BBG/Voice of America's
2009 Enterprise Architecture Transition Plan

IT Segments with Architecture Codes for 2010 Enhancements

BBG/VOICE OF AMERICA'S 2009 ENTERPRISE ARCHITECTURE TRANSITION PLAN 1

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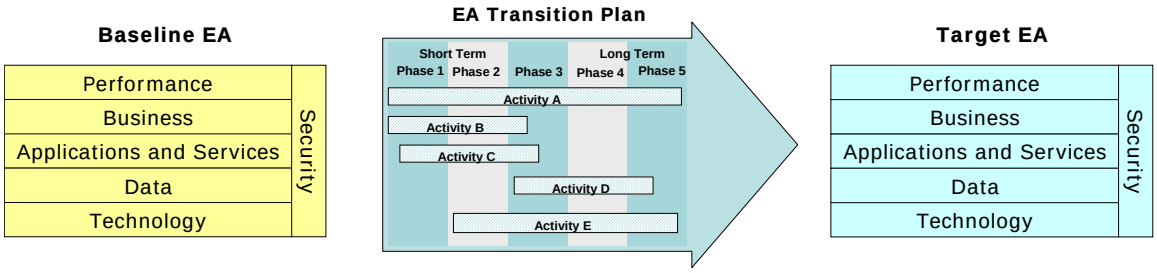
1.0 Introduction

BBG/VOA's Enterprise Architecture Transition Plan (EATP) identifies and sequences transition activities at the strategic level. It is not a detailed project plan and does not encompass a work breakdown structure for all of the operational activities required to realize the desired target state. Detailed implementation planning for individual transition activities is the responsibility of the program and project managers tasked with executing those portions of the plan. The EATP focuses solely on the individual transition activities. It contains an updated transition sequencing chart, and summary information for each transition activity.

The Enterprise Architecture Transition Plan is a high-level strategic roadmap for information technology modernization. It is a plan to achieve BBG/VOA's Target Enterprise Architecture (EA) including target performance goals, business processes, applications and services, technology, data, and security. A simple conceptual representation is provided in figure 1 below.

Figure 1 – EA Transition Plan Conceptual Representation



1.1 Intended Audience

BBG/VOA's Transition Plan presents a high-level roadmap for moving VOA toward the Target EA. All VOA executives, managers, and staff are encouraged to read, discuss, and comment on this document. The primary focus for specific VOA stakeholder groups is summarized below:

- **VOA Executives** – As the primary force within VOA responsible for ensuring that the agency fulfills its mission and progresses toward its vision, VOA executives must understand and support the roadmap set forth in the Transition Plan and participate in efforts to implement it.

- **IT Directorate/VOA Program and Business managers** – All IT Directorate and VOA program managers should be familiar with Transition Plan. As members of the office with primary responsibility for planning and deploying systems and technology in support of the Agency's business,

program and business managers need to understand the transition activities required to move VOA to the Target EA:

- **The Office of Management and Budget (OMB)** – As part of the budget submission process, BBG will submit the Transition Plan and other EA work products to OMB. OMB will use the Transition Plan to determine whether BBG has a cohesive roadmap to shift VOA to the Target EA.

2.0 Segment Architecture and the Federal Transition Frame Work

OMB's Chief Federal Enterprise Architect introduced two strategic priorities into the federal enterprise architecture. They are segment architecture and the Federal Transition Framework (FTF). Agencies are now required to develop mission-focused EA segments of their core business activities, and integrate the cross-agency initiatives from the FTF (e.g. HSPD-12, IPv6) into their agency's target architecture.

