices and procedures that allow for the handling of revenues, funding and expenditures. Expense Management defines the set of capabilities that support the management and reimbursement of costs paid by employees or an organization. | Back Office Services | Financial Management | Expense Management | Expense Management | 025-00-01-01-01-1020-00-402-124 | Internal | 2 |
| Financial Management - Internal Controls | Financial Management defines the set of capabilities that support the accounting practices and procedures that allow for the handling of revenues, funding and expenditures. Internal Controls defines the set of capabilities that support the methods and procedures used by the | Back Office Services | Financial Management | Internal Controls | Internal Controls | | No Reuse | 2 |

| 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 |
|---|---|---|---|---|---|---|---|---|
| | organization to safeguard its assets, produce accurate accounting data and reports, contribute to efficient operations, and encourage staff to adhere to management policies. | | | | | | | |
| Financial Management - Payment/Settlement | Financial Management defines the set of capabilities that support the accounting practices and procedures that allow for the handling of revenues, funding and expenditures. Payment / Settlement defines the set of capabilities that support the process of accounts payable. | Back Office Services | Financial Management | Payment / Settlement | Payment / Settlement | 025-00-01-01-01-1020-00-402-124 | Internal | 2 |
| Human Capital/Workforce Management - Resource Planning and Allocation | Human Capital / Workforce Management defines the set of capabilities that support the planning and supervision of an organization's personnel. Resource Planning and Allocation defines the set or capabilities that support the means for assignment of employees and assets to sustain or increase an organization's business. | Back Office Services | Human Capital / Workforce Management | Resource Planning and Allocation | Resource Planning and Allocation | 025-00-01-02-01-1010-00-101-002 | Internal | 2 |
| Human Capital / Workforce Management - Skills Management | Human Capital / Workforce Management defines the set of capabilities that support the planning and supervision of an organization's personnel.Skills Management defines the set of capabilities that support the proficiency of employees in the delivery of an organization's products or services. | Back Office Services | Human Capital / Workforce Management | Skills Management | Skills Management | 025-00-01-02-01-1010-00-101-002 | Internal | 2 |
| Analysis and Statistics - Predictive | Analysis and Statistics defines the set of capabilities that support the examination of business issues, problems and their solutions. Predictive defines the set of capabilities that support the foretelling of something in advance by the use of data. | Business Analytical Services | Analysis and Statistics | Forensics | Forensics | | No Reuse | 1 |
| Assets/Materials Management - Asset Cataloging/Identification | Assets / Materials Management defines the set of capabilities that support the acquisition, oversight and tracking of an organization's assets. Asset Cataloging / Identification defines the set of capabilities that support the listing and specification of available assets. | Business Analytical Services | Analysis and Statistics | Forensics | Asset Cataloging / Identification | 025-00-01-02-01-1010-00-101-002 | Internal | 1 |
| Analysis and Statistics - Mathematical | Analysis and Statistics defines the set of capabilities that support the examination of business issues, problems and their solutions. Mathematical defines the set of capabilities that support the use of mathematical functions and algorithms for the analysis of data. | Business Analytical Services | Analysis and Statistics | Mathematical | Mathematical | | No Reuse | 1 |
| Business Intelligence - Balanced Scorecard | Business Intelligence defines the set of capabilities that support information that pertains to the history, current status or future projections of an organization. Balanced Scorecard defines the set of capabilities that support the listing and analyzing of both positive and negative impacts associated with a decision. | Business Analytical Services | Business Intelligence | Balanced Scorecard | Balanced Scorecard | 025-00-01-02-01-1010-00-101-002 | Internal | 1 |
| Business Intelligence - Decision Support and Planning | Business Intelligence defines the set of capabilities that support information that pertains to the history, current status or future | Business Analytical Services | Business Intelligence | Decision Support and Planning | Decision Support and Planning | 025-00-01-02-03-0000-00-404- | Internal | 1 |

| 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 |
|---|---|---|---|---|---|---|---|---|
| | projections of an organization. Decision Support and Planning defines the set of capabilities that support the analysis of information and predict the impact of decisions before they are made. | | | | | 142 | | |
| Knowledge Discovery - Data Mining | Knowledge Discovery defines the set of capabilities that facilitate the identification of useful information from data. Data Mining defines the set of capabilities that provide for the efficient discovery of non-obvious, valuable patterns and relationships within a large collection of data. | Business Analytical Services | Knowledge Discovery | Data Mining | Data Mining | 025-00-01-02-03-0000-00-404-142 | Internal | 1 |
| Knowledge Discovery - Modeling | Knowledge Discovery defines the set of capabilities that facilitate the identification of useful information from data. Modeling defines the set of capabilities that Develop descriptions to adequately explain relevant data for the purpose of prediction, pattern detection, exploration or general organization of data. | Business Analytical Services | Knowledge Discovery | Modeling | Modeling | | No Reuse | 1 |
| Reporting - Ad Hoc | Reporting defines the set of capabilities that support the organization of data into useful information. Ad Hoc defines the set of capabilities that support the use of dynamic reports on an as needed basis. | Business Analytical Services | Reporting | Ad Hoc | Ad Hoc | 025-00-01-02-03-0000-00-404-142 | Internal | 1 |
| Reporting - OLAP | Reporting defines the set of capabilities that support the organization of data into useful information. OLAP defines the set of capabilities that support the analysis of information that has been summarized into multidimensional views and hierarchies. | Business Analytical Services | Reporting | OLAP | OLAP | 025-00-01-02-03-0000-00-404-142 | Internal | 1 |
| Reporting - Standardized/Canned | Reporting defines the set of capabilities that support the organization of data into useful information. Standardized / Canned defines the set of capabilities that support the use of pre-conceived or pre-written reports. | Business Analytical Services | Reporting | Standardized / Canned | Standardized / Canned | | No Reuse | 1 |
| Vizualization - Graphing/Charting | Visualization defines the set of capabilities that support the conversion of data into graphical or picture form. Graphing / Charting defines the set of capabilities that support the presentation of information in the form of diagrams or tables. | Business Analytical Services | Visualization | Graphing / Charting | Graphing / Charting | | No Reuse | 1 |
| Vizualization - Mapping/Geospatial/Elevation/GPS | Visualization defines the set of capabilities that support the conversion of data into graphical or picture form. Mapping / Geospatial / Elevation / GPS provides for the representation of position information through the use of attributes such as elevation, latitude, and longitude coordinates. | Business Analytical Services | Visualization | Mapping / Geospatial / Elevation / GPS | Mapping / Geospatial / Elevation / GPS | | Internal | 1 |
| Vizualization - Multimedia | Visualization defines the set of capabilities that support the conversion of data into graphical or picture form. Multimedia defines the set of capabilities that support the representation of information in more than one form to include text, audio, graphics, | Business Analytical Services | Visualization | Multimedia | Multimedia | | No Reuse | 1 |

| 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 |
|---|---|---|---|---|---|---|---|---|
| | animated graphics and full motion video. | | | | | | | |
| Management of Process - Change Management | Management of process defines the set of capabilities that regulate the activities surrounding the business cycle of an organization. Change Management defines the set of capabilities that control the process for updates or modifications to the existing documents, software or business processes of an organization. | Business Management Services | Management of Processes | Change Management | Change Management | | No Reuse | 1 |
| Management of Process - Configuration Management | Management of process defines the set of capabilities that regulate the activities surrounding the business cycle of an organization. Configuration Management defines the set of capabilities that control the hardware and software environments, as well as documents of an organization. | Business Management Services | Management of Processes | Configuration Management | Configuration Management | | No Reuse | 1 |
| Management of Process - Governance/Policy Management | Management of Process defines the set of capabilities that regulate the activities surrounding the business cycle of an organization. Governance / Policy Management defines the set of capabilities intended to influence and determine decisions, actions, business rules and other matters within an organization. | Business Management Services | Management of Processes | Governance / Policy Management | Governance / Policy Management | | No Reuse | 1 |
| Management of Process - Program/Project Management | Management of Process defines the set of capabilities that regulate the activities surrounding the business cycle of an organization. Program / Project Management defines the set of capabilities for the management and control of a particular effort of an organization. | Business Management Services | Management of Processes | Program / Project Management | Program / Project Management | | No Reuse | 1 |
| Management of Process - Quality Management | Management of Process defines the set of capabilities that regulate the activities surrounding the business cycle of an organization. Quality Management defines the set of capabilities intended to help determine the level of assurance that a product or service will satisfy certain requirements. | Business Management Services | Management of Processes | Quality Management | Quality Management | | No Reuse | 1 |
| Management of Process - Risk Management | Management of Process defines the set of capabilities that regulate the activities surrounding the business cycle of an organization. Risk Management defines the set of capabilities that support the identification and probabilities or chances of hazards as they relate to a task, decision or long-term goal. | Business Management Services | Management of Processes | Risk Management | Risk Management | | No Reuse | 1 |
| Customer Initiated Assistance - Onlinehelp | Customer Initiated Assistance defines the set of capabilities that allow customers to proactively seek assistance and service from an organization. Online Help â€" defines the set of capabilities that provide an electronic interface to customer assistance. | Customer Services | Customer Initiated Assistance | Online Help | Online Help | | No Reuse | 1 |
| Customer Relationship Management - Contact and Profile Management | Customer Relationship Management defines the set of capabilities that are used to plan, schedule and control the activities between the customer and the enterprise both before and after a product or service is offered. Contact and profile Management defines the set of capabilities that | Customer Services | Customer Relationship Management | Contact and Profile Management | Contact and Profile Management | 025-00-01-02-01-1010-00-101-002 | Internal | 1 |

| 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 |
|---|---|---|---|---|---|---|---|---|
| | provide a comprehensive view of all customer interactions, including calls, email, correspondence and meetings; also provide for the maintenance of a customer's account, business and personal information. | | | | | | | |
| Customer Initiated Assistance - Customer/Account Management | Customer Initiated Assistance defines the set of capabilities that allow customers to proactively seek assistance and service from an organization. Customer / Account Management defines the set of capabilities that support the retention and delivery of a service or product to an organization's clients. | Customer Services | Customer Relationship Management | Customer / Account Management | Customer / Account Management | 025-00-01-02-01-1010-00-101-002 | Internal | 1 |
| Customer Relationship Management - Customer Analytics | Customer Relationship Management defines the set of capabilities that are used to plan, schedule and control the activities between the customer and the enterprise both before and after a product or service is offered. Customer Analytics defines the set of capabilities that allow for the analysis of an organization's customers as well as the scoring of third party information as it relates to an organization's customers. | Customer Services | Customer Relationship Management | Customer Analytics | Customer Analytics | 025-00-01-02-01-1010-00-101-002 | Internal | 1 |
| Customer Relationship Management - Partner Relationship Mangement | Customer Relationship Management defines the set of capabilities that are used to plan, schedule and control the activities between the customer and the enterprise both before and after a product or service is offered. Partner Relationship Management defines the set of capabilities that provide a framework to promote the effective collaboration between an organization and its business partners, particularly distribution chain and other third parties that support business operations and service de | Customer Services | Customer Relationship Management | Partner Relationship Management | Partner Relationship Management | 025-00-01-02-01-1010-00-101-002 | Internal | 1 |
| Document Management - Document Imaging and OCR | Document Management defines the set of capabilities that control the capture and maintenance of an organization's documents and files. Document Imaging and OCR defines the set of capabilities that support the scanning of physical documents for use electronically. | Digital Asset Services | Document Management | Document Imaging and OCR | Document Imaging and OCR | | No Reuse | 1 |
| Document Management - Library and Storage | Document Management defines the set of capabilities that control the capture and maintenance of an organization's documents and files. Library and Storage defines the set of capabilities that support document and data warehousing and archiving. | Digital Asset Services | Document Management | Library / Storage | Library / Storage | | No Reuse | 1 |
| Knowledge Management - Information Mapping/Taxonomy | Knowledge Management defines the set of capabilities that support the identification, gathering and transformation of documents, reports and other sources into meaningful information. Information Mapping / Taxonomy defines the set of capabilities that support the creation and maintenance of relationships between data entities, naming standards and categorization. | Digital Asset Services | Knowledge Management | Information Mapping / Taxonomy | Information Mapping / Taxonomy | | No Reuse | 1 |
| Knowledge Management - Information Retrieval | Knowledge Management defines the set of capabilities that support | Digital Asset Services | Knowledge Management | Information Retrieval | Information Retrieval | | No Reuse | 1 |

| 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 |
|---|---|---|---|---|---|---|---|---|
| | the identification, gathering and transformation of documents, reports and other sources into meaningful information. Information Retrieval defines the set of capabilities that allow access to data and information for use by an organization and its stakeholders. | | | | | | | |
| Knowledge Management - Information Sharing | Knowledge Management defines the set of capabilities that support the identification, gathering and transformation of documents, reports and other sources into meaningful information. Information Sharing defines the set of capabilities that support the use of documents and data in a multi-user environment for use by an organization and its stakeholders. | Digital Asset Services | Knowledge Management | Information Sharing | Information Sharing | | No Reuse | 2 |
| Knowledge Management - Knowledge Capture | Knowledge Management defines the set of capabilities that support the identification, gathering and transformation of documents, reports and other sources into meaningful information. Knowledge Capture defines the set of capabilities that facilitate collection of data and information. | Digital Asset Services | Knowledge Management | Knowledge Capture | Knowledge Capture | | No Reuse | 2 |
| Knowledge Management - Knowledge Distribution and Delivery | Knowledge Management defines the set of capabilities that support the identification, gathering and transformation of documents, reports and other sources into meaningful information. Knowledge Distribution and Delivery defines the set of capabilities that support the transfer of knowledge to the end customer. | Digital Asset Services | Knowledge Management | Knowledge Distribution and Delivery | Knowledge Distribution and Delivery | | No Reuse | 1 |
| Records Management - Document Classification | Records Management defines the set of capabilities to support the storage, protection, archiving, classification and retirement of documents and information. Document Classification defines the set of capabilities that support the categorization of documents and artifacts, both electronic and physical. | Digital Asset Services | Records Management | Document Classification | Document Classification | | No Reuse | 1 |
| Routing and Scheduling - Inbound Correspondence Management | Routing and Schedling defines the set of capabilities for the automatic directing, assignment, or allocation of time for a particular action or event. Inbound Coorespondence Management defines the set of capabilities for the management of externally initiated communication between an organization and its stakeholders. | Process Automation Services | Routing and Scheduling | Inbound Correspondence Management | Inbound Correspondence Management | | No Reuse | 1 |
| Routing and Scheduling - Outbound Coorespondence Management | Routing and Scheduling defines the set of capabilities for the automatic directing, assignment, or allocation of time for a particular action or event. Outbound Correspondence Management defines the set of capabilities for the management of internally initiated communication between an organization and its stakeholders. | Process Automation Services | Routing and Scheduling | Outbound Correspondence Management | Outbound Correspondence Management | | No Reuse | 1 |
| Tracking and Workflow - Case Issue Management | Tracking and Workflow defines the set of capabilities for automatic monitoring and routing of documents to the users | Process Automation Services | Tracking and Workflow | Case Management | Case Management | 025-00-01-02-01-1010-00-101- | Internal | 1 |

| 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 |
|---|---|---|---|---|---|---|---|---|
| | responsible for working on them to support each step of the business cycle. Case Issue Management defines the set of capabilities for managing the life cycle of a particular claim or investigation within an organization to include creating, routing, tracing, assignment and closing of a case as well as collaboration among case handlers. | | | | | 002 | | |
| Tracking and Workflow - Process Tracking | Tracking and Workflow defines the set of capabilities for automatic monitoring and routing of documents to the users responsible for working on them to support each step of the business cycle. Process Tracking defines the set of capabilities to allow the monitoring of activities within the business cycle. | Process Automation Services | Tracking and Workflow | Process Tracking | Process Tracking | | No Reuse | 1 |
| Forms Management - Forms Creation | Forms Management defines the set of capabilities that support the creation, modification and usage of physical or electronic documents used to capture information within the business cycle. Forms Creation defines the set of capabilities that support the design and generation of electronic or physical forms and templates for use within the business cycle by an organization and its stakeholders. | Support Services | Forms Management | Forms Creation | Forms Creation | | No Reuse | 2 |
| Forms Management - Forms Modification | Forms Management defines the set of capabilities that support the creation, modification and usage of physical or electronic documents used to capture information within the business cycle. Forms Modification defines the set of capabilities that support the maintenance of electronic or physical forms, templates and their respective elements and fields. | Support Services | Forms Management | Forms Modification | Forms Modification | | No Reuse | 1 |
| Search - Classification | Search defines the set of capabilities that support the probing and lookup of specific data from a data source. Classification defines the set of capabilities that support selection and retrieval of records organized by shared characteristics in content or context. | Support Services | Search | Classification | Classification | 025-00-01-02-03-0000-00-404-142 | Internal | 1 |
| Search - Precision / Recall Ranking | Search defines the set of capabilities that support the probing and lookup of specific data from a data source. Precision / Recall Ranking defines the set of capabilities that support selection and retrieval of records ranked to optimize precision against recall. | Support Services | Search | Precision / Recall Ranking | Precision / Recall Ranking | 025-00-01-02-03-0000-00-404-142 | Internal | 1 |
| Search - Query | Search defines the set of capabilities that support the probing and lookup of specific data from a data source. Query defines the set of capabilities that support retrieval of records that satisfy specific query selection criteria. | Support Services | Search | Query | Query | 025-00-01-02-03-0000-00-404-142 | Internal | 1 |
| Security Management - Access Control | Security Management defines the set of capabilities that support the protection of an organization's hardware/software and related assets. Access Control defines the | Support Services | Security Management | Access Control | Access Control | | No Reuse | 2 |

