IT Solutions Lifecycle Management (ITSLCM) Framework

Legend:
◆ Go/No-Go Governance Gate Review ◆ Gov. Review
⬭ IPT Review ● Roles ⬤ Deliverables [D]
IT Standards (S) & Guidance (G)

Phases: Need/Concept | Planning | Execution (Development, Modernization, Enhancement and Maintenance) | Operations and Disposition

Program Management

Gate Reviews:
- IT Program (Authorization) Registration Review
- ITPRB (IT Portfolio Review)
- ITPRB (Prioritize Review)
- ITPRB (Semi-Annual Program Review)
- ITPRB (Annual OA)
- ITPRB (Disposition Review)

Roles:
- BUSINESS PROGRAM MANAGER
- IT PROGRAM MANAGER
- INTEGRATED PROGRAM TEAM (IPgT)
  - ➤ CHIEF ENTERPRISE ARCHITECT (CEA)
  - ➤ RELEASE MANAGER
  - ➤ CONTRACTING OFFICER
  - ➤ INFORMATION SYSTEM SECURITY MANAGER
- BUSINESS OWNER/SPONSOR
- STEERING/OVERSIGHT COMMITTEE

Need/Concept
- Requester reviews GetIT, Technical Reference Model (TRM), and mAppIT, or contact CEA at AskEA@pbgc.gov
- CEA reviews enterprise program solutions to determine resolution:
  - *EXISTING Solution*: Requester submits GetIT Request for Existing Solution
  - *ENHANCE EXISTING Solution*: Requester takes Modification Requirements to existing solution program manager; Business Program Manager (BPM) queues for Change Control Boards (CCBs) Prioritization
  - *New Business Need*: CEA schedules Business Needs Analysis (BNA) (w/ BPM Sponsor); Sponsor and CEA fund and secure resources necessary to conduct the BNA; conduct BNA.

Deliverables:
- IT Portfolio Registration Presentation [D]
- Business Need Analysis Document [D]
- Alternatives Analysis [D]

Standards:
- Business Needs Analysis (S)
- Alternatives Analysis (S)

Planning
- Build/Update IT Program Plan with IPgT:
  - Identify IPgT and define Roles and Responsibilities
  - Identify recommendations from BNA to address business and IT gaps, including system replacements
  - Determine strategic alignment
  - Conduct Alternatives Analysis and Cost Benefit Analysis
  - Develop Independent Government Cost Estimate (IGCE), including impacts to other programs
  - Develop Acquisition Strategy
  - Develop Risk, Issue, Quality, Configuration, Communication Plans and Matrices
  - Define program reporting/oversight
  - Prioritize program requirements and program schedule with IPgT stakeholders
  - Finalize IT Program Plan
  - Reflect IGCE in departmental budget formulation/request

- Establish Program CCB
- Update IT Program Plan with results of product selection and refined IGCE
- Portfolio Manager evaluate prioritize IT Portfolio (w/Program Manager)
- BPIT Budget Recommendation;
- Portfolio Manager submit 53 & 300s

Review & Update Iteratively

Deliverables:
- IT Program Plan [D]
- Business Need Analysis Document [D]
- Alternatives Analysis [D]

Standards:
- Business Needs Analysis (S)
- Alternatives Analysis (S)

Execution
- Execute according to the IT Program Plan
- Maintain IT Program Plan
- Note: Information in IT Program Plan will be used for Semi-Annual Program Review
  - Perform program monitoring and reporting including cost and schedule performance using earned value (EV)

Deliverables:
- IT Program Plan [D]
- Program Performance Reports [D]

Operations and Disposition
- Bus Program Manager performs Operational Analysis (OA) on System Posture

Review & Update Iteratively

- Update IT Program Plan with authority to close out program and/or dispose of IT solution
- Close out program

Deliverables:
- IT Program Plan [D]

Project & Technology Management

Gate Reviews:
- TRB (Product Review)
- 1st CAB
- Requirements (Technology Solution Review)
- Design (Technology Solution Review)
- ITPRB (Quarterly Project Review)
- TRB (Design Review)
- Production Readiness Validation
- CAB (Production/COOP Deployment Review)
- Disposition Review

Roles:
- BUSINESS PROJECT MANAGER
- IT PROJECT MANAGER
- INTEGRATED PROJECT TEAM (IPT)
  - ➤ CONTRACTING OFFICER'S REPRESENTATIVE (COR)
  - ➤ ENTERPRISE ARCHITECT REPRESENTATIVE (COR)
  - ➤ IMPACTED PROJECT MANAGERS
  - ➤ RELEASE MANAGER/ANALYST (RM/A)
  - ➤ INFORMATION SYSTEM SECURITY OFFICER

Planning
- Select development approach
- Develop Cost Loaded Project Schedule
- Conduct Product and Technology Recommendation
- Develop high level design from high level requirements, including integration with other systems, and submit for CAB review
- Refine IGCE
- Develop Business Implementation Strategy Document (Large Projects)
- IT Project Manager develops high level project plan (w/Business Project Manager)
- COR completes IT Acquisition Checklist

