

Current State Architecture Assessment - DRAFT

Version 2.0

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	Date: October 4, 2007

Revision History

Date	Version	Description	Author
5/25/07	1.0	Initial Draft	Hemant Sharma
6/1/2007	1.1	Update based on review by John Goodwin and Will Goldschmidt	John Goodwin
6/19/2007	2.0	Draft incorporating updates received from the Technical Core Team	John Goodwin

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1. Introduction

In order to evaluate the future technical architecture that will be utilized as part of the Virginia Enterprise Applications Program (VEAP), a summary assessment was conducted of the current technology being utilized by the six primary agencies participating in the performance budgeting (PB) and financial management (FM) phase 1 implementation. The six agencies included in the assessment are:

- Department of General Services (DGS)
- Virginia Department of Transportation (VDOT)
- Virginia Employment Commission (VEC)
- Virginia Information Technologies Agency (VITA)
- Department of Planning and Budget (DPB)
- Department of Accounts (DOA)

This document provides a high level overview of the technology currently being utilized by the above agencies to support financial management.

1.1 Purpose

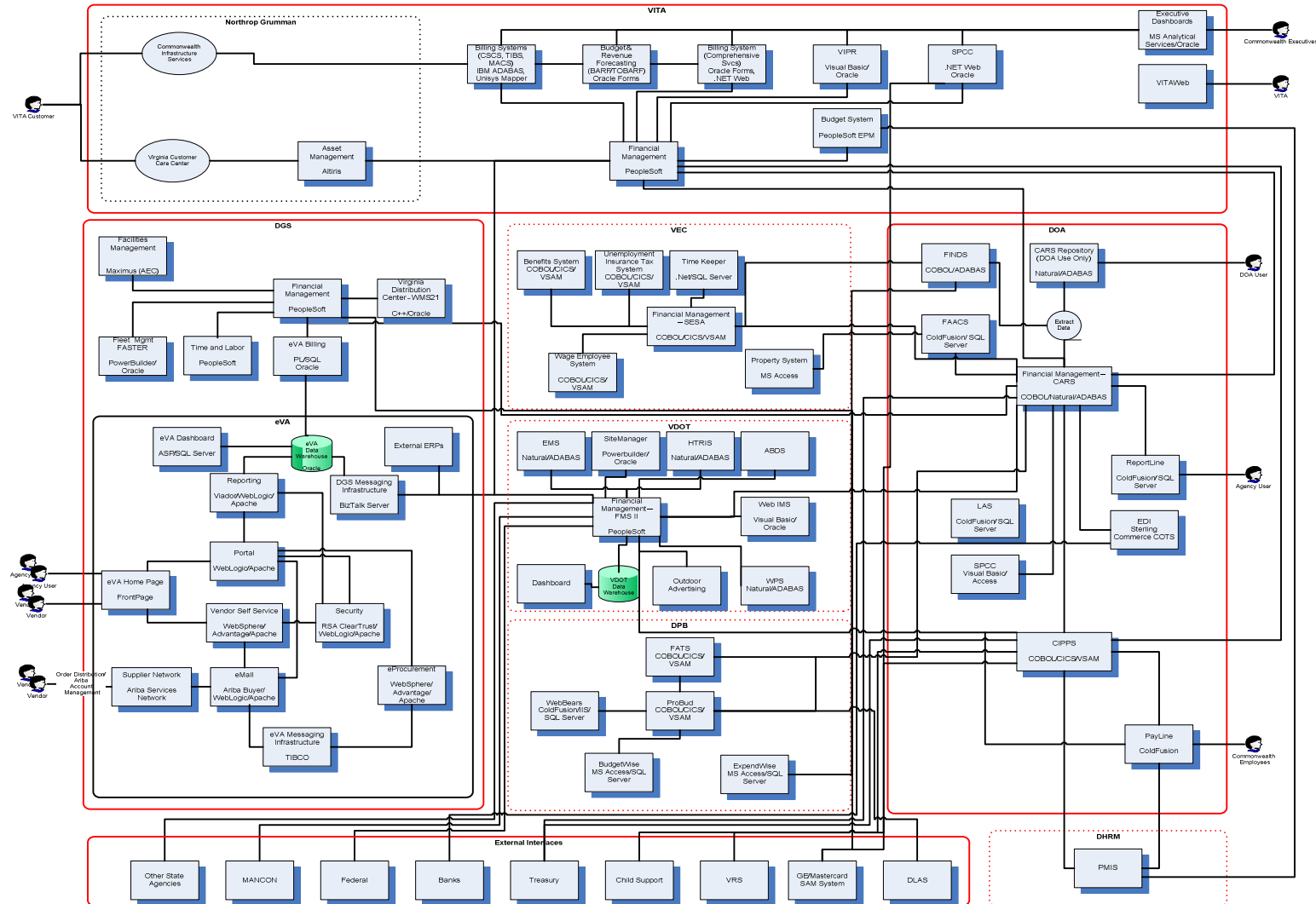
The purpose of this document is to provide adequate background information on technology being utilized by the six primary agencies participating in phase 1 of VEAP. This information assists in defining the future state technical architecture in two ways. First, the assessment allows the project team to assess the technology maturity level of the included agencies. Second, it identifies the existing technology investments of the primary agencies so these can potentially be leveraged as part of VEAP.

