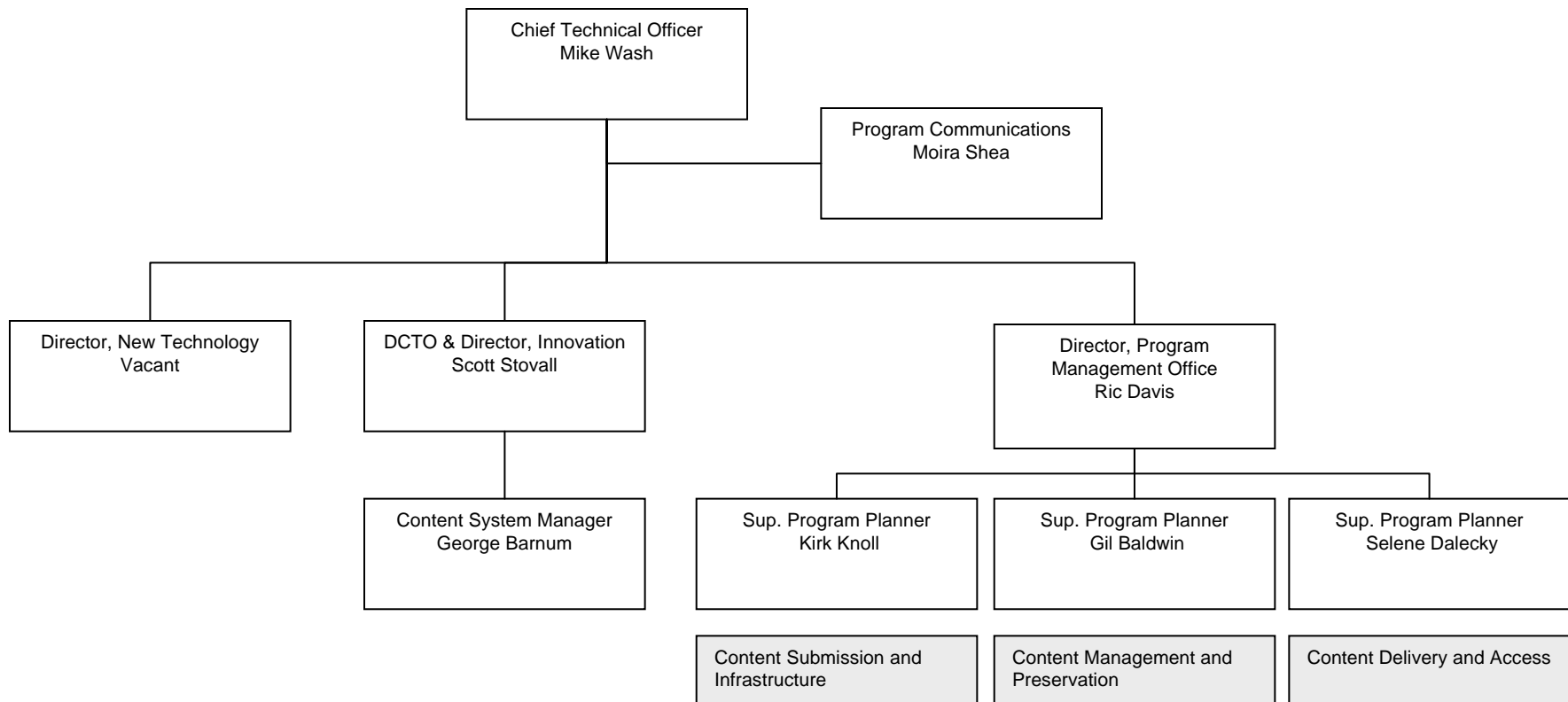


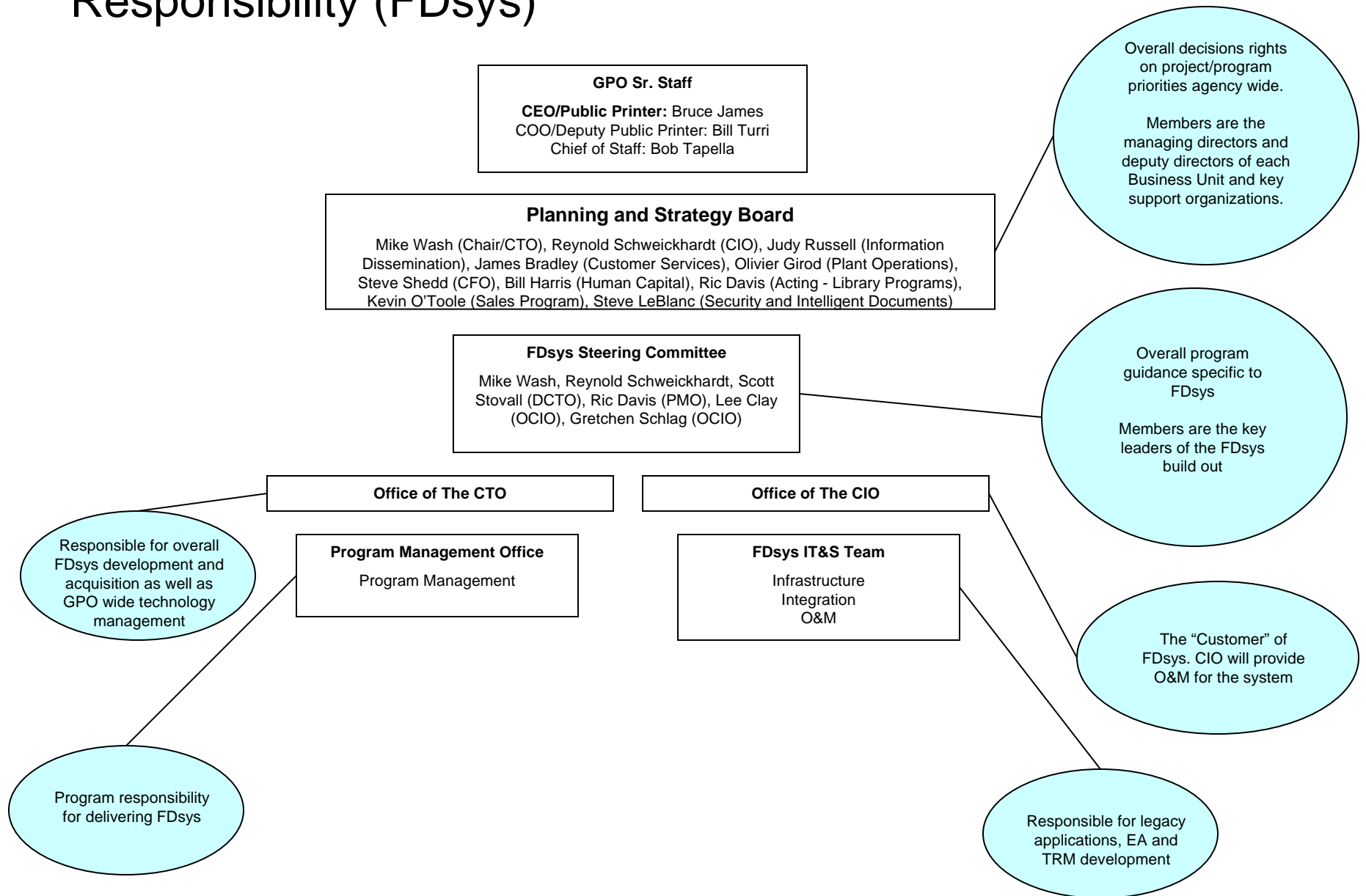
Mike Wash
CTO

FDsys Governance

Office of the CTO





Governance and Roles and Responsibility (FDsys)