Deliverables:
- Cost Loaded Project Schedule [D]
- Alternatives Analysis [D]

Standards:
- Alternatives Analysis (S)

Execution
Execute selected Development Approach

- COR executes Acquisition Plan
- Bus Prj Mgr develops Implementation & Training Plan
- IT Prj Mgr Execute Plan
  - Analyze & Document Requirements
  - Develop & Refine (if needed) Design Specifications
  - Manage/Monitor/Report Project Scope, Cost, Schedule, Risks, Quality, etc.
- ShareIT (SharePoint Site):
  - Dev environment needs, i.e., Service Request (Dev Team)
  - Dev and Test environment set up (RM/A Team)
  - Start Deployment/Installation Guide (Dev Team)
  - RM/A 1st CAB (if needed)

- IT Prj Mgr
  - Decide if Design Review is needed
    - Yes – Go to TRB Design Review Gate
    - No – Execute Plan (Pre-Deployment)
  - Develop/Configure Solution
  - Conduct Testing
  - ShareIT
  - Document Production Ops/Maintenance Needs in Operations Guide
  - Complete Deployment/Installation Guide
  - RM/A Submit RFC (For Deployment)
  - Deploy Solution
  - Bus Prj Mgr Execute Implementation & Training Plan
  - IT Prj Mgr Execute Plan (Post-Deployment)

- Stabilize the solution
- Grant access to users
- Set up service desk support
- Transition to Operations
- Execute Implementation Strategy and Training Plan
- Document Lessons Learned and Project Closeout

Deliverables:
- Requirements Document [D]
- Design [D]
- Lessons Learned Document [D]
- User Manual [D]
- Implementation & Training Plan [D]
- Test Plan, Test Scripts & Test Results [D]
- Deployment/Installation Guide [D]
- Solution Environment Plan [D]
- Operations Guide [D]

Standards:
- Requirements Document (S)
- Design (S)
- Development (S)
- Enterprise Data (S)
- Software Services (S)
- Implementation & Training Plan (S)
- Lessons Learned Document (S)
- Testing Guidance (G)*
- Deployment/Installation Guidance (G)*
- Solution Environment Guidance (G)*

*Found in the OIT ITSLCM Supplemental Guide

Operations and Disposition
- ShareIT
  - Execute operations activities (IT Prj Mgr, infrastructure, and application teams)

Update & Maintain Iteratively

- ShareIT
  - RM/A Submits Disposition RFC
- Perform monitoring and reporting (i.e., provide updates to IT Program Plan)
- ShareIT
  - RM/A Submits Disposition RFC

Cybersecurity and Privacy

Gate Reviews:
- Post-Assessment Controls Review
- ATO (Go Live)
- Ongoing Authorization Review
- Disposition Process Review

Roles:
- INFORMATION SYSTEM OWNER/INFORMATION OWNER
- INFORMATION SYSTEM SECURITY OFFICER/
- JNFORMATION SYSTEM SECURITY MANAGER
- AUTHORIZING OFFICIAL
- CHIEF INFORMATION SECURITY OFFICER (CISO)
- SENIOR AGENCY OFFICIAL FOR PRIVACY (SAOP)
- CHIEF PRIVACY OFFICER (CPO)
- INDEPENDENT ASSESSOR

Planning
- Review Risk Management Framework (RMF) process to determine the list of required security and privacy activities, deliverables, and reviews
- Complete required security and privacy deliverables

Deliverables:
- Required RMF Deliverables

Standards:
- Cybersecurity and Privacy Catalog (S)
- RMF Process (G)
- System of Records Notice (SORN) Guide (G)
- Privacy Impact Assessment (PIA) Guide (G)
- Interconnection Security Agreement (ISA) (G)

Execution
- Review RMF process to determine the list of required security and privacy activities, deliverables, and reviews
- Complete required security and privacy deliverables

Deliverables:
- Required RMF Deliverables
- Security and Privacy Authorization Package [D]

Standards:
- Cybersecurity and Privacy Catalog (S)
- RMF Process (G)
- Enterprise Continuous Monitoring (ECM) Plan (G)
- Information System Continuous Monitoring (ISCM) Plan (G)

Operations and Disposition
- Review RMF process to determine the list of required security and privacy activities, deliverables, and reviews
- Complete required security and privacy deliverables

Continuous Monitoring

Deliverables:
- Required RMF Deliverables

Standards:
- Cybersecurity and Privacy Catalog (S)
- RMF Process (G)
- PIA Guide (G)

External Processes

Need/Concept	Planning	Execution	Operations and Disposition
IT Risk Management	IT Risk Management	Configuration Management	Configuration Management
	Acquisition	Acquisition	Change Management
	Budget Formulation & Execution	Release and Deployment Management	IT Risk Management
	Configuration Management	Change Management	IT Service/Incident/Problem Management
	Release and Deployment Management	IT Risk Management	Acquisition
		IT Service/Incident/Problem Management	

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