1.2 Approach

A series of meetings were held in April 2007 to collect information from the six primary phase 1 agencies. The format of the meeting was the same with each agency and included an overview of the agency's IT organization, the technology utilized, and the processes for software development and management. This document incorporates the financial management and performance budgeting elements of these discussions

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Application Overview

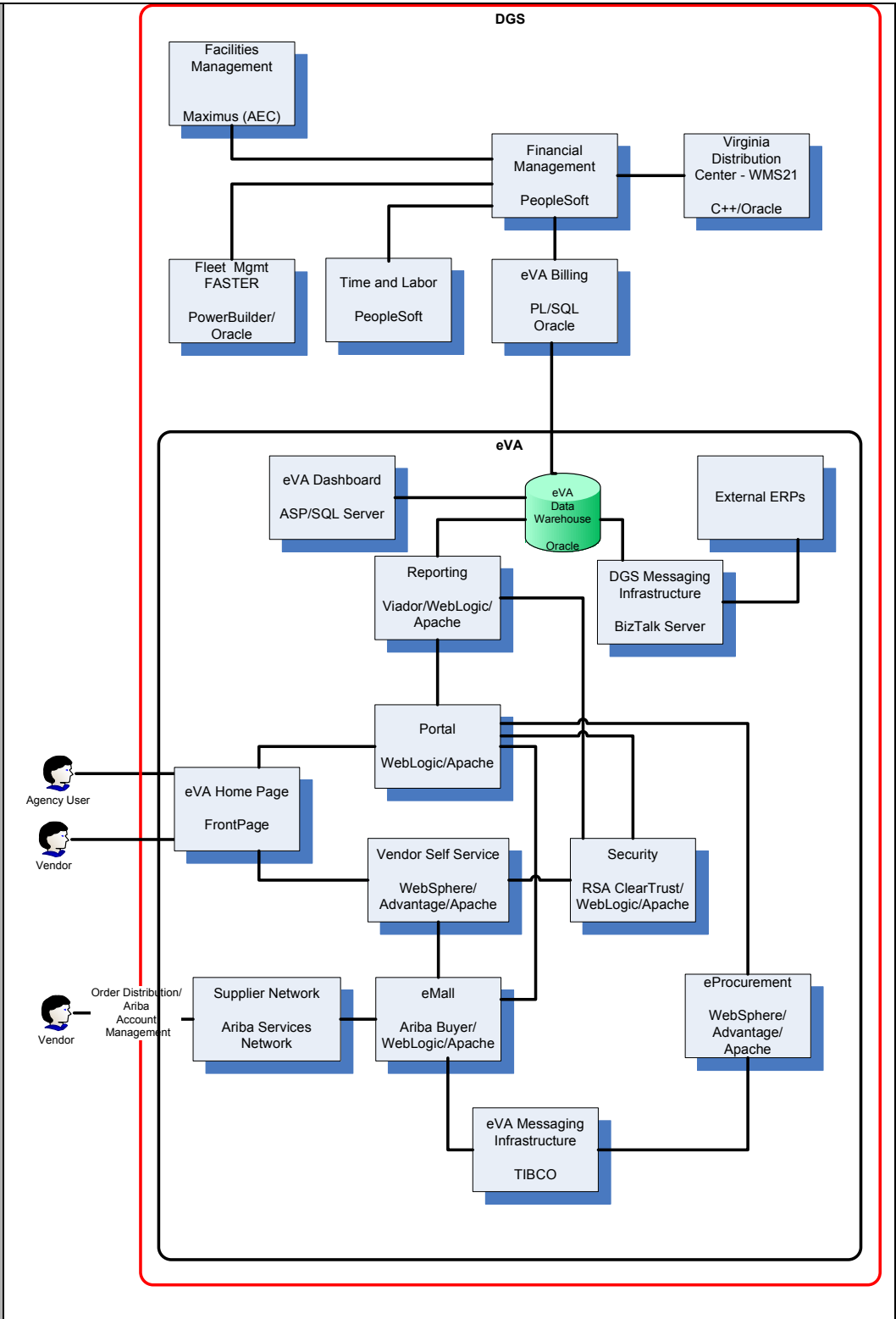


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2. Department of General Services

Agency Description:	<p>The Department of General Services (DGS) is a service agency supporting the mission of governments by delivering quality, cost-effective, timely, safe and secure laboratory, engineering and architecture, procurement, real estate, vehicle management, and graphic design services, while also serving businesses and citizens.</p> <p>The agency is led by a director who manages intra-governmental services to state agencies and local government as well as governmental services to businesses and citizens. These include procurement, warehouse and distributions, surplus real and personal property, fleet and graphic services, facility management, laboratory services, real property management and the administration of the capital budget.</p>
Information Technology Organization:	<p>The information technology activities within DGS are managed by Information Systems and Services (ISS). ISS is organized by the line of business that it serves. The common functions, such as configuration management, security and database administration are managed by the Technical Services Group.</p> <pre> graph TD ISS[Information Systems and Services (ISS)] ISS --- AS[Administrative Systems, Fleet, Graphic Communications, Purchases and Supply] ISS --- EBS[Engineering and Buildings, Real Estate Services] ISS --- LAB[Laboratories] ISS --- TSG[Technical Services Group] </pre>

Financial Management Business Applications Diagram



Financial Management Business DGS currently utilizes a collection of applications to support financial management. The applications utilized are COTS solutions and DGS has performed minimal modifications to the core products. The following table lists the applications and the underlying technology being

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Applications List	utilized by the application.			
	Application Name	Short Description	Application Technology	Operating Platform
	eVA	State-wide procurement system	Ariba – Catalog and vendor management Viador - Reporting Advantage - Procurement Java/J2EE – Portal BizTalk – Integration Broker Oracle – DBMS Apache – Web Server	Sun Solaris WebSphere WebLogic
	eVA Billing	Billing capabilities related to eVA procurement.	PL/SQL - Development Oracle - DBMS	MS Windows Server
	PeopleSoft Financials 8.4	GL, AP, AR,	PeopleTools – Development and runtime environment Oracle – DBMS nVision – Reporting Crystal – Reporting SQR – Integration and Reporting	MS Windows Server
	PeopleSoft HR 8.0	Time and Labor	PeopleTools – Development and runtime environment Oracle – DBMS nVision – Reporting Crystal – Reporting SQR – Integration and Reporting	MS Windows Server
	Facilities Management	Management of building information and maintenance	Maximus AEC – COTS Solution	MS Windows Server
	Fleet Management	Management of fleet information and maintenance	PowerBuilder – Development Oracle - DBMS	MS Windows Server
	Virginia Distribution Center – WMS21	Management of bulk distribution of goods through the Virginia Distribution Center	C++ - Development Oracle - DBMS	MS Windows Server
Reporting and Business Intelligence:	DGS has an existing reporting infrastructure that consists of a data warehouse hosted as part of the eVA implementation and eVA data feeds for billing information. eVA uses Viador as the reporting tool. PeopleSoft reporting is provided using nVision and Crystal Reports against the PeopleSoft transactional database.			
Integration:	There are four application integration approaches leveraged by DGS: 1. Rhapsody Message Broker by Orion Software is used for messaging between the various public health laboratories and CDC for exchange of laboratory orders and results. 2. Microsoft BizTalk Server is the primary integration platform that allows the ERP systems at the various agencies and departments to interact with eVA.			

