#### Architecture Program

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| Federal Enterprise Architecture (FEA) | * Office of Management and Budget has extensive EA guidance and documentation (<http://www.whitehouse.gov/omb/e-gov/FEA>) * Size and scope are too large for direct use by DOR |

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| FEA Architectural Levels | |  |  | | --- | --- | | Architecture | Relates To | | Enterprise | Strategic level planning | | Segment | Business functions such as debt collection | | Solution | IT systems and solutions | |

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| FEA Components | |  |  | | --- | --- | | Component | Function | | Enterprise Assets | Inventory | | Reference Models | Descriptions, documentation, and metrics of enterprise assets | | Segments | Business functions | |

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| FEA Segment Example |  |

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| Roles | |  |  | | --- | --- | | Role | Description | | Enterprise Solution Architect | From Gartner: The enterprise solution architect (ESA) addresses the conceptual/planning level of the application architecture in collaboration with other architects focused on the needs of the technology, business, and information architectures. The ESA ensures that the application portfolio evolves at an appropriate rate and does not become unviable as the other related architectures change. The ESA also provides the reusable standards, guidelines, patterns and frameworks to application development projects, including those related to application architecture. | | Solution Architect | From Gartner: At the project-level, solution architects make sure that all aspects of the application solution architecture are optimized (as much as possible given other constraints of time and budget) by working with subject matter experts (SMEs) in the areas of technology, information and application architectures and disciplines. The application architect is the SME focused on designing application interfaces and software services to maximize reuse based on the business processes and governance rules for sharing. | | Enterprise Data Architect | From the Ettain Group: The Enterprise Data Architect (EDA) ensures that enterprise data assets are effectively managed and utilized to support the organization’s strategic goals. This role will be responsible for applying principles, theories, and concepts to analyzing and modeling data to promote the enterprise-wide sharing and management of those data assets. The EDA will lead the effort in expanding the use of data as a strategic enabler of goals and objectives, and will lead the implementation of the data management function for the organization, including ensuring the data quality, data modeling, and data standards, as well as maintaining overall accountability for enterprise data. The EDA also will define data-gathering requirements, manage, investigate, and resolve data quality issues, conduct data analysis and mining, and design and implement reporting solutions. This role will be the lead in normalizing data and developing a common language for data definitions across the organization. | | Infrastructure Architect | From MSDN: Infrastructure architects take the requirements and constraints defined by the ESA, collaborate with the solutions architect, and design the supporting environment for the solution defined by the solutions architect. They do this by specifying a top level design for a given solution, while adhering to a given set of constraints specified by the enterprise architect and the solution architect. | | Technology Evangelist | From some blog: What do technology evangelists do? They help people understand and make the most of new technologies. It’s not as straightforward as showing someone a new tool and expecting them to hit the ground running. They look for success stories and share those. They look for people who have the potential to create success stories and they support them. They look for patterns of use that are working well, and they experiment to make them even better. They write, make presentations, and even develop tools. They help keep things going. They coach people. They also help people navigate the organization, connecting people with developers, business people, experts, or other people as needed. | | Enterprise Security Architect | The Security Architect will primarily be responsible for designing, building, and improving security solutions. The Security Architect will collaborate with relevant business areas and communicate the strategic direction of overall Information Security. This position demands an extensive knowledge of risk management, information security and computing technologies. The Security Architect must keep abreast of regulatory / legal changes, and evolving industry practices to ensure the global technical security architecture enables cost effective security to be delivered as an integral part of overall IT service offerings. | |

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| Responsibilities | |  |  | | --- | --- | | Amy Bosler | Infrastructure Architect (Network) | | Betty Adams | Infrastructure Architect (Application servers) | | Brad Grunefelder | Solutions Architect (Legacy systems) | | Brian Smith | Infrastructure Architect (AD and operating systems) | | Gary Dubuque | Technology Evangelist | | Jason Dunnagan | Solutions Architect (Non-STAR and non-legacy systems) | | John Garrison | Enterprise Solutions Architect | | Kurt Wieburg | Infrastructure Architect (Mainframe) | | Ryan Dolby | Solutions Architect (STAR and FT) | | Steve Wolford | Enterprise Data Architect | | (None) | Enterprise Security Architect | |

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| Duties | |  |  | | --- | --- | | Role | Duties | | Enterprise Solution Architect | * Lead and coordinate the efforts of the other architects * Document line of business and functional architecture * Establish and standards and guidelines * Develop metrics and dashboards for IT performance * Develop a process to maintain the application portfolio and other inventories of enterprise assets * Establish a process to maintain the list of authorized development technologies * Serve as the primary technical contact for interagency IT projects | | Solution Architect | * Design and document systems * Monitor compliance with policies and standards * Collaborate with project managers and technical leads to provision estimates and develop overall implementation plans * Mentor and guide junior developers | | Enterprise Data Architect | * Document the design and meaning of agency data | | Infrastructure Architect | * Design and document networks, servers, and network based COTS systems * Document and standardize configurations | | Technology Evangelist | * Research new technology and analyze trends | | Enterprise Security Architect |  | |