| 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 |
|---|---|---|---|---|---|---|---|---|
| | set of capabilities that support the management of permissions for logging onto a computer or network. | | | | | | | |
| Security Management - Role / Privilege Management | Security Management defines the set of capabilities that support the protection of an organization's hardware/software and related assets. Role / Privilege Management defines the set of capabilities that support the granting of abilities to users or groups of users of a computer, application or network. | Support Services | Security Management | Access Control | Access Control | | No Reuse | 1 |
| Security Management - User Management | Security Management defines the set of capabilities that support the protection of an organization's hardware/software and related assets. User Management defines the set of capabilities that support the administration of computer, application and network accounts within an organization. | Support Services | Security Management | Access Control | Access Control | | No Reuse | 1 |
| Security Management - Verification | Security Management defines the set of capabilities that support the protection of an organization's hardware/software and related assets. Verification defines the set of capabilities that support the confirmation of authority to enter a computer system, application or network. | Support Services | Security Management | Access Control | Identification and Authentication | | No Reuse | 1 |
| Security Management - Audit Trail Capture and Analysis | Security Management defines the set of capabilities that support the protection of an organization's hardware/software and related assets. Audit Trail Capture and Analysis defines the set of capabilities that support the identification and monitoring of activities within an application or system. | Support Services | Security Management | Audit Trail Capture and Analysis | Audit Trail Capture and Analysis | | No Reuse | 1 |
| Security Management - Encryption | Security Management defines the set of capabilities that support the protection of an organization's hardware/software and related assets. Encryption defines the set of capabilities that support the encoding of data for security purposes. | Support Services | Security Management | Cryptography | Cryptography | | No Reuse | 2 |
| Security Management - Digital Signature | Security Management defines the set of capabilities that support the protection of an organization's hardware/software and related assets. Digital Signature defines the set of capabilities that guarantee the unaltered state of a file. | Support Services | Security Management | Digital Signature Management | Digital Signature Management | | No Reuse | 2 |
| Security Management - Identification and Authentication | Security Management defines the set of capabilities that support the protection of an organization's hardware/software and related assets. Identification and Authentication defines the set of capabilities that support obtaining information about those parties attempting to log on to a system or application for security purposes and the validation of those users. | Support Services | Security Management | Identification and Authentication | Identification and Authentication | | No Reuse | 2 |
| Security Management - Intrusion Detection | Security Management defines the set of capabilities that support the protection of an organization's hardware/software and related assets. Intrusion Detection defines the set of capabilities that support | Support Services | Security Management | Intrusion Detection | Intrusion Detection | | No Reuse | 2 |

| 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 |
|---|---|---|---|---|---|---|---|---|
| | the detection of illegal entrance into a computer system. | | | | | | | |

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.

*FEA TRM BY08*

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.

Technical Reference Model (TRM) Table

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Billing and Accounting | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for System F17 |
| Mapping / Geospatial / Elevation / GPS | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for System F17 |
| Skills Management | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for System F17 |
| Expense Management | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for System F17 |
| Partner Relationship Management | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17 |
| Payment / Settlement | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17 |
| Customer Analytics | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D |
| Customer / Account Management | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D |
| Contact and Profile Management | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D |
| Software Development | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D, F57 |
| Internal Controls | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D, F57 |
| Information Sharing | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D, F57 |
| Data Cleansing | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D, F57 |
| Audit Trail | Component | Business Logic | Platform | ASCII COBOL (ACOB 7R3A) for Systems F17, |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Capture and Analysis | Framework | | Dependent | F42, F42D, F57 |
| Information Retrieval | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D, F57 |
| Knowledge Capture | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D, F57 |
| Loading and Archiving | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D, F57 |
| Precision / Recall Ranking | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D, F57 |
| Query | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D, F57 |
| Standardized / Canned | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D, F57 |
| Data Exchange | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D, F57 |
| Extraction and Transformation | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42, F42D, F57 |
| Case Management | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42D |
| Process Tracking | Component Framework | Business Logic | Platform Dependent | ASCII COBOL (ACOB 7R3A) for Systems F17, F42D |
| Expense Management | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for System A80S |
| Balanced Scorecard | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for System D64A |
| Data Classification | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for System D64A |
| Data Warehouse | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for System D64A |
| Data Mart | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for System D64A |
| Payment / Settlement | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for System F12, F51 |
| Process Tracking | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12 |
| Software Development | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Customer Analytics | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Customer / Account Management | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Contact and Profile Management | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Internal Controls | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Information Sharing | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Data Cleansing | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Information Retrieval | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Data Exchange | Component | Business Logic | Platform | COBOL for OS/390 2.01.0 for Systems A80S, |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| | Framework | | Dependent | D64A, F12, F51 |
| Audit Trail Capture and Analysis | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Knowledge Capture | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Loading and Archiving | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Precision / Recall Ranking | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Query | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Standardized / Canned | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Extraction and Transformation | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, D64A, F12, F51 |
| Billing and Accounting | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, F12 |
| Debt Collection | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, F12 |
| Case Management | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems A80S, F12 |
| Mapping / Geospatial / Elevation / GPS | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems D64A |
| OLAP | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems D64A |
| Mathematical | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems F12 |
| Partner Relationship Management | Component Framework | Business Logic | Platform Dependent | COBOL for OS/390 2.01.0 for Systems F51 |
| Data Classification | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for System D64A |
| Data Warehouse | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for System D64A |
| Skills Management | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for System F11 |
| Balanced Scorecard | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A |
| Contact and Profile Management | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F17C, F42D, P096, P177 |
| Internal Controls | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F17C, F42D, P096, P177 |
| Information Sharing | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F17C, F42D, P096, P177 |
| Data Cleansing | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F17C, F42D, P096, P177 |
| Information Retrieval | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F17C, F42D, P096, P177 |
| Knowledge Capture | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F17C, F42D, P096, P177 |
| Precision / Recall Ranking | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F17C, F42D, P096, P177 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Query | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F17C, F42D, P096, P177 |
| Standardized / Canned | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F17C, F42D, P096, P177 |
| Loading and Archiving | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F17C, F42D, P096, P177 |
| Audit Trail Capture and Analysis | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F17C, F42D, P096, P177 |
| Software Development | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F42D, F57, P096, P177 |
| Customer Analytics | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F42D, P096, P177 |
| Customer / Account Management | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F42D, P096, P177 |
| Data Mart | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems D64A |
| Process Tracking | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems D64A, F42D |
| Partner Relationship Management | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems F17C, P096, P177 |
| Case Management | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems F42D, P177 |
| Payment / Settlement | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Partner Relationship Management | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Contact and Profile Management | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Customer / Account Management | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Customer Analytics | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Software Development | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Internal Controls | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Information Sharing | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Audit Trail Capture and Analysis | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Data Cleansing | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Information Retrieval | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Knowledge Capture | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Loading and Archiving | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Precision / Recall Ranking | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Query | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Standardized / Canned | Component Framework | Business Logic | Platform Dependent | Cold Fusion Enterprise older than 5.0 for System F51 |
| Customer Analytics | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Customer / Account Management | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Contact and Profile Management | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Partner Relationship Management | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Payment / Settlement | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Internal Controls | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Information Sharing | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Audit Trail Capture and Analysis | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Data Cleansing | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Information Retrieval | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Knowledge Capture | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Loading and Archiving | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Precision / Recall Ranking | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Query | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Standardized / Canned | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Data Exchange | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Extraction and Transformation | Component Framework | Business Logic | Platform Dependent | COOL:Gen 6.5 for System F51 |
| Process Tracking | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D |
| Software Development | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, 51A, P096 |
| Customer Analytics | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |
| Customer / Account Management | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |
| Contact and Profile | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Management | | | | |
| Internal Controls | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |
| Information Sharing | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |
| Audit Trail Capture and Analysis | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |
| Data Cleansing | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |
| Data Cleansing | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |
| Information Retrieval | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |
| Knowledge Capture | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |
| Loading and Archiving | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |
| Precision / Recall Ranking | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |
| Query | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |
| Standardized / Canned | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System F42D, F51A, P096 |
| Partner Relationship Management | Component Framework | Business Logic | Platform Dependent | SQL 2000 for System P096 |
| Billing and Accounting | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for System A80S |
| Debt Collection | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for System A80S |
| Case Management | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for System A80S |
| Customer Analytics | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for System A80S |
| Contact and Profile Management | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for System A80S |
| Process Tracking | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for System A80S |
| Partner Relationship Management | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for System F17C |
| Customer / Account Management | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for Systems A80S, F17C |
| Internal Controls | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for Systems A80S, F17C |
| Information Sharing | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for Systems A80S, F17C |
| Audit Trail Capture and Analysis | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for Systems A80S, F17C |
| Data Cleansing | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for Systems A80S, F17C |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Information Retrieval | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for Systems A80S, F17C |
| Knowledge Capture | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for Systems A80S, F17C |
| Loading and Archiving | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for Systems A80S, F17C |
| Precision / Recall Ranking | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for Systems A80S, F17C |
| Query | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for Systems A80S, F17C |
| Standardized / Canned | Component Framework | Business Logic | Platform Dependent | SQL Older than 2000 for Systems A80S, F17C |
| Software Development | Component Framework | Business Logic | Platform Dependent | UNIX Scripts - D64A |
| Balanced Scorecard | Component Framework | Business Logic | Platform Dependent | UNIX Scripts for System D64A |
| Internal Controls | Component Framework | Business Logic | Platform Dependent | UNIX Scripts for System D64A |
| Audit Trail Capture and Analysis | Component Framework | Business Logic | Platform Dependent | UNIX Scripts for System D64A |
| Data Cleansing | Component Framework | Business Logic | Platform Dependent | UNIX Scripts for System D64A |
| Loading and Archiving | Component Framework | Business Logic | Platform Dependent | UNIX Scripts for System D64A |
| Data Classification | Component Framework | Business Logic | Platform Dependent | UNIX Scripts for System D64A |
| Data Mart | Component Framework | Business Logic | Platform Dependent | UNIX Scripts for System D64A |
| Data Warehouse | Component Framework | Business Logic | Platform Dependent | UNIX Scripts for System D64A |
| Billing and Accounting | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for System F17 |
| Partner Relationship Management | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for System F17 |
| Skills Management | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for System F17 |
| Expense Management | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for System F17 |
| Payment / Settlement | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems F17 |
| Internal Controls | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems F17, F42, F42D, F57 |
| Process Tracking | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems F17, F42D |
| Mapping / Geospatial / Elevation / GPS | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17 |
| Customer Analytics | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17, F42, F42D |
| Customer / Account Management | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17, F42, F42D |
| Contact and | Component | Business Logic | Platform | USC COBOL (UCOB 9R1) for Systems |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Profile Management | Framework | | Dependent | Systems F17, F42, F42D |
| Software Development | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17, F42, F42D, F57 |
| Audit Trail Capture and Analysis | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17, F42, F42D, F57 |
| Information Sharing | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17, F42, F42D, F57 |
| Data Cleansing | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17, F42, F42D, F57 |
| Information Retrieval | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17, F42, F42D, F57 |
| Knowledge Capture | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17, F42, F42D, F57 |
| Loading and Archiving | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17, F42, F42D, F57 |
| Precision / Recall Ranking | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17, F42, F42D, F57 |
| Query | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17, F42, F42D, F57 |
| Standardized / Canned | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17, F42, F42D, F57 |
| Case Management | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F17, F42D |
| Mathematical | Component Framework | Business Logic | Platform Dependent | USC COBOL (UCOB 9R1) for Systems Systems F42 |
| Contact and Profile Management | Component Framework | Business Logic | Platform Independent | C++ for System F17 |
| Partner Relationship Management | Component Framework | Business Logic | Platform Independent | C++ for System F17 |
| Internal Controls | Component Framework | Business Logic | Platform Independent | C++ for System F17 |
| Information Sharing | Component Framework | Business Logic | Platform Independent | C++ for System F17 |
| Data Cleansing | Component Framework | Business Logic | Platform Independent | C++ for System F17 |
| Information Retrieval | Component Framework | Business Logic | Platform Independent | C++ for System F17 |
| Knowledge Capture | Component Framework | Business Logic | Platform Independent | C++ for System F17 |
| Loading and Archiving | Component Framework | Business Logic | Platform Independent | C++ for System F17 |
| Precision / Recall Ranking | Component Framework | Business Logic | Platform Independent | C++ for System F17 |
| Query | Component Framework | Business Logic | Platform Independent | C++ for System F17 |
| Standardized / Canned | Component Framework | Business Logic | Platform Independent | C++ for System F17 |
| Audit Trail Capture and Analysis | Component Framework | Business Logic | Platform Independent | C++ for System F17 |
| Data Exchange | Component | Business Logic | Platform | C++ for System F17 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| | Framework | | Independent | |
| Extraction and Transformation | Component Framework | Business Logic | Platform Independent | C++ for System F17 |
| Enterprise Application Integration | Component Framework | Business Logic | Platform Independent | Enterprise Java Beans (EJB) |
| Payment / Settlement | Component Framework | Business Logic | Platform Independent | JAVA for System F51 |
| Asset Cataloging / Identification | Component Framework | Business Logic | Platform Independent | JAVA for System for P233 |
| Asset Transfer, Allocation, and Maintenance | Component Framework | Business Logic | Platform Independent | JAVA for System for P233 |
| Property / Asset Management | Component Framework | Business Logic | Platform Independent | JAVA for System for P233 |
| Skills Management | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11 |
| Contact and Profile Management | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11, F17C, F51, F51A, P096 |
| Internal Controls | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11, F17C, F51, F51A, P096 |
| Information Sharing | Component Framework | Business Logic | Platform Independent | Java for Systems F11, F17C, F51, F51A, P096 |
| Audit Trail Capture and Analysis | Component Framework | Business Logic | Platform Independent | Java for Systems F11, F17C, F51, F51A, P096 |
| Internal Controls | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11, F17C, F51, F51A, P096 |
| Information Sharing | Component Framework | Business Logic | Platform Independent | Java for Systems F11, F17C, F51, F51A, P096 |
| Audit Trail Capture and Analysis | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11, F17C, F51, F51A, P096 |
| Data Cleansing | Component Framework | Business Logic | Platform Independent | Java for Systems F11, F17C, F51, F51A, P096 |
| Information Retrieval | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11, F17C, F51, F51A, P096 |
| Knowledge Capture | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11, F17C, F51, F51A, P096 |
| Loading and Archiving | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11, F17C, F51, F51A, P096 |
| Precision / Recall Ranking | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11, F17C, F51, F51A, P096 |
| Query | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11, F17C, F51, F51A, P096 |
| Standardized / Canned | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11, F17C, F51, F51A, P096 |
| Extraction and Transformation | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11, F17C, F51, F51A, P096 |
| Data Exchange | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11, F17C, F51, F51A, P096 |
| Software | Component | Business Logic | Platform | JAVA for Systems F11, F17C, F51, F51A, |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Development | Framework | | Independent | P096, P233 |
| Customer Analytics | Component Framework | Business Logic | Platform Independent | JAVA for Systems F11, F51, F51A, P096 |
| Partner Relationship Management | Component Framework | Business Logic | Platform Independent | JAVA for Systems F17C, F51, P096 |
| Customer / Account Management | Component Framework | Business Logic | Platform Independent | JAVA for Systems F51, F51A, P096 |
| Software Development | Component Framework | Business Logic | Platform Independent | Java Portlet API - ? |
| Software Development | Component Framework | Business Logic | Platform Independent | Java Servlet - ? |
| Skills Management | Component Framework | Business Logic | Platform Independent | JAVAScript for System F11 |
| Customer / Account Management | Component Framework | Business Logic | Platform Independent | JAVAScript for System F42D |
| Case Management | Component Framework | Business Logic | Platform Independent | JAVAScript for System F42D |
| Software Development | Component Framework | Business Logic | Platform Independent | JAVAScript for Systems F11, F42D |
| Customer Analytics | Component Framework | Business Logic | Platform Independent | JAVAScript for Systems F11, F42D |
| Contact and Profile Management | Component Framework | Business Logic | Platform Independent | JAVAScript for Systems F11, F42D |
| Loading and Archiving | Component Framework | Business Logic | Platform Independent | JAVAScript for Systems F11, F42D |
| Internal Controls | Component Framework | Business Logic | Platform Independent | JAVAScript for Systems F11, F42D |
| Audit Trail Capture and Analysis | Component Framework | Business Logic | Platform Independent | JAVAScript for Systems F11, F42D |
| Data Cleansing | Component Framework | Business Logic | Platform Independent | JAVAScript for Systems F11, F42D |
| Loading and Archiving | Component Framework | Business Logic | Platform Independent | JAVAScript for Systems F11, F42D |
| Process Tracking | Component Framework | Business Logic | Platform Independent | JAVAScript for Systems F42D |
| Software Development | Component Framework | Data Interchange | Data Exchange | Electronic Business using XML - (?) |
| Enterprise Application Integration | Component Framework | Data Interchange | Data Exchange | Simple Object Access Protocol (SOAP) |
| Enterprise Application Integration | Component Framework | Data Management | Database Connectivity | DB2 Connector |
| Software Development | Component Framework | Data Management | Database Connectivity | DB2 Connector - P233 |
| Enterprise Application Integration | Component Framework | Data Management | Database Connectivity | JAVA Database Connectivity (JDBC) |
| Software Development | Component Framework | Data Management | Database Connectivity | JAVA Database Connectivity (JDBC) - P233 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Asset Cataloging / Identification | Component Framework | Data Management | Database Connectivity | JAVA Database Connectivity (JDBC) - P233 |
| Asset Transfer, Allocation, and Maintenance | Component Framework | Data Management | Database Connectivity | JAVA Database Connectivity (JDBC) - P233 |
| Property / Asset Management | Component Framework | Data Management | Database Connectivity | JAVA Database Connectivity (JDBC) - P233 |
| Balanced Scorecard | Component Framework | Data Management | Database Connectivity | ODBC for System D64A |
| Payment / Settlement | Component Framework | Data Management | Database Connectivity | ODBC for System F17 |
| Skills Management | Component Framework | Data Management | Database Connectivity | ODBC for System F17 |
| Enterprise Application Integration | Component Framework | Data Management | Database Connectivity | ODBC for System P233 |
| Asset Cataloging / Identification | Component Framework | Data Management | Database Connectivity | ODBC for System P233 |
| Asset Transfer, Allocation, and Maintenance | Component Framework | Data Management | Database Connectivity | ODBC for System P233 |
| Property / Asset Management | Component Framework | Data Management | Database Connectivity | ODBC for System P233 |
| OLAP | Component Framework | Data Management | Database Connectivity | ODBC for Systems D64A |
| Billing and Accounting | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17 |
| Mapping / Geospatial / Elevation / GPS | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, D64A |
| Customer Analytics | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, D64A, F42D |
| Customer / Account Management | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, D64A, F42D |
| Process Tracking | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, D64A, F42D |
| Partner Relationship Management | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, F17C |
| Contact and Profile Management | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, F17C, D64A, F42D |
| Software Development | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, F17C, F42D, D64A, P233 |
| Data Exchange | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, F17C, F42D, D64A, P233 |
| Internal Controls | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, F17C, F42D, D64A, P233 |
| Information Sharing | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, F17C, F42D, D64A, P233 |
| Audit Trail | Component | Data | Database | ODBC for Systems F17, F17C, F42D, D64A, |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Capture and Analysis | Framework | Management | Connectivity | P233 |
| Data Cleansing | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, F17C, F42D, D64A, P233 |
| Information Retrieval | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, F17C, F42D, D64A, P233 |
| Knowledge Capture | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, F17C, F42D, D64A, P233 |
| Precision / Recall Ranking | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, F17C, F42D, D64A, P233 |
| Query | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, F17C, F42D, D64A, P233 |
| Standardized / Canned | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, F17C, F42D, D64A, P233 |
| Loading and Archiving | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17, F17C, F42D, D64A, P233 |
| Case Management | Component Framework | Data Management | Database Connectivity | ODBC for Systems F17. F42D |
| Software Development | Component Framework | Data Management | Reporting and Analysis | Enterprise Output Manager (EOM) (Previously known as DEPCON) - F42, F42D |
| Ad Hoc | Component Framework | Data Management | Reporting and Analysis | Enterprise Output Manager (EOM) (Previously known as DEPCON) - F42, F42D |
| Mathematical | Component Framework | Data Management | Reporting and Analysis | Enterprise Output Manager (EOM) Previously known as DEPCON for System F42 |
| Process Tracking | Component Framework | Data Management | Reporting and Analysis | Enterprise Output Manager (EOM) Previously known as DEPCON for System F42 |
| Contact and Profile Management | Component Framework | Data Management | Reporting and Analysis | Enterprise Output Manager (EOM) Previously known as DEPCON for System F42, F42D |
| Case Management | Component Framework | Data Management | Reporting and Analysis | Enterprise Output Manager (EOM) Previously known as DEPCON for System F42D |
| Customer Analytics | Component Framework | Data Management | Reporting and Analysis | Enterprise Output Manager (EOM) Previously known as DEPCON for Systems F42, F42D |
| Software Development | Component Framework | Presentation / Interface | Content Rendering | Extensible HTML (XHTML) for System F11 |
| Customer Analytics | Component Framework | Presentation / Interface | Content Rendering | Extensible HTML (XHTML) for System F11 |
| Contact and Profile Management | Component Framework | Presentation / Interface | Content Rendering | Extensible HTML (XHTML) for System F11 |
| Skills Management | Component Framework | Presentation / Interface | Content Rendering | Extensible HTML (XHTML) for System F11 |
| Enterprise Application Integration | Component Framework | Presentation / Interface | Dynamic Server-Side Display | Java Server Pages (JSP) |
| OLAP | Component Framework | Presentation / Interface | Static Display | Hyper Text Markup Language (HTML) for System A80W |
| Mathematical | Component Framework | Presentation / Interface | Static Display | Hyper Text Markup Language (HTML) for System F42 |
| Case Management | Component Framework | Presentation / Interface | Static Display | Hyper Text Markup Language (HTML) for System F42D |
| Process Tracking | Component Framework | Presentation / Interface | Static Display | Hyper Text Markup Language (HTML) for System F42D |
| Payment / Settlement | Component Framework | Presentation / Interface | Static Display | Hyper Text Markup Language (HTML) for System F51 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Balanced Scorecard | Component Framework | Presentation / Interface | Static Display | Hyper Text Markup Language (HTML) for Systems A80W |
| Contact and Profile Management | Component Framework | Presentation / Interface | Static Display | Hyper Text Markup Language (HTML) for Systems A80W, F17C, F42, F42D, F51, F51A |
| Software Development | Component Framework | Presentation / Interface | Static Display | Hyper Text Markup Language (HTML) for Systems A80W, F17C, F42, F42D, F51. F51A |
| Customer / Account Management | Component Framework | Presentation / Interface | Static Display | Hyper Text Markup Language (HTML) for Systems A80W, F42, F42D, F51, F51A |
| Customer Analytics | Component Framework | Presentation / Interface | Static Display | Hyper Text Markup Language (HTML) for Systems A80W, F42, F42D, F51, F51A |
| Partner Relationship Management | Component Framework | Presentation / Interface | Static Display | Hyper Text Markup Language (HTML) for Systems F17C, F51, F51A |
| Data Exchange | Component Framework | Security | Certificates / Digital Signatures | Digital Certificate Authentication - P233 |
| Information Retrieval | Component Framework | Security | Certificates / Digital Signatures | Digital Certificate Authentication - P233 |
| Digital Signature Management | Component Framework | Security | Certificates / Digital Signatures | Digital Certificate Authentication - P233 |
| Digital Signature Management | Component Framework | Security | Certificates / Digital Signatures | Digital Certificate Authentication - Verisign |
| Data Exchange | Component Framework | Security | Certificates / Digital Signatures | Digital Certificate Authentication - Verisign |
| Enterprise Application Integration | Component Framework | Security | Certificates / Digital Signatures | Digital Certificate Authentication (Vendor - TBD) |
| Data Exchange | Component Framework | Security | Certificates / Digital Signatures | FIPS 186 |
| Digital Signature Management | Component Framework | Security | Certificates / Digital Signatures | FIPS 186 |
| Enterprise Application Integration | Component Framework | Security | Certificates / Digital Signatures | FIPS 186 |
| Balanced Scorecard | Component Framework | Security | Certificates / Digital Signatures | SSL for System D64A |
| Data Mart | Component Framework | Security | Certificates / Digital Signatures | SSL for System D64A |
| Data Exchange | Component Framework | Security | Certificates / Digital Signatures | SSL for Systems D64A, F17C, P177 |
| Identification and Authentication | Component Framework | Security | Certificates / Digital Signatures | SSL for Systems D64A, F17C, P177 |
| Partner Relationship Management | Component Framework | Security | Certificates / Digital Signatures | SSL for Systems F17C, P177 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Contact and Profile Management | Component Framework | Security | Certificates / Digital Signatures | SSL for Systems F17C, P177 |
| Identification and Authentication | Component Framework | Security | Supporting Security Services | SSH Secure Shell Client for Windows 3.2.2 for System F11 |
| Customer Analytics | Component Framework | Security | Supporting Security Services | SSH Secure Shell Client for Windows 3.2.2 for System F11 |
| Contact and Profile Management | Component Framework | Security | Supporting Security Services | SSH Secure Shell Client for Windows 3.2.2 for System F11 |
| Skills Management | Component Framework | Security | Supporting Security Services | SSH Secure Shell Client for Windows 3.2.2 for System F11 |
| Enterprise Application Integration | Component Framework | Security | Supporting Security Services | Web Services Security (WS Security) |
| Data Exchange | Component Framework | Security | Supporting Security Services | Web Services Security (WS Security) - P233 |
| Cryptography | Component Framework | Security | Supporting Security Services | Web Services Security (WS Security) - P233 |
| Information Sharing | Service Access and Delivery | Access Channels | Collaboration / Communications | Lotus Notes R6.5.X |
| Outbound Correspondence Management | Service Access and Delivery | Access Channels | Collaboration / Communications | Lotus Notes R6.5.X |
| Inbound Correspondence Management | Service Access and Delivery | Access Channels | Collaboration / Communications | Lotus Notes R6.5.X |
| Knowledge Distribution and Delivery | Service Access and Delivery | Access Channels | Collaboration / Communications | Lotus Notes R6.5.X |
| Enterprise Application Integration | Service Access and Delivery | Access Channels | Collaboration / Communications | Lotus Notes R6.5.X |
| Information Sharing | Service Access and Delivery | Access Channels | Collaboration / Communications | Lotus Notes R6.5.X |
| Partner Relationship Management | Service Access and Delivery | Access Channels | Collaboration / Communications | Lotus Notes R6.5.X for System P177 |
| Contact and Profile Management | Service Access and Delivery | Access Channels | Collaboration / Communications | Lotus Notes R6.5.X for System P177 |
| Customer / Account Management | Service Access and Delivery | Access Channels | Collaboration / Communications | Lotus Notes R6.5.X for System P177 |
| Case Management | Service Access and Delivery | Access Channels | Collaboration / Communications | Lotus Notes R6.5.X for System P177 |
| Customer Analytics | Service Access and Delivery | Access Channels | Collaboration / Communications | Lotus Notes R6.5.X for System P177 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Data Exchange | Service Access and Delivery | Access Channels | Other Electronic Channels | System to System |
| Software Development | Service Access and Delivery | Access Channels | Other Electronic Channels | Uniform Resource Locator (URL) - A80W, D64A, F17C, P096, P177 |
| Data Mart | Service Access and Delivery | Access Channels | Other Electronic Channels | Uniform Resource Locator (URL) - D64A |
| Balanced Scorecard | Service Access and Delivery | Access Channels | Other Electronic Channels | Uniform Resource Locator (URL) for Systems A80W |
| Enterprise Application Integration | Service Access and Delivery | Access Channels | Other Electronic Channels | webService |
| Asset Cataloging / Identification | Service Access and Delivery | Access Channels | Other Electronic Channels | webServices |
| Access Control | Service Access and Delivery | Access Channels | Other Electronic Channels | webServices - P233 |
| Asset Transfer, Allocation, and Maintenance | Service Access and Delivery | Access Channels | Other Electronic Channels | webServices - SFAM BSP |
| Software Development | Service Access and Delivery | Access Channels | Other Electronic Channels | webServices for SFAM BSP Integration |
| NEW | Service Access and Delivery | Access Channels | Web Browser | |
| Knowledge Distribution and Delivery | Service Access and Delivery | Access Channels | Web Browser | Internet Explorer - F11 |
| Online Help | Service Access and Delivery | Access Channels | Web Browser | Internet Explorer - F11 |
| Information Sharing | Service Access and Delivery | Access Channels | Web Browser | Internet Explorer - F11, Netscape Communicator 4.5 - D64A |
| Customer Analytics | Service Access and Delivery | Access Channels | Web Browser | Internet Explorer 6.0 for System F11 |
| Skills Management | Service Access and Delivery | Access Channels | Web Browser | Internet Explorer 6.0 for System F11 |
| Access Control | Service Access and Delivery | Access Channels | Web Browser | Internet Explorer 6.0 for Systems F11, F51A, P096 |
| Software Development | Service Access and Delivery | Access Channels | Web Browser | Internet Explorer 6.0 for Systems F11, F51A, P096 |
| Customer / Account Management | Service Access and Delivery | Access Channels | Web Browser | Internet Explorer 6.0 for Systems F11, F51A, P096 |
| Contact and Profile Management | Service Access and Delivery | Access Channels | Web Browser | Internet Explorer 6.0 for Systems F51A, P096 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Access Control | Service Access and Delivery | Access Channels | Web Browser | Netscape Communicator 4.5 - D64A |
| Knowledge Distribution and Delivery | Service Access and Delivery | Access Channels | Web Browser | Netscape Communicator 4.5 - D64A |
| Online Help | Service Access and Delivery | Access Channels | Web Browser | Netscape Communicator 4.5 - D64A |
| Software Development | Service Access and Delivery | Access Channels | Web Browser | Netscape Communicator 4.5 for System D64A |
| Balanced Scorecard | Service Access and Delivery | Access Channels | Web Browser | Netscape Communicator 4.5 for System D64A |
| Data Mart | Service Access and Delivery | Access Channels | Web Browser | Netscape Communicator 4.5 for System D64A |
| Data Mart | Service Access and Delivery | Delivery Channels | Internet | D64A |
| Knowledge Distribution and Delivery | Service Access and Delivery | Delivery Channels | Internet | D64A, A80W, F17, F17C, P096, P177 |
| Online Help | Service Access and Delivery | Delivery Channels | Internet | D64A, A80W, F17, F17C, P096, P177 |
| Data Exchange | Service Access and Delivery | Delivery Channels | Internet | D64A, A80W, F17, F17C, P096, P177 |
| Case Management | Service Access and Delivery | Delivery Channels | Internet | F17, P177 |
| Balanced Scorecard | Service Access and Delivery | Delivery Channels | Internet | For A80W |
| Contact and Profile Management | Service Access and Delivery | Delivery Channels | Internet | For System F17C |
| Balanced Scorecard | Service Access and Delivery | Delivery Channels | Internet | For Systems A80W, D64A |
| Information Sharing | Service Access and Delivery | Delivery Channels | Internet | Provided by HITS |
| Partner Relationship Management | Service Access and Delivery | Delivery Channels | Internet | System F17C |
| Knowledge Distribution and Delivery | Service Access and Delivery | Delivery Channels | Intranet | Provided by HITS |
| Online Help | Service Access and Delivery | Delivery Channels | Intranet | Provided by HITS |
| Online Help | Service Access and Delivery | Delivery Channels | Intranet | Provided by HITS |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Online Help | Service Access and Delivery | Delivery Channels | Intranet | Provided by HITS |
| Information Sharing | Service Access and Delivery | Delivery Channels | Intranet | Provided by HITS |
| Case Management | Service Access and Delivery | Delivery Channels | Intranet | System P177 |
| Customer Analytics | Service Access and Delivery | Delivery Channels | Intranet | System P177 |
| Customer / Account Management | Service Access and Delivery | Delivery Channels | Intranet | System P177 |
| Contact and Profile Management | Service Access and Delivery | Delivery Channels | Intranet | System P177 |
| Partner Relationship Management | Service Access and Delivery | Delivery Channels | Intranet | System P177 |
| Access Control | Service Access and Delivery | Delivery Channels | Virtual Private Network (VPN) | Provided by HUD HITS |
| Software Development | Service Access and Delivery | Service Requirements | Authentication / Single Sign-on | Systems P233, F17C, F17, F57 |
| Access Control | Service Access and Delivery | Service Requirements | Authentication / Single Sign-on | Systems P233, F17C, F17, F57 |
| Asset Cataloging / Identification | Service Access and Delivery | Service Requirements | Hosting | External (EDS, SFAM BSP) |
| Asset Transfer, Allocation, and Maintenance | Service Access and Delivery | Service Requirements | Hosting | External (EDS, SFAM BSP) |
| Property / Asset Management | Service Access and Delivery | Service Requirements | Hosting | External (EDS, SFAM BSP) |
| Software Development | Service Access and Delivery | Service Requirements | Hosting | External for SFAM BSP which replaces A80S |
| Software Development | Service Access and Delivery | Service Requirements | Hosting | Internal for Systems A80S, A80W, D64A, F11, F12, F17, F17C, F42, F42D, F51, F51A, F57, P096, P177 |
| Governance / Policy Management | Service Access and Delivery | Service Requirements | Legislative / Compliance | FTS2001 - F12 |
| Software Development | Service Access and Delivery | Service Requirements | Legislative / Compliance | MISMO Standards |
| Software Development | Service Access and Delivery | Service Requirements | Legislative / Compliance | NIST Security Standards |
| Software Development | Service Access and Delivery | Service Requirements | Legislative / Compliance | Privacy: Platform for Privacy Preferences (P3P) |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Multimedia | Service Access and Delivery | Service Requirements | Legislative / Compliance | Section 508 - P233, F17C |
| Knowledge Distribution and Delivery | Service Access and Delivery | Service Transport | Service Transport | Email: Simple Mail Transfer Protocol (SMTP) |
| Information Sharing | Service Access and Delivery | Service Transport | Service Transport | Email: Simple Mail Transfer Protocol (SMTP) |
| Access Control | Service Access and Delivery | Service Transport | Service Transport | Hyper Text Transfer Protocol (HTTP) (http://hudatwork.hud.gov/apps/po/h/sfdw/) |
| Software Development | Service Access and Delivery | Service Transport | Service Transport | Hyper Text Transfer Protocol (HTTP) (http://hudatwork.hud.gov/apps/po/h/sfdw/) |
| Access Control | Service Access and Delivery | Service Transport | Service Transport | Hyper Text Transfer Protocol Secure (HTTPS) (https://entp.hud.gov/clas/index.cfm) - F17C |
| Software Development | Service Access and Delivery | Service Transport | Service Transport | Hyper Text Transfer Protocol Secure (HTTPS) (https://entp.hud.gov/clas/index.cfm) - F17C |
| Access Control | Service Access and Delivery | Service Transport | Service Transport | Hyper Text Transfer Protocol Secure (HTTPS) (https://entp.hud.gov/sfnw/nw/) - F11 |
| Software Development | Service Access and Delivery | Service Transport | Service Transport | Hyper Text Transfer Protocol Secure (HTTPS) (https://entp.hud.gov/sfnw/nw/) - F11 |
| Enterprise Application Integration | Service Access and Delivery | Service Transport | Service Transport | Internet Message Access Protocol/Post Office Protocol (IMAP/POP3) |
| Balanced Scorecard | Service Access and Delivery | Service Transport | Service Transport | Intranet/Internet FTP for System D64A |
| Software Development | Service Access and Delivery | Service Transport | Supporting Network Services | Directory Services (X.500) for Systems A80W, F17, F17C, F42D, F51, P177 |
| Access Control | Service Access and Delivery | Service Transport | Supporting Network Services | Directory Services (X.500) for Systems A80W, F17, F17C, F42D, F51, P177 |
| Software Development | Service Access and Delivery | Service Transport | Supporting Network Services | Domain Name System (DNS) |
| Software Development | Service Access and Delivery | Service Transport | Supporting Network Services | Dynamic Host Configuration Protocol (DHCP) |
| Data Exchange | Service Access and Delivery | Service Transport | Supporting Network Services | File Transfer Protocol (FTP): FTP Intranet/Internet FTP - P233, F17C, D64A |
| Balanced Scorecard | Service Access and Delivery | Service Transport | Supporting Network Services | FTP Intranet/Internet FTP for System D64A |
| Data Mart | Service Access and Delivery | Service Transport | Supporting Network Services | FTP Intranet/Internet FTP for System D64A |
| Data Classification | Service Access and Delivery | Service Transport | Supporting Network Services | FTP Intranet/Internet FTP for System D64A |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Data Warehouse | Service Access and Delivery | Service Transport | Supporting Network Services | FTP Intranet/Internet FTP for System D64A |
| Data Exchange | Service Access and Delivery | Service Transport | Supporting Network Services | Hyper Text Transfer Protocol (HTTP) |
| Outbound Correspondence Management | Service Access and Delivery | Service Transport | Supporting Network Services | Internet Message Access Protocol/Post office Protocol (IMAP/POP3) |
| Knowledge Distribution and Delivery | Service Access and Delivery | Service Transport | Supporting Network Services | Internet Message Access Protocol/Post office Protocol (IMAP/POP3) |
| Enterprise Application Integration | Service Access and Delivery | Service Transport | Supporting Network Services | Internet Message Access Protocol/Post office Protocol (IMAP/POP3) |
| Information Sharing | Service Access and Delivery | Service Transport | Supporting Network Services | Internet Message Access Protocol/Post office Protocol (IMAP/POP3) |
| Data Exchange | Service Access and Delivery | Service Transport | Supporting Network Services | Internet Protocol (IP) |
| OLAP | Service Access and Delivery | Service Transport | Supporting Network Services | LDAP for System A80W |
| Access Control | Service Access and Delivery | Service Transport | Supporting Network Services | LDAP for System A80W, F17, F17C, F42D, F51, P177 |
| Customer / Account Management | Service Access and Delivery | Service Transport | Supporting Network Services | LDAP for System A80W, F17, F42D, F51, P177 |
| Customer Analytics | Service Access and Delivery | Service Transport | Supporting Network Services | LDAP for System A80W, F17, F42D, F51, P177 |
| Billing and Accounting | Service Access and Delivery | Service Transport | Supporting Network Services | LDAP for System F17 |
| Mapping / Geospatial / Elevation / GPS | Service Access and Delivery | Service Transport | Supporting Network Services | LDAP for System F17 |
| Skills Management | Service Access and Delivery | Service Transport | Supporting Network Services | LDAP for System F17 |
| Partner Relationship Management | Service Access and Delivery | Service Transport | Supporting Network Services | LDAP for System F17, F17C, F51, P177 |
| Process Tracking | Service Access and Delivery | Service Transport | Supporting Network Services | LDAP for System F17, F42D |
| Case Management | Service Access and Delivery | Service Transport | Supporting Network Services | LDAP for System F17, F42D, P177 |
| Payment / Settlement | Service Access and Delivery | Service Transport | Supporting Network Services | LDAP for System F17, F51 |
| Customer Analytics | Service Access and Delivery | Service Transport | Supporting Network Services | LDAP for System P177 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Contact and Profile Management | Service Access and Delivery | Service Transport | Supporting Network Services | LDAP for Systems A80W, F17, F17C, F42D, F51, P177 |
| Inbound Correspondence Management | Service Access and Delivery | Service Transport | Supporting Network Services | Multipurpose Internet Mail Extensions (MIME) |
| Outbound Correspondence Management | Service Access and Delivery | Service Transport | Supporting Network Services | Multipurpose Internet Mail Extensions (MIME) |
| Knowledge Distribution and Delivery | Service Access and Delivery | Service Transport | Supporting Network Services | Multipurpose Internet Mail Extensions (MIME) |
| Enterprise Application Integration | Service Access and Delivery | Service Transport | Supporting Network Services | Multipurpose Internet Mail Extensions (MIME) |
| Information Sharing | Service Access and Delivery | Service Transport | Supporting Network Services | Multipurpose Internet Mail Extensions (MIME) |
| Inbound Correspondence Management | Service Access and Delivery | Service Transport | Supporting Network Services | Simple Mail Transfer Protocol (SMTP) |
| Outbound Correspondence Management | Service Access and Delivery | Service Transport | Supporting Network Services | Simple Mail Transfer Protocol (SMTP) |
| Knowledge Distribution and Delivery | Service Access and Delivery | Service Transport | Supporting Network Services | Simple Mail Transfer Protocol (SMTP) |
| Information Sharing | Service Access and Delivery | Service Transport | Supporting Network Services | Simple Mail Transfer Protocol (SMTP) |
| Enterprise Application Integration | Service Access and Delivery | Service Transport | Supporting Network Services | Simple Main Transfer Protocol (SMTP) |
| Data Exchange | Service Access and Delivery | Service Transport | Supporting Network Services | Transport Control Protocol (TCP) |
| Balanced Scorecard | Service Access and Delivery | Service Transport | Supporting Network Services | Transport Control Protocol (TCP)/IP for D64A |
| Enterprise Application Integration | Service Interface and Integration | Integration | Middleware | Connectivity Tool: Oracle BPEL |
| Data Exchange | Service Interface and Integration | Integration | Middleware | Connectivity Tool: Oracle BPEL - P233 |
| Data Exchange | Service Interface and Integration | Integration | Middleware | Database Access: PL/SQL - P233 |
| Software Development | Service Interface and Integration | Integration | Middleware | Database Access: PL/SQL - P233 |
| Extraction and Transformation | Service Interface and Integration | Integration | Middleware | Oracle BPEL Process Manager 10g Release 2 (10.1.2) for P233 |
| Asset Cataloging / Identification | Service Interface and Integration | Integration | Middleware | Oracle BPEL Process Manager 10g Release 2 (10.1.2) for P233 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Asset Transfer, Allocation, and Maintenance | Service Interface and Integration | Integration | Middleware | Oracle BPEL Process Manager 10g Release 2 (10.1.2) for P233 |
| Property / Asset Management | Service Interface and Integration | Integration | Middleware | Oracle BPEL Process Manager 10g Release 2 (10.1.2) for P233 |
| Skills Management | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for System F17 |
| Billing and Accounting | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for System F17 |
| Mapping / Geospatial / Elevation / GPS | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for System F17 |
| Payment / Settlement | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for System F17 |
| Skills Management | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for System F17 |
| Expense Management | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for System F17 |
| Partner Relationship Management | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C |
| Data Exchange | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C, F42D |
| Software Development | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C, F42D |
| Contact and Profile Management | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C, F42D |
| Internal Controls | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C, F42D |
| Information Sharing | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C, F42D |
| Audit Trail Capture and Analysis | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C, F42D |
| Data Cleansing | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C, F42D |
| Information Retrieval | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C, F42D |
| Knowledge Capture | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C, F42D |
| Loading and Archiving | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C, F42D |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Precision / Recall Ranking | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C, F42D |
| Query | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C, F42D |
| Standardized / Canned | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F17C, F42D |
| Case Management | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F42D |
| Customer Analytics | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F42D |
| Customer / Account Management | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F42D |
| Process Tracking | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F42D |
| Extraction and Transformation | Service Interface and Integration | Integration | Middleware | UniAccess 6R2 for Systems F17, F42D |
| Enterprise Application Integration | Service Interface and Integration | Interface | Service Description / Interface | Web Services Description Language (WSDL) - P233 |
| Enterprise Application Integration | Service Interface and Integration | Interface | Service Discovery | Universal Description Discovery and Integration (UDDI) |
| Enterprise Application Integration | Service Interface and Integration | Interoperability | Data Format / Classification | Extensible Markup Language (XML) |
| Data Exchange | Service Interface and Integration | Interoperability | Data Format / Classification | Extensible Markup Language (XML) - P233 |
| Enterprise Application Integration | Service Interface and Integration | Interoperability | Data Format / Classification | Namespaces - P233 |
| Software Development | Service Interface and Integration | Interoperability | Data Transformation | Extensible Style Sheet Language Transform (XSLT) for System F11 |
| Contact and Profile Management | Service Interface and Integration | Interoperability | Data Transformation | Extensible Style Sheet Language Transform (XSLT) for System F11 |
| Customer Analytics | Service Interface and Integration | Interoperability | Data Transformation | Extensible Style Sheet Language Transform (XSLT) for System F11 |
| Skills Management | Service Interface and Integration | Interoperability | Data Transformation | Extensible Style Sheet Language Transform (XSLT) for System F11 |
| Customer Analytics | Service Interface and Integration | Interoperability | Data Types / Validation | Extensible Telephony Markup Language (XTML) for System F11 |
| Contact and Profile Management | Service Interface and Integration | Interoperability | Data Types / Validation | Extensible Telephony Markup Language (XTML) for System F11 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Skills Management | Service Interface and Integration | Interoperability | Data Types / Validation | Extensible Telephony Markup Language (XTML) for System F11 |
| Enterprise Application Integration | Service Interface and Integration | Interoperability | Data Types / Validation | XML Schema Definition (XSD) - P233 |
| Data Classification | Service Platform and Infrastructure | Database / Storage | Database | DASD for System D64A |
| Data Mart | Service Platform and Infrastructure | Database / Storage | Database | DASD for Systems F12, F51, D64A |
| Data Warehouse | Service Platform and Infrastructure | Database / Storage | Database | DASD for Systems F12, F51, D64A |
| Billing and Accounting | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for System A80S |
| Debt Collection | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for System A80S |
| Case Management | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for System A80S |
| Expense Management | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for System A80S |
| Balanced Scorecard | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for System D64A |
| OLAP | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for System D64A |
| Data Mart | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for System D64A |
| Data Warehouse | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for System D64A |
| Data Classification | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for System D64A |
| Partner Relationship Management | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for System F51 |
| Payment / Settlement | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for System F51 |
| Process Tracking | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A |
| Library / Storage | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Software Development | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Customer Analytics | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Customer / Account Management | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Contact and Profile Management | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Internal Controls | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Information Sharing | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Audit Trail Capture and Analysis | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Data Cleansing | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Information Retrieval | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Knowledge Capture | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Loading and Archiving | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Precision / Recall Ranking | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Query | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Standardized / Canned | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Data Exchange | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems A80S, D64A, F51 |
| Mapping / Geospatial / Elevation / GPS | Service Platform and Infrastructure | Database / Storage | Database | Database 2 (DB2 V7.0) for Systems D64A |
| Mapping / Geospatial / Elevation / GPS | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for System F17 |
| Partner Relationship Management | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for System F17 |
| Payment / Settlement | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for System F17 |
| Skills Management | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for System F17 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Expense Management | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for System F17 |
| Mathematical | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for System F42 |
| Billing and Accounting | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17 |
| Customer Analytics | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D |
| Customer / Account Management | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D |
| Contact and Profile Management | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D |
| Software Development | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |
| Library / Storage | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |
| Internal Controls | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |
| Information Sharing | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |
| Audit Trail Capture and Analysis | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |
| Data Cleansing | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |
| Information Retrieval | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |
| Knowledge Capture | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |
| Loading and Archiving | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |
| Precision / Recall Ranking | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |
| Query | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |
| Standardized / Canned | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |
| Data Exchange | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Standardized / Canned | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42, F42D, F57 |
| Case Management | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42D |
| Process Tracking | Service Platform and Infrastructure | Database / Storage | Database | DMS1100 for Systems F17, F42D |
| Loading and Archiving | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177 |
| Software Development | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177 |
| Library / Storage | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177 |
| Internal Controls | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177 |
| Information Sharing | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177 |
| Audit Trail Capture and Analysis | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177 |
| Data Cleansing | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177 |
| Information Retrieval | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177 |
| Knowledge Capture | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177 |
| Precision / Recall Ranking | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177 |
| Query | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177 |
| Standardized / Canned | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177 |
| Data Exchange | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177 |
| Loading and Archiving | Service Platform and Infrastructure | Database / Storage | Database | Microsoft SQL 2000 for Systems F42D, F51A, P096, P177I |
| Enterprise Application Integration | Service Platform and Infrastructure | Database / Storage | Database | Oracle 10g for System P233 |
| Software Development | Service Platform and Infrastructure | Database / Storage | Database | Oracle 10g for System P233 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Library / Storage | Service Platform and Infrastructure | Database / Storage | Database | Oracle 10g for System P233 |
| Asset Cataloging / Identification | Service Platform and Infrastructure | Database / Storage | Database | Oracle 10g for System P233 |
| Asset Transfer, Allocation, and Maintenance | Service Platform and Infrastructure | Database / Storage | Database | Oracle 10g for System P233 |
| Property / Asset Management | Service Platform and Infrastructure | Database / Storage | Database | Oracle 10g for System P233 |
| Billing and Accounting | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for System F17 |
| Expense Management | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for System F17 |
| Mapping / Geospatial / Elevation / GPS | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17 |
| Payment / Settlement | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17 |
| Skills Management | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17 |
| Partner Relationship Management | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C |
| Loading and Archiving | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |
| Software Development | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |
| Library / Storage | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |
| Contact and Profile Management | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |
| Internal Controls | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |
| Information Sharing | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |
| Audit Trail Capture and Analysis | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |
| Data Cleansing | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |
| Information Retrieval | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Knowledge Capture | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |
| Loading and Archiving | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |
| Precision / Recall Ranking | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |
| Query | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |
| Data Exchange | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F17C, F42D |
| Case Management | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F42D |
| Customer Analytics | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F42D |
| Customer / Account Management | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F42D |
| Process Tracking | Service Platform and Infrastructure | Database / Storage | Database | RDMS 9R3 for Systems F17, F42D |
| Mapping / Geospatial / Elevation / GPS | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for System D64A |
| Skills Management | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for System F11 |
| Balanced Scorecard | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A |
| Customer / Account Management | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A |
| Data Classification | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A |
| Data Mart | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A |
| Data Warehouse | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A |
| Software Development | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |
| Customer Analytics | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |
| Contact and Profile Management | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Internal Controls | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |
| Information Sharing | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |
| Audit Trail Capture and Analysis | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |
| Data Cleansing | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |
| Information Retrieval | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |
| Knowledge Capture | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |
| Loading and Archiving | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |
| Precision / Recall Ranking | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |
| Query | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |
| Standardized / Canned | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |
| Data Exchange | Service Platform and Infrastructure | Database / Storage | Database | Sybase 12.5.X for Systems D64A, F11 |
| Library / Storage | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Balanced Scorecard | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Internal Controls | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Information Sharing | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Audit Trail Capture and Analysis | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Data Cleansing | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Information Retrieval | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Knowledge Capture | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Loading and Archiving | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Precision / Recall Ranking | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Query | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Standardized / Canned | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Data Exchange | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Data Classification | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Data Mart | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Data Warehouse | Service Platform and Infrastructure | Database / Storage | Database | VSAM for System D64A |
| Balanced Scorecard | Service Platform and Infrastructure | Database / Storage | Storage | 1 TB Hard Disk Drive for System D64A |
| Library / Storage | Service Platform and Infrastructure | Database / Storage | Storage | DASD for Systems F12, F51, D64A |
| Internal Controls | Service Platform and Infrastructure | Database / Storage | Storage | DASD for Systems F12, F51, D64A |
| Information Sharing | Service Platform and Infrastructure | Database / Storage | Storage | DASD for Systems F12, F51, D64A |
| Audit Trail Capture and Analysis | Service Platform and Infrastructure | Database / Storage | Storage | DASD for Systems F12, F51, D64A |
