

Health and Human Resources (HHR)

Modernization Program

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Agenda

- Overview
- Strategy
- Technology
- Enterprise Perspective
- Summary
- Questions

Overview

External Drivers

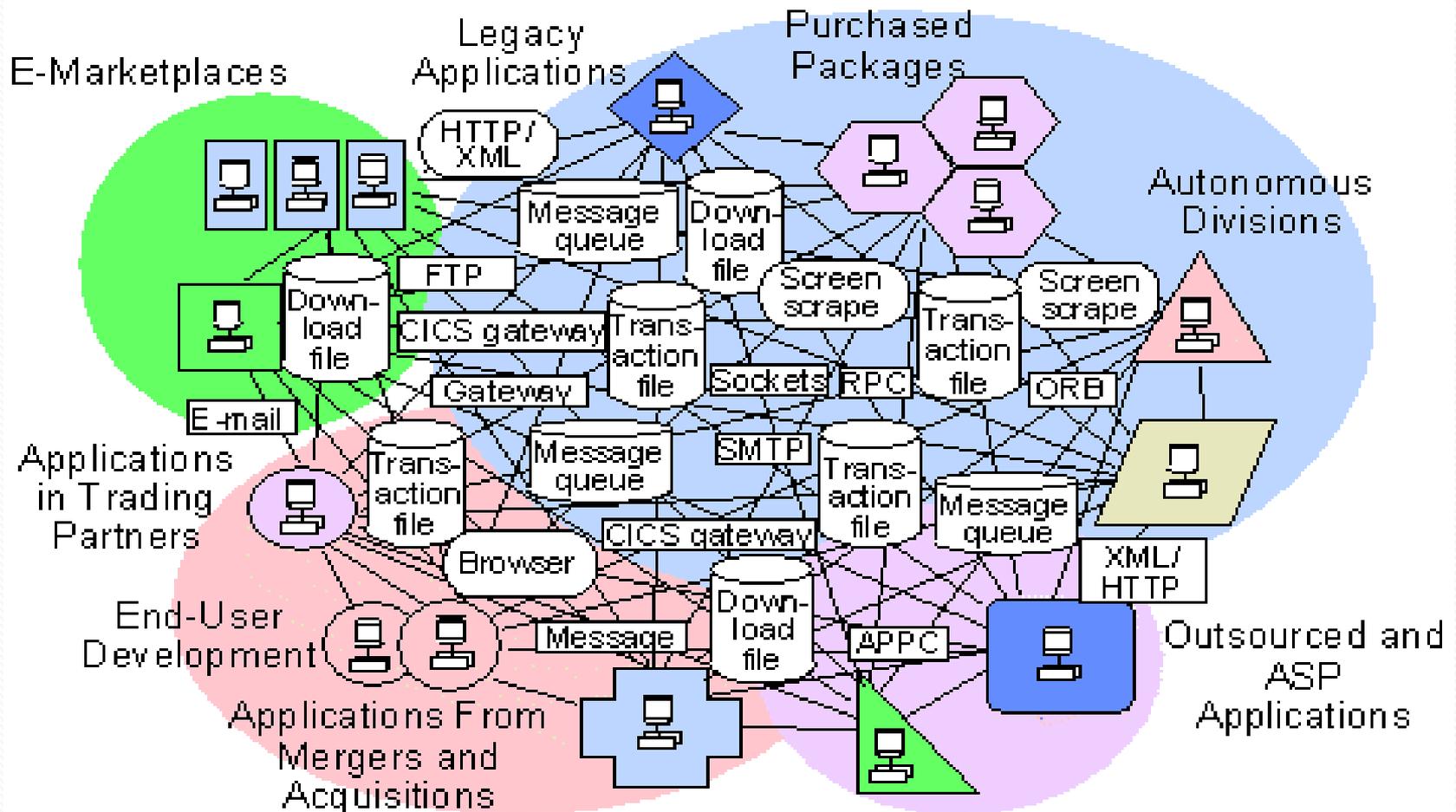
- Coordinated Federal and State efforts are addressing health care reform. These efforts are being driven by the American Recovery and Reinvestment Act (ARRA) and the Patient Protection and Affordable Care Act (ACA). Further, there is significant Federal funding assistance available to the States from these Acts.
 - Relevant provisions in ARRA are funding the Health Information Exchanges (clinical information exchanges) as well as a provider incentive program for hospitals and professional practices to adopt, implement, or upgrade and meaningfully use certified electronic medical record systems (EMRs).
 - Relevant provisions in PPACA are funding an expansion of Medicaid (~40%+ increase in members); the Health Benefit Exchange (insurance exchange); Federal subsidies for purchasing of health insurance; and an enhanced match for the States to replace/renovate their eligibility systems to support a streamlined eligibility process necessary to support a Health Benefit Exchange.