Reynold Schweickhardt
CIO



GPO Integration Environment



GPO Integration Environment

IT Infrastructure for FDsys

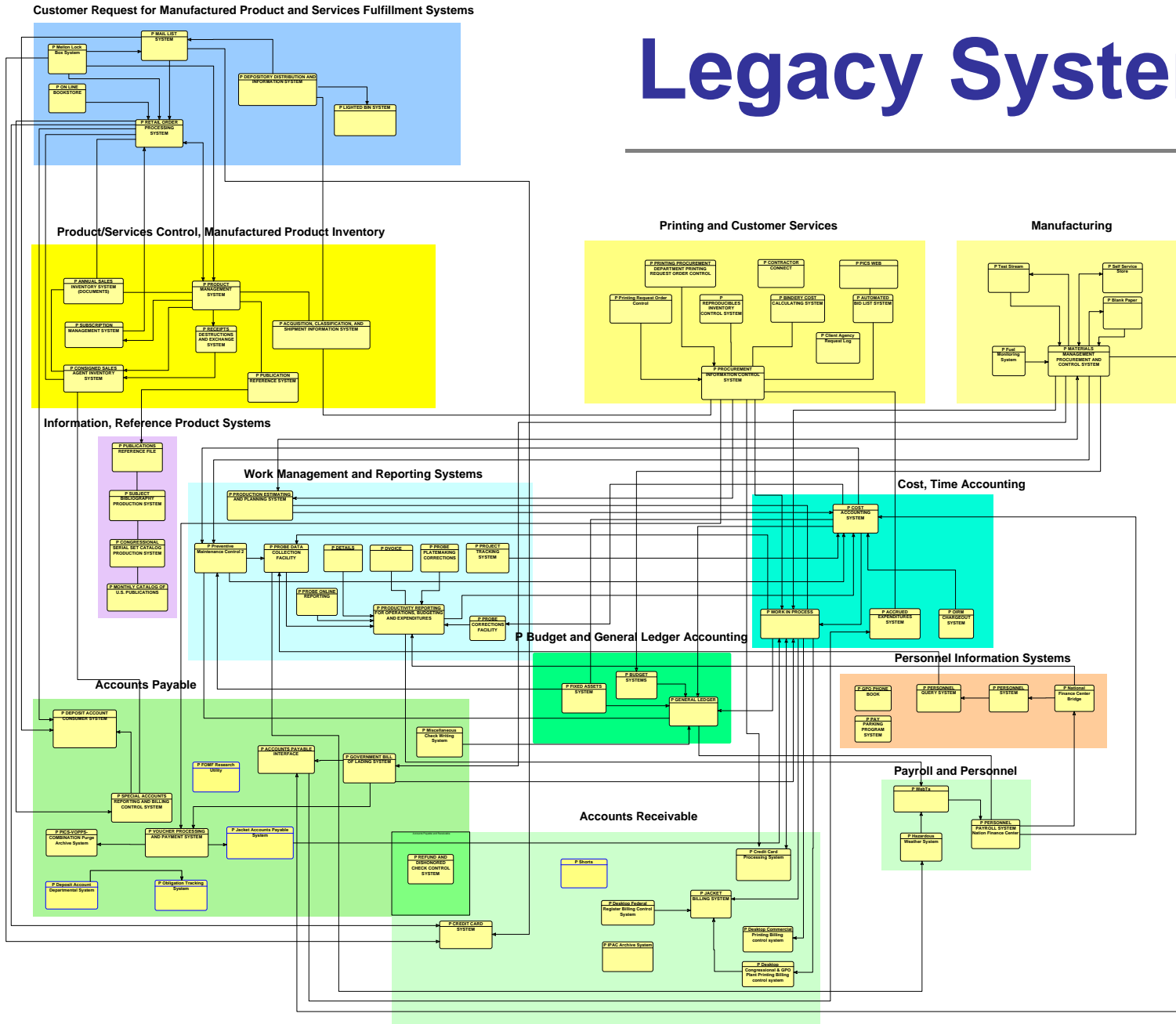
January 24, 2006 Master Integrator Day



Core IT Thrusts

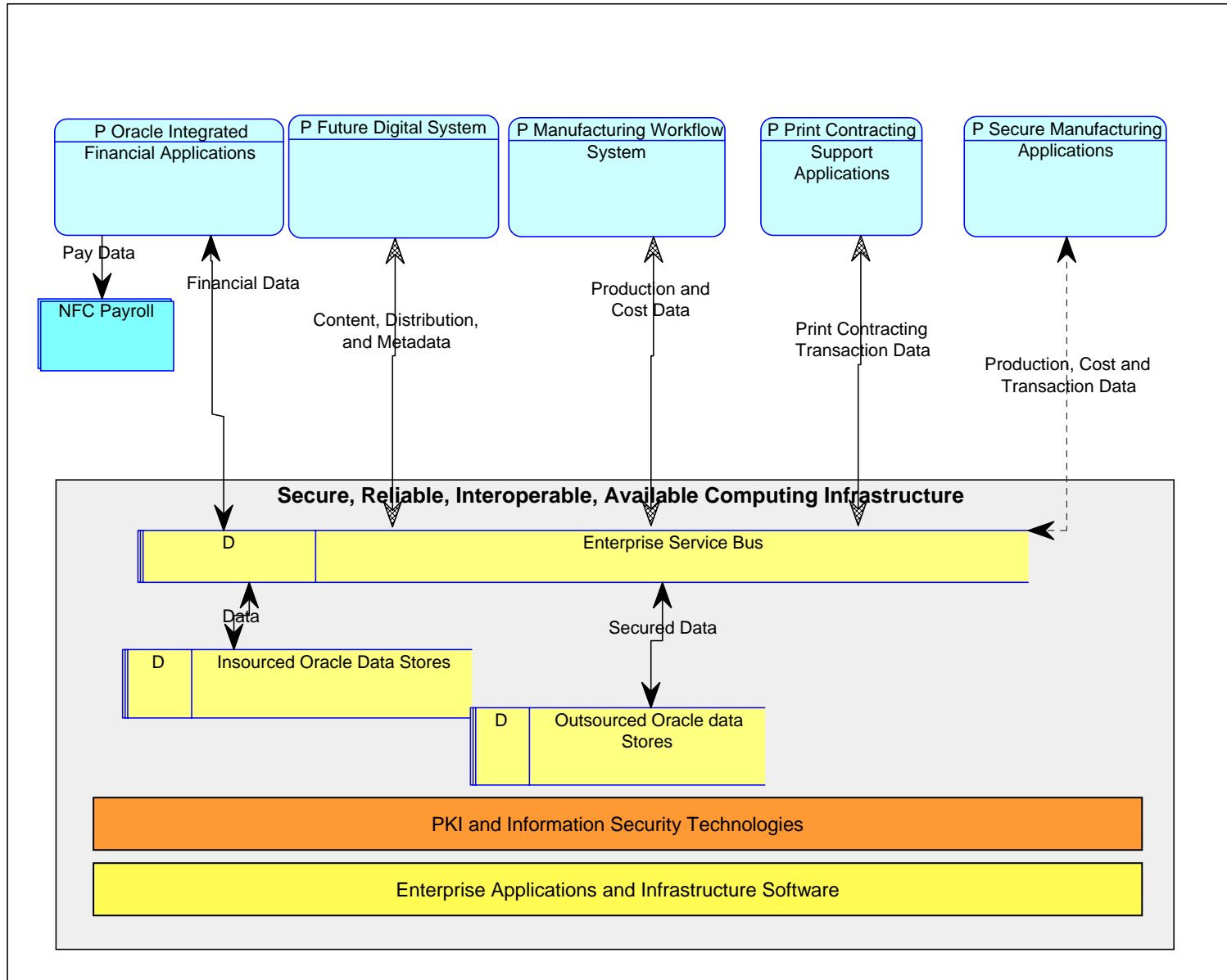
- **Standards Based Technologies**
- **Service Oriented Architecture**
- **Reliable, High Availability Systems**
- **Flexible, Expandable and Secure Systems**

Legacy Systems





GPO's Digital Systems







- **ESB – SAG Enterprise Service Integrator Pilot**
- **Metadata, Web Services, UDDI, Integration, XML**
- **Oracle Financial Applications**
- **Business Objects - Crystal Reports**
- **(External Applications) J2EE Apache/JBOSS**
- **Oracle Enterprise Database**
- **(Internal Apps) Microsoft .Net & SQL Server**
- **Search Pilots– FAST, Lucene**
- **Minimize custom coding across the enterprise**
- **Network Appliance NAS**
- **HP-Compaq Servers – Enterprise Applications**
- **Enterprise Infrastructure Utilities**