| Data Cleansing | Service Platform and Infrastructure | Database / Storage | Storage | DASD for Systems F12, F51, D64A |
| Information Retrieval | Service Platform and Infrastructure | Database / Storage | Storage | DASD for Systems F12, F51, D64A |
| Knowledge Capture | Service Platform and Infrastructure | Database / Storage | Storage | DASD for Systems F12, F51, D64A |
| Loading and Archiving | Service Platform and Infrastructure | Database / Storage | Storage | DASD for Systems F12, F51, D64A |
| Precision / Recall Ranking | Service Platform and Infrastructure | Database / Storage | Storage | DASD for Systems F12, F51, D64A |
| Query | Service Platform and Infrastructure | Database / Storage | Storage | DASD for Systems F12, F51, D64A |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Standardized / Canned | Service Platform and Infrastructure | Database / Storage | Storage | DASD for Systems F12, F51, D64A |
| Data Exchange | Service Platform and Infrastructure | Database / Storage | Storage | DASD for Systems F12, F51, D64A |
| Software Development | Service Platform and Infrastructure | Database / Storage | Storage | Network Attached Storage (NAS) |
| Software Development | Service Platform and Infrastructure | Database / Storage | Storage | Storage Area Network (SAN) |
| Enterprise Application Integration | Service Platform and Infrastructure | Delivery Servers | Application Servers | Oracle Application Server - P233 |
| Enterprise Application Integration | Service Platform and Infrastructure | Delivery Servers | Application Servers | Oracle BPEL Process Manager 10g Release 2 (10.1.2) for P233 |
| Asset Cataloging / Identification | Service Platform and Infrastructure | Delivery Servers | Application Servers | Oracle BPEL Process Manager 10g Release 2 (10.1.2) for P233 |
| Asset Transfer, Allocation, and Maintenance | Service Platform and Infrastructure | Delivery Servers | Application Servers | Oracle BPEL Process Manager 10g Release 2 (10.1.2) for P233 |
| Property / Asset Management | Service Platform and Infrastructure | Delivery Servers | Application Servers | Oracle BPEL Process Manager 10g Release 2 (10.1.2) for P233 |
| Enterprise Application Integration | Service Platform and Infrastructure | Delivery Servers | Portal Servers | Oracle BPEL Process Manager 10g Release 2 (10.1.2) for P233 |
| Data Classification | Service Platform and Infrastructure | Delivery Servers | Web Servers | Apache (Sun) for System D64A |
| Data Mart | Service Platform and Infrastructure | Delivery Servers | Web Servers | Apache (Sun) for System D64A |
| Data Warehouse | Service Platform and Infrastructure | Delivery Servers | Web Servers | Apache (Sun) for System D64A |
| Software Development | Service Platform and Infrastructure | Delivery Servers | Web Servers | Apache (Sun) for Systems D64A, F11, F51A, F57, P177 |
| Software Development | Service Platform and Infrastructure | Delivery Servers | Web Servers | Internet Information Server (Windows 2000) - F11 |
| Balanced Scorecard | Service Platform and Infrastructure | Hardware / Infrastructure | Embedded Technology Devices | 32 GB for System D64A |
| Balanced Scorecard | Service Platform and Infrastructure | Hardware / Infrastructure | Embedded Technology Devices | 8 x 900 mHz CPU for System D64A |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Embedded Technology Devices | Hard Disk Drive |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Embedded Technology Devices | Random Access Memory (RAM) |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Embedded Technology Devices | Redundant Array of Independent Disks (RAID) |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Embedded Technology Devices | Unisys DCP-40 - F17 |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Local Area Network (LAN) | Ethernet |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Network Devices / Standards | Firewall |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Network Devices / Standards | Gateway |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Network Devices / Standards | Network Interface Card (NIC) |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Network Devices / Standards | T1/T3 |
| Expense Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for System A80S |
| Debt Collection | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for System A80S, F12 |
| Case Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for System A80S, F12 |
| Balanced Scorecard | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for System D64A |
| OLAP | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for System D64A |
| Data Classification | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for System D64A |
| Data Mart | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for System D64A |
| Data Warehouse | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for System D64A |
| Partner Relationship Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for System F51 |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for Systems A80S, D64A, F12, F51 |
| Customer Analytics | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for Systems A80S, D64A, F12, F51 |
| Customer / Account Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for Systems A80S, D64A, F12, F51 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Contact and Profile Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for Systems A80S, D64A, F12, F51 |
| Billing and Accounting | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for Systems A80S, F12 |
| Process Tracking | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for Systems D64A, F12 |
| Mathematical | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for Systems F12 |
| Payment / Settlement | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Hitachi Mainframe for Systems F12, F51 |
| Case Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Internet Server for System P177 |
| Balanced Scorecard | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Internet Server for Systems A80W |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Internet Server for Systems A80W, F17C, P096, P177 |
| Contact and Profile Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Internet Server for Systems A80W, F17C, P096, P177 |
| Customer Analytics | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Internet Server for Systems A80W, P096, P177 |
| Customer / Account Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Internet Server for Systems A80W, P096, P177 |
| Partner Relationship Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Internet Server for Systems F17C, P096, P177 |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | LAN File Server for System F51A |
| Customer / Account Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | LAN File Server for System F51A |
| Skills Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | LAN File Server for Systems F11 |
| Customer Analytics | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | LAN File Server for Systems F11, F51A |
| Contact and Profile Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | LAN File Server for Systems F11, F51A |
| Customer / Account Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Microsoft SQL Server 2000 |
| Customer / Account Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Microsoft SQL Server 2000 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Contact and Profile Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Microsoft SQL Server 2000 |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Oracle Application Server for System P233 |
| Asset Cataloging / Identification | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Oracle Application Server for System P233 |
| Asset Transfer, Allocation, and Maintenance | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Oracle Application Server for System P233 |
| Property / Asset Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Oracle Application Server for System P233 |
| Enterprise Application Integration | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Oracle Database Server for P233 |
| Asset Cataloging / Identification | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Oracle Database Server for P233 |
| Asset Transfer, Allocation, and Maintenance | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Oracle Database Server for P233 |
| Property / Asset Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Oracle Database Server for P233 |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | Sperry PC - F42 |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | SQL Server for Systems F42D, F51A, P096, P177 |
| Payment / Settlement | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNISYS 2200 Mainframe for System F17 |
| Skills Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNISYS 2200 Mainframe for System F17 |
| Expense Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNISYS 2200 Mainframe for System F17 |
| Mathematical | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNISYS 2200 Mainframe for System F42 |
| Mapping / Geospatial / Elevation / GPS | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNISYS 2200 Mainframe for Systems F17 |
| Partner Relationship Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNISYS 2200 Mainframe for Systems F17, F17C |
| Contact and Profile Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNISYS 2200 Mainframe for Systems F17, F17C, F42, F42D |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNISYS 2200 Mainframe for Systems F17, F17C, F42, F42D, F57 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Customer Analytics | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNISYS 2200 Mainframe for Systems F17, F42, F42D |
| Customer / Account Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNISYS 2200 Mainframe for Systems F17, F42, F42D |
| Process Tracking | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNISYS 2200 Mainframe for Systems F17, F42D |
| Case Management | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNISYS 2200 Mainframe for Systems F17,F42D |
| Data Mart | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNIX Solaris for System D64A |
| Data Warehouse | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNIX Solaris for System D64A |
| Data Classification | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNIX Solaris for Systems D64A |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNIX Solaris for Systems D64A, F11, F51A, F57, P177 |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNIX Solaris for Systems D64A, F11, F51A, F57, P177 |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNIX Solaris for Systems D64A, F11, F51A, F57, P177 |
| Balanced Scorecard | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNIX Sunfire V880 for System D64A |
| Data Classification | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNIX Sunfire V880 for System D64A |
| Data Mart | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNIX Sunfire V880 for System D64A |
| Data Warehouse | Service Platform and Infrastructure | Hardware / Infrastructure | Servers / Computers | UNIX Sunfire V880 for System D64A |
| Software Development | Service Platform and Infrastructure | Hardware / Infrastructure | Wide Area Network (WAN) | Frame Relay |
| Enterprise Application Integration | Service Platform and Infrastructure | Software Engineering | Integrated Development Environment | Oracle JDeveloper 10g for P233 |
| Software Development | Service Platform and Infrastructure | Software Engineering | Integrated Development Environment | Oracle BPEL Process Manager 10g Release 2 (10.1.2) for P233 |
| Forms Creation | Service Platform and Infrastructure | Software Engineering | Integrated Development Environment | Oracle BPEL Process Manager 10g Release 2 (10.1.2) for P233 |
| Enterprise Application Integration | Service Platform and Infrastructure | Software Engineering | Integrated Development Environment | Oracle BPEL Process Manager 10g Release 2 (10.1.2) for P233 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Forms Modification | Service Platform and Infrastructure | Software Engineering | Integrated Development Environment | Oracle BPEL Process Manager 10g Release 2 (10.1.2) for P233 |
| Software Development | Service Platform and Infrastructure | Software Engineering | Integrated Development Environment | Oracle JDeveloper 10g for P233 |
| Forms Creation | Service Platform and Infrastructure | Software Engineering | Integrated Development Environment | Oracle JDeveloper 10g for P233 |
| Forms Modification | Service Platform and Infrastructure | Software Engineering | Integrated Development Environment | Oracle JDeveloper 10g for P233 |
| Contact and Profile Management | Service Platform and Infrastructure | Software Engineering | Integrated Development Environment | Sun ONE Enterprise Edition 7.0 for System F11 |
| Skills Management | Service Platform and Infrastructure | Software Engineering | Integrated Development Environment | Sun ONE Enterprise Edition 7.0 for System F11 |
| Customer Analytics | Service Platform and Infrastructure | Software Engineering | Integrated Development Environment | Sun ONE Enterprise Edition 7.0 for System F11 |
| Software Development | Service Platform and Infrastructure | Software Engineering | Integrated Development Environment | SunJAVA Application Suite - F51A, P177 |
| Software Development | Service Platform and Infrastructure | Software Engineering | Modeling | AllFusion ERwin 4.X |
| Modeling | Service Platform and Infrastructure | Software Engineering | Modeling | AllFusion ERwin 4.X |
| Modeling | Service Platform and Infrastructure | Software Engineering | Modeling | Microsoft EXCEL |
| Graphing / Charting | Service Platform and Infrastructure | Software Engineering | Modeling | Microsoft EXCEL |
| Graphing / Charting | Service Platform and Infrastructure | Software Engineering | Modeling | Microsoft VISIO |
| Software Development | Service Platform and Infrastructure | Software Engineering | Modeling | Microsoft Visio (for UML) |
| Modeling | Service Platform and Infrastructure | Software Engineering | Modeling | Oracle BPM |
| Graphing / Charting | Service Platform and Infrastructure | Software Engineering | Modeling | Oracle BPM |
| Configuration Management | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | CA-Endeavor 3.8 for Systems A80S, F51 and D64A |
| Change Management | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | Change Mgmt: Pending EA Tool Selection |
| Configuration Management | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | CMPlus 11R1 for Systems F42, F42D, F17 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Quality Management | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | Defect Tracking: PVCS Tracker |
| Quality Management | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | Defect Tracking: Service Ticket Action Resolution System (STARS) |
| Program / Project Management | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | Deployment Management (HARTS, a LOTUS Notes Based System) |
| Quality Management | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | Issue Mgmt: Service Ticket Action Resolution System (STARS) |
| Configuration Management | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | Mercant Professional 8.0 (formerly PVCS) for Systems A80S, A80W, D64A, F11, F17, F42D, F51, F51A, P096, P177 |
| Task Management | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | Microsoft Project 2003 |
| Program / Project Management | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | Microsoft Project 2003 |
| Resource Planning and Allocation | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | Microsoft Project 2003 |
| Quality Management | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | Requirement Mgmt: Pending EA Tool Selection |
| Configuration Management | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | SOA CM Tool: Pending EA Tool Selection |
| Instrumentation and Testing | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | Stress/Performance Testing: Pending EA Tool Selection |
| Instrumentation and Testing | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | Testing Tool: Pending EA Tool Selection |
| Quality Management | Service Platform and Infrastructure | Software Engineering | Software Configuration Management | Testing Tool: Pending EA Tool Selection |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Adobe Acrobat 7.0 |
| Multimedia | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Adobe Acrobat 7.0 |
| Mapping / Geospatial / Elevation / GPS | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for System D64A |
| OLAP | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for System D64A |
| Data Classification | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for System D64A |
| Data Mart | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for System D64A |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Data Warehouse | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for System D64A |
| Partner Relationship Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for System F51 |
| Process Tracking | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for Systems A80S, D64A |
| Billing and Accounting | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for Systems A80S, F12 |
| Debt Collection | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for Systems A80S, F12 |
| Case Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for Systems A80S, F12 |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for Systems A80S, F12, D64A, F51 |
| Customer Analytics | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for Systems A80S, F12, D64A, F51 |
| Customer / Account Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for Systems A80S, F12, D64A, F51 |
| Contact and Profile Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for Systems A80S, F12, D64A, F51 |
| Payment / Settlement | Service Platform and Infrastructure | Support Platforms | Platform Dependent | CICS for Systems F51 |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | COBOL Compiler: ASCII (ACOB) - F17, F42, F42D, F57 |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | COBOL Compiler: COBOL for OS/390 (Hitachi) - A80S, F12, F51, D64A |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | COBOL Compiler: USC (UCOB) - F42, F42D |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Cold Fusion Enterprise 5.0 for System A80W, D64A, F11, F17C, F42D, F51, F57, P096, P177 |
| Forms Creation | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F17C, F42D, F51, F57, P096, P177 |
| Forms Modification | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A, F11, F17C, F42D, F51, F57, P096, P177 |
| Balanced Scorecard | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Cold Fusion Enterprise 5.0 for Systems A80W, D64A |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | COOL:Gen 6.5 for System F51 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Balanced Scorecard | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Direct Connect 12.0 Unix-Gateway for System D64A |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | DPS Form Based Presentation System (DPS-1100) - F17 |
| Payment / Settlement | Service Platform and Infrastructure | Support Platforms | Platform Dependent | DPS Form Based Presentation System (DPS-1100) for System F17 |
| Skills Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | DPS Form Based Presentation System (DPS-1100) for System F17 |
| Billing and Accounting | Service Platform and Infrastructure | Support Platforms | Platform Dependent | DPS Form Based Presentation System (DPS-1100) for Systems F17 |
| Mapping / Geospatial / Elevation / GPS | Service Platform and Infrastructure | Support Platforms | Platform Dependent | DPS Form Based Presentation System (DPS-1100) for Systems F17 |
| Partner Relationship Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | DPS Form Based Presentation System (DPS-1100) for Systems F17 |
| Forms Creation | Service Platform and Infrastructure | Support Platforms | Platform Dependent | DPS Form Based Presentation System (DPS-1100) for Systems F17, F42D |
| Case Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | DPS Form Based Presentation System (DPS-1100) for Systems F17, F42D |
| Customer Analytics | Service Platform and Infrastructure | Support Platforms | Platform Dependent | DPS Form Based Presentation System (DPS-1100) for Systems F17, F42D |
| Customer / Account Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | DPS Form Based Presentation System (DPS-1100) for Systems F17, F42D |
| Contact and Profile Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | DPS Form Based Presentation System (DPS-1100) for Systems F17, F42D |
| Process Tracking | Service Platform and Infrastructure | Support Platforms | Platform Dependent | DPS Form Based Presentation System (DPS-1100) for Systems F17, F42D |
| Forms Modification | Service Platform and Infrastructure | Support Platforms | Platform Dependent | DPS Form Based Presentation System (DPS-1100) for Systems F17, F42D |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Gateway: Direct Connect 12.0 Unix-Gateway - D64A |
| Data Exchange | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Gateway: Direct Connect 12.0 Unix-Gateway - D64A |
| Data Classification | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Gateway: Direct Connect 12.0 Unix-Gateway - D64A |
| Data Mart | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Gateway: Direct Connect 12.0 Unix-Gateway - D64A |
| Data Warehouse | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Gateway: Direct Connect 12.0 Unix-Gateway - D64A |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Balanced Scorecard | Service Platform and Infrastructure | Support Platforms | Platform Dependent | IBM OS 390 V2.8 for System D64A |
| Mathematical | Service Platform and Infrastructure | Support Platforms | Platform Dependent | IBM OS 390 V2.8 for System F12 |
| Partner Relationship Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | IBM OS 390 V2.8 for System F51 |
| Billing and Accounting | Service Platform and Infrastructure | Support Platforms | Platform Dependent | IBM OS 390 V2.8 for Systems A80S, F12 |
| Case Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | IBM OS 390 V2.8 for Systems A80S, F12 |
| Process Tracking | Service Platform and Infrastructure | Support Platforms | Platform Dependent | IBM OS 390 V2.8 for Systems A80S, F12, D64A |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | IBM OS 390 V2.8 for Systems A80S, F12, D64A, F51 |
| Customer / Account Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | IBM OS 390 V2.8 for Systems A80S, F12, D64A, F51 |
| Contact and Profile Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | IBM OS 390 V2.8 for Systems A80S, F12, D64A, F51 |
| Customer Analytics | Service Platform and Infrastructure | Support Platforms | Platform Dependent | IBM OS 390 V2.8 for Systems A80S, F12, F51 |
| Mapping / Geospatial / Elevation / GPS | Service Platform and Infrastructure | Support Platforms | Platform Dependent | IBM OS 390 V2.8 for Systems D64A |
| OLAP | Service Platform and Infrastructure | Support Platforms | Platform Dependent | IBM OS 390 V2.8 for Systems D64A |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) - A80S, F12, D64A, F51 |
| Balanced Scorecard | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for System D64A |
| Balanced Scorecard | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for System D64A |
| Mapping / Geospatial / Elevation / GPS | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for System D64A |
| OLAP | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for System D64A |
| Data Classification | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for System D64A |
| Data Mart | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for System D64A |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Data Warehouse | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for System D64A |
| Mathematical | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for System F12 |
| Partner Relationship Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for System F51 |
| Billing and Accounting | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12 |
| Debt Collection | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12 |
| Case Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12 |
| Process Tracking | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A |
| Internal Controls | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A |
| Information Sharing | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A |
| Audit Trail Capture and Analysis | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A |
| Data Cleansing | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A |
| Information Retrieval | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A |
| Knowledge Capture | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A |
| Loading and Archiving | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A |
| Precision / Recall Ranking | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A |
| Query | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A |
| Standardized / Canned | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A |
| Customer Analytics | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A, F51 |
| Customer / Account Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A, F51 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Contact and Profile Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems A80S, F12, D64A, F51 |
| Payment / Settlement | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Job Control Language (JCL) for Systems F12, F51 |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Macromedia Flash Player Plugin |
| Ad Hoc | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Microsoft EXCEL |
| Balanced Scorecard | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Microsoft Office 2000 |
| Multimedia | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Microsoft Powerpoint |
| Balanced Scorecard | Service Platform and Infrastructure | Support Platforms | Platform Dependent | MS Access for System D64A |
| Balanced Scorecard | Service Platform and Infrastructure | Support Platforms | Platform Dependent | MVS ESA 2.3.1 for System D64A |
| Data Classification | Service Platform and Infrastructure | Support Platforms | Platform Dependent | MVS ESA 2.3.1 for System D64A |
| Data Mart | Service Platform and Infrastructure | Support Platforms | Platform Dependent | MVS ESA 2.3.1 for System D64A |
| Data Warehouse | Service Platform and Infrastructure | Support Platforms | Platform Dependent | MVS ESA 2.3.1 for System D64A |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | MVS ESA 2.3.1 for Systems A80S, D64A, F12, F51 |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | NOMAD 6.50A for System A80S |
| Billing and Accounting | Service Platform and Infrastructure | Support Platforms | Platform Dependent | NOMAD 6.50A for System A80S |
| Debt Collection | Service Platform and Infrastructure | Support Platforms | Platform Dependent | NOMAD 6.50A for System A80S |
| Case Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | NOMAD 6.50A for System A80S |
| Customer Analytics | Service Platform and Infrastructure | Support Platforms | Platform Dependent | NOMAD 6.50A for System A80S |
| Customer / Account Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | NOMAD 6.50A for System A80S |
| Contact and Profile Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | NOMAD 6.50A for System A80S |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Process Tracking | Service Platform and Infrastructure | Support Platforms | Platform Dependent | NOMAD 6.50A for System A80S |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Operating System: Windows 2000 Advanced Server or 2003 Server |
| Enterprise Application Integration | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Oracle Enterprise Service Bus |
| Enterprise Application Integration | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Oracle Service Registry for P233 |
| Multimedia | Service Platform and Infrastructure | Support Platforms | Platform Dependent | RealPlayer |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | RealPlayer |
| Balanced Scorecard | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Sun Solaris 8.0 Operating System for D64A |
| Data Classification | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Sun Solaris 8.0 Operating System for D64A |
| Data Mart | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Sun Solaris 8.0 Operating System for D64A |
| Data Warehouse | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Sun Solaris 8.0 Operating System for D64A |
| Customer Analytics | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Sybase Open Client for System F51A |
| Customer / Account Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Sybase Open Client for System F51A |
| Contact and Profile Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Sybase Open Client for System F51A |
| Case Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | TIP1100 (Screens) for System F17 |
| Customer Analytics | Service Platform and Infrastructure | Support Platforms | Platform Dependent | TIP1100 (Screens) for System F17 |
| Customer / Account Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | TIP1100 (Screens) for System F17 |
| Contact and Profile Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | TIP1100 (Screens) for System F17 |
| Mapping / Geospatial / Elevation / GPS | Service Platform and Infrastructure | Support Platforms | Platform Dependent | TIP1100 (Screens) for System F17 |
| Partner Relationship Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | TIP1100 (Screens) for System F17 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Payment / Settlement | Service Platform and Infrastructure | Support Platforms | Platform Dependent | TIP1100 (Screens) for System F17 |
| Process Tracking | Service Platform and Infrastructure | Support Platforms | Platform Dependent | TIP1100 (Screens) for System F17 |
| Skills Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | TIP1100 (Screens) for System F17 |
| Billing and Accounting | Service Platform and Infrastructure | Support Platforms | Platform Dependent | TIP1100 (Screens) for Systems F17 |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | TIP1100 (Screens) for Systems F17, F57 |
| Forms Creation | Service Platform and Infrastructure | Support Platforms | Platform Dependent | TIP1100 (Screens) for Systems F17, F57 |
| Mapping / Geospatial / Elevation / GPS | Service Platform and Infrastructure | Support Platforms | Platform Dependent | UNISYS OS 2200 HMP5.0 for System F17 |
| Payment / Settlement | Service Platform and Infrastructure | Support Platforms | Platform Dependent | UNISYS OS 2200 HMP5.0 for System F17 |
| Mathematical | Service Platform and Infrastructure | Support Platforms | Platform Dependent | UNISYS OS 2200 HMP5.0 for System F42 |
| Billing and Accounting | Service Platform and Infrastructure | Support Platforms | Platform Dependent | UNISYS OS 2200 HMP5.0 for Systems F17 |
| Skills Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | UNISYS OS 2200 HMP5.0 for Systems F17 |
| Partner Relationship Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | UNISYS OS 2200 HMP5.0 for Systems F17, F17C |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | UNISYS OS 2200 HMP5.0 for Systems F17, F17C, F42, F42D |
| Contact and Profile Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | UNISYS OS 2200 HMP5.0 for Systems F17, F17C, F42, F42D |
| Customer / Account Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | UNISYS OS 2200 HMP5.0 for Systems F17, F42, F42D |
| Customer Analytics | Service Platform and Infrastructure | Support Platforms | Platform Dependent | UNISYS OS 2200 HMP5.0 for Systems F17, F42, F42D, F57 |
| Case Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | UNISYS OS 2200 HMP5.0 for Systems F17, F42D |
| Process Tracking | Service Platform and Infrastructure | Support Platforms | Platform Dependent | UNISYS OS 2200 HMP5.0 for Systems F17, F42D |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Web Author Tool: Dreamweaver 3.0.1 |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | webServer Application Server Software: Microsoft Internet Information Server (?) |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | webServer Application Server Software: Sun ONE (Enterprise Edition) - F11 |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Dependent | webServer Software: SunJAVA Web Infrastructure (?) |
| Customer Analytics | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Windows XP for Systems F11, F51A, P096, P177 |
| Customer / Account Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Windows XP for Systems F11, F51A, P096, P177 |
| Contact and Profile Management | Service Platform and Infrastructure | Support Platforms | Platform Dependent | Windows XP for Systems F11, F51A, P096, P177 |
| Classification | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Meta Data Management | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Balanced Scorecard | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Billing and Accounting | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Debt Collection | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Case Management | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Customer / Account Management | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Customer Analytics | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Mapping / Geospatial / Elevation / GPS | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Mathematical | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| OLAP | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Partner Relationship Management | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Payment / Settlement | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |

| FEA SRM Component | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (i.e. vendor or product name) |
|---|---|---|---|---|
| Process Tracking | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Skills Management | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Cryptography | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Decision Support and Planning | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Document Imaging and OCR | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Forensics | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Intrusion Detection | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Risk Management | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Data Integration | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed for "Enterprise Application Integration" |
| Data Mining | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Information Mapping / Taxonomy | Service Platform and Infrastructure | Support Platforms | Platform Independent | All TRM Components Listed For "Enterprise Application Integration" |
| Software Development | Service Platform and Infrastructure | Support Platforms | Platform Independent | JAVA 2 Platform Enterprise Edition (J2EE) |
| Enterprise Application Integration | Service Platform and Infrastructure | Support Platforms | Platform Independent | JAVA 2 Platform Enterprise Edition (J2EE) |

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.

*Reuse & Information Sharing BY08*

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

If "yes," please describe how the application will leverage existing components and/or applications across the Government.

Several of the functions included in this consolidated submission will use the Pay.Gov application.

| | |
|---|---|
| Does this investment provide the public with access to a government automated information system? | Yes |
| If "yes," does customer access require specific software (e.g., a specific web browser version)? | No |

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).

*FEA Primary Mapping BY08*

FEA Primary Mapping

| | |
|---|---|
| Reference Model: | BRM |
| Business Area: | Services For Citizens |
| Line of Business: | Community and Social Services |
| Sub Function: | Homeownership Promotion |
| Mapping Code: | 101001 |

## II.A: ALTERNATIVES ANALYSIS BY08

*Analysis Background BY08*

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.

| | |
|---|---|
| Did you conduct an alternatives analysis for this project? | Yes |
| If "yes," what is the date of the analysis? | 7/12/2006 |
| If "no," what is the anticipated date this analysis will be completed? | |

If no analysis is planned, please briefly explain why:

*Alternatives Table BY08*

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

Alternatives Analysis Results

| Send to OMB | Alternative Analyzed | Description of Alternative | Risk Adjusted Lifecycle Costs estimate | Risk Adjusted Lifecycle Benefits estimate |
|---|---|---|---|---|
| True | 1 | Status Quo is a collection of disparate systems processing information and supporting the business functions of Single Family. These systems are stove-pipe legacy mainframe-computer applications. They were typically coded in the COBOL and were implemented on either the IBM or Unisys mainframe computer platforms. They utilize a variety of data management technologies, from the use of flat files to relational database management systems. | 293891.4 | 0 |
| True | 2 | The Enhancement to the Status-Quo would modify each of the existing legacy systems to include the missing and required functionality to meet the needs of Single Family and their customers. These enhancements would also improve integration between all systems within Single Family as well as other HUD systems, and those of Single Family's stakeholders. The support of Enhancement to the Status-Quo would require the same maintenance costs as that provided for the current legacy systems. | 356167.3 | 0 |
| True | 3 | New Development will provide state-of-the-art support for the business functions and needs of FHA Single Family and their business partners. SF Integration is a system comprised of five modules: Loan Origination; Loan Insurance Management; Asset Management; Business Partner Approval & Monitoring; Business Intelligence. There will be a single shared date base providing timely and | 213460.4 | 74244.1 |

| Send to OMB | Alternative Analyzed | Description of Alternative | Risk Adjusted Lifecycle Costs estimate | Risk Adjusted Lifecycle Benefits estimate |
|---|---|---|---|---|
| | | accurate information, improve reporting capabilities, and providing more informed business decisions. | | |
| True | 4 | The COTS alternative would be a mix of as many as three vendor software solutions requiring the procurement of software, hardware, and licenses from each of the vendors. Each system would be separately designed with functionality to support each of Single Family's business function. Each system would also operate within its own separate database. The systems would be integrated, sharing data to meet needs of their users. The COTS solution would be integrated with other systems within HUD. | 244080.8 | 52944.1 |

*Selected Alternative BY08*

Which alternative was selected by the Initiative Governance process and why was it chosen?

The following is a summary of the alternative analysis which was completed for the Single Family Integration system: Alternative 3, New Development was selected based on the costs and benefits associated with each of the four alternatives. A summary of the cost/benefit analysis that was conducted for each alternative and is provided below (costs and benefits are presented in discounted thousands of dollars): Alternative 3, New Development, Total Costs: $213,460.4 Total Benefits: $74244.1 Net Present Value: $53,394.8 ROI: 356%. Alternative 3 presents the best overall value to the Department. This selection will reduce redundancy, improve data accuracy, provide improvements in technology and performance provide increased service levels to customers, and provide a better product. A Risk based Adjustment of 40% was made to Alternative 3. Theses adjustments were made to the following cost categories Requirements, New Development, Integration & Training, Installation, and System Design. The basis for this adjustment is from program history - due to a lack of system documentation, and undocumented business processes. Alternative 1, Status Quo, Total Costs: $293,891.4 Benefits: $0 Incremental Net Present Value: $0 ROI: 0.0%. There is not any recognized benefit with this alternative since Single Family would continue to operate with the same core systems, and continue to be cited for the same system deficiencies. Alternative 2, Enhancement to Status Quo, Total Costs: $356,167.3 Total Benefits: $0 Net Present Value: $-44,458.3 ROI: -1868%. Though there would be some enhancements made to the existing core systems Enhancement to the Status Quo was not selected for the same reasons as Alternative 1. Alternative 4, COTS, Total Costs: $244,080.8 Total Benefits: $52,944.1 Net Present Value: $27,071.5 ROI: 205.0 %. A Risk based Adjustment of 30% was made to Alternative 4. Theses adjustments were made to the following cost categories Requirements, New Development, Integration & Training, Installation, and System Design. The basis for this adjustment is from program history - due to a lack of system documentation, and undocumented business processes. The COTS alternative, while attractive, does not offer a higher benefit or a higher ROI for the department than Alternative 3, New Development. Alternative 3 has the highest Return on Investment of 356% and offers the best value to the Department. The net present value for the alternative is estimated at $53.4 million.

What specific qualitative benefits will be realized?

The following are the qualitative benefits of the New Development alternative: Data Integration and Sharing Data integration and sharing supports not only improved process efficiency, but it also offers the opportunity to improve management's administrative and operational ability to analyze the relationships in the shared data.

Single Data Entry. The current information system environment consists of many stove-piped systems. This necessitates multiple data entries and increases the potential of data errors. With the New Development alternative, data will only need to be entered and validated once. E-Business As industry analysts had predicted, E-Business has become a dominant factor in recent years. The Mortgage Banking Industry has been compelled to invest in the infrastructure to conduct business operations in the electronic medium. The new system will accommodate features such as the integration of public key infrastructure and encrypted network access to allow Single Family to take advantage of the new business-to-business or business-to-customer technologies.

Performance Data. To transform HUD into an agency in which responsibility matches accountability, it is necessary to have access to the data and analytical capabilities to monitor program performance. With the new system, Single Family will be better able to generate performance information and gauge how well programs are performing compared to their expected goals.

Integrate Functions and Processes. The implementation of a well-designed and managed information technology architecture will encourage the integration of functions, processes, and resources throughout the enterprise to produce a value-added investment.

Streamlined Operations. The New Development solution will contribute to streamlining and consolidating operations by aligning business processes with the supporting information systems and technology. By accomplishing this benefit Single Family personnel will be able to devote more time to analysis and meeting customer needs.

Enhance Customer Services. Through the development and operation of the SFIntegration system become more efficient

streamlined processes, timely and accurate information, stronger and more efficient program monitoring, and enhanced reporting capabilities. These system improvements will enable Single Family to deliver enhanced services to their customers - Home Buyers, Lenders, and HUD staff.

## II.B: RISK MANAGEMENT BY08

### Risk Management Plan BY08

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.

| | |
|---|---|
| Does the investment have a Risk Management Plan? | Yes |
| What is the date of the risk management plan? | 5/31/2006 |
| Has the Risk Management Plan been significantly changed since last year's submission to OMB? | No |
| If "yes," describe any significant changes to the Risk Management Plan: | |
| | |
| If there currently is no risk plan, will a plan be developed? | |
| If "yes," what is the planned completion date of the risk plan? | |
| If "no," what is the strategy for managing the risks? | |

### Investment Risks BY08

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

The project risks are documented in the project's Risk Management Plan. For each risk, the project assigns a risk priority and risk level. The risk level is assigned according to the risk impact and risk probability. The project also identifies and tracks the status of the mitigation strategy for each risk. The SFIntegration Project plan takes into account the risk impact, probability, cost of the mitigation strategy and potential cost if the risk were to occur when estimating the budget for each phase in the development cycle. If a risk mitigation strategy impacts the project schedule, the project release schedule is updated and the impact to future development activities is analyzed and adjusted if necessary.

## II.C: COST AND SCHEDULE PERFORMANCE BY08

### Earned Value BY08

| | |
|---|---|
| Does the earned value management system meet the criteria in ANSI/EIA Standard - 748? | Yes |

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):

| | |
|---|---|
| What is the Planned Value (PV)? | 5.054500 |
| What is the Earned Value (EV)? | 3.519400 |
| What is the actual cost of work performed (AC)? | 3.517400 |
| What costs are included in the reported Cost/Schedule Performance information (Government Only/Contractor Only/Both)? | Contractor Only |
| EVMS "As of" date: | 6/30/2006 |
| What is the calculated Schedule Performance Index (SPI = EV/PV)? | 0.696000 |
| What is the schedule variance (SV = EV-PV)? | -1.351000 |
| What is the calculated Cost Performance Index (CPI = EV/AC)? | 1.001000 |
| What is the cost variance (CV = EV-AC)? | 0.002000 |

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.

### Cost/Schedule Variance BY08

| | |
|---|---|
| Is the CV% or SV% greater than 10%? (CV%= CV/EV x 100; SV%= SV/PV x 100) | No |
| If "yes," was it the CV or SV or both? | |
| If "yes," explain the variance: | |
| | |
| If "yes," what corrective actions are being taken? | |
| | |
| What is the most current "Estimate at Completion"? | 57329.500000 |

### Performance Baseline BY08

| | |
|---|---|
| Have any significant changes been made to the baseline during the | Yes |

past fiscal year?

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.

If "yes," when was it approved by OMB?

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 | Single Family Modernization Project/Single Family Integration System | 09/30/2008 | $51.306 | 09/30/2008 | 05/19/2006 | $50.575 | $8.440 | 865 | $42.135 | 18.49% |
| 1.3 | FY 2005/2006 Tasks | 09/29/2008 | $17.003 | 09/29/2008 | 05/19/2006 | $16.272 | $8.440 | 864 | $7.832 | 57.46% |
| 1.3.1 | FY 2005/2006 Development Tasks | 01/31/2007 | $6.303 | 03/20/2007 | | $6.303 | $3.686 | | $2.617 | 72.93% |
| 1.3.1.1 | a. Project Initiation/Planning | 01/31/2007 | $1.600 | 01/31/2007 | | $1.600 | $0.640 | | $0.960 | 54.00% |
| 1.3.1.2 | b. Requirements Definition | 12/31/2006 | $0.733 | 12/31/2006 | | $0.733 | $0.370 | | $0.363 | 83.00% |
| 1.3.1.3 | c. System Design | 01/16/2007 | $0.690 | 01/16/2007 | | $0.690 | $0.480 | | $0.210 | 70.00% |
| 1.3.1.4 | f. New Development/Perfective Maintenance | 10/23/2006 | $1.230 | 10/23/2006 | | $1.230 | $0.596 | | $0.634 | 68.00% |
| 1.3.1.5 | g. Systems Integration & Testing | 09/30/2006 | $1.900 | 01/31/2007 | | $1.900 | $1.600 | | $0.300 | 95.00% |
| 1.3.1.6 | h. Installation & Deployment | 11/15/2006 | $0.150 | 03/20/2007 | | $0.150 | | | | 0% |
| 1.3.2 | FY 2006 Maintenance Tasks | 09/29/2008 | $10.700 | 09/29/2008 | 05/19/2006 | $9.969 | $4.754 | 864 | $5.215 | 47.68% |
| 1.3.2.1 | FY 2006 Maintenance Tasks (A80S) | 10/02/2007 | $3.080 | 10/02/2007 | | $3.080 | $1.540 | | $1.540 | 50.00% |
| 1.3.2.2 | FY 2006 Maintenance Tasks (F12) | 10/01/2007 | $1.050 | 10/01/2007 | | $1.050 | $0.610 | | $0.440 | 59.00% |
| 1.3.2.3 | FY 2006 Maintenance Tasks (F57) | 09/28/2007 | $0.370 | 09/28/2007 | | $0.370 | | | | % |
| 1.3.2.4 | FY 2006 Maintenance Tasks (F51) | 09/28/2007 | $0.580 | 09/28/2007 | | $0.437 | $0.058 | | $0.379 | 13.00% |
| 1.3.2.5 | FY 2006 Maintenance Tasks (F51A) | 10/02/2007 | $0.270 | 10/02/2007 | | $0.270 | | | | % |
| 1.3.2.6 | FY 2006 Maintenance Tasks (F17C) | 09/28/2007 | $1.530 | 09/28/2007 | | $1.150 | $0.504 | | $0.646 | 45.00% |
| 1.3.2.7 | FY2006 Maintenance Tasks - (A80W) | 09/28/2007 | $0.520 | 09/28/2007 | | $0.369 | $0.162 | | $0.207 | 50.00% |
| 1.3.2.8 | FY2006 Maintenance Tasks - (D64A) | 09/29/2008 | $0.820 | 09/29/2008 | | $0.754 | $0.439 | | $0.315 | 43.00% |
| 1.3.2.9 | FY 2006 Maintenance Tasks - (F11) | 09/28/2007 | $0.090 | 09/28/2007 | | $0.090 | $0.040 | | $0.050 | 44.00% |
| 1.3.2.10 | FY2006 Maintenance Tasks - (F17) | 09/28/2007 | $2.090 | 09/28/2007 | | $1.580 | $0.690 | | $0.890 | 45.00% |
| 1.3.2.11 | FY2006 Maintenance Tasks - LASS (P096) | 10/03/2007 | $0.200 | 10/03/2007 | 05/19/2006 | $0.507 | $0.507 | 502 | $0.000 | 100.00% |
| 1.3.2.12 | FY 2006 Maintenance Tasks (P177) | 10/04/2007 | $0.100 | 10/04/2007 | | $0.312 | $0.204 | | $0.108 | 81.00% |
| 1.4 | FY 2007 Tasks | 09/30/2008 | $17.901 | 09/30/2008 | | $17.901 | | | | 0% |
| 1.4.1 | FY 2007 Development Tasks | 09/30/2007 | $7.201 | 09/30/2007 | | $7.201 | | | | 0% |
| 1.4.1.1 | a. Project Initiation/Planning | 09/30/2007 | $0.086 | 09/30/2007 | | $0.086 | | | | 0% |

| # | Task | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.4.1.2 | b. Requirements Definition | 09/30/2007 | $0.036 | 09/30/2007 | | $0.036 | | | | 0% |
| 1.4.1.3 | c. System Design | 09/30/2007 | $0.735 | 09/30/2007 | | $0.735 | | | | 0% |
| 1.4.1.4 | d. Software Acquisition | 09/30/2007 | $0.086 | 09/30/2007 | | $0.086 | | | | 0% |
| 1.4.1.5 | e. Hardware/Infrastructure Acquisition | 09/30/2007 | $0.706 | 09/30/2007 | | $0.706 | | | | 0% |
| 1.4.1.6 | f. New Development/Perfective Maintenance | 09/30/2007 | $3.040 | 09/30/2007 | | $3.040 | | | | 0% |
| 1.4.1.7 | g. Systems Integration & Testing | 09/30/2007 | $2.310 | 09/30/2007 | | $2.310 | | | | 0% |
| 1.4.1.8 | h. Installation & Deployment | 09/30/2007 | $0.202 | 09/30/2007 | | $0.202 | | | | 0% |
| 1.4.2 | FY 2007 Maintenance Tasks | 09/30/2008 | $10.700 | 09/30/2008 | | $10.700 | | | | 0% |
| 1.4.2.1 | Legacy Systems Maintenance Tasks | 09/30/2008 | $10.700 | 09/30/2008 | | $10.700 | | | | 0% |
| 1.5 | FY2008 Tasks | 09/30/2008 | $16.402 | 09/30/2008 | | $16.402 | | | | 0% |
| 1.5.1 | FY 2008 Development Tasks | 09/30/2008 | $6.002 | 09/30/2008 | | $6.002 | | | | 0% |
| 1.5.1.1 | a. Project Initiation/Planning | 09/30/2008 | $0.072 | 09/30/2008 | | $0.072 | | | | 0% |
| 1.5.1.2 | b. Requirements Definition | 09/30/2008 | $0.030 | 09/30/2008 | | $0.030 | | | | 0% |
| 1.5.1.3 | c. System Design | 09/30/2008 | $0.612 | 09/30/2008 | | $0.612 | | | | 0% |
| 1.5.1.4 | d. Software Acquisition | 09/30/2008 | $0.072 | 09/30/2008 | | $0.072 | | | | 0% |
| 1.5.1.5 | e. Hardware/Infrastructure Acquisition | 09/30/2008 | $0.588 | 09/30/2008 | | $0.588 | | | | 0% |
| 1.5.1.6 | f. New Development/Perfective Maintenance | 09/30/2008 | $2.530 | 09/30/2008 | | $2.530 | | | | 0% |
| 1.5.1.7 | g. Systems Integration & Testing | 09/30/2008 | $1.930 | 09/30/2008 | | $1.930 | | | | 0% |
| 1.5.1.8 | h. Installation & Deployment | 09/30/2008 | $0.168 | 09/30/2008 | | $0.168 | | | | 0% |
| 1.5.2 | FY 2008 Maintenance Tasks | 09/30/2008 | $10.400 | 09/30/2008 | | $10.400 | | | | 0% |
| 1.5.2.1 | Legacy System Maintenance | 09/30/2008 | $10.400 | 09/30/2008 | | $10.400 | | | | 0% |
| **Project Totals** | | **09/30/2008** | **$51.306** | **09/30/2008** | **05/19/2006** | **$50.575** | **$8.440** | **865** | **$42.135** | **18.49** |

## III.A: RISK MANAGEMENT BY08

### Risk Management Plan BY08

Part III should be completed only for investments identified as "Operation and Maintenance" (Steady State) in response to Question 6 in Part I, Section A above.

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.

| | |
|---|---|
| Does the investment have a Risk Management Plan? | Yes |
| What is the date of the risk management plan? | 5/31/2006 |
| Has the Risk Management Plan been significantly changed since last year's submission to OMB? | No |
| If "yes," describe any significant changes to the Risk Management Plan: | |
| If there currently is no risk plan, will a plan be developed? | |
| If "yes," what is the planned completion date of the risk plan? | |
| If "no," what is the strategy for managing the risks? | |

## III.B: COST AND SCHEDULE PERFORMANCE BY08

### Operational Analysis BY08

| | |
|---|---|
| Was operational analysis conducted? | |
| If "yes," provide the date the operational analysis was completed. | |
| Please provide a brief summary of the operational analysis results. | |
| | |
| If "no," please explain why it was not conducted and if there are any plans to conduct operational analysis in the future: | |

### Performance Baseline BY08

Complete the following table to compare actual cost performance against the planned cost performance baseline. Milestones reported may include specific individual scheduled preventative and predictable corrective maintenance activities, or may be the total of planned annual operation and maintenance efforts.

What costs are included in the reported Cost/Schedule Performance information (Government Only/Contractor Only/Both)?      Contractor Only

Comparison of Plan vs. Actual Performance Table

| Milestone Number | Description of Milestone | Planned | | Actual | | Variance | |
|---|---|---|---|---|---|---|---|
| | | Completion Date | Total Cost | Completion Date | Total Cost | Schedule (# days) | Cost |
| 1 | Single Family Modernization Project/Single Family Integration System | 12/15/2010 | $59.250 | 07/26/2005 | $2.570 | 1967 | $56.680 |
| 1.1 | FY 2004 Tasks | 09/29/2006 | $4.580 | 07/26/2005 | $2.570 | 429 | $2.010 |
| 1.1.1 | FY2004 Tasks (FRONTLINE) | 07/01/2005 | $2.000 | 07/01/2005 | $1.770 | 0 | $0.230 |
| 1.1.1.1 | FY 2003/2004 Development Tasks - Frontline (old Tasks) | 02/03/2005 | $1.020 | 01/24/2005 | $0.790 | 9 | $0.230 |
| 1.1.1.2 | FY2003/2004 Tasks - FRONTLINE (new Mod excluding funds above) | 07/01/2005 | $0.980 | 07/01/2005 | $0.980 | 0 | $0.000 |
| 1.1.2 | FY 2004 Tasks (IES) | 09/29/2006 | $2.580 | 07/26/2005 | $0.800 | 429 | $1.780 |
| 1.1.2.1 | FY2004 Development Tasks | 09/29/2006 | $2.580 | 07/26/2005 | $0.800 | 429 | $1.780 |
| 1.2 | FY 2005 Tasks | 10/26/2007 | $7.470 | | | | |
| 1.2.1 | FY 2005 Development Tasks for IES | 01/31/2007 | $0.320 | | | | |
| 1.2.1.1 | A. Project Initiation/Planning | 01/31/2007 | $0.040 | | | | |
| 1.2.1.2 | B. System Analysis Define Phase | 09/08/2006 | $0.070 | | | | |
| 1.2.1.3 | B. System Analysis - Middleware Support | 09/04/2006 | $0.180 | | | | |
| 1.2.1.4 | C. System Design | 12/18/2006 | $0.030 | | | | |
| 1.2.2 | FY2005 Development Tasks for Module 1 | 12/07/2006 | $2.930 | | | | |
| 1.2.2.1 | C. System Design Phase for LOM Module 1 | 12/07/2006 | $2.930 | | | | |
| 1.2.3 | FY 2005 Development Tasks for IV&V Phase | 10/30/2006 | $0.500 | | | | |
| 1.2.3.1 | A. Project Initiation/Planning | 12/26/2005 | $0.250 | | | | |
| 1.2.3.2 | B. Requirements Definitition | 10/30/2006 | $0.250 | | | | |
| 1.2.4 | FY2005 Development Tasks (F11 and CARS) | 10/26/2007 | $0.800 | | | | |
| 1.2.4.1 | Client Activity Report System - CARS(P217)-PCAS 663400 | 09/28/2007 | $0.360 | | | | |
| 1.2.4.2 | Housing Counseling System (F11)-PCAS 663400 | 10/26/2007 | $0.440 | | | | |
| 1.2.5 | FY 2005 Development Tasks (TransAccess) | 08/28/2006 | $1.740 | | | | |
| 1.2.5.1 | A. Project Initiation/Planning | 02/01/2006 | $0.200 | | | | |
| 1.2.5.2 | G.Systems Integration and Testing | 08/28/2006 | $1.540 | | | | |
| 1.2.6 | FY 2005 Development Tasks - Hardware | 12/23/2005 | $1.180 | | | | |
| 1.2.6.1 | E. Hardware/Infrastrue Acquisition | 12/23/2005 | $1.180 | | | | |
| 1.3 | FY 2006 Tasks | 12/15/2010 | $27.500 | | | | |
| 1.3.1 | FY 2006 Development Tasks X98 | 12/15/2010 | $16.800 | | | | |
| 1.3.1.1 | a. Project Initiation/Planning | 08/06/2007 | $0.200 | | | | |
| 1.3.1.2 | c. System Design | 10/08/2007 | $2.500 | | | | |
| 1.3.1.3 | e. Hardware/Infrastructure Acquisition | 03/01/2007 | $0.250 | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1.3.1.4 | f. New Development/Perfective Maintenance Modules 2-7 | 07/12/2010 | $10.150 | | | | |
| 1.3.1.5 | g. System Integration and Testing | 04/07/2010 | $2.500 | | | | |
| 1.3.1.6 | h. Installation and Deployment | 12/15/2010 | $1.200 | | | | |
| 1.3.2 | FY 2006 Maintenance Tasks | 09/29/2008 | $10.700 | | | | |
| 1.3.2.1 | FY 2006 Maintenance Tasks (A80S) | 10/02/2007 | $3.080 | | | | |
| 1.3.2.2 | FY 2006 Maintenance Tasks (F12) | 10/01/2007 | $1.050 | | | | |
| 1.3.2.3 | FY 2006 Maintenance Tasks (F57) | 09/28/2007 | $0.370 | | | | |
| 1.3.2.4 | FY 2006 Maintenance Tasks (F51) | 09/28/2007 | $0.580 | | | | |
| 1.3.2.5 | FY 2006 Maintenance Tasks (F51A) | 10/02/2007 | $0.270 | | | | |
| 1.3.2.6 | FY 2006 Maintenance Tasks (F17C) | 09/28/2007 | $1.530 | | | | |
| 1.3.2.7 | FY2006 Maintenance Tasks - (A80W) | 09/28/2007 | $0.520 | | | | |
| 1.3.2.8 | FY2006 Maintenance Tasks - (D64A) | 09/29/2008 | $0.820 | | | | |
| 1.3.2.9 | FY 2006 Maintenance Tasks - (F11) | 09/28/2007 | $0.090 | | | | |
| 1.3.2.10 | FY2006 Maintenance Tasks - (F17) | 09/28/2007 | $2.090 | | | | |
| 1.3.2.11 | FY2006 Maintenance Tasks - LASS (P096) | 10/03/2007 | $0.200 | | | | |
| 1.3.2.12 | FY 2006 Maintenance Tasks (P177) | 10/04/2007 | $0.100 | | | | |
| 1.4 | FY 2007 Tasks | 02/26/2010 | $19.700 | | | | |
| 1.4.1 | FY 2007 Development Tasks | 02/26/2010 | $11.210 | | | | |
| 1.4.1.1 | FY 2007 Development Tasks (X98) | 02/26/2010 | $11.210 | | | | |
| 1.4.2 | FY 2007 Maintenance Tasks | 01/15/2010 | $8.490 | | | | |
| 1.4.2.1 | FY 2007 Maintenance Tasks (X98) | 01/15/2010 | $0.910 | | | | |
| 1.4.2.2 | FY 2007 Maintenance Tasks (A80S) | 10/02/2008 | $1.370 | | | | |
| 1.4.2.3 | FY 2007 Maintenance Tasks (F12) | 10/03/2008 | $0.990 | | | | |
| 1.4.2.4 | FY 2007 Maintenance Tasks (F57) | 09/30/2008 | $0.360 | | | | |
| 1.4.2.5 | FY 2007 Maintenance Tasks (F51) | 10/06/2008 | $0.500 | | | | |
| 1.4.2.6 | FY 2007 Maintenance Tasks (F51A) | 10/08/2008 | $0.320 | | | | |
| 1.4.2.7 | FY 2007 Maintenance Tasks (F17C) | 09/29/2008 | $1.110 | | | | |
| 1.4.2.8 | FY2007 Maintenance Tasks - (A80W) | 09/29/2008 | $0.390 | | | | |
| 1.4.2.9 | FY2007 Maintenance Tasks - (D64A) | 09/29/2008 | $0.690 | | | | |
| 1.4.2.10 | FY 2007 Maintenance Tasks - (F11) | 09/30/2008 | $0.110 | | | | |
| 1.4.2.11 | FY2007 Maintenance Tasks - (F17) | 09/29/2008 | $1.280 | | | | |
| 1.4.2.12 | FY2007 Maintenance Tasks - LASS (P096) | 10/01/2008 | $0.460 | | | | |
| **Project Totals** | | 12/15/2010 | $59.250 | 07/26/2005 | $2.570 | 1967 | $56.680 |