Strategy

- Leverage Medicaid IT Architecture (MITA) as core strategy to address both ARRA and PPACA requirements
 - Adopt MITA vision (self-directed services)
 - Program agnostic
 - MITA Technical Architecture Standard is for a hub-based Service Oriented Architecture (SOA)
 - Look at requirements from an enterprise perspective
 - Use MITA State Self Assessment process to align efforts to Federal direction
 - Establish HHR Program Office (a.k.a. HIT/MITA Program Office)
 - Maximize Federal funding assistance
- Leverage Virginia's existing assets
 - DSS Enterprise Delivery System Program (EDSP)
 - VITA provides enterprise infrastructure
 - Governance, standards, competency centers (new), hosting, disaster recovery, strategic planning, help desk, cost allocation/rate setting, IT procurement/project approval, project management
 - Strategic planning at Secretariat level with State Agency alignment begins to reflect migration path to enterprise interoperability
 - HHR IT Strategic Plan (ITSP) completed and approved
 - Data Sharing committee has been meeting to develop recommendations
 - Establish trust agreement framework based on the Data Use and Reciprocal Support Agreement (DURSA) model.
 - Legacy systems can interoperate on the enterprise using standards-based services/interfaces
- Enterprise technical environments available to all Federal, State, and local Agency programs on a pay-for-use basis.

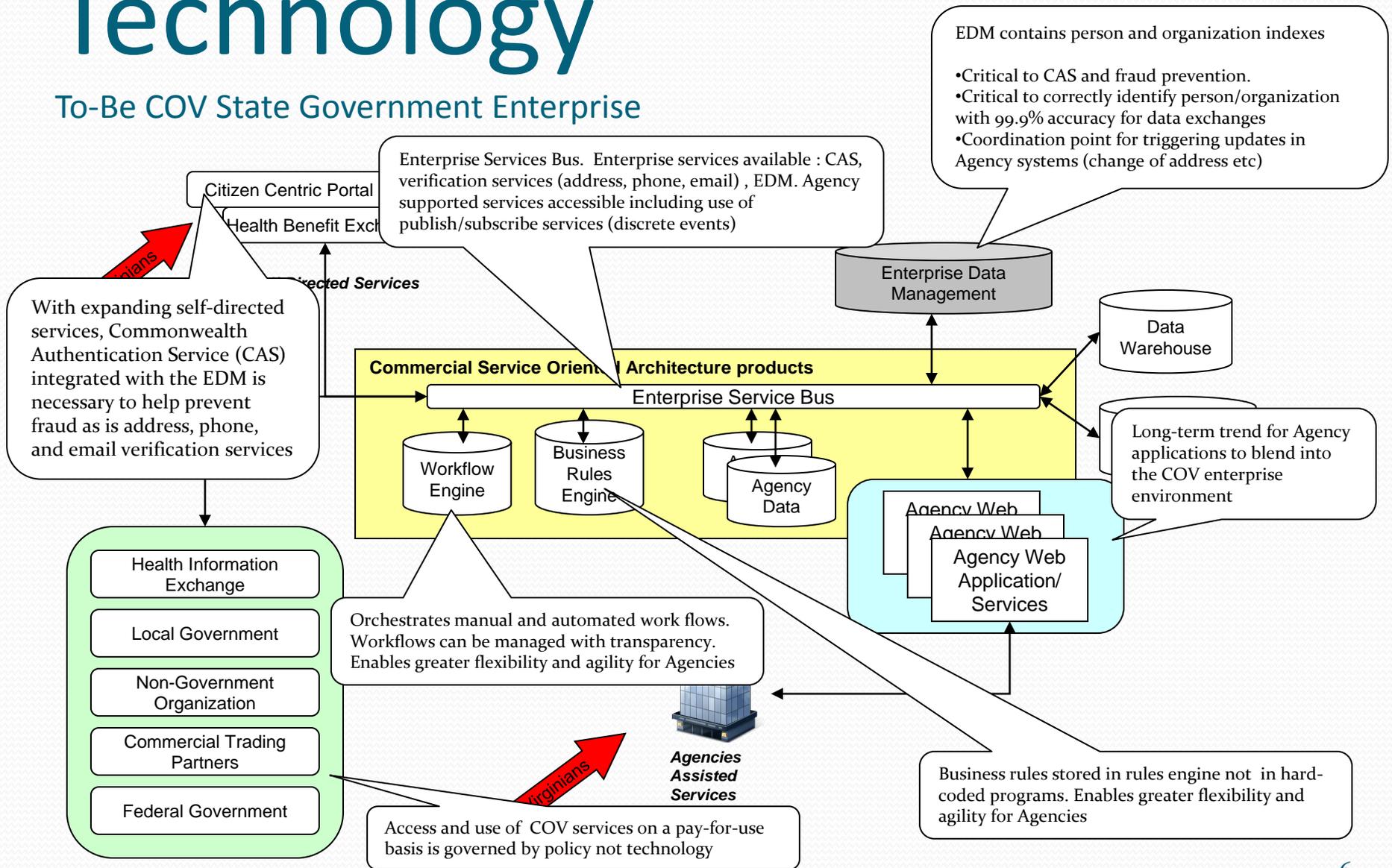
Technology

As-Is - Today's State Government Technology Challenges...



Technology

To-Be COV State Government Enterprise



Enterprise

Technical Infrastructure

Major Components	Purpose	Note
Enterprise Service Bus (IBM product)	Communications hub for the enterprise. An Agency only needs one connection to ESB to access anything on the enterprise	Includes the service registries for lookup of available services
Enterprise Data Management (IBM product)	Index of person and organization including house holding	All State government systems need to feed person/organization information into EDM in order to exchange data with 99.9% accuracy rate. Also serves as the coordination point for change notification to state systems on person/organization information (publish/subscribe model)
Business Rules Engine (IBM product)	Store business rules by agency/program.	Business rules are not hard-coded into computer programs. Provides capability to quickly update/modify business rules as business needs dictate. Fosters business agility for change.
Workflow Engine (IBM product)	Orchestrates manual or automated workflow/processes	Workflows are not hard-coded into programs. Provides transparency and reporting on Service Level Agreements. Provides capability to quickly update/modify business processes/workflow as business needs dictate. Fosters business agility for change.
CAS	User authentication. Service developed by DMV in cooperation with HHR ensures the user is who they say they are.	Integrated with EDM. Major component in web-based fraud prevention.
Address, email, and phone verification services	Commercial services for address verification, email, and phone number verification.	Major component in web-based fraud prevention at point of entry by a user.
Technical Environments: development, test, training, production, and disaster recovery	To support application development life-cycle.	Production environment is high-availability.

Enterprise

Infrastructure Support

Major Components	Purpose	Note
VITA SOA Competency Center	To provide technical support for SOA environment in operations phase (post implementation)	Includes the on boarding process (similar to HIE). Setup funded by Medicaid.
VITA EDM Competency Center	To provide technical support for EDM product in operations phase (post implementation)	Includes the on boarding process (similar to HIE) as well as supporting data stewards. Setup funded by Medicaid.
EDM Data Steward role	To resolve duplicates and other data issues from the Agency merge processes in the operations phase (post implementation)	Based on IBM best practices. A small set of multi-agency staff in the data steward role cooperatively address EDM data issues.
Enterprise Data Governance Group	To support enterprise interoperability by use of COV approved standards.	Implementation guides (a.k.a. interface specifications) are posted by EDG on the VITA web site. Group funded by Medicaid.

Enterprise

VITA Business Support

Major Components	Purpose	Note
IT Projects/Procurements	To encourage use of COV enterprise environment, tools, and services	Helps reduce long-term operational costs for all programs (including Medicaid)
IT strategic plans	To encourage alignment with COV enterprise environment, tools, and services	Helps to improve accurate data exchange with Agency systems. Of specific interest to Medicaid are the many agencies that eligibility workers access to get information needed for eligibility determinations.
VITA Program office	To coordinate efforts within the partnership to establish the enterprise infrastructure. In operations phase to coordinate on boarding of Agencies.	Currently funded by Medicaid
Promotion	To market capabilities and uses of the Enterprise to State and Local Government Agencies	

Summary

- Enterprise technical products and environments available to all Federal, State, and local Agency programs on a pay-for-use basis
 - Have been looking at this from an enterprise perspective.
- Virginia Medicaid is making ~\$28M (note 1) capital investment in technology infrastructure
 - IBM Technology Stack
 - SOA components (Enterprise Service Bus & registries)
 - Workflow Engine
 - Rules Engine
 - Enterprise Data Management (EDM)
 - Hardware
 - Technical environments
 - Development, test, training, production, disaster recovery
 - High availability production environment
 - DMV
 - Development of the Commonwealth Authentication Service
 - VITA
 - SOA and EDM competency centers (operations phase)
 - Enterprise Data Governance Group (EDG)
 - VITA program office
- Desired billing for enterprise
 - Subscription model (not transaction/click based)
 - Basic subscription includes ESB, CAS, EDM, address verification service, phone verification service, email verification service as well as use of development, test, and production environments.
 - Advanced subscription includes all the above plus workflow and business rule engines
 - VITA SOA and EDM competency centers as well as EDG are rolled into subscription costs

Note 1: Includes cost estimate increases of about \$1M to VITA & DMV projects

Questions?