Outsourced Infrastructure Where Practicable and Prudent



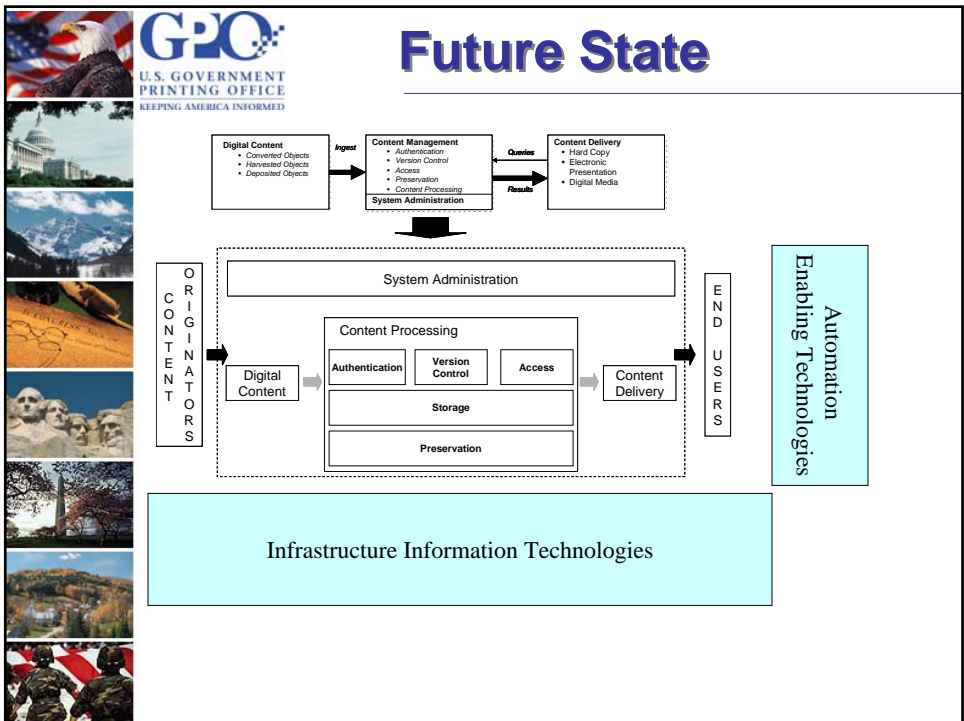



- **Ecora**
- **Configuresoft**
- **Concorde E-Health**
- **System Architect**
- **CALIBER RM**
- **Remedy CM**
- **RADWARE**
- **Other Monitoring**
- **Security**



Core Standards


- SOAP, WSDL, UDDI
- XML and Related
- J2EE, SQL, ODBC, JDBC
- BPM - BPMN, BPEL
- PKI – X.509, LDAP, AES





Architecture Principles - Business

Principle	Directive	Enablement
Digital Information Assets	Information Is an Enterprise Asset	Information is an enterprise asset, integral to the agency's mission. Information must be shared to enhance and accelerate decision making.
	Information Transparency	Data must be capable of being shared across the enterprise and with our partners. GPO must have a complete view of enterprise information.
Enhanced Capabilities	Ensure Security, Confidentiality and Privacy	Appropriate protection in adherence with all GPO security, confidentiality and privacy policies and applicable statutes must be in place for GPO assets throughout the architecture.
	Enable Access, Anytime, Anywhere	System must support multiple points of access in the architecture to meet user needs.
Manage Costs	Total Cost of Ownership	System application and infrastructure will be selected based on a Total Cost of Ownership (TCO) basis.
	Re-use before Buying, Buy before Building.	Inventoried applications, systems, and infrastructure will be considered in the concept selection process.
	Reduce Integration Complexity	The enterprise architecture must reduce integration complexity to the greatest extent possible.



Architecture Principles - Continuity

Principle	Directive	Enablement
Reliability	Mainstream Technologies	Solutions will use industry-proven, mainstream technologies.
	Scalability	The underlying technology infrastructure and applications must be scalable in size, capacity, and functionality to meet changing business and technical requirements.
Interoperability	Industry Standards	Priority will be given to products adhering to industry standards and open architecture.
Availability	Disaster Recovery / Business Continuity	Business recovery and continuity processes to meet agency needs are mandatory in GPO systems.
	Enterprise Network as Virtual LAN	System requires a high bandwidth GPO-wide backbone network that provides a virtual, enterprise-wide local area network.



Architecture Principles - IT



Principle	Directive	Enablement
Architecture	Information Architecture Management	System architecture must be unified and have a planned evolution that is governed across the enterprise.
	Information Architecture Compliance	Architecture integrity must be maintained as applications, systems and infrastructure are acquired, developed and enhanced.
Modularity of Design	Develop with Shared Components Using an n-tier Model	Applications, systems and infrastructure will employ reusable components across the enterprise, using an n-tier model.
Managed Infrastructure	Minimize Platform Configurations	The system should consist of a small number of consistent configurations for deployment across the enterprise.
	Basic Information Services	The system will include a standardized set of information services (e.g., email, voicemail, e-forms, user training) will be available to all GPO users.
Modularity of Design	Service Oriented Applications (SOA)	The system will be structured in a Service Oriented Architecture framework.
Modularity of Design	Logical Partitioning and Boundaries	Application systems and databases should be highly partitioned with logical established boundaries that must not be violated.
	Message-Based Interfaces	The interfaces between separate internal and external application systems must be message-based.
Computing for Business Performance	Event-Driven Systems	Application systems must be driven by business events.
	Physical Partitioning of Processing	On-line transaction processing (OLTP) must be separated from data warehouse and other end-user computing.
	Formal Software/System Engineering	Consistent system engineering practices and methods based on accepted industry standards (e.g., IEEE, SEI) must be utilized.