2.1 EA Transition Plan and Segment Sequencing

The 2009 EATP plan defines and sequences segment transition activities within three categories:

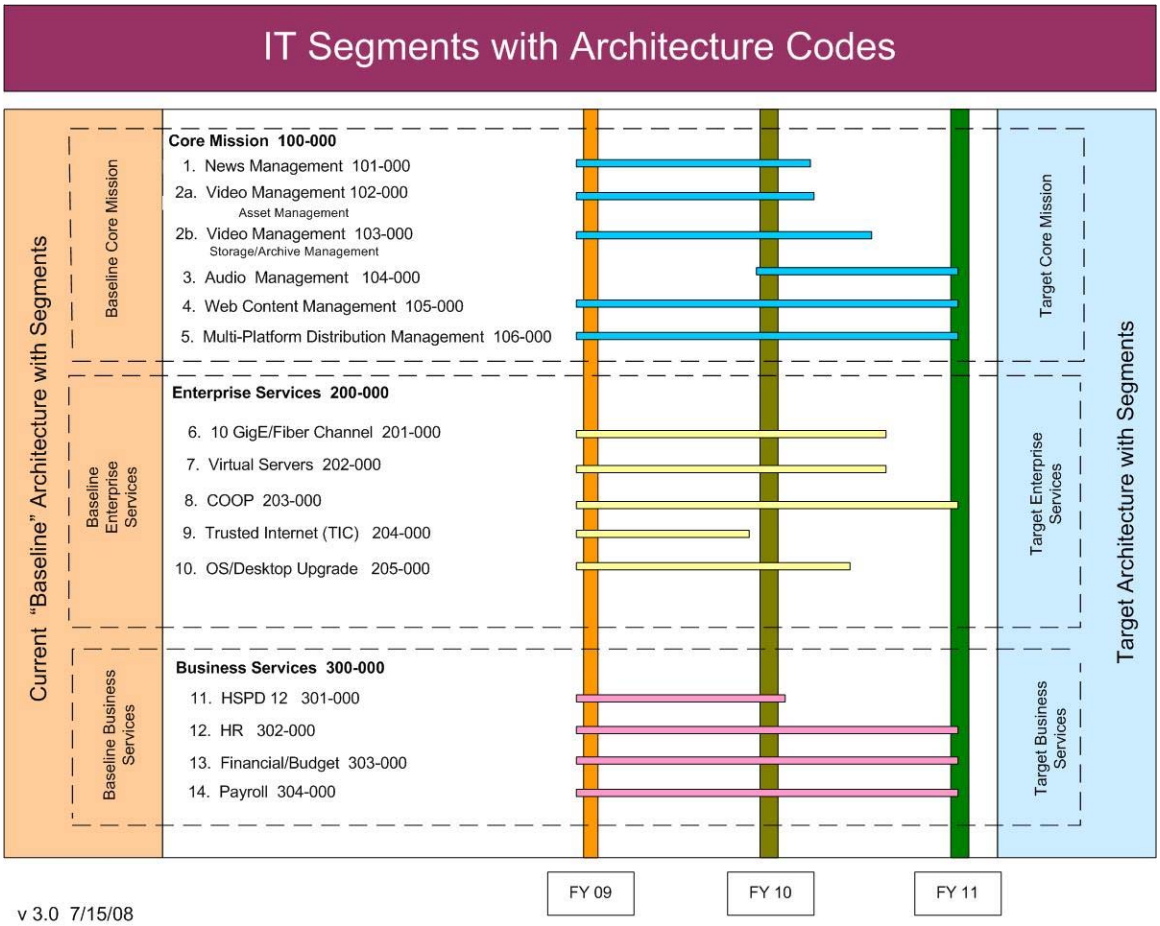
- **Core Mission** – These activities are associated with developing and implementing a detailed architecture for a mission area (e.g. Multi-Media System). A core mission area represents a ***strategic view*** of VOA's business (i.e., why VOA exists).

- **Enterprise Services** – These activities are associated with developing and implementing a next generation IT Infrastructure (e.g. IPV6).

- **Business Services** – These activities are associated with identifying, selecting, planning for, and implementing Support services (e.g. Payroll).

Figure 2 shows a high-level view of all 14 transition segment activities addressed in this EATP. The overview displays transition activities by type (i.e., overarching activities, mission areas, enterprise services and business services) for each fiscal year in the planning period.

