Nationwide Health Information Network "NwHIN"

Presenter:

Christina Palumbo

Adapter/VistAWeb IT Project Manager

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NwHIN Contents

The President's direction forms the basis for VLER

"The DOD and VA will work together to define and build a system that will ultimately contain administrative and medical information from the day an individual enters military service throughout their military career, and after they leave the military."

President Barack Obama

April 09, 2009

How does NwHIN support VLER?

The Nationwide Health Information Network (NwHIN) Program strives to advance the direct exchange of health information between federal agencies and non-federal entities thereby supporting quality and efficient health care, as required by Executive Order 13410 "Promoting Quality and Efficient Health Care in Federal Government Administered or Sponsored Health Care Programs", Towards the end, the NwHIN Program exists to ensure the success of its underlying projects, each of which is responsible for the development of functionality critical to the Program's mission.
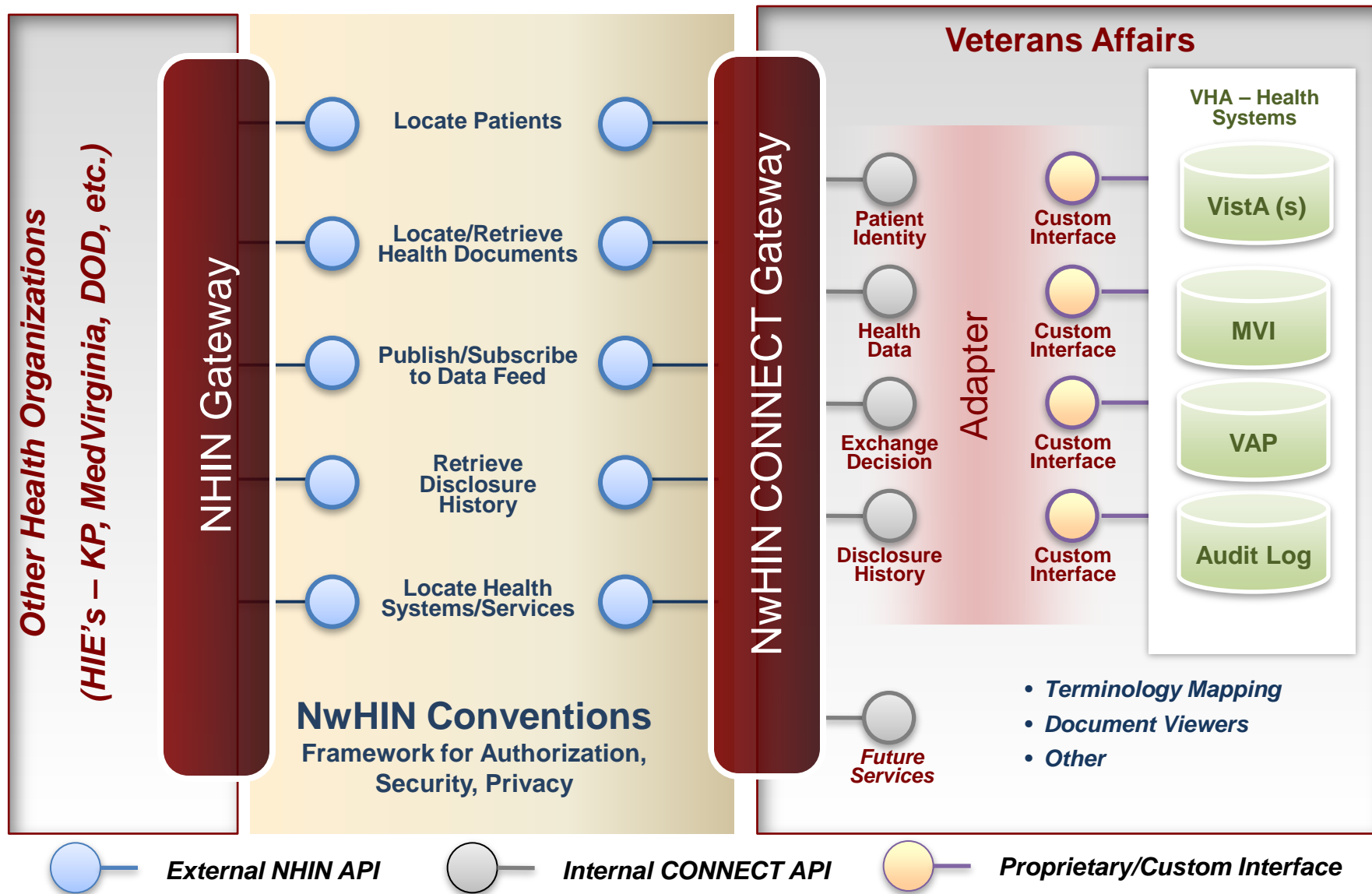
- A Network of Networks
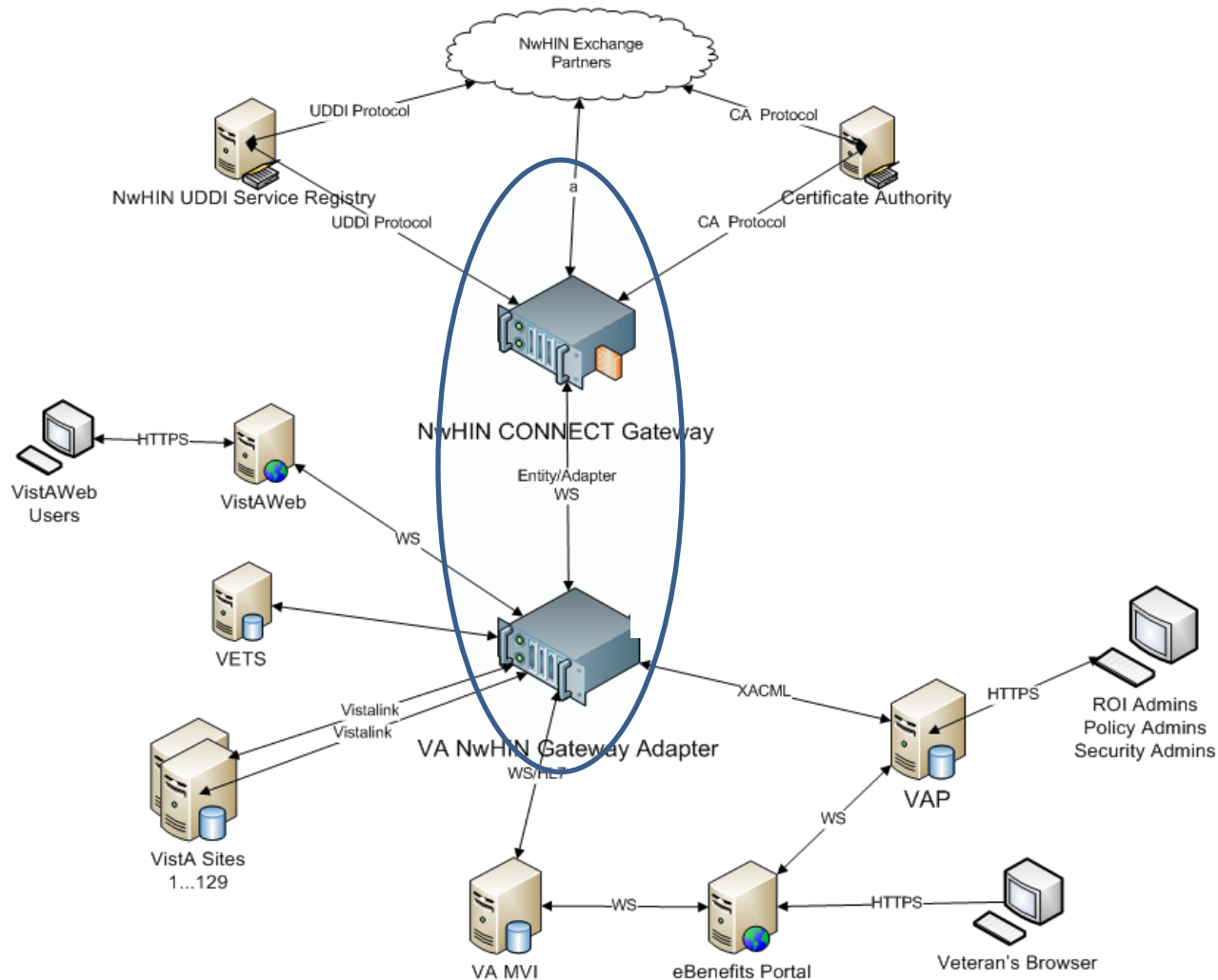- A set of standards, services and policies that enables secure health information exchange over the Internet

WHAT IS NwHIN

Other Health Organizations

(HIE's – KP, MedVirginia, DOD, etc.)

NHIN Gateway

- Locate Patients
- Locate/Retrieve Health Documents
- Publish/Subscribe to Data Feed
- Retrieve Disclosure History
- Locate Health Systems/Services

NwHIN Conventions
Framework for Authorization, Security, Privacy

NwHIN CONNECT Gateway

Veterans Affairs

Adapter

- Patient Identity
- Health Data
- Exchange Decision
- Disclosure History
- *Future Services*

- Custom Interface
- Custom Interface
- Custom Interface
- Custom Interface

VHA – Health Systems

- VistA (s)
- MVI
- VAP
- Audit Log

- *Terminology Mapping*
- *Document Viewers*
- *Other*

External NHIN API   *Internal CONNECT API*   *Proprietary/Custom Interface*

High Level Architecture

Deployment Model for Production HA configuration

Linux (x2)
- Direct Database (Oracle Cluster)

Linux (x2-n)
- Direct gateway

SMTP POP3 HTTPS

Gateway.server02

Gateway.server01

VA Applications (Vista, etc.)

Load Balancer

HTTPS

Linux (x2-n)
- Direct config-UI
- Direct Service
- VA Direct UI (Weblogic)

Direct user UI

smtp.va.gov

IronPort

DNS

SMTP / S/MIME

NwHIN Direct

MX Primary – gateway.server01
MX Secondary – gateway.server02
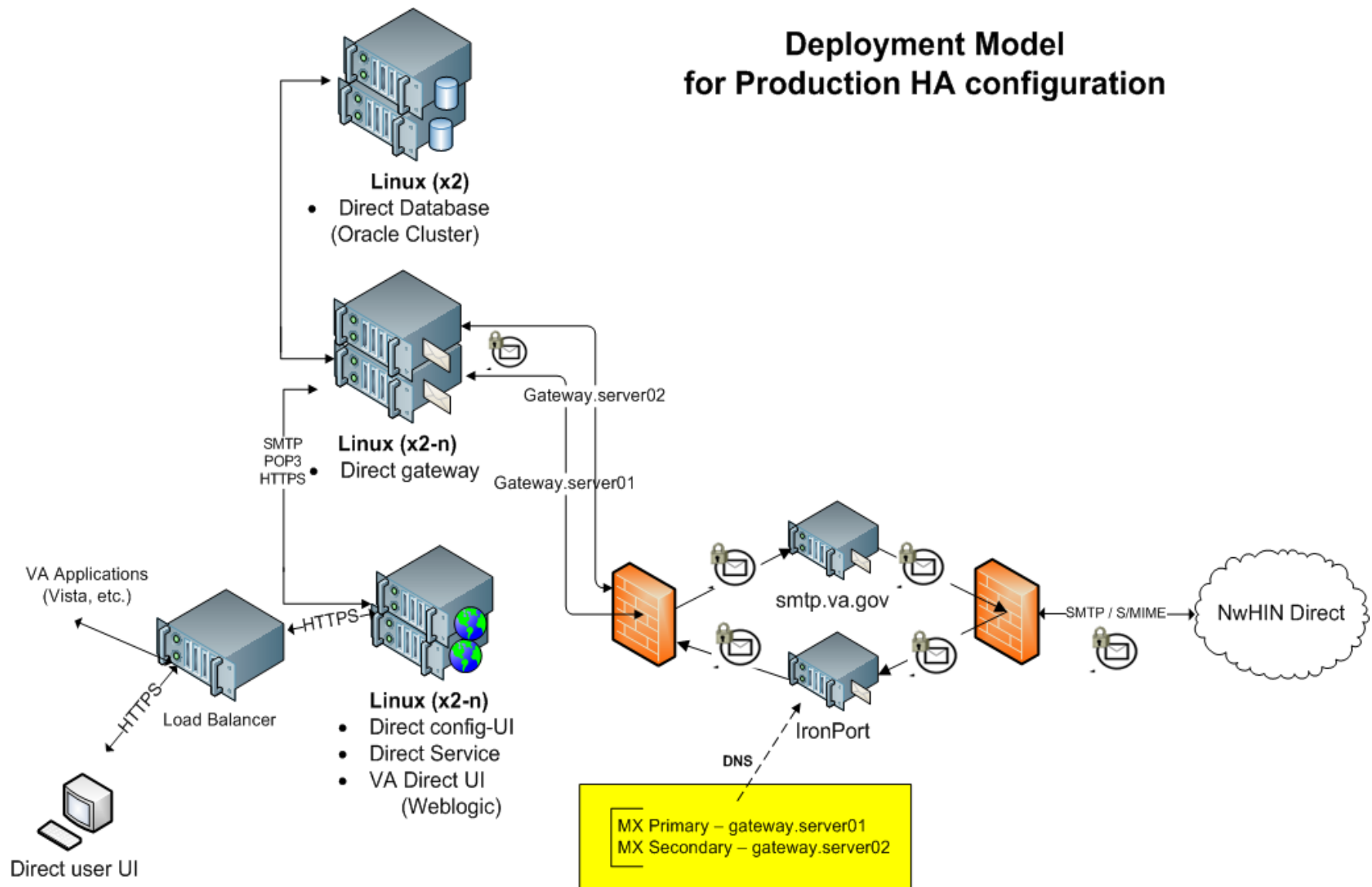
Data Domains

1. Person Demographics
2. Support/Contact Info (Emergency, NOK)
3. Allergies
4. Problems
5. Medications (Outpatient, Self-Reported)
6. Outpatient Pharmacy
7. Vital Signs
8. Labs – Chemistry and Hematology
9. Immunizations
10. List of Encounters (Outpatient)
11. List of Procedures (Surgery, Radiology)
12. Information Source
13. Consults and Referrals (Sept 2011)
14. Discharge Summaries (Sept 2011)
15. Procedure Notes (Sept 2011)
16. Histories and Physicals (Sept 2011)
17. Results of Diagnostic Studies (Sept 2011)

External Partners

1. DOD
2. San Diego KAISER PERMANANTE
3. MED VIRGINIA
4. ASHVILLE
5. SPOKANE
6. INDIANAPOLIS, INDIANA (Sept)
7. PUGET SOUND , WASHINGTON (Sept)
8. Rural Utah (Sept)
9. Site #9 (Sept)
10. Site #10 (Sept)
11. Site #11 (Sept)

User Interfaces

1. VistAWeb
2. eBenefits
3. Adapter CPP Web Page

Data Protocols

1. TCP/IP
2. HTTP(S)
3. O/JDBC, JMS. RMI (EJB)
4. Web Services
5. VistALink/RPC

Services Used

1. VistA RPCs
2. VA MVI
3. VAP (Nov 2011)
4. VETS (Sept 2011)

Data Standards

1. Continuity of Care (CCD):
   >C32-Patient Summary Record
   > C62-Clincial Notes (Sept 2011)
2. IHE XCA
3. RxNORM, LOINC, SNOMED, ICD-9, CPT (VETS Translation in Sept)

Department of Veterans Affairs

- Veterans Health Administration
- Veterans Benefit Administration

Department of Defense

- All four branches of the military
- United States Coast Guard
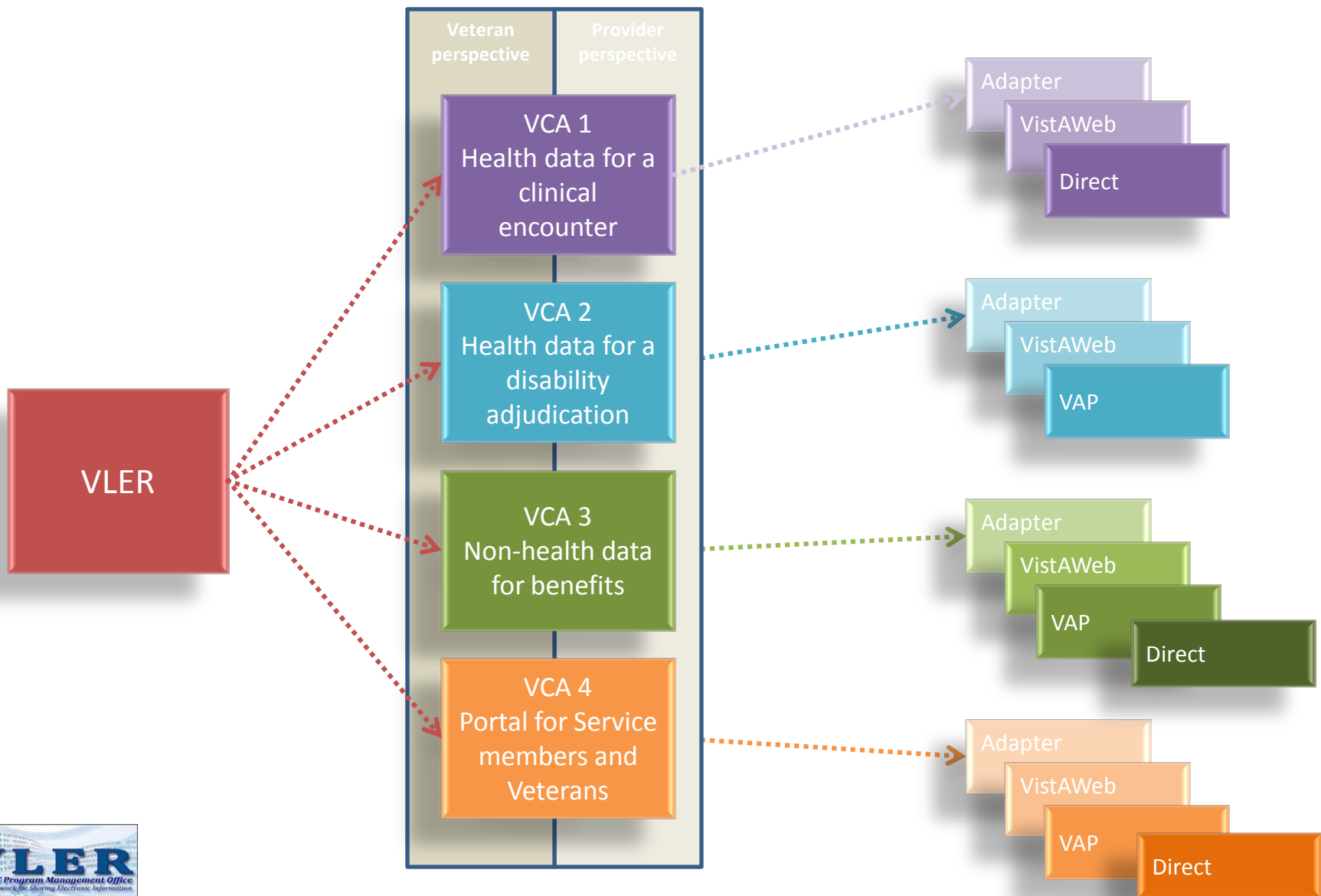
Other Federal Partners