Technical Reference Model

Core System Engineering Elements

Enterprise Systems

Legacy Sustainment

Departmental Systems

3270 Interface

WRQ Verastream

Microsoft Intranet Information Services

FTP File Transfers

Application Support and Presentation

Enterprise Web Application Server JBO SS (Eval)

Apache Enterprise Web Server

ADABAS Software AG

VSA/I

Sequential Datasets

Microsoft SQL Server

Data Management

Crystal Reports/Business Objects

Oracle Database

Enterprise Service Bus

Natural(SAG)

COBOL, CICS

Other, Miscellaneous

Microsoft Access

xBase

Design and Development

Microsoft .NET

PL/SQL, Oracle

Eclipse, J2EE

System Engineering & Architecture Management and Registration

Borland Calibur RM CASE tool

System Architect, Popkin

WebD/AV CIM Configuration Repository

RadView Testing SW

Infrastructure Hardware

Amdahl Mainframe

Dell Workstations

Misc Legacy PCs

HP Compaq Printers

Apple Graphics Workstations

Routers/Switches/Network Security

HP Compaq Servers

Outsourced Computing Facilities

Sun Workstations



Technical Reference Model

Service Requirements:

Legislative / Compliance

- > Title 44 USC
- > Section 508
- > Web Content Accessibility
- > Security GPO Publication 025 33, IT Security
- > Program Statement of Policy
- > Privacy Platform for Privacy Preferences (P3P)
- > Privacy: Liberty Alliance
- > JMFIP
- > IEEE
- > NIST: FIPS
- Authentication:**
- > X.509v3
- Hosting External:**
- > Multiple
- Hosting Internal:**
- > Manufacturing
- > Facilities Management

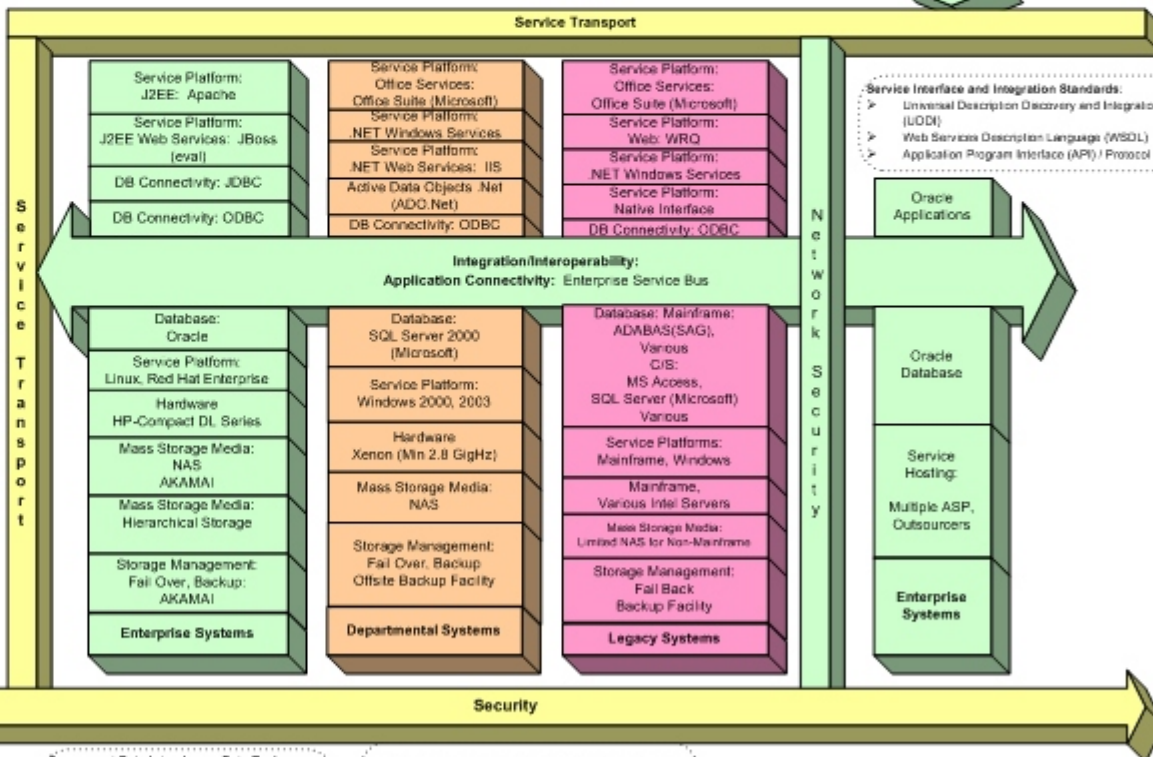
Service Requirements

Access Channels

Delivery Channels

Access Channels, Web Browser

- > Internet Explorer 6 SP 2
- > Netscape Communicator
- > Mozilla
- > FTP
- > Other Secure



Component Data Interchange, Data Exchange:

- > Simple Object Access Protocol (SOAP)
- > Electronic Business using XML (eBXML)
- > Resource Description Framework (RDF)
- > Web Services User Interface (WSUI)

Delivery Channels

- > Internet
- > Intranet
- > Other secure methods
- > Peer to Peer (P2P)

Component Data Management, Reporting and Analysis:

- > Enterprise: Crystal Reports
- > Departmental: Crystal Reports
- > Legacy: SerSynergy
- > Legacy: Various

Proposed Standards:

- > eXtensible Business Reporting Language (XBRL)
- > Java Online Analytical Processing (LOLAP)
- > Online Analytical Processing (OLAP)
- > XML for Analysis





EA Tools/Outputs



- **High to Low level Processes in Popkin with standard reports and matrixes for end-user acceptance.**
- **Component Representations in Popkin for CIO Acceptance**
- **High Level Process, Role, and Components Described in Caliber to facilitate specification and the framing of requirements**

Scott Stovall
DCTO

Acquisition Update
Path Forward




U.S. GOVERNMENT PRINTING OFFICE | KEEPING AMERICA INFORMED

MI Day

Path Forward Status and timeline

January 24, 2006

our strategic vision in progress



U.S. GOVERNMENT PRINTING OFFICE | KEEPING AMERICA INFORMED

Lessons Learned

- **Initial Acquisition Strategy Too Constraining**
 - Statement of Work Approach Raised Concerns
 - Fixed Price Contract Raised Concerns
- **GPO Needs External Acquisition Support**
 - Contracted for IV&V of Acquisitions
 - Vendor Currently Engaged
 - Evaluating Acquisition Planning and Process

our strategic vision in progress

1

Integration Process

- Responses to the final RFP should include the vendors proposed solution for working within GPO's technology management structure which includes OCTO and OCIO.
 1. Program Management Office (PMO)
 2. Innovation
 3. New Technology
 4. IT&S

GPO's IT&S will operate the delivered system.

Release Schedule

Initial award for Release 1 series (which includes 1A, 1B, and 1C)

The contract culminates in successful completion of Release 1 series and potentially elements of Releases 2 and 3.

Release 1 (Dates have held consistent)

- 1A – Targeted July 2006 (Includes core functionality)
- 1B – Targeted January 2007 (Additional core functionality)
- 1C – Targeted July 2007 (Final core functionality)

MI proposals will help drive final dates.

Procurement Office

- GPO Will Use Our Internal Contracting Office
- Augmented By External Expertise
 - Contracting Support
 - IV&V (ongoing)

Updated Acquisition Schedule

- Final RFP
 - Released - Early March 2006
- Proposals Due
 - Submitted - Early April 2006
- Approval Sequence
 - Granted - Mid April 2006
- Award
 - Made – Late April

Next Steps

- After MI Award
 - IV&V
 - Planning ongoing
- Technology Management Structure
 - Discovery Will Continue
 - More Events Based on the FDsys System Release and Capabilities Document

Ric Davis
PMO Director

Discussion and Q&A

MASTER INTEGRATOR DAY

QUESTIONS AND ANSWERS

1-24-2006

1. Can you elaborate on the RFP timeline?
 - We are targeting the end of February (approximately 1 month from now).
2. Since you are establishing an IV&V contract now, have you established a conflict of interest policy between the IV&V vendor and the MI?
 - Not at this time; however, we understand and will address the issue.
3. At Industry Day 1, you mentioned that JCP approval will be required after the RFP is issued. Is this still accurate?
 - JCP approval is implied as part of the “approval sequence” on slide 5 titled “Updated Acquisition Schedule”.
4. Do you intend to publish vendor responses and Q&A from the January 20th draft RFP?
 - Yes. Comments have been compiled and themes have been identified and this material will be published. These themes will be discussed later in today’s presentations.
5. At Industry Day 1 you outlined the FDsys budget. Is this money still available, and have the budget estimates changed?
 - The reprogrammed funds are still available, and our budget estimates have not changed.
6. Who will be the point of contact for the MI?
 - The primary POC will come from the FDsys PMO and the COTR will come from the CIO organization.
7. You mentioned weekly meetings with either the steering committee or Planning and Strategy Board- which was it? And is there buy in from all of GPO for FDsys and the “three pillars” model?
 - **Governance:** The FDsys steering committee meets weekly. The Planning and Strategy Board plans to meet either weekly or bi-weekly depending on schedules.
 - **FDsys Buy-In:** We have a great opportunity to help GPO business units learn about the future system and the PMO has established ongoing meetings with business units to provide them with status information and further engage them in the system development process. We are stressing to each business unit that elements of FDsys will touch all aspects of the agency, and their input will benefit all of GPO.
 - **“Three pillars” buy in:** GPO has been print-centric for over 100 years. The structure of the agency was optimized for achieving goals related to collecting, creating, and delivering printed documents. Moving from a print-centric focus to an information-centric focus is a large task. The three pillars concept is being established in alignment with GPO’s strategic plan to meet the needs of all business units. There are now six established business units engaging with the PMO and CIO.

8. Will the contractor engaged for the IV&V of Acquisition be precluded from bidding on the MI contract?
 - The IV&V contract was awarded to a contractor not interested in functioning as a MI.
9. GPO makes its money from print. What is the end-state value proposition of FDsys? For users?
 - Value proposition for GPO: Industry changes have prompted GPO's transformation. Our primary mission is providing permanent public access to authentic Government information. The nature of technology is changing how people stay informed. Electronic access to accurate, authentic information when they want it is now expected. For GPO to meet its mission of permanently preserving and providing access to authentic Government information, an information management system is necessary. We must maintain what we're here to do, and create a flexible system on a well architected enterprise architecture that can respond to the evolving needs of American citizens and the US Government.
 - Value proposition for users: The depository library community understands that a system is needed, and is fully aware that a modern information system will change how they do their jobs. GPO's mission of permanent public access to Government information is achieved through the library program as well as direct electronic access via GPO Access. At the 2005 Fall Depository Library Council meeting - attended by over 500 depository librarians - the question was asked "How many of you are interested in having your depository library receive digital information from GPO?" Almost all stood to indicate their interest. However, when asked "How many of your libraries are equipped to permanently preserve digital content and make it accessible?" only 2 individuals stood. So the library community understands the challenges of making this happen, and the value GPO can provide by living within the mission of permanent public access.
10. Does GPO foresee charging for electronic information services?
 - We are not making these decisions in system design and development. Rather the system will be policy neutral, open, flexible, and therefore designed to allow GPO business units to make these decisions. (Note: GPO currently charges for some electronic information, such as data feeds to value-added providers.)
11. Can you elaborate on the evaluation process and criteria?
 - We do not have any new information to share, outside of what is located in the draft RFP.
12. You stated that you are moving away from firm-fixed pricing. What are you moving toward?
 - We will wait until responses to the RFP have been reviewed before making a final decision and suggestions should be included in MI proposals. However, GPO anticipates a hybrid approach, or multiple pricing proposals.
13. The draft RFP discussed phases/gates and a release schedule. The MI comes on board in Phase 4, and participates in Phases 5 & 6. Is this accurate? And how does this information relate to releases?
 - Yes, this information is accurate. However, one thing should be made clear: each release will have a separate Phase 5 and Phase 6.

14. Is there an anticipated date for Phase 4 completion?

- No date has been set. The definition of Phase 4 completion will be determined with MI involvement. The MI will also help define Phases 5 & 6 for each release.
- Note: We developed Release 1A, 1B, and 1C based on infrastructure elements and logical system progression. But these releases should not be considered firm. Suggestions should be in your MI proposal.

15. If each release has a separate Phase 5 & 6, will Phases 3 & 4 be final or updated as you go through the phases? And are you flexible regarding definition of gates?

- Our current requirements are labeled as preliminary. The Phases and Gates process allows us to lock-down the current requirements to prevent scope creep. However, we know that our requirements and specifications will need to be revised on a periodic basis as technology changes. We will allow some flexibility, but the MI must clearly define when each phase will be completed and what will be delivered.
- The number of phases and gates is set, and deliverables have been identified. We will work with the MI to further define the deliverables as necessary.

16. You mention a review process after each phase/gate. How long will the review process take? And will this be an internal review or an IV&V review?

- This depends on the size of the function being reviewed. We want to get through it as expeditiously as possible. Part of the dialog with the Master Integrator will be structuring the review process based on schedule.
- This will be an internal management review. The IV&V review is separate and to be determined.

17. The draft RFP referenced the Requirements Document and said that the MI is responsible for all other data. What data is this?

- The MI will work with the PMO to revise system requirements and specifications.