Figure 2 – Transition Plan Sequencing



3.0 Transition Activity Details

This section of the Transition Plan provides a brief overview for each transition activity identified and sequenced. The following information has been collected for each transition activity:

- **Description** – This field contains a brief summary explaining the scope of the transition activity.
- **Implementation Schedule** – Identifies the fiscal year the transition activity is to be initiated.
- **Sponsor(s)** – Identifies the champion(s)/benefactor(s) for the transition activity.
- **Major Investment(s)** – Identifies the major investment(s) found in the IT Portfolio associated to the transition activity.
- **Program or Project Managers** – Identifies the transition activities that need or are impacted by this transition activity.
- **Dependences or Relationships** – Identifies the transition activities that this transition activity needs or is impacted by.

Core Mission Architecture – Digital Media System

1) News Management System

EA Segment or Sub-Segment	**News Management System 101- 000**		
Description	**Baseline**	**Transition Plan**	**Target**
	Two next generation news management systems are being evaluated.	News management funding is secured and the contracting process is started. Initial deployment is scheduled for priority language services.	Next Generation news management system is fully implemented and deployed among all language services for both audio and video.
Implementation Schedule	FY 2009 1st Quarter	FY 2009 2ndQuarter	FY 2010 1st Quarter
Sponsor(s)	Voice of America Central News, IT Directorate		
Major Investment(s)	News Management System		
Dependencies or Relationships	Asset management, graphic management.		

2) Video Management System – (a) Media Asset Management

EA Segment or Sub-Segment	Video Management System – Media Asset Management 102- 000		
Description	**Baseline**	**Transition Plan**	**Target**
	Dalet Plus pilot asset management system implemented that demonstrates the storage, searching, and play out of digital video files. Enterprise Asset management system will replace current state of video files distributed by an ad hoc file share and portable devices.	Asset Management System is tested and deployed in priority language services.	Asset Management System is fully implemented and deployed among all language services and is capable of supporting the searching of graphic, web content, and audio files.
Implementation Schedule	FY 2009 1st Quarter	FY 2009 2nd & 3rd Quarters	FY 2010 3rd Quarter
Sponsor(s)	Voice of America, IT Directorate		
Major Investment(s)	Asset Management System		
Dependencies or Relationships	News Management, Web Management, Graphic Management, and Audio Management Systems.		

2) Video Management System – (b) Storage/Archive Management

EA Segment or Sub-Segment	Video Management System – Storage/Archive Management 103- 000		
Description	**Baseline**	**Transition Plan**	**Target**
	Currently VOA stores videos on tape. There is no digital video archive system. A pilot to demonstrate the centralization of online video storage has been started. Research continues on acquiring an archive system.	Archive and storage funding is secured and the contracting process is started. Plan and fund an interim archive solution.	Archive and video storage system is fully implemented and deployed among all language services currently producing television programming
Implementation Schedule	FY 2009 1st Quarter	FY 2009 2nd & 3rd Quarters	FY 2010 3rd Quarter
Sponsor(s)	IT Directorate, Voice of America		
Major Investment(s)	Archive Management System		
Dependencies or Relationships	Media Asset Management		

3) Audio Management System

EA Segment or Sub-Segment	Audio Management System 104- 000		
Description	**Baseline**	**Transition Plan**	**Target**
	Based on System Development Lifecycle, current audio editing system is scheduled to be replaced by a newer and more robust system in FY 2010/11.	Research and planning to select and procure a next generation audio editing system. Audio Management System funding is secured and the contracting process is started. Development and testing plan is completed.	Audio Management System is implemented and deployed among 40% of all language services.
Implementation Schedule	FY 2009 1st Quarter	FY 2009 4th Quarter/ FY 2010 1st Quarter	FY 2010 4th Quarter
Sponsor(s)	Voice of America, IT Directorate		
Major Investment(s)	Audio Management System – hardware, software, audio cards for desktops		
Dependencies	News Management, Media Asset Management, Web Management.		

4) Web Management System

EA Segment or Sub-Segment	Web Management System 105- 000		
Description	**Baseline**	**Transition Plan**	**Target**
	Research and planning is underway to select and procure a next generation web management system. Pilot system will be installed and evaluated.	New Web Management System is procured and implemented for priority services.	Web Management System is fully implemented and deployed among all language services.
Implementation Schedule	FY 2009 1st Quarter	FY 2009 3rd Quarter	FY 2010 3rd Quarter
Sponsor(s)	Voice of America, IT Directorate		
Major Investment(s)	Web Content Management System		

EA Segment or Sub-Segment	Web Management System 105- 000		
Dependencies or Relationships	News Management, Asset Management, Graphic Management.		

5) Multi-Platform Distribution Management System

EA Segment or Sub-Segment	Multi-Platform Distribution Management System 106- 000		
Description	**Baseline**	**Transition Plan**	**Target**
	Researching options to automate the distribution of multi-platform digital files to audiences, affiliates, and websites.	Procure and implement system to schedule, transcode, and distribute media files.	Implement multi-platform distribution system.
Implementation Schedule	FY 2009 1st Quarter	FY 2010 2nd Quarter	FY 2010 4th Quarter
Sponsor(s)	Voice of America, NCC, Traffic		
Major Investment(s)	Distribution Management System		
Dependencies or Relationships	Anystream, Akamai, Web Content Management System		

Enterprise Services Architecture – IT Infrastructure

6) 10 GigE/Fiber Channel

EA Segment or Sub-Segment	10 GigE/Fiber Channel 201- 000		
Description	**Baseline**	**Transition Plan**	**Target**
	Agency has replaced its ATM network link layer with a 10 GigE Ethernet backbone.	Research fiber channel and other high definition digital video requirements and update network infrastructure as funding permits.	10 GigE Ethernet and necessary fiber channel are implemented and capable of supporting of HD "editing in place" and the transferring of large media files.
Implementation Schedule	FY 2009 1st Quarter	FY 2009 4th Quarter	FY 2010 3rd Quarter
Sponsor(s)	IT Directorate		
Major Investment(s)	Ethernet, Fiber Channel		
Dependencies or Relationships	FCP Desktops, Dalet Plus, Omneon		
Investment Cost			

7) Virtualization of Servers

EA Segment or Sub-Segment	Virtualization of Servers 202- 000		
Description	**Baseline**	**Transition Plan**	**Target**
	Research and planning has started in an effort to reduce the number of agency servers in use. The current number of servers (300+) are consuming too much power, heat, and system administration staff time.	Leverage server virtualization applications to consolidate and reduce the number of as many servers as possible as funding permits.	Server virtualization is completed.
Implementation Schedule	FY 2009 1st Quarter	FY 2009 3rd	FY 2010 4th Quarter
Sponsor(s)	IT Directorate		
Major Investment(s)			

8) COOP

EA Segment or Sub-Segment	COOP 203- 000		
Description	**Baseline**	**Transition Plan**	**Target**
	COOP facilities have been installed and tested. Future planning has been started to review requirements for backing up audio and video files.	Funding Secured and research and procurement planning has started. Project plan prepared and approved.	Process in place to weekly back up and transfer video and audio files to COOP facility.
Implementation Schedule	FY 2009 1st Quarter	FY 2009 4th Quarter	FY 2010 4th Quarter
Sponsor(s)	Voice of America, IT Directorate		
Major Investment(s)			
Dependencies or Relationships	Intranet, Email, Video and Audio Management.		
Investment Cost			

