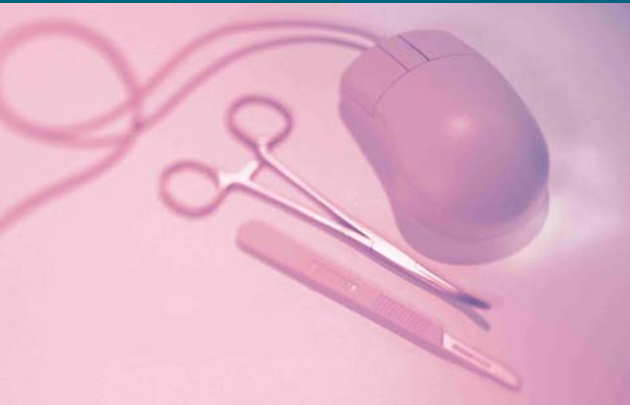


HEALTHSMART

*Victoria's Whole of Health ICT Strategy
A partnership between Government and Agencies*



Department of Health eReferral - Messaging

Antonio Abbenante

*Manager – Design Authority and Integration Services
Office of Health Information Systems*

HealthSMART Scope

- **HealthSMART Solution/Scope**
 - Patient & Client Management Systems (7 of 10 implemented)
 - Client Management Systems (22 of 22 implemented)
 - Financial Management Information Systems (8 implemented)
 - Human Resource Management Systems (3 implemented)
 - Clinical Systems (4 current of 10)
 - Picture Archiving Communications System (6 implemented)
 - HealthSMART Enterprise Application Integration (Implemented across Health Services)
- **Core Clinical Functions**
 - Medications Management – Decision support
 - Discharge Summary
 - Orders and Results – Decision support
 - Future (eReferrals)
- **Standardisation of data transfer between applications**
 - Driving consistency in use of standards (NeHTA, Standards Australia)
 - Reusability and sharing of integration components and specifications
 - Encouraging vendