Agenda

- **BC Health Care Overview**

- **Why do we care about IdM?**
  a healthcare perspective

- **Current Activities**
  - **MoH iEHR Working Group**
  - **HA Internal Activities**
  - **IHA - PHSA Community of Practice**

- **Questions**

BC Health Overview

BC Health Care Overview

- **6 Health Authorities**
  - **5 Geographic distribution**
  - **1 Provincial scope – Provincial Health Services Authority**
- **Approx. 100,000 Health Care Workers**
  - **29,000 Nurses**
  - **14,000 Allied Health Professionals**
  - **9,000 Physicians**
  - **15,000 Community Care**
  - **44,000 Support Services**

Why do we care about IdM?
a health care perspective

What is IdM? - The Confusion

IdM Defined ... simply

Identity Management is the **process** and **technology** used to manage **digital identities** as well as the **policies** that govern how the identities can be used to **access IT resources**

Health Care Challenges

1. **Internal Identity Management**
   - Complex mass of non-integrated, unique applications
   - Ill defined provisioning/de-provisioning processes
   - Generic IDs
2. **Information Sharing between Health Authorities**
   - Lack of application standards
   - 60% of information that makes up BCCA patient chart comes from another Health Authority
3. **Primary Care Physicians Offices**
   - Needs access to information from many different Health Authorities
4. **Broader Public Sector (UBC Med & MCF)**
   - Medical students rotations
5. **The Public**
   - Viewing your lab results from home

Electronic Health Record

- One of the main provincial focuses is the development of the integrated Electronic Health Record (iEHR).

- The iEHR provides each person with a secure and private lifetime record of their key health history and care within the health system.

- The record is available electronically to authorized health care providers and the individual anywhere, anytime.

- iEHR depends on a Trusted Model for User Authentication.

Identity Management
for BC Healthcare

Current Health IdM Activities

- **BC Ministry of Health iEHR Working Group**
  - Development of User Trust Model

- **Internal Health Authority Architectural Redesign**
  - Build up of Extranet facing services
  - Internal account provisioning clean up, many HAs deploying MIIS

- **Cross Health Authority Federated IdM Project**
  - Community of Practice (COP) SharePoint site between Interior Health Authority and Provincial Health Services Authority.
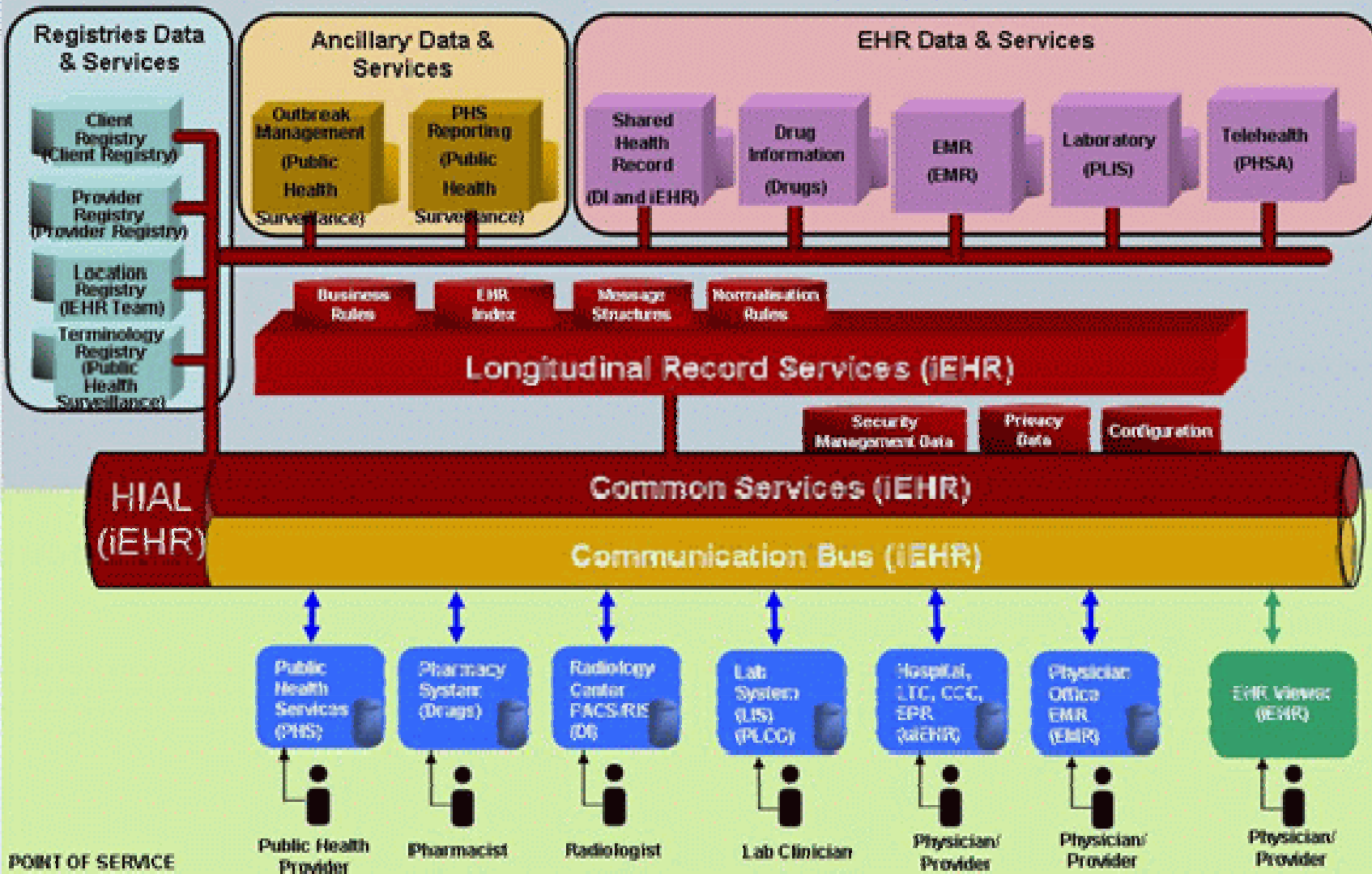
iEHR Blueprint
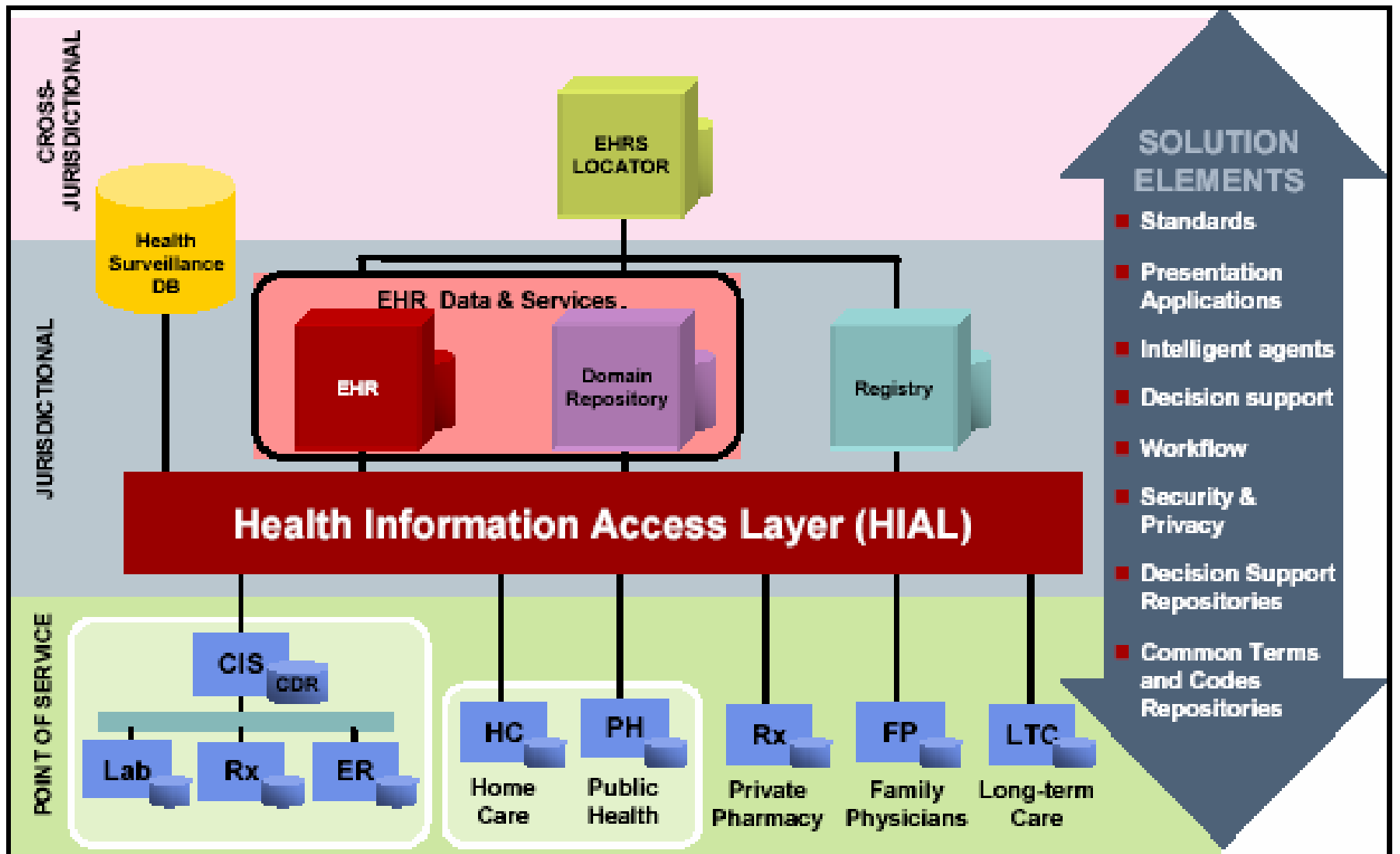
iEHR Infostructure

iEHR Working Group

- The iEHR needs to ensure that all users of EHR services have verified identities, are authenticated during each session, and are authorised to access data and services.

- 3 Trust Models:
    1. Centralized Administration of all Users.
    2. Organizational Trusted User Management Model (OTUM) – the application connected to the EHR is trusted.
    3. If an Application is not trusted, then the EHRi Trusted User Management model (ETUM) must be followed.

EHR Trusted User Management

- **ETUM Recommendation**
  - Better accommodates users that exist outside of Health Authorities.
  - Authentication is not application dependent.
  - Federation can be used to give HA users simplified sign-on.
  - Scalable to as many organizations as needed with as many applications within those organizations as needed.
- Health Authorities will act as a 'local registration authority' to attest to identity of a prospective user

iEHR Next Steps

- **Currently in Joint Solutions Request for Proposal (JSRFP), with Provincial Lab Information System**
  - 1) Four vendors selected based upon Capacity/Commitment/Capability: Mar 31st
  - 2) Two vendors to be selected based upon Solution Concept: May 2006
  - 3) Joint Solutions Design: May - Sept 2006 IdM design/approach defined with vendor
  - 4) Contract Completion: Dec 2006
  - 5) Design/Development: Throughout 2007
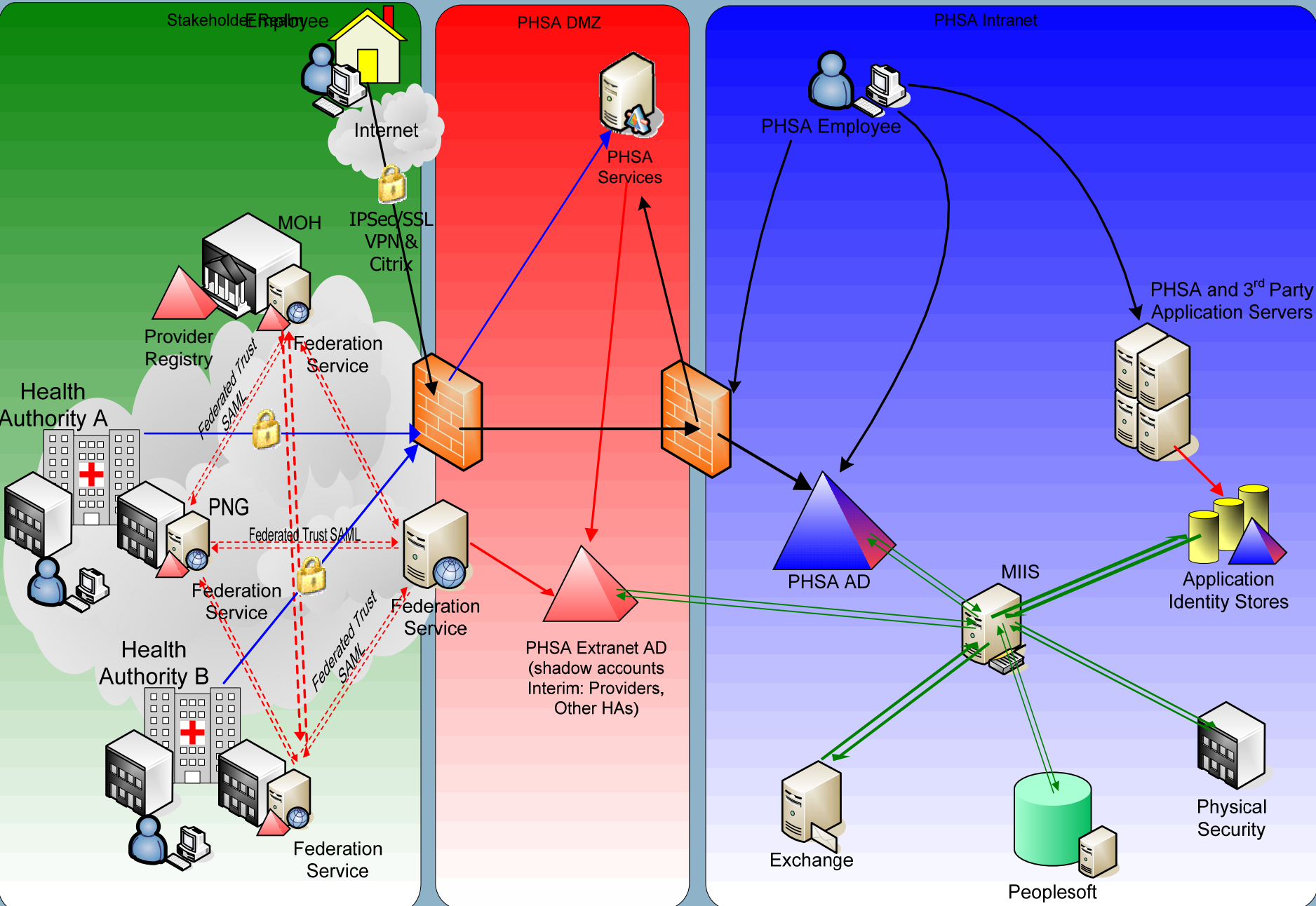 - 6) Implementation: 2008 onwards

Internal IdM Activities

- **PHSA**
  - **Developed IdM Architecture for Health in 2005**
  - **Deployed 2 Extranet AD environments and MIIS (Internet & PNG) in July 2005**
  - **Currently working on PeopleSoft integration**
- **VCHA**
  - **Currently deploying MIIS and PSync to Support Extranet Deployment (Internet)**

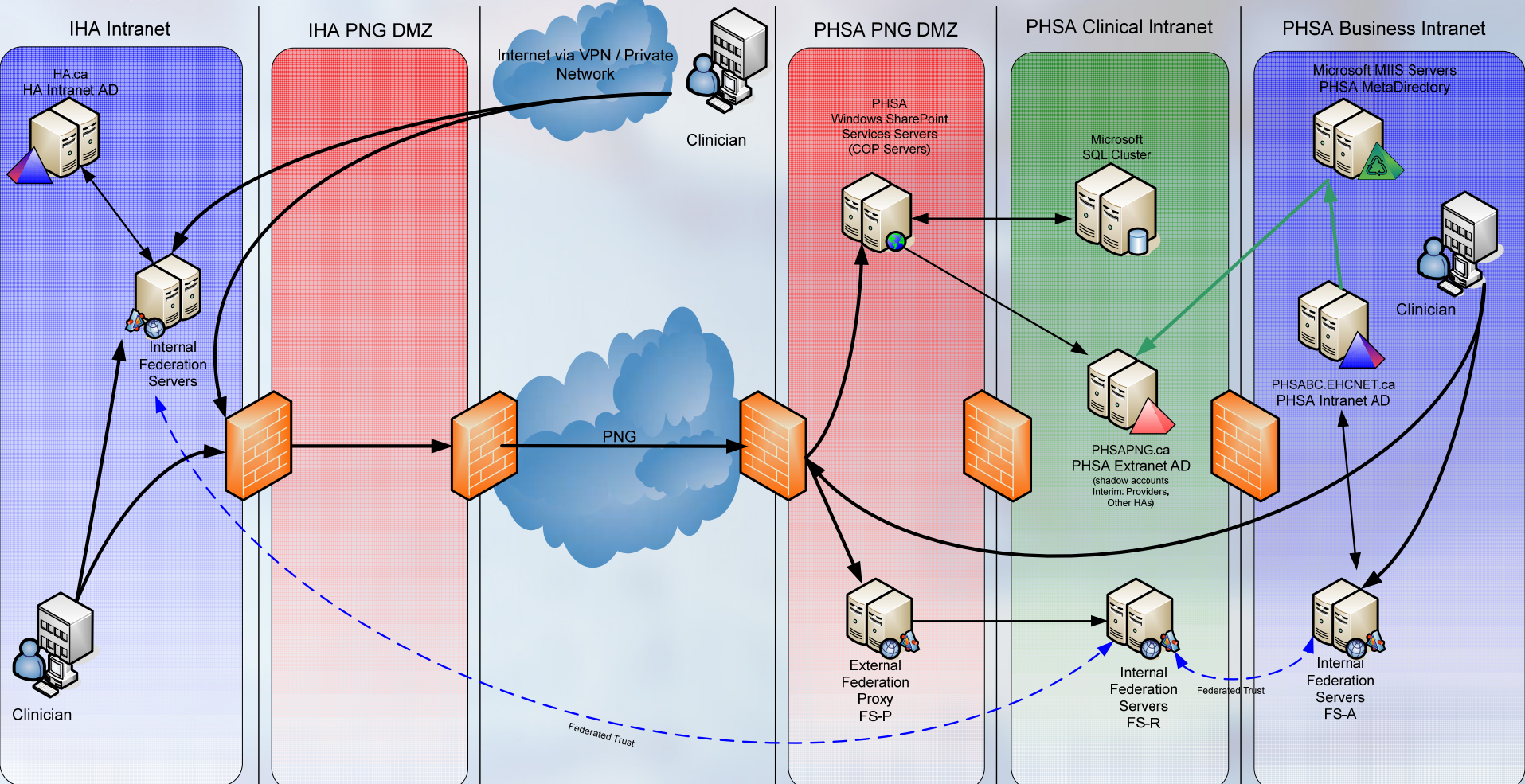PHSA Identity Management Solution Concept

Federated Authorities Project

- SharePoint Team Site (Communities of Practice – CoP) for information exchange regarding cancer patients between IHA and PHSA.

- Objectives:
  - Improve communication between clinicians
  - Prove FIdM (ADFS/WS-Federation)

- Starting with 30 users

- Hundreds of requests for CoP sites with cross authority user membership.

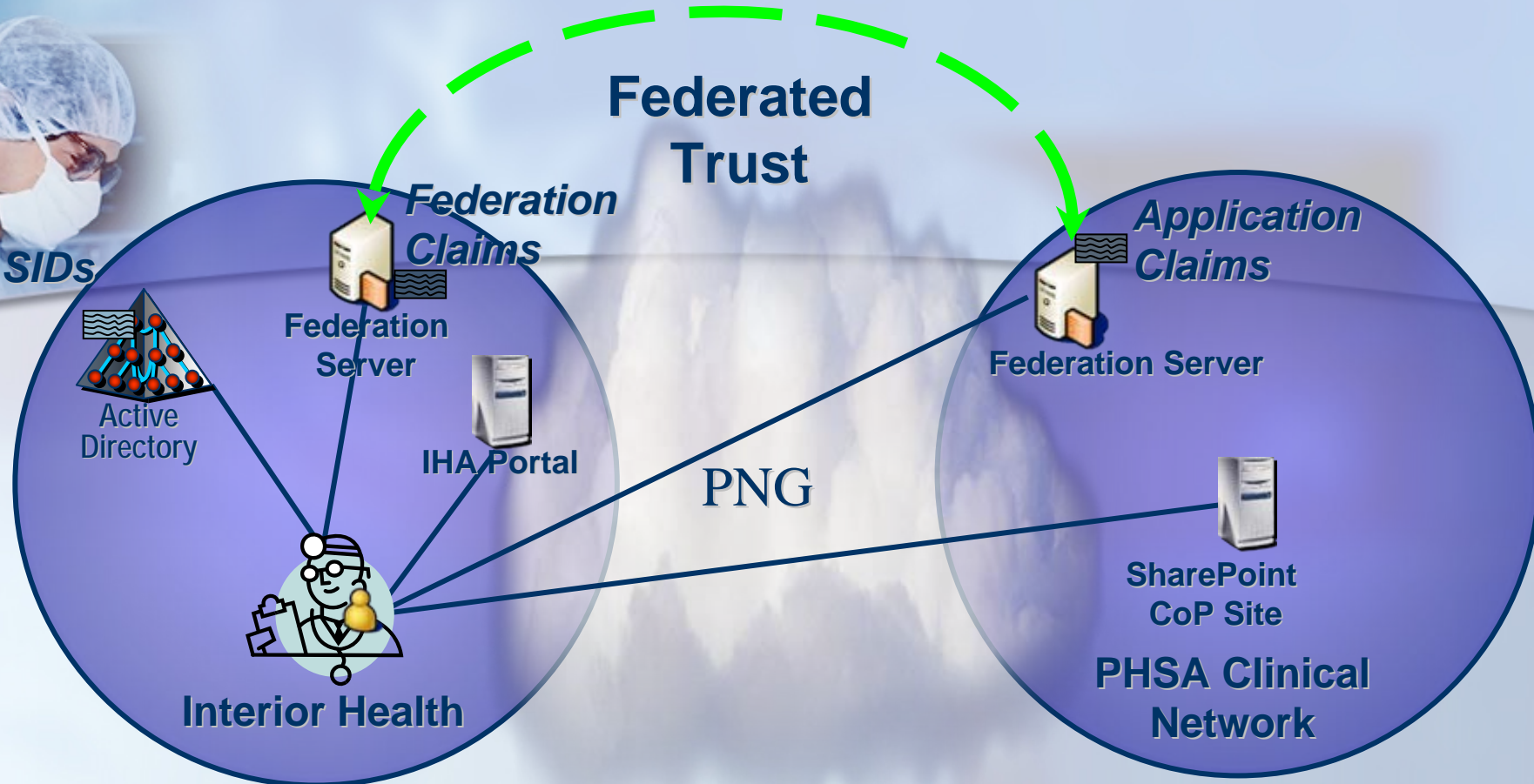# Federated Authorities Project Architecture Model

Federated Trust

Federation Claims

Application Claims

SIDs

Federation Server

Federation Server

IHA Portal

PNG

SharePoint CoP Site

Active Directory

Interior Health

PHSA Clinical Network

1. **Clinician accesses IHA Portal to PHSA SharePoint CoP Team Site.**
2. **Clinician redirected to Interior Health Authority Federation Server**
3. **Clinician obtains SAML security token from IHA Federation Server for PHSA Federation Server**
4. **Clinician obtains PHSA security token from PHSA ADFS Server for CoP Site**
    - **Claims specific to PHSA**
5. **Clinician granted access to PHSA CoP Team Site (as controlled by claims)**

Federated Authorities Project Next Steps

- **PHSA/IHA Currently Working with Microsoft to Implement ADFS Infrastructure**

  - 1) High Level Design Phase: Mar 1st – 31st
  - 2) Contract Sign Off: Mar 31st
  - 3) Procurement Phase: April 3rd – 30th
  - 4) Construct Phase: May 1st – June 30th
  - 5) Go live: July 2006

Questions?