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	<p>3. TIBCO is used internally within eVA and hosted as part of the eVA implementation as the messaging infrastructure for internal communications.</p> <p>4. Point to Point integration is utilized for data transfers. The technology utilized to support point to point integration includes file transfers and database links to facilitate the transfer of information and SQL tools (SQL scripts and PL/SQL) and SQR to load and extract data.</p>
System Infrastructure:	<ul style="list-style-type: none"> • MS Windows is the preferred platform for server infrastructure as it is more practical and inexpensive to operate/maintain. • Linux is used sparingly as the alternate operating environment. • Intel-based hardware is the preferred platform for server infrastructure. • Server consolidation has been done to reduce the number of servers. • Oracle is the preferred DBMS platform. The department is currently working with Oracle 9i (and beyond). • Use of Oracle RAC for clustering and failover. • Experimental use of Web Services currently with limited deployment. • Microsoft is the preferred application development platform. The department has experience with ASP.Net and BizTalk Server. PowerBuilder and SQL forms are also utilized but are not preferred platforms. • PeopleTools is utilized as the primary development platform for PeopleSoft. • Use of Citrix for application delivery. • Use of Livelink for content management. • Security infrastructure includes: <ul style="list-style-type: none"> 1. Active Directory 2. Intrusion detection systems
External Services:	eVA is the only hosted service that is a key part of the DGS business process.
Development Methodology:	The department leverages a JAD-oriented development methodology. This approach is very effective since the department has a COTS focus with minimal customizations/extensions to the COTS products.
Projects Under Development:	<ul style="list-style-type: none"> • Real estate portfolio and leasing • eVA improvements
Agency Identified Concerns/Issues:	<ul style="list-style-type: none"> • Need for improved business intelligence capabilities, such as dashboards, scorecards and an enterprise data warehouse. • There is a need for implementing spend analytics and management. The department has looked into leveraging Silver Oak (now part of CGI) for this purpose.

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3. Virginia Department of Transportation

Agency Description:	The Virginia Department of Transportation (VDOT) is responsible for building, maintaining and operating the state's roads, bridges and tunnels.
Information Technology Organization:	<p>Information Technology is led by the Chief of Technology, Research and Innovation. The Information Technology (IT) division enables VDOT to meet its critical business needs by improving Agency responsiveness, effectiveness, and efficiency through innovative research, defined architectures, planning, and optimal use of technology. The IT division is further divided along functional areas which support and manage the Division's responsibilities, namely Program Administration, IT Governance and Project Management, Application Development and Maintenance, Systems Engineering and Production Management, and GIS and Data Warehouse Services.</p> <pre> graph TD CTR[Chief of Technology, Research & Innovation] --> ITD[Information Technology Division] ITD --> SE[Systems Engineering] ITD --> IG[IT Governance] ITD --> ADM[Application Development and Maintenance] ITD --> IO[IT Operations] </pre>
Financial Management Business Applications Diagram	

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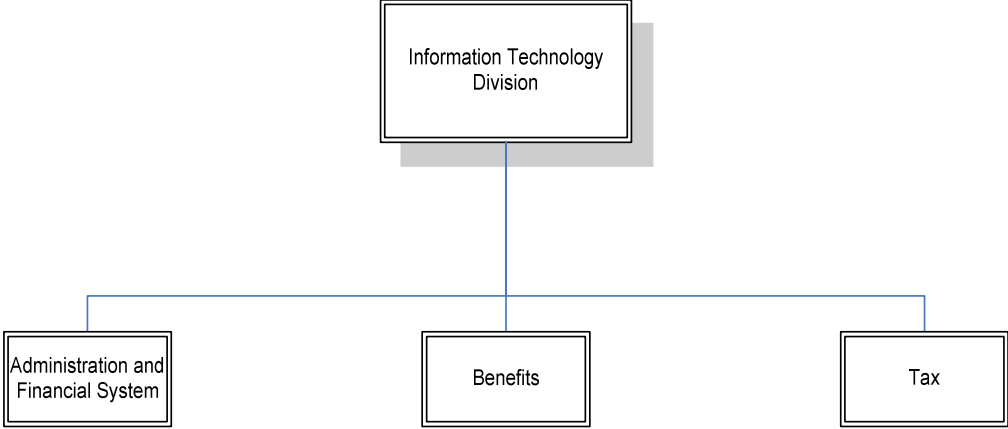
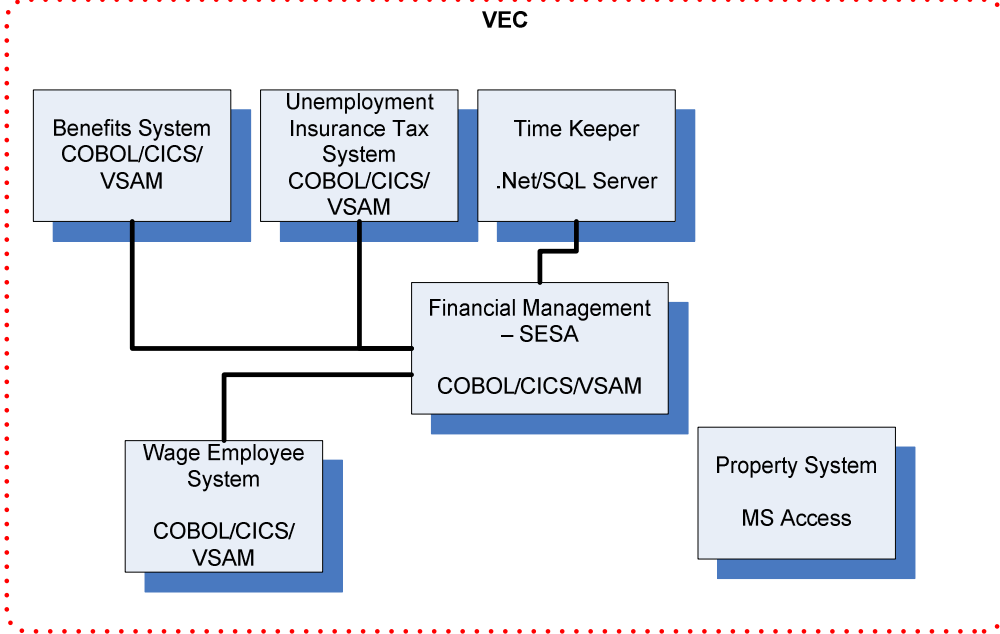
Financial Management Business Applications List	VDOT currently utilizes a collection of applications to support financial management. The applications utilized are a mix of COTS solutions and custom applications. The COTS solutions utilized have been heavily customized to meet the needs of VDOT. The following table lists the applications and the underlying technology being utilized by the application.			
	Application Name	Short Description	Application Technology	Operating Platform
	FMS II – PeopleSoft 6.0	GL, AP, AR, Time and Attendance, Project Costing, Purchasing	PeopleTools – Application SQR – Data Extract nVision - Reporting Crystal Reports – Reporting Tuxedo - middleware Oracle – DBMS	Unix
	EMS	Equipment Management Systems	Natural – application ADABAS – DBMS	Mainframe
	SiteManager	Contract Management System	Powerbuilder – Application Oracle - DBMS	MS Windows Server
	Web IMS	Inventory Management System	Visual Basic – application Oracle - DBMS	MS Windows Server
	WPS	Workload Planning System	Natural – application ADABAS - DBMS	Mainframe
	HTRIS	Highway and Traffic Records Information System	Natural – application ADABAS - DBMS	Mainframe
	ABDS	Annual Budget Development System	ASP.net, C#, java, Visual Basic – Development Oracle and Access - DBMS	MS Windows Server
	Dashboard	VDOT Operational Performance Monitoring Dashboard	MS SQL Server – Development and DBMS	MS Windows Server
Outdoor Advertising	VDOT Outdoor advertising licensing and management	MS Access – Development and DBMS	MS Windows Server	
Reporting and Business Intelligence:	VDOT maintains an operational data store and a data warehouse. The primary focus of both the ODS and the data warehouse is to consolidate and aggregate project information for reporting purposes. The primary reporting tool utilized for the data warehouse is Business Objects and Ascential DataStage is the ETL tool utilized for loading data. Reporting for FMS II is provided using a combination of nVision, Crystal Reports, and SQR. Cognos is utilized on a limited basis for cash forecasting.			
Integration:	Point to Point interfaces are the primary method utilized for integration. The technology utilized to support point to point integration includes file transfers and database links to facilitate the transfer of information and primarily SQR to load and extract data with some custom PeopleCode, COBOL, and PL/SQL interfaces. Web Services are being deployed at an experimental level currently. The primary applications utilizing Web Services currently are the Virginia Operational Information System and GIS.			

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System Infrastructure:	<ul style="list-style-type: none"> • Oracle is the preferred DBMS platform. The department is currently utilizing Oracle 7 for FMS II (unsupported). • AIX and MS Windows are the preferred operating system platforms.
External Services:	No external services are currently being utilized for financial management.
Development Methodology:	The development methodology for financial management revolves around the use of the CPSS utility. CPSS allows the creation of business use cases for requirements engineering, prioritization of development tasks, resource management, etc. VDOT has also begun to implement ITIL processes.
Projects Under Development:	<p>There are no major development efforts underway for financial management other than routine maintenance. However, there are a number of IT projects under development outside of financial management within the department. These projects include:</p> <ul style="list-style-type: none"> • Analytics for budgeting • Data Warehouse Expansion • Equipment Management System
Agency Identified Concerns/Issues:	<ul style="list-style-type: none"> • There is no permanent data archival strategy. This leads to issues with data management and poor performance.

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4. Virginia Employment Commission

Agency Description:	The Virginia Employment Commission (VEC) promotes growth and stability by delivering and coordinating workforce services to the citizens of Virginia.
Information Technology Organization:	<p>The VEC IT organization is currently structured along functional areas/lines of business and is undergoing change to become more project focused in the future.</p>  <pre> graph TD ITD[Information Technology Division] --> AFS[Administration and Financial System] ITD --> B[Benefits] ITD --> T[Tax] </pre>
Financial Management Business Applications Diagram	 <pre> graph TD subgraph VEC BS[Benefits System COBOL/CICS/VSAM] UITS[Unemployment Insurance Tax System COBOL/CICS/VSAM] TK[Time Keeper .Net/SQL Server] FM[Financial Management - SESA COBOL/CICS/VSAM] WES[Wage Employee System COBOL/CICS/VSAM] PS[Property System MS Access] end BS --- FM UITS --- FM TK --- FM FM --- WES </pre>
Financial Management Business Applications List	VEC primarily utilizes the State Employment Security Accounting (SESA) system for financial management. There are several other supporting systems that track information related to employees, assets, and budget. There are also numerous Access databases that are utilized to clean and manipulate data before entry into SESA. VEC also has a separate collection of administrative systems focused on the management of unemployment taxes and benefits. The following table lists the applications and the underlying technology being utilized by the application.

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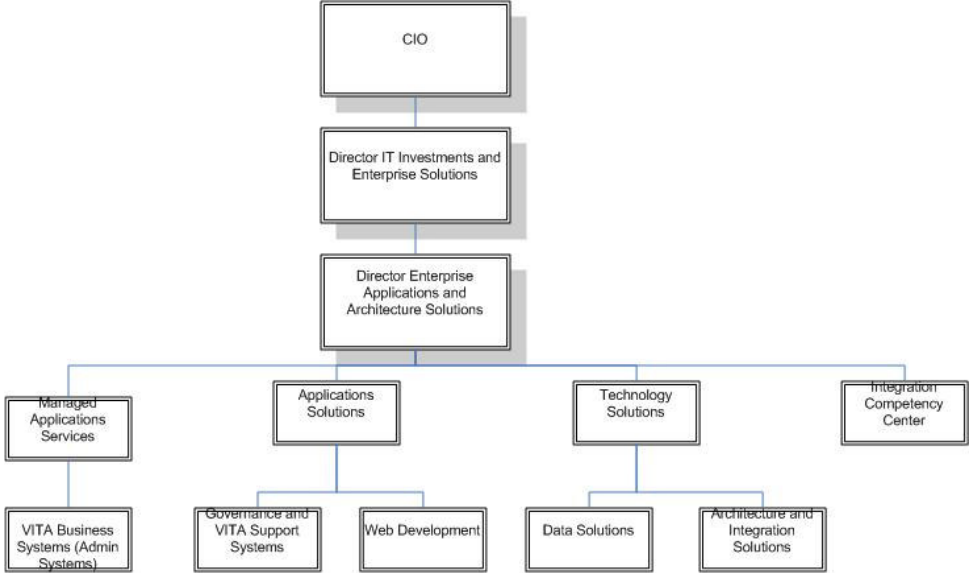
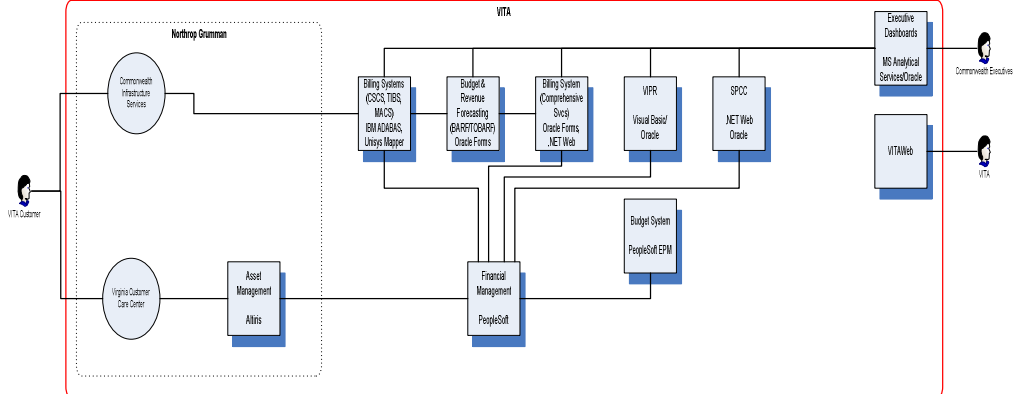
	Application Name	Short Description	Application Technology	Operating Platform
	SESA	State Employment Security Accounting is a collection of applications that provide budget, general ledger, cost accounting. Used for required federal grants management cost allocations and reporting	COBOL/CICS/VSAM – Application Architecture EasyTrieve – Data Management/Reporting	Mainframe
	Time Keeper	Time keeping	.Net/C# - Application architecture SQL Server – DBMS	MS Windows Server
	Wage Employee System	System utilized to track information related to wage employees for internal reporting purposes	COBOL/CICS/VSAM – Application Architecture EasyTrieve – Data Management/Reporting	Mainframe
	Property System	System utilized to track VEC asset information	MS Access - Application	MS Windows Server
	Unemployment Insurance Tax System	System used to support unemployment insurance administration	COBOL/CICS/VSAM – Application Architecture EasyTrieve – Data Management/Reporting	Mainframe
	Benefit System	System used to support unemployment benefit administration	COBOL/CICS/VSAM – Application Architecture EasyTrieve – Data Management/Reporting	Mainframe
Reporting and Business Intelligence:	The agency has very limited business intelligence capability primarily relying on desktop-based reporting tools, such as MS Access and COBOL and EasyTrieve for mainframe reporting creation and generation.			
Integration:	Point to Point interfaces and manual data entry are the primary method utilized for integration. The technology utilized to support point to point integration is file transfers to facilitate the transfer of information and primarily COBOL to load and extract data. A standard journal entry interface format is utilized as the primary method to interface into the SESA system. In many cases, access database or excel spreadsheets are utilized as pre-processing tools to cleanse data and format the data for entry into SESA through the standard journal entry interface. Reports from external systems are utilized to support manual data entry in SESA in many situations where an automated interface is not available.			
System Infrastructure:	<ul style="list-style-type: none"> • Primary applications are on the mainframe. • MS Windows is the preferred platform for new application development and C# is currently the preferred language. • MS Access is used extensively to supplement information available from SESA. 			
External Services:	None are currently being utilized.			
Development Methodology:	A structured waterfall software development lifecycle is utilized by VEC.			

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Projects Under Development:	Projects are in progress related to unemployment insurance administration but no projects related to financials management are currently under development.
Agency Identified Concerns/Issues:	SESA has been in production for almost 40 years and some risk is present based on the age of the application.

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5. Virginia Information Technologies Agency

Agency Description:	The Virginia Information Technologies Agency (VITA) is the Commonwealth's technology provider.										
Information Technology Organization:	<p>The VITA IT Division is organized around projects with elements of a matrix organization.</p> 										
Financial Management Business Applications Diagram											
Financial Management Business Applications List	<p>VITA currently utilizes a collection of applications to support financial management. The applications utilized are a mix of COTS solutions and custom applications. The COTS solutions utilized have been implemented with minimal modifications. The following table lists the applications and the underlying technology being utilized by the application.</p> <table border="1"> <thead> <tr> <th>Application Name</th> <th>Short Description</th> <th>Application Technology</th> <th>Operating Platform</th> </tr> </thead> <tbody> <tr> <td>PeopleSoft Financials 8.4</td> <td>GL, AP, AR, Asset Management, Purchasing</td> <td>PeopleTools – IDE SQL – Data Extract nVision and Crystal Reports - Reporting</td> <td>MS Windows Server</td> </tr> </tbody> </table>			Application Name	Short Description	Application Technology	Operating Platform	PeopleSoft Financials 8.4	GL, AP, AR, Asset Management, Purchasing	PeopleTools – IDE SQL – Data Extract nVision and Crystal Reports - Reporting	MS Windows Server
Application Name	Short Description	Application Technology	Operating Platform								
PeopleSoft Financials 8.4	GL, AP, AR, Asset Management, Purchasing	PeopleTools – IDE SQL – Data Extract nVision and Crystal Reports - Reporting	MS Windows Server								

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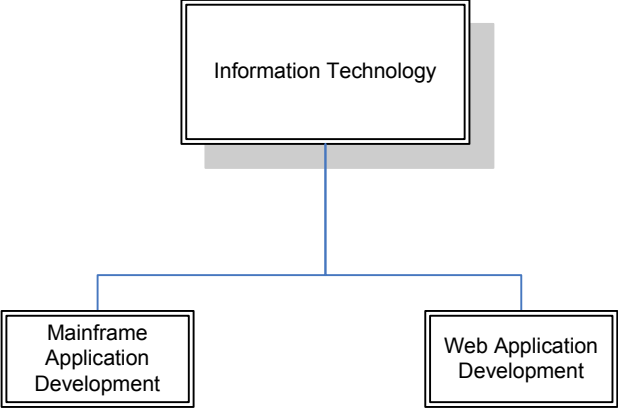
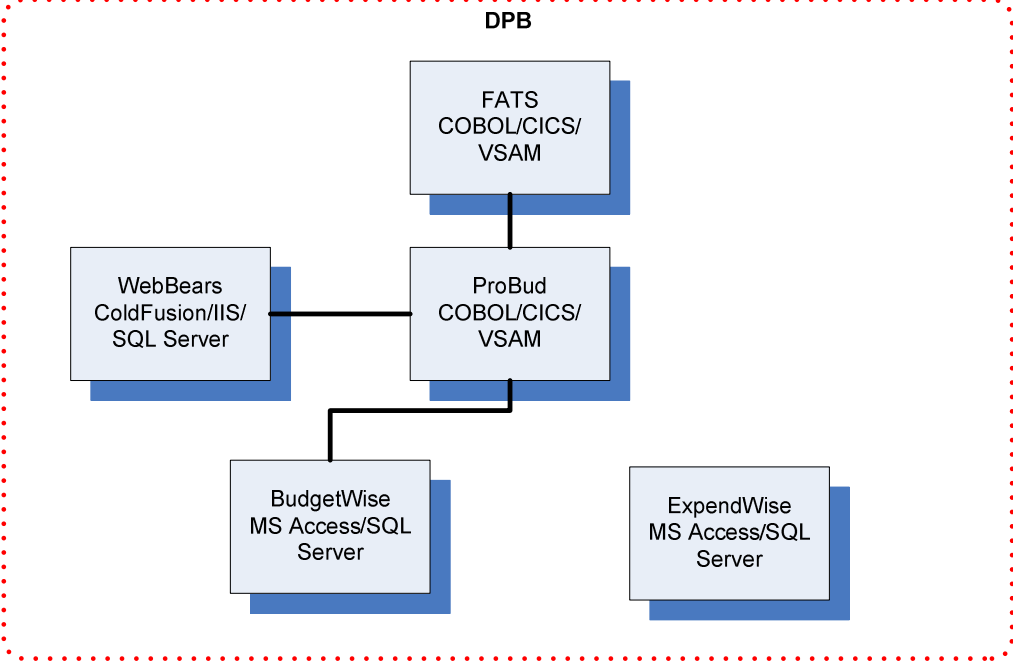
			Oracle – DBMS	
	PeopleSoft EPM 8.9	Planning and Budgeting	PeopleTools – IDE SQR – Data Extract nVision - Reporting Oracle – DBMS	MS Windows Server
	CS, CSCS, TIBS, MACS	Billing applications for comprehensive services, computer services, telecommunications services, consulting services	IBM Mapper, Unisys Mapper, Oracle Forms, .Net Web – Application Adabase, Oracle - DBMS	Mainframe Unix MS Windows Server
	BARF	Budget Analysis and Resource Forecasting	Oracle Forms – Application Oracle – DBMS	MS Windows Server Unix
	TOBARF	Telecommunications Budget Analysis and Resource Forecasting	Oracle Forms – Application Oracle – DBMS	MS Windows Server Unix
	VIPR	Vendor Invoice Processing Reconciliation	Visual Basic – Application Oracle – RDBMS	MS Windows Server Unix
	Dashboards	Executive dashboards for financials and supply chain management	MS Analytical Services – Reporting Oracle - DBMS	MS Windows Server Unix
	SPCC	Small Purchase Credit Card	Microsoft .Net – application Oracle - DBMS	MS Windows Desktop
Reporting and Business Intelligence:	Financial reporting from PeopleSoft Financials is provided by a combination of nVision, Crystal Reports, and SQR. PeopleSoft EPM is utilized for budget reports; delivered EPM reports, and custom nVision reports. An executive dashboard is also provided. Data from multiple applications is consolidated in a central Oracle database to support creation of the dashboard. SQL Server reporting services are utilized to create the dashboard based on the information in the Oracle Database.			
Integration:	<p>There are three application integration approaches leveraged by VITA:</p> <ul style="list-style-type: none"> • Point to Point integration is utilized for data transfers. The technology utilized to support point to point integration includes file transfers and database links to facilitate the transfer of information and SQR to load and extract data. • Web Services are utilized to integrate Credit Card transactions to PeopleSoft Financials • ETL using IBM's DataStage to exchange information between PeopleSoft Financials and PeopleSoft EPM. 			
System Infrastructure:	<ul style="list-style-type: none"> • Intel is the preferred hardware platform. • MS Windows and Solaris are the preferred operating platforms. • .Net is the preferred distributed (web) application architecture. • Security infrastructure includes: <ol style="list-style-type: none"> 1. MS Active Directory 2. Pegasus for external user provisioning 			
External Services:	None are currently being utilized.			

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Development Methodology:	<ul style="list-style-type: none"> • EAAS web development and database standards • EAAS SDLC methodology • Configuration management and migration procedures
Projects Under Development:	<ul style="list-style-type: none"> • Minor enhancements to existing interfaces in Financials and existing Credit Card transaction application. • New feed to billing systems for past due accounts receivables. This project is currently on hold. • New budgeting reports to support FY08 budget development and management. • Testing updates to PS EPM.
Agency Identified Concerns/Issues:	<ul style="list-style-type: none"> • NG/VITA partnership and impacts to the architecture requirements as it relates to the application environment. • New NG/VITA processes – e.g. ITIL (Change, Configuration, and Release Management)

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6. Department of Planning and Budget

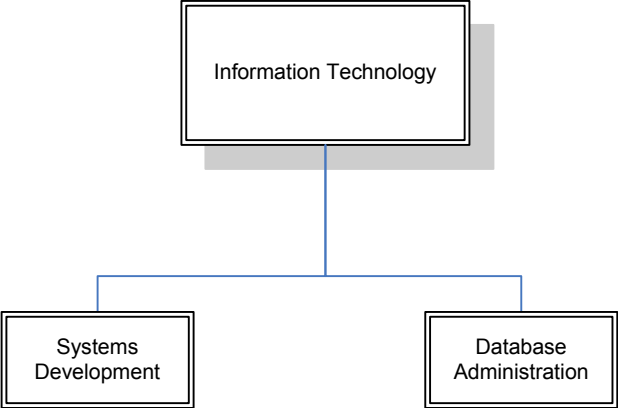
Agency Description:	<p>The Department of Planning and Budget (DPB) is a Virginia executive branch agency that works with the Governor's office, the General Assembly and other state agencies to develop and execute the Commonwealth's budget.</p>
Information Technology Organization:	<p>DPB has a small IT group consisting of two staff and one backup staff to manage the information technology needs of the department. Network and infrastructure support operations are provided by VITA.</p>  <pre> graph TD IT[Information Technology] --> MAD[Mainframe Application Development] IT --> WAD[Web Application Development] </pre>
Budgeting Business Applications Diagram	 <pre> graph TD subgraph DPB FATS[FATS COBOL/CICS/VSAM] --> ProBud[ProBud COBOL/CICS/VSAM] ProBud --> WebBears[WebBears ColdFusion/IIS/SQL Server] ProBud --> BudgetWise[BudgetWise MS Access/SQL Server] ExpendWise[ExpendWise MS Access/SQL Server] end </pre>
Budgeting Business Applications List	<p>DPB currently uses a collection of applications to facilitate budget creation and management and to assist in analyzing budget information. The following table lists the applications and the underlying technology being utilized by the application.</p>

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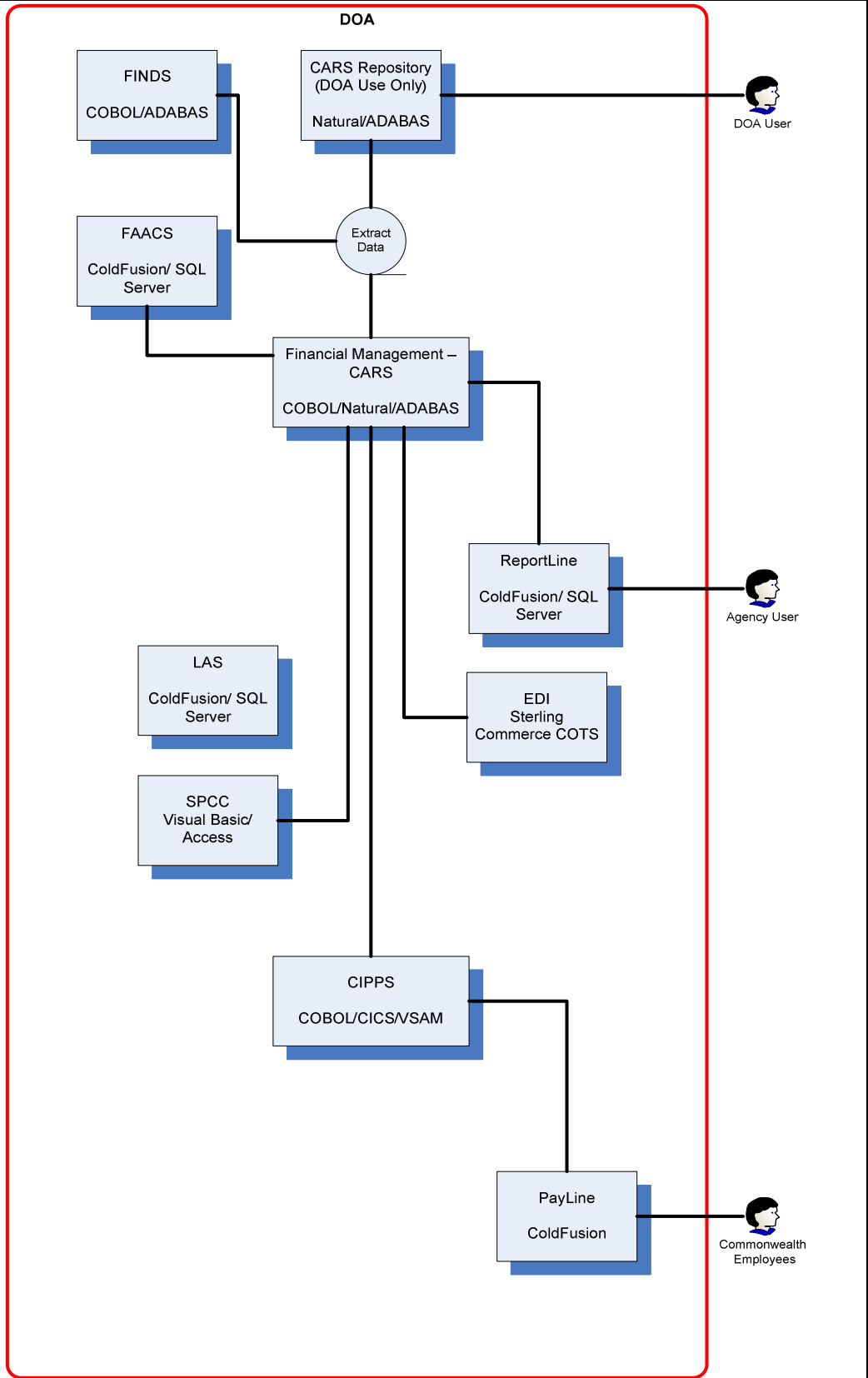
	Application Name	Short Description	Application Technology	Operating Platform
	ProBud	Program budgeting system supporting budget development.	COBOL/CICS/VSAM – Application architecture SAS – Data manipulation (not reporting) EasyTrieve – Data Management/Reporting	Mainframe
	WebBears	Budget creation tool used for agency budget submission	ColdFusion – Application server SQL Server – DBMS IIS – web server	MS Windows Server
	FATS	Form 27 Automated Transaction system utilized to submit budget adjustments	COBOL/CICS/VSAM – Application architecture	Mainframe
	ExpendWise	Revenue and expenditure analysis application	MS Access – application SQL Server – DBMS	MS Windows Server, MS Windows Desktop
	BudgetWise	Budget analysis application	MS Access – application SQL Server – DBMS	MS Windows Server, MS Windows Desktop
	FISCOST	DPB internal and cabinet budget system	Natural – application ADABAS – DBMS	Mainframe
Reporting and Business Intelligence:	Business intelligence capabilities are primarily provided by the ExpendWise and BudgetWise applications. No enterprise reporting tools or data warehouse currently exists.			
Integration:	Point to Point interfaces are the primary method utilized for integration. The technology utilized to support point to point integration is file transfers to facilitate the transfer of information and SAS, COBOL, ColdFusion, and SQL programs to load and extract data.			
System Infrastructure:	<ul style="list-style-type: none"> • Primary applications are on the mainframe. • Windows is the preferred application deployment platform. • Intel is the preferred hardware platform. • VITA provides network services. 			
External Services:	None are currently being utilized			
Development Methodology:	Due to the small size of the information technology group, there is minimal need for a formal software development lifecycle approach. Only minor maintenance is performed on the applications. There are well defined standards followed for development.			
Projects Under Development:	No major projects are currently under development.			
Agency Identified Concerns/Issues:	The ability to respond to legislative requests quickly is a constantly pressing issue for DPB. The implementation of business intelligence capabilities that would allow DPB to respond more rapidly with less effort would be very beneficial.			

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7. Department of Accounts

Agency Description:	The Department of Accounts (DOA) provides a uniform system of accounting, financial reporting, and internal control required to protect and account for the Commonwealth's financial resources.
Information Technology Organization:	<p>DOA has an IT group consisting of 12 staff that is very much application/project focused. Resources are assigned to specific applications with a couple of programmer analysts floating between the application development projects.</p>  <pre> graph TD IT[Information Technology] --- SD[Systems Development] IT --- DA[Database Administration] </pre>

Financial Management Business Applications Diagram



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Financial Management Business Applications	DOA utilizes a collection of applications to provide accounting and financial management services to the Commonwealth. Additional detailed information about DOA applications can be found in the Department of Accounts Systems Descriptions and Overviews document. The following table lists the applications and the underlying technology being utilized by the application.			
	Application Name	Short Description	Application Technology	Operating Platform
	CARS	Commonwealth Accounting and Reporting System	COBOL/Natural/Complete - Application ADABAS – DBMS Mantissa – Report distribution	Mainframe
	EDI	Electronic Data Interchange	Sterling Commerce GENTRAN Basic, Connect Direct (security), CICS, Secure Plus.	Mainframe
	FINDS	Financial Information Downloading System	COBOL/Assembler/Natural – Application TSO/CList - Environment ADABAS - DBMS	Mainframe
	CIPPS	Commonwealth Integrated Personnel and Payroll System – payroll and leave accounting	COBOL/CICS – application VSAM – DBMS Vendor- Extencity-Millennium, PDL – Program Defintion Language, Mantissa – Report distribution	Mainframe
	FAACS	Fixed Asset Accounting Control System used for asset management	COBOL/ColdFusion – Application VSAM/SQL Server – DBMS	Mainframe, MS Windows Server
	LAS	Leased Asset System	ColdFusion – application SQL Server – DBMS	MS Windows Server
	REDI Virginia	EDI vendor communication website	ColdFusion – application SQL Server – DBMS	MS Windows Server
	SPCC	Small Purchase Charge Card	VBA - Application MS Access - DBMS	MS Windows Server
	PayLine	Web payroll/leave information site	ColdFusion – application SQL Server – DBMS	MS Windows Server
ReportLine	Web reports viewing and downloading site	ColdFusion – application SQL Server – DBMS	MS Windows Server	
Reporting and Business	A collection of standard reports are available from the financial applications managed by DOA. Mantissa is used to manage the storage and distribution of report output.			

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Intelligence:	Meta-File's, MetaViewer – is a powerful (searches, downloading) all inclusive image management system that allow capturing, indexing, distributing, retrieving, and archiving, of statewide reports. MetaFile developer – Metafile Information Systems Inc. There is currently no business intelligence platform or data warehouse available at DOA.
Integration:	Point to Point interfaces are the primary method utilized for integration. The technology utilized to support point to point integration is file transfers to facilitate the transfer of information and COBOL, ColdFusion, and SQL programs to load and extract data.
System Infrastructure:	<ul style="list-style-type: none"> • The core financial management applications are primarily on the mainframe. • Windows is the preferred application deployment platform for new applications. • Intel is the preferred hardware platform for new applications. • Network services are provided to DOA by VITA.
External Services:	No external services are currently being utilized.
Development Methodology:	<ul style="list-style-type: none"> • The team follows a structured approach, SMR (System Modification Request), for development activities that are estimated to take more than 16 hours. The SMR workflow consists of Request, Approve, Schedule, and Sign-Off. • For activities requiring less than 16 hours, the team has established a “quick fix” path. • Use of test environments and rigorous migration procedures. • There is no version control. The approach adopted is to keep a copy of the last good production environment.
Projects Under Development:	No major projects are currently under development.
Agency Identified Concerns/Issues:	The primary concern identified was related to VEAP project execution. DOA staff feel that the scale of what will be replaced as part of the VEAP program is not fully understood. For instance, CARS is not just a General Ledger system. CARS includes several financial business functions, some of which are identified above. See DOA's Systems Description and Overview for a complete list of Accounting and Payroll business applications.