## IV.A: E-GOV AND LINES OF BUSINESS OVERSIGHT BY08

*Partners BY08*

Part IV should be completed only for investments identified as an E-Gov initiative or a Line of Business(LOB), i.e., selected the E-Gov and LOB Oversight choice in response to Question 6 in Part I, Section A above. Investments identified as E-Gov and LOB Oversight will complete only Parts I and IV of the exhibit 300.

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

As a joint exhibit 300, please identify the agency stakeholders. Provide the partner agency and partner agency approval date for this joint exhibit 300.

Stakeholder Table

| Partner Agency Name | Partner Agency | Joint Exhibit Approval Date |
|---|---|---|

*Partnering Strategies BY08*

Provide the partnering strategies you are implementing with the participating agencies and organizations. Identify all partner agency capital assets supporting the common solution; Managing Partner capital assets should also be included in this joint exhibit 300. These capital assets should be included in the Summary of Spending table of Part I, Section B. (Partner Agency Asset UPIs should also appear on the Partner Agency's exhibit 53)

Partner Capital Assets within this Investment

| Partner Agency Name | Partner Agency | Partner Agency Asset Title | Partner Agency Exhibit 53 UPI (BY2008) |
| --- | --- | --- | --- |

### *Partner Funding BY08*

For jointly funded initiative activities, provide in the "Partner Funding Strategies Table": the name(s) of partner agencies; the UPI of the partner agency investments; and the partner agency contributions for CY and BY. Please indicate partner contribution amounts (in-kind contributions should also be included in this amount) and fee-for-service amounts. (Partner Agency Asset UPIs should also appear on the Partner Agency's exhibit 53. For non-IT fee-for-service amounts the Partner exhibit 53 UPI can be left blank)

Partner Funding Strategies

| Partner Agency Name | Partner Agency | Partner exhibit 53 UPI (BY2008) | CY Contribution | CY Fee-for-Service | BY Contribution | BY Fee-for-Service |
| --- | --- | --- | --- | --- | --- | --- |

### *Analysis Background BY08*

An Alternatives Analysis for E-Gov and LOB initiatives should also be obtained. At least three viable alternatives, in addition to the current baseline (i.e., the status quo), should be included in the joint exhibit 300. 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.

| | |
| --- | --- |
| Did you conduct an alternatives analysis for this project? | Yes |
| If "yes," what is the date of the analysis? | 7/12/2006 |
| If "no," what is the anticipated date this analysis will be completed? | |
| If no analysis is planned, please briefly explain why: | |

### *Alternatives Table BY08*

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

Alternatives Analysis Results

| Send to OMB | Alternative Analyzed | Description of Alternative | Risk Adjusted Lifecycle Costs estimate | Risk Adjusted Lifecycle Benefits estimate |
| --- | --- | --- | --- | --- |
| True | 1 | Status Quo is a collection of disparate systems processing information and supporting the business functions of Single Family. These systems are stove-pipe legacy mainframe-computer applications. They were typically coded in the COBOL and were implemented on either the IBM or Unisys mainframe computer platforms. They utilize a variety of data management technologies, from the use of flat files to relational database management systems. | 293891.4 | 0 |
| True | 2 | The Enhancement to the Status-Quo would modify each of the existing legacy systems to include the missing and required functionality to meet the needs of Single Family and their customers. These enhancements would also improve integration between all systems within Single Family as well as other HUD systems, and those of Single Family's stakeholders. The support of Enhancement to the Status-Quo would require the same maintenance costs as that provided for the current legacy systems. | 356167.3 | 0 |
| True | 3 | New Development will provide state-of-the-art support for the business functions and needs of FHA Single Family and their business partners. SF Integration is a system comprised of five modules: Loan Origination; Loan Insurance Management; Asset Management; Business | 213460.4 | 74244.1 |

| Send to OMB | Alternative Analyzed | Description of Alternative | Risk Adjusted Lifecycle Costs estimate | Risk Adjusted Lifecycle Benefits estimate |
|---|---|---|---|---|
| | | Partner Approval & Monitoring; Business Intelligence. There will be a single shared date base providing timely and accurate information, improve reporting capabilities, and providing more informed business decisions. | | |
| True | 4 | The COTS alternative would be a mix of as many as three vendor software solutions requiring the procurement of software, hardware, and licenses from each of the vendors. Each system would be separately designed with functionality to support each of Single Family's business function. Each system would also operate within its own separate database. The systems would be integrated, sharing data to meet needs of their users. The COTS solution would be integrated with other systems within HUD. | 244080.8 | 52944.1 |

*Selected Alternative BY08*

Which alternative was selected by the Initiative Governance process and why was it chosen?

The following is a summary of the alternative analysis which was completed for the Single Family Integration system: Alternative 3, New Development was selected based on the costs and benefits associated with each of the four alternatives. A summary of the cost/benefit analysis that was conducted for each alternative and is provided below (costs and benefits are presented in discounted thousands of dollars): Alternative 3, New Development, Total Costs: $213,460.4 Total Benefits: $74244.1 Net Present Value: $53,394.8 ROI: 356%. Alternative 3 presents the best overall value to the Department. This selection will reduce redundancy, improve data accuracy, provide improvements in technology and performance provide increased service levels to customers, and provide a better product. A Risk based Adjustment of 40% was made to Alternative 3. Theses adjustments were made to the following cost categories Requirements, New Development, Integration & Training, Installation, and System Design. The basis for this adjustment is from program history - due to a lack of system documentation, and undocumented business processes. Alternative 1, Status Quo, Total Costs: $293,891.4 Benefits: $0 Incremental Net Present Value: $0 ROI: 0.0%. There is not any recognized benefit with this alternative since Single Family would continue to operate with the same core systems, and continue to be cited for the same system deficiencies. Alternative 2, Enhancement to Status Quo, Total Costs: $356,167.3 Total Benefits: $0 Net Present Value: $-44,458.3 ROI: -1868%. Though there would be some enhancements made to the existing core systems Enhancement to the Status Quo was not selected for the same reasons as Alternative 1. Alternative 4, COTS, Total Costs: $244,080.8 Total Benefits: $52,944.1 Net Present Value: $27,071.5 ROI: 205.0 %. A Risk based Adjustment of 30% was made to Alternative 4. Theses adjustments were made to the following cost categories Requirements, New Development, Integration & Training, Installation, and System Design. The basis for this adjustment is from program history - due to a lack of system documentation, and undocumented business processes. The COTS alternative, while attractive, does not offer a higher benefit or a higher ROI for the department than Alternative 3, New Development. Alternative 3 has the highest Return on Investment of 356% and offers the best value to the Department. The net present value for the alternative is estimated at $53.4 million.

What specific qualitative benefits will be realized?

The following are the qualitative benefits of the New Development alternative: Data Integration and Sharing Data integration and sharing supports not only improved process efficiency, but it also offers the opportunity to improve management's administrative and operational ability to analyze the relationships in the shared data.

Single Data Entry. The current information system environment consists of many stove-piped systems. This necessitates multiple data entries and increases the potential of data errors. With the New Development alternative, data will only need to be entered and validated once. E-Business As industry analysts had predicted, E-Business has become a dominant factor in recent years. The Mortgage Banking Industry has been compelled to invest in the infrastructure to conduct business operations in the electronic medium. The new system will accommodate features such as the integration of public key infrastructure and encrypted network access to allow Single Family to take advantage of the new business-to-business or business-to-customer technologies.

Performance Data. To transform HUD into an agency in which responsibility matches accountability, it is necessary to have access to the data and analytical capabilities to monitor program performance. With

the new system, Single Family will be better able to generate performance information and gauge how well programs are performing compared to their expected goals.

Integrate Functions and Processes. The implementation of a well-designed and managed information technology architecture will encourage the integration of functions, processes, and resources throughout the enterprise to produce a value-added investment.

Streamlined Operations. The New Development solution will contribute to streamlining and consolidating operations by aligning business processes with the supporting information systems and technology. By accomplishing this benefit Single Family personnel will be able to devote more time to analysis and meeting customer needs.

Enhance Customer Services. Through the development and operation of the SFIntegration system become more efficient streamlined processes, timely and accurate information, stronger and more efficient program monitoring, and enhanced reporting capabilities. These system improvements will enable Single Family to deliver enhanced services to their customers - Home Buyers, Lenders, and HUD staff.

*Quantitative Benefits BY08*
What specific quantitative benefits will be realized (using current dollars) Use the results of your alternatives analysis to complete the following table:

Federal Quantitative Benefits

| | Budgeted Cost Savings | Cost Avoidance | Justification for Budgeted Cost Savings | Justification for Cost Avoidance |
|---|---|---|---|---|
| PY - 6 2000 | 0 | 0 | | |
| PY - 5 2001 | 0 | 0 | | |
| PY - 4 2002 | 0 | 0 | | |
| PY - 3 2003 | 0 | 0 | | |
| PY - 2 2004 | 0 | 0 | | |
| PY - 1 2005 | 0 | 0 | | |
| PY 2006 | 0 | 0 | | |
| CY 2007 | 0 | 0 | | |
| BY 2008 | 0 | 0 | | |
| Total LLC Benefit | 0 | 0 | | |

## IV.B: RISK MANAGEMENT BY08

*Risk Management Plan BY08*
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.

| | |
|---|---|
| Does the investment have a Risk Management Plan? | Yes |
| What is the date of the risk management plan? | 5/31/2006 |
| Has the Risk Management Plan been significantly changed since last year's submission to OMB? | No |
| If "yes," describe any significant changes to the Risk Management Plan: | |
| If there currently is no risk plan, will a plan be developed? | |
| If "yes," what is the planned completion date of the risk plan? | |
| If "no," what is the strategy for managing the risks? | |

*Investment Risks BY08*

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

The project risks are documented in the project's Risk Management Plan. For each risk, the project assigns a risk priority and risk level. The risk level is assigned according to the risk impact and risk probability. The project also identifies and tracks the status of the mitigation strategy for each risk. The SFIntegration Project plan takes into account the risk impact, probability, cost of the mitigation strategy and potential cost if the risk were to occur when estimating the budget for each phase in the development cycle. If a risk mitigation strategy impacts the project schedule, the project release schedule is updated and the impact to future development activities is analyzed and adjusted if necessary.

## IV.C: COST AND SCHEDULE PERFORMANCE BY08

*Earned Value BY08*

You should also periodically be measuring the performance of operational assets against the baseline established during the planning or full acquisition phase (i.e., operational analysis), and be properly operating and maintaining the asset to maximize its useful life. Operational analysis may identify the need to redesign or modify an asset by identifying previously undetected faults in design, construction, or installation/integration, highlighting whether actual operation and maintenance costs vary significantly from budgeted costs, or documenting that the asset is failing to meet program requirements.

Answer the following questions about the status of this investment. Include information on all appropriate capital assets supporting this investment except for assets in which the performance information is reported in a separate Exhibit 300.

| | |
|---|---|
| Are you using EVM to manage this investment? | |
| Does the earned value management system meet the criteria in ANSI/EIA Standard - 748? | Yes |
| If "no," explain plans to implement EVM: | |

Please provide a brief summary of the operational analysis results.

This sub-sections questions are NOT applicable for capital assets with ONLY O&M

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):

| | |
|---|---|
| What costs are included in the reported Cost/Schedule Performance information (Government Only/Contractor Only/Both)? | Contractor Only |
| EVMS "As of" date: | 6/30/2006 |
| What is the Planned Value (PV)? | 5.054500 |
| What is the Earned Value (EV)? | 3.519400 |
| What is the actual cost of work performed (AC)? | 3.517400 |
| What is the calculated Schedule Performance Index (SPI = EV/PV)? | 0.696000 |
| What is the schedule variance (SV = EV-PV)? | -1.351000 |
| What is the calculated Cost Performance Index (CPI = EV/AC)? | 1.001000 |
| What is the cost variance (CV = EV-AC)? | 0.002000 |

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.

*Cost/Schedule Variance BY08*

| | |
|---|---|
| Is the CV% or SV% greater than 10%? (CV%= CV/EV x 100; SV%= SV/PV x 100) | No |
| If "yes," was it the CV or SV or both? | |
| If "yes," explain the variance: | |
| If "yes," what corrective actions are being taken? | |
| What is the most current "Estimate at Completion"? | 57329.500000 |

*Performance Baseline BY08*

This sub-sections questions are applicable to ALL capital assets.

| | |
|---|---|
| Have any significant changes been made to the baseline during the past fiscal year? | Yes |

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.
If "yes," when was it approved by OMB?

Comparison of Initial Baseline and Current Approved Baseline (EGov)

| Milestone Number | Description of Milestone | Initial Baseline | | Current Baseline | | | | Current Baseline Variance | | Percent Complete | Agency Responsible For Activity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Planned Completion Date | Total Cost (Estimated) | Completion Date | | Total Cost | | Schedule (# days) | Cost | | |
| | | | | Planned | Actual | Planned | Actual | | | | |
| **Project** | | | | | | | | | | | |