

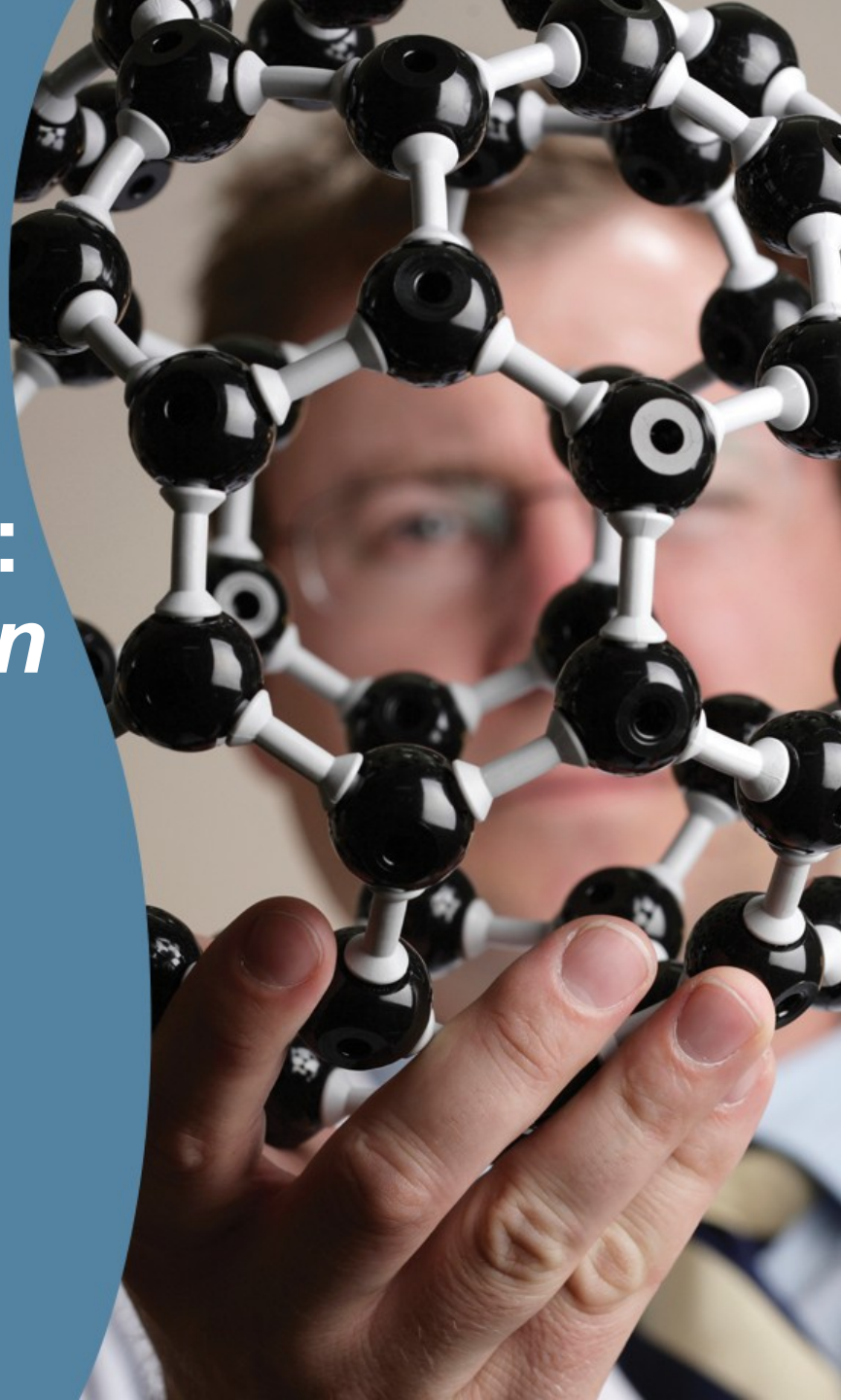


horizons
Healthcare Integration
Through a New Perspective **2010**

Identity Management: *Securing Information in the HIPAA Environment*

Mark Dixon

Chief Identity Officer
North American Software
Line of Business
Sun Microsystems



Agenda



- **Challenges we Face**
- **Identity and Access Management**
- **Consent Management**
- **How Sun Can Assist You**

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Healthcare Industry's Increasing Reliance On Digital Patient Records

Significant Challenges and Trends

- Enhancing security and privacy.
- Increasing cost efficiency.
- Improving quality of service.
- Complexity factors:
 - > Multi-enterprise environments.
 - > Regional and national healthcare exchanges and healthcare information networks.
 - > Wide diversity of healthcare IT systems.

**Protect
Patient
Information**



The Impact of HIPAA/HITECH

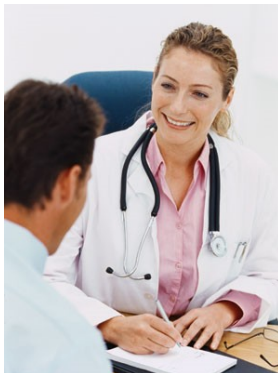
**“*Security, Privacy* and
Confidentiality are foundational
to the transformation of the
healthcare environment.”**



Robert Kolodner
Director of the Office National Coordinator
Department of Health and Human Services

Patient Consent

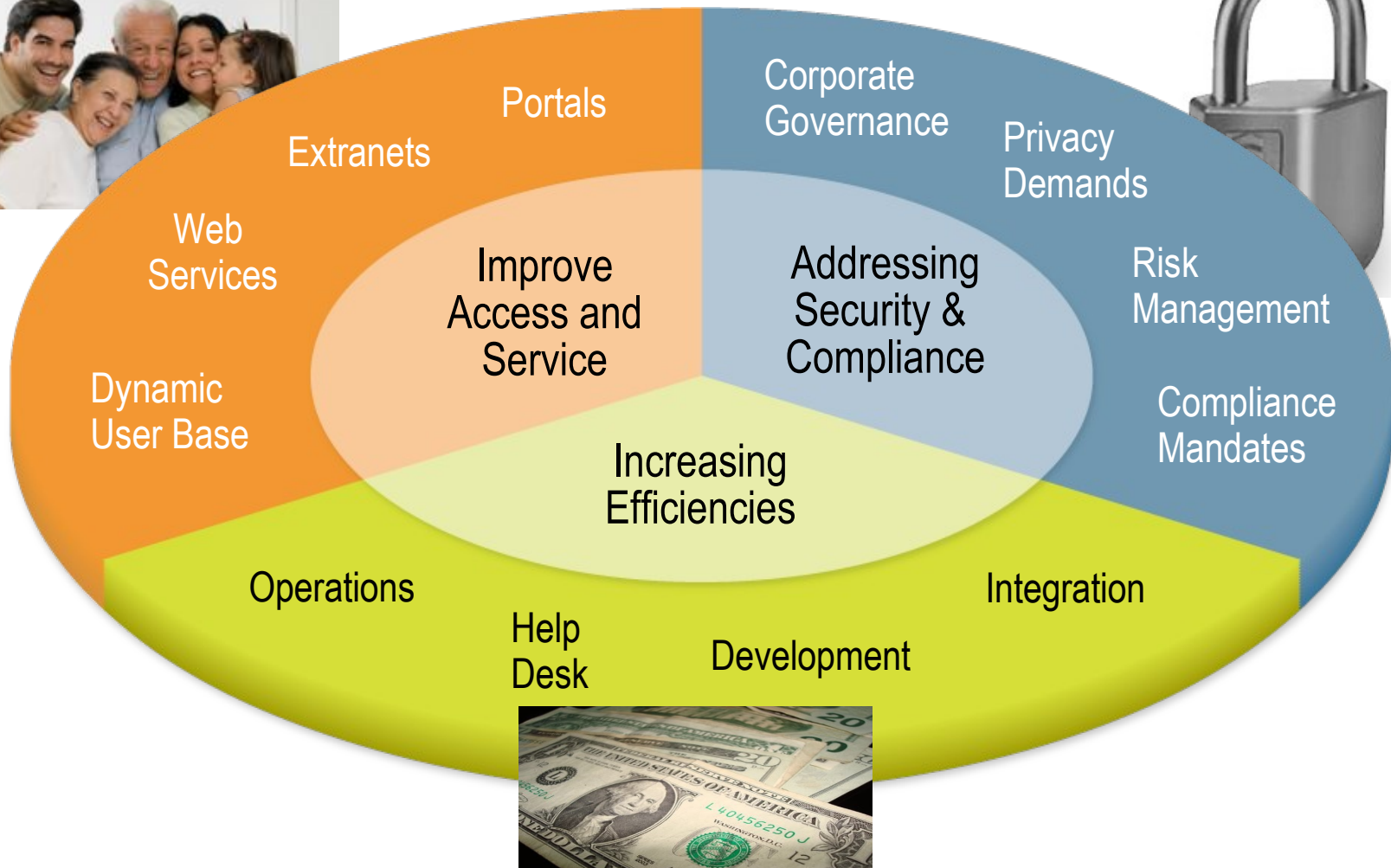
“Informed consent is more than simply getting a patient to sign a written consent form. It is a *process of communication* between a patient and physician that results in the patient's *authorization or agreement* to undergo a specific medical intervention.”



American Medical Association

Conflicting Challenges

Addressing Multiple Business Goals



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Identity and Access Management

Who has access to what, when?



Key IAM Enablers for HIPAA/HITECH

1. Assign and control user access rights.
2. Adjust user access rights when responsibilities change.
3. Revoke user access upon termination.
4. Manage allocation of user credentials.
5. Enforce segregation of duties (SOD) policies.
6. Provide uniform access policy.
7. Manage access based on business roles.



Key IAM Enablers for HIPAA/HITECH (cont.)

8. Enforce secure access policies.
9. Enforce informed-consent principles.
10. Extend access control to business associates.
11. Verify access rights.
12. Conduct periodic compliance assessments.
13. Provide automated reports.



It is all about securing applications, data, and users in order to protect the patient and provider.

ROI for Identity and Access Management

- Reduce risk of non-Compliance.
- Cut administration and help desk costs for users/identities.
- Enhance employee productivity.
- Boost security while enabling agility.
- Lower long-term Infrastructure costs.
- Reduce new application on-boarding costs.
- Strategic Support for new Revenue Opportunities.
 - > Federation enabler.
 - > Eases Acquisitions, mergers, expansions.



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Consent Management

- Essential to meet privacy/security requirements
- Data is typically dispersed among several organizations
- Many stakeholders
- Multiple jurisdictions
- Highly dependent on context/situation



Consent Management Challenges

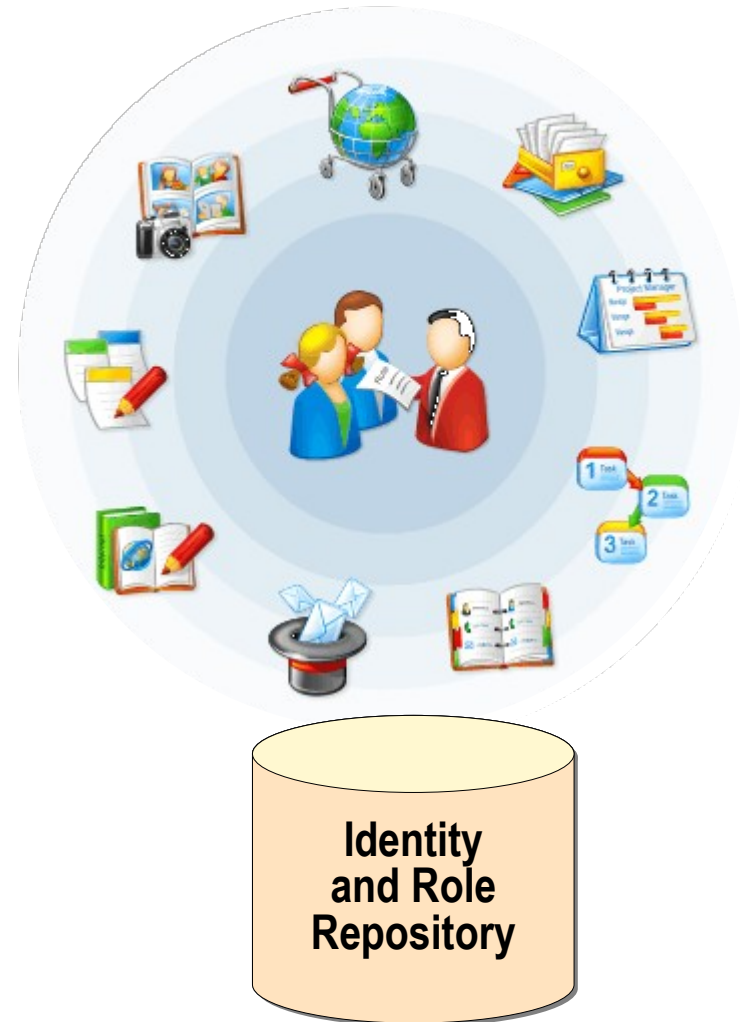
- Privacy Legislation
 - > Multiple jurisdictions
 - > Who is able to perform the override without consent?
- Auditing requirements
 - > Must provide an audit trail of who performed what action, whether the action was successful or not
- Privacy Officer within each Organization
 - > Identifying their responsibilities and accountabilities associated to EHRs
 - > Need for a business role within the Access Model
 - > Depending on the implementation – can receive a near real time notification of an override without consent

Consent Management Concepts

- Override with consent
 - > The patient (or their representative) has consented to allow the user access to the patients data.
 - > The consent is realized through a keyword
- Override without consent (“break the glass”)
 - > The user has either not obtained the consent or unable to obtain the consent of the patient and desires to access the patient's information
 - > Patient arrives in an acute care facility unconscious is an example where the user is unable to obtain the consent of the patient.

Functionality: Identity and Roles

- Identity and Roles
 - > Patients
 - > Providers
 - > Access Rights
 - > Roles map business responsibilities to access rights
- Override Rights
 - > Only users with specific roles can perform override without consent

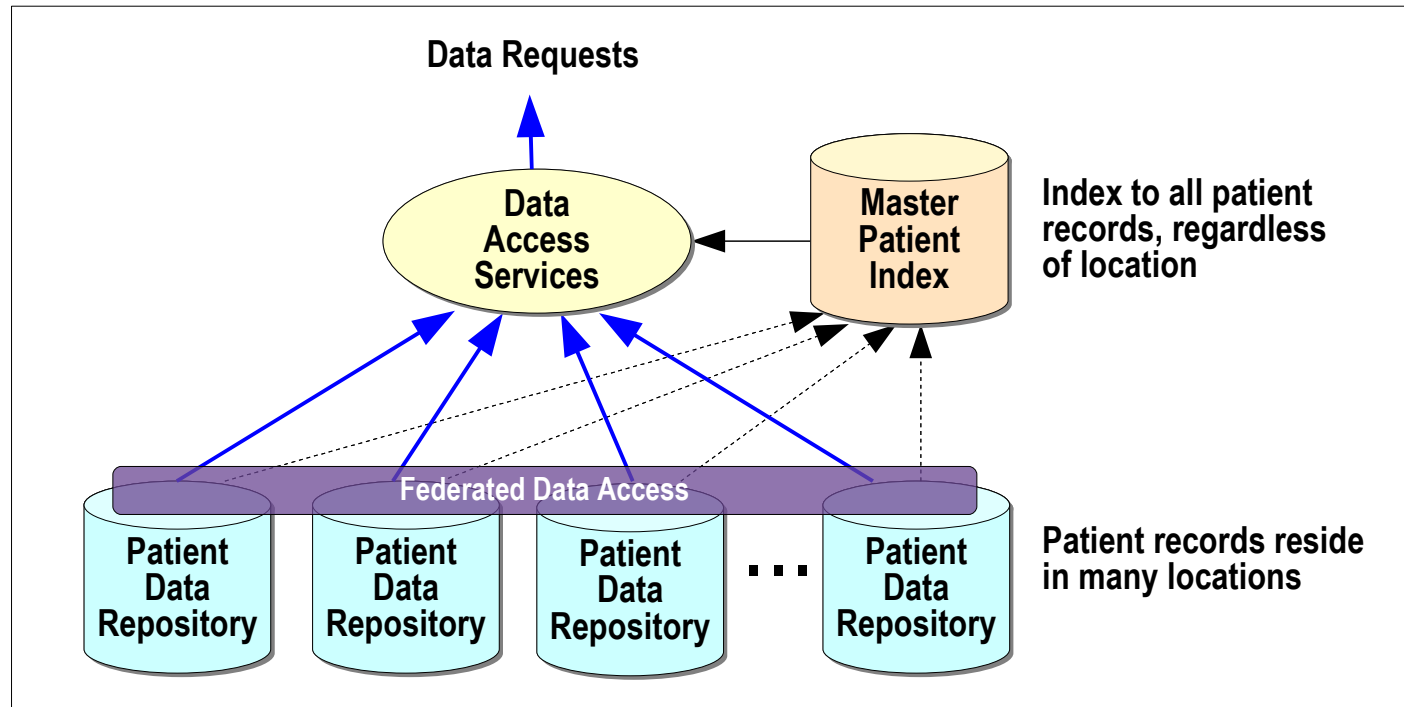


Functionality: Consent Registry

- Consent Permissions
 - > Patients
 - > Organizations
 - > Users
 - > System-wide mask (everyone)
- Fine grained access
 - > Include or exclude
 - > Accommodate multiple jurisdictions



Functionality: Master Patient Index



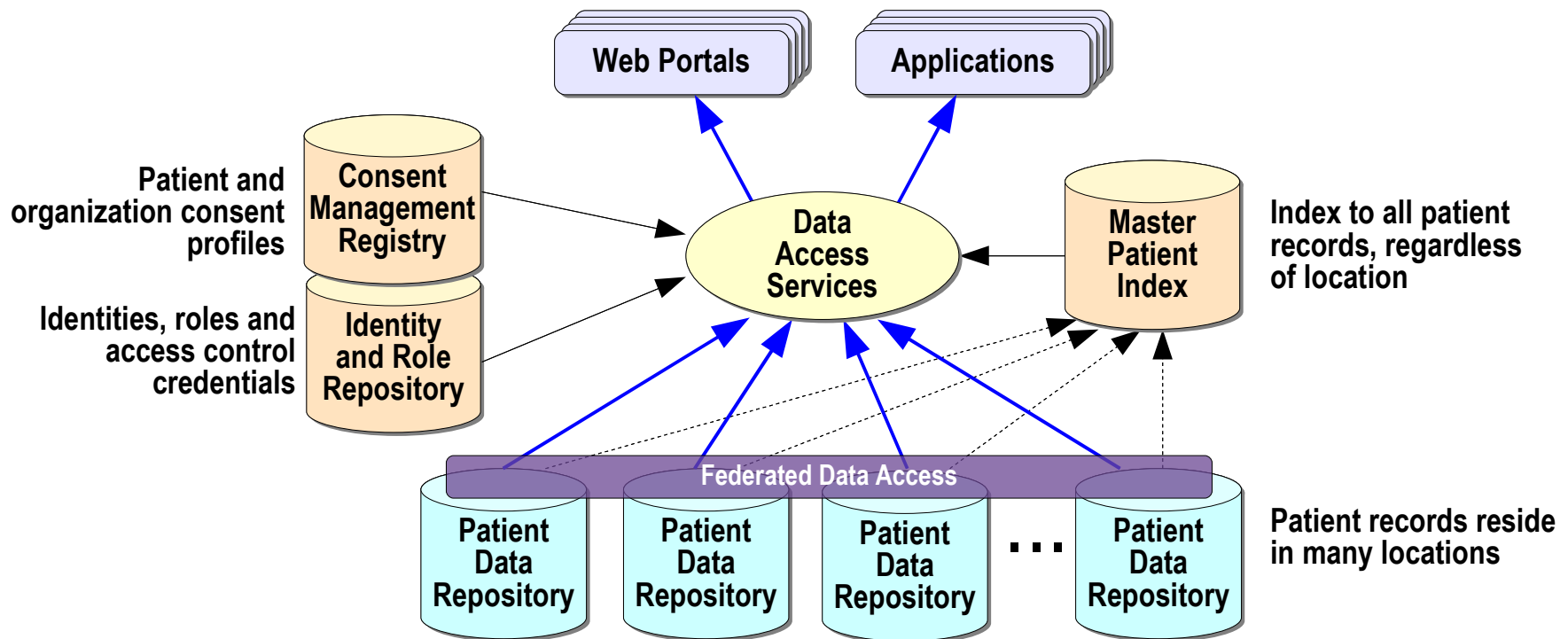
- Enable correlation of patient data across multiple repositories
- Provide secure service to govern data access

Functionality: Administration

- Administrative Viewer
 - > Supports only System Wide Mask (everyone)
 - > Specific role enables distributed or centralized
- Service Governance
 - > Has existing functionality to enforce
 - > Can be enabled or disabled to utilize consent management testing

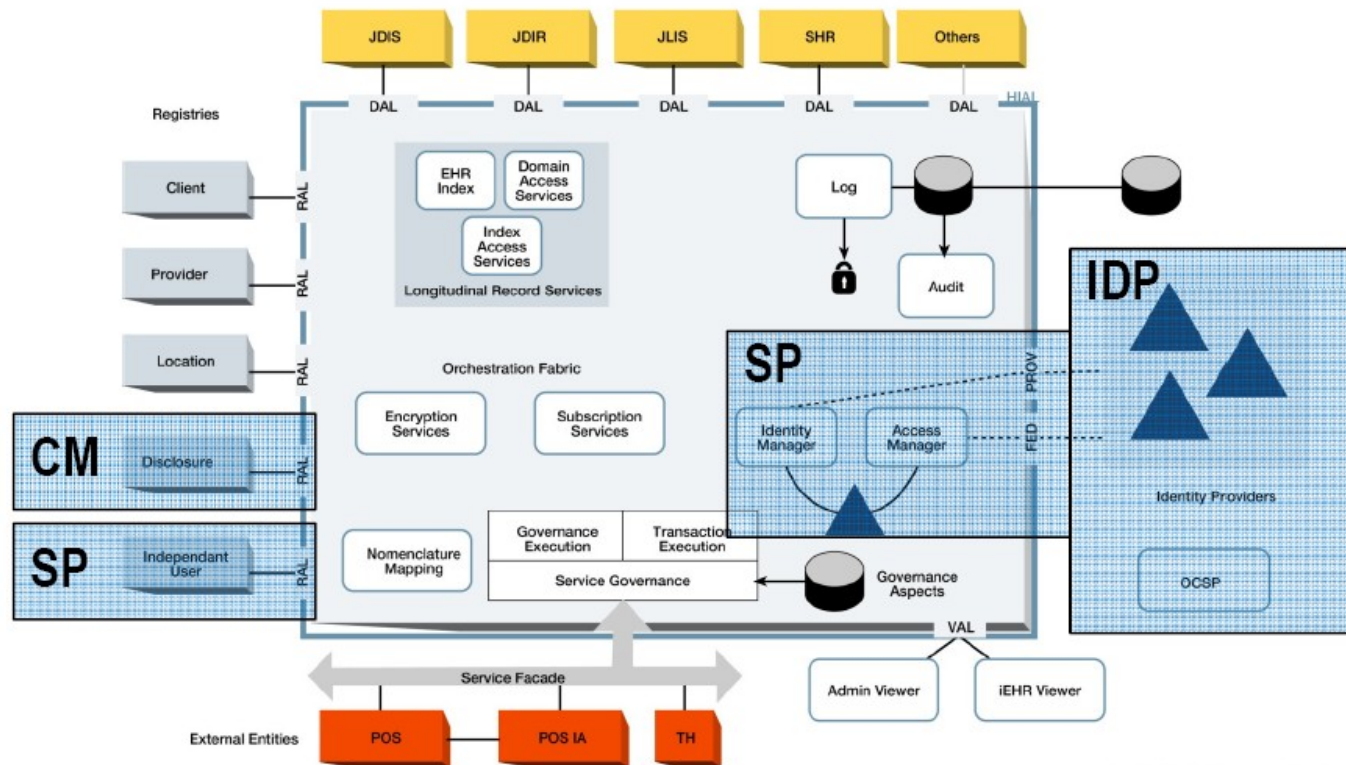


Consent Management Architecture



British Columbia HIAL and IDAM

- Health Information Access + Service Provider
- Consent Management + Identity Management



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Pragmatic Issues: Devil in the Details

- Legislative/policy driving implementation details
- Process adaptation resulting from policy changes
- Linking accountable persons to support staff
- Uniform understanding of roles across organizations



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Sun's Vision: Bright Future of Healthcare

Connectivity and Compliance

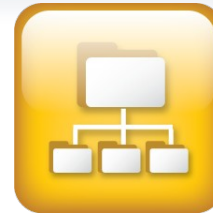


Sun is committed to the sharing of information technology to power health information networks that provide secure, regulated access to patient data.

HIPAA Identity Management Platform

Sun IAM Suite Enables Compliance

- Sun Identity Management solves HIPAA/HITECH IT requirements:
 - > *Enterprise security.*
 - > *Regulatory compliance and risk management.*
 - > *Operational efficiencies.*
- Addresses both HIPAA risk and compliance pain points:
 - > *Automates access certification and re-certification process.*
 - > *Improves internal audit operational efficiencies.*
- Rated the market LEADER by Gartner and Forrester.



Directory Server EE

- High-performance Directory
- Virtual Directory Services
- Secure Store for Users and Authorization Policies



Identity Manager

- Automated User Provisioning
- Account and Password Sync
- Approvals and Workflows



OpenSSO Enterprise

- Web Single Sign-On
- Federation
- Web Services Security



Role Manager

- Role Management
- Access Certification
- Identity Auditing

Why Sun IAM for HIPAA Compliance?

Product Strategy and Expertise

Simple

- Sun IAM solutions are 100% Java™ technology and easy to deploy, configure, and use.
- Web browser-based access to all functionality.

Open

- Open architecture makes applying Sun IAM solutions to multiple networked resources faster and simpler.
- Open source, transparency.

Proven

- Sun manages billions of user identities, and its solutions have received positive recognition from industry analysts and experts.
- Minimizes risk and compliance violations.

Implementation Success

**Identity Management
is a journey, not
a project or event.**

PHASE 1 Directory & Provisioning

Sun Identity Manager
Sun Directory Server

PHASE 2 Roles & Compliance

Sun Role Manager

PHASE 3 SSO & Extranet

Sun OpenSSO
Enterprise

Web services security
Partner Federation
External SSO
Internal SSO
Automatic audit remediation
Periodic attestation
Role-based compliance
Role-based provisioning
Role definition
Basic compliance reports
Add managed resources
Automatic provisioning
Password management
Provision AD and LDAP

**Assess where you
are in the process.
Outline a strategy that
fits your organization.**

Sun IAM Healthcare Customers



Simple

Open

Proven

More Information, and Downloads

- Sun HIPAA/HITECH Compliance Whitepaper
https://www.sun.com/offers/details/identity_access_management.xml
- Sun Identity and Access Management
<http://www.sun.com/software/identity/index.jsp>
- Sun Identity Manager
http://www.sun.com/software/products/identity_mgr/index.xml
- Sun Role Manager
<http://www.sun.com/software/products/rolemanager/index.xml>
- Sun OpenSSO Enterprise
<http://www.sun.com/opensso>
- Sun Directory Server Enterprise Edition
<http://www.sun.com/dsee>



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