9) Trusted Internet Connection

EA Segment or Sub-Segment	Trusted Internet Connection 204 - 000		
Description	**Baseline**	**Transition Plan**	**Target**
	Agency completed its Internet connection survey as per OMB's instructions. Waiting on additional instructions and guidance from OMB for procuring approved internet connection services.	Service providers selected from approved list and procurement process is started.	Approved contract with Internet service providers are in place.
Implementation Schedule	FY 2009 1st Quarter	FY 2009 3rd Quarter	FY 2009 4th Quarter
Sponsor(s)	IT Directorate, OCIO		
Major Investment(s)	Trusted Internet Connection		
Dependencies or Relationships	All Agency Internet Connections		

10) Operating System/ Desktops Hardware & Software Upgrade

EA Segment or Sub-Segment	Operating System/ Desktops Upgrade 205- 000		
Description	**Baseline**	**Transition Plan**	**Target**
	Agency is upgrading its operating systems from Windows 2000 to XP and migrating to MS Office. Agency is also refreshing existing desktops, and monitors. Approximately 50% installations completed.	Additional resources secured complete the upgrade.	Enterprise upgrade to XP is completed. Enterprise hardware refreshment is completed.
Implementation Schedule	FY 2009 1st Quarter	FY 2009 2nd Quarter	FY 2009 3rd Quarter
Sponsor(s)	VOA, IT Directorate, OCIO		
Major Investment(s)	XP Licensing, desktops and monitors, additional application software		
Dependencies or Relationships	All Agency Desktops and Servers		

Business Services Architecture

11) HSPD - 12

EA Segment or Sub-Segment	HSPD-12 301 - 000		
Description	**Baseline**	**Transition Plan**	**Target**
	In compliance with HSPD-12 agency has procured necessary hardware to generate physical security cards and maintenance service with a vendor.	HSPD -12 Development and testing plan is completed. Connectivity with OPM is tested and certified.	HSPD -12 system is fully operational and all BBG employees have been issued their new id cards.
Implementation Schedule	FY 2009 1st Quarter	FY 2009 2nd Quarter	FY 2010 1st Quarter
Sponsor(s)	IT Directorate, Office of Security		
Major Investment(s)	HSPD -12		
Dependencies or Relationships	Connectivity with OPM		

12) HR Segment

EA Segment or Sub-Segment	HR 302- 000		
Description	**Baseline**	**Transition Plan**	**Target**
	HR system is hosted by DOD/ Lockheed Martin Denver Data Center	Plan for HR/Payroll, Financial system consolidation	Consolidation of HR, Payroll and Financial systems with single vendor.
Implementation Schedule	FY 2009 1st Quarter	FY 2009 2nd Quarter	FY 2010 2nd Quarter
Sponsor(s)	HR, Budget, Payroll, IT Directorate, OCIO		
Major Investment(s)	CPMS System, Momentum		
Dependencies or Relationships	Payroll System, Momentum		

13) Financial/Budget/Contract Segment

EA Segment or Sub-Segment	Financial/Budgete/Contract 303- 000		
Description	**Baseline**	**Transition Plan**	**Target**
	BFMS and Prism have been replaced with a new system called Momentum hosted at Dept. of Interior's National Business Center.	Will need to maintain Prism for backup and archive until FY 09 Planning started for consolidation with HR & Payroll systems	Consolidate with HR & Payroll systems.
Implementation Schedule	FY 2009 1st Quarter	FY 2009 2nd Quarter	FY 2010 2nd Quarter
Sponsor(s)	CFO, OCIO, IT Directorate		
Major Investment(s)	Momentum		
Dependencies or Relationships	HR, HSPD-12, Payroll		
Investment Cost			

14) Payroll Segment

EA Segment or Sub-Segment	Payroll 304- 000		
Description	**Baseline**	**Transition Plan**	**Target**
	Agency has completed transfer from State Department payroll to DFAS system.	Research and planning as to how to consolidate HR and Payroll	Consolidate with HR system.
Implementation Schedule	FY 2009 1st Quarter	FY 2009 2nd Quarter	FY 2010 2nd Quarter
Sponsor(s)	CFO, OCIO, IT Directorate		
Major Investment(s)	DFAS		
Dependencies or Relationships	HR, HSPD-12		