- Social Security Administration

Private Sector

- Health Systems
- Primary Care Physicians
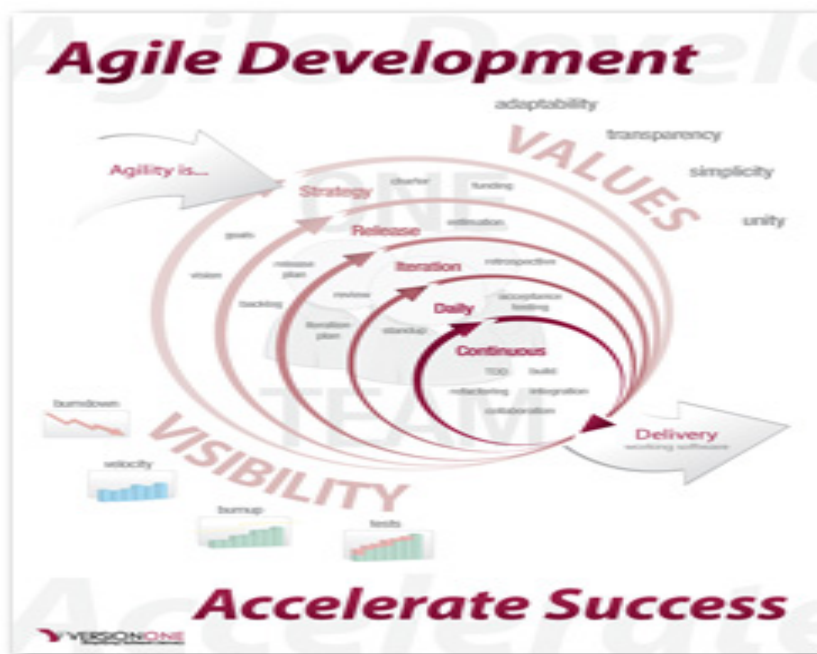- Specialists

Veterans

VLER Capability Areas Map

NwHIN Process

Our process is to help develop a common architecture to drive health information sharing technology. NwHIN utilizes the Agile methodology across highly integrated workstreams to create the most efficient process. The solution NwHIN provides is an integral part of the VLER initiative.
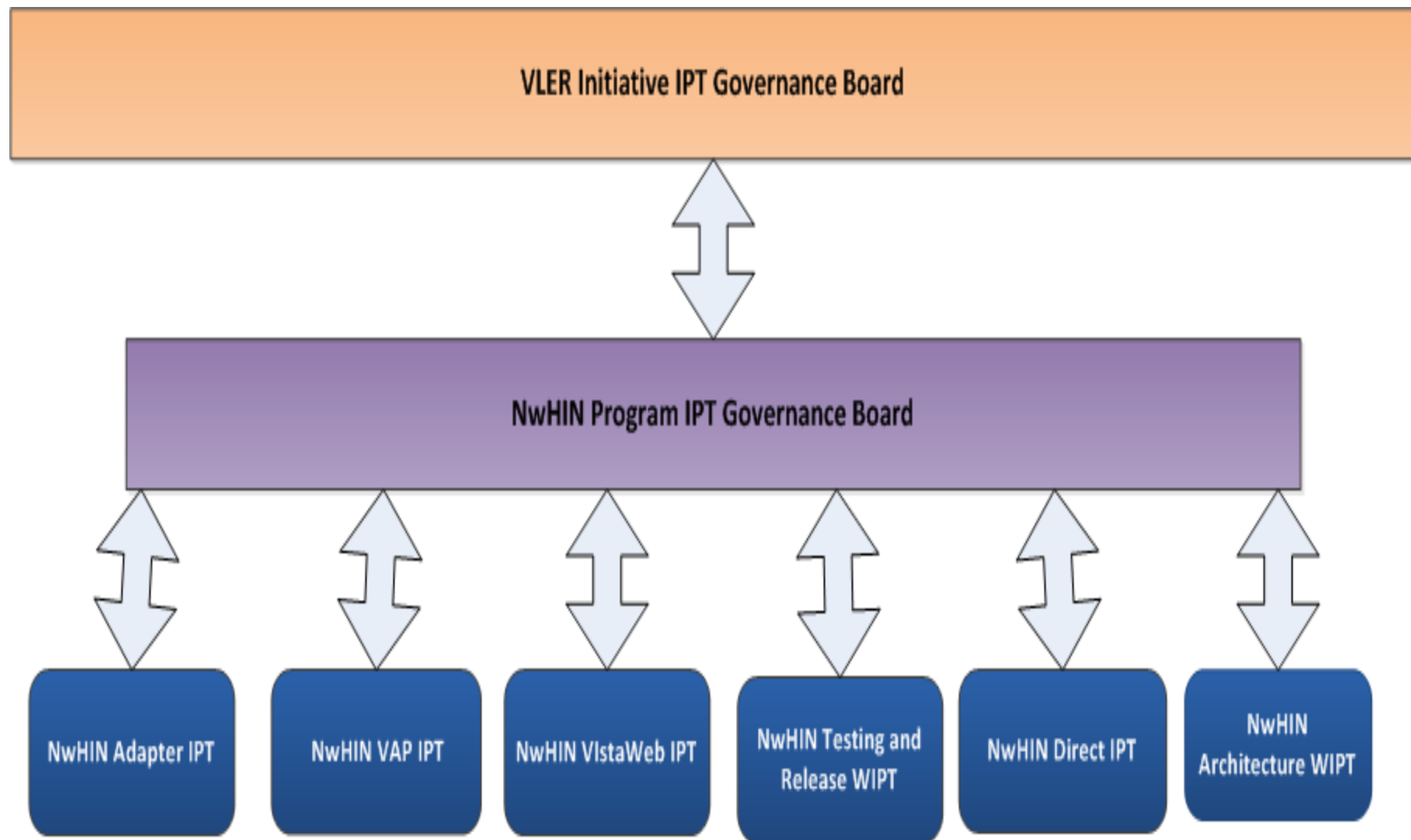
Projects Under NwHIN Program

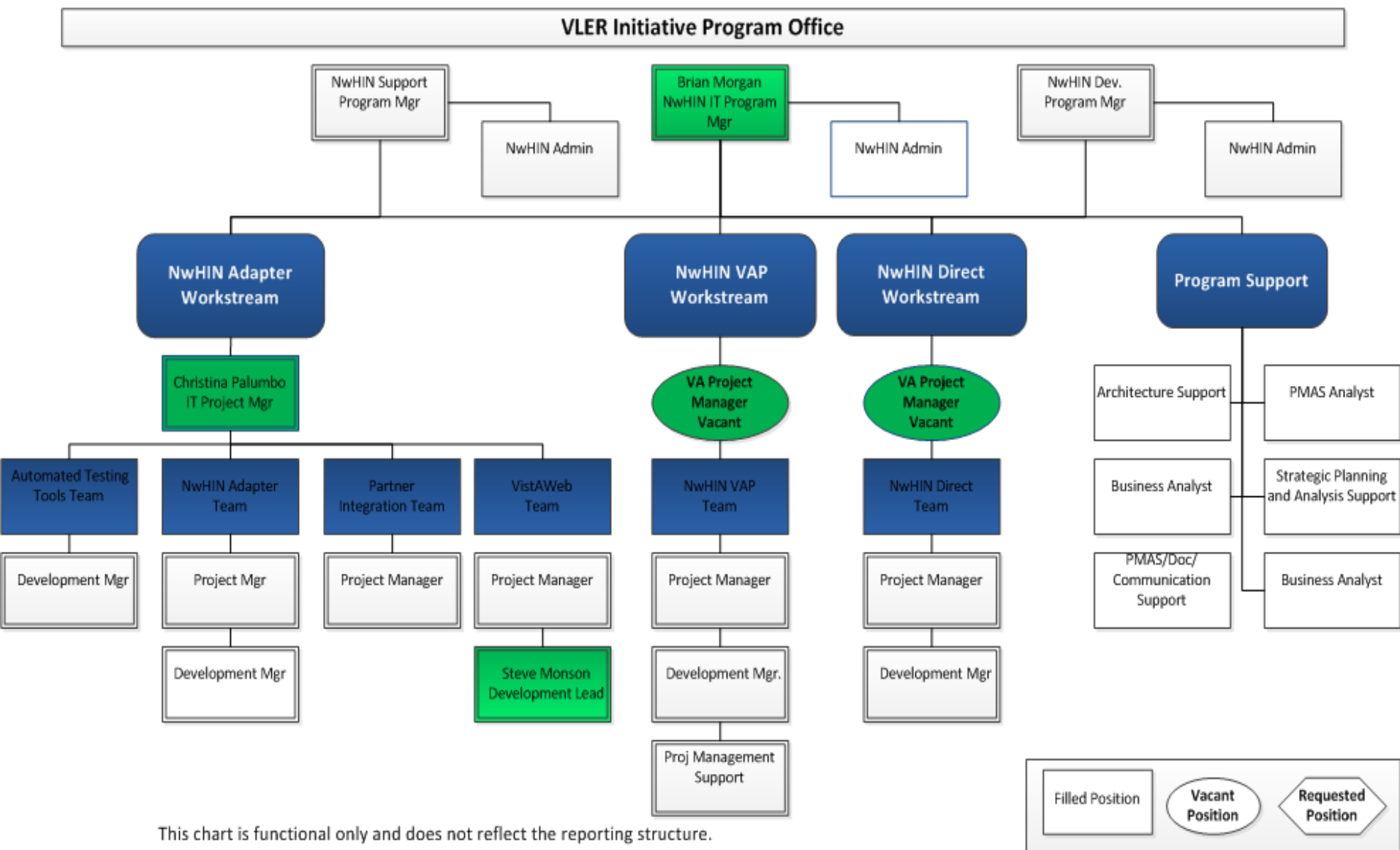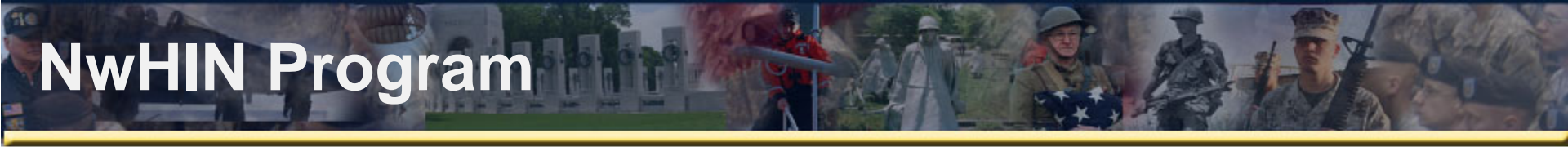| Project	Description
NwHIN Gateway/Adapter	CONNECT Gateway and VA NwHIN Adapter supports the exchange of health information with the partners.
VAP	Veterans Authorization and Preference (VAP) is a system for controlling access to health information accessible via NwHIN. This system also manages and stores the Veteran's preferences for sharing health information via NwHIN.
VistAWeb	A web based system used for displaying aggregated health information from VistA sites and NwHIN Partners. This system provides the user interface for NwHIN.
NwHIN Direct	NwHIN Direct is a system that allows VA to deliver and receive encrypted health information directly to known trusted recipients (external providers) over the Internet.
Partner Integration / Test Tools	The Automated Tools project will create tools to support the need to automate the testing of new NwHIN partners. The Partner Integration project was created with the goal of on-boarding new partners effectively and provide support in Partner Integration Testing.

Program Governance Structure

NwHIN Program Management

NwHIN Program Management Office

VLER Initiative Program Office

- NwHIN Support Program Mgr
  - NwHIN Admin
- Brian Morgan NwHIN IT Program Mgr
  - NwHIN Admin
- NwHIN Dev. Program Mgr
  - NwHIN Admin

NwHIN Adapter Workstream
- Christina Palumbo IT Project Mgr
  - Automated Testing Tools Team
    - Development Mgr
  - NwHIN Adapter Team
    - Project Mgr
      - Development Mgr
  - Partner Integration Team
    - Project Manager
  - VistAWeb Team
    - Project Manager
      - Steve Monson Development Lead

NwHIN VAP Workstream
- VA Project Manager Vacant
  - NwHIN VAP Team
    - Project Manager
      - Development Mgr.
        - Proj Management Support

NwHIN Direct Workstream
- VA Project Manager Vacant
  - NwHIN Direct Team
    - Project Manager
      - Development Mgr

Program Support
- Architecture Support
- PMAS Analyst
- Business Analyst
- Strategic Planning and Analysis Support
- PMAS/Doc/ Communication Support
- Business Analyst

Legend: Filled Position | Vacant Position | Requested Position

This chart is functional only and does not reflect the reporting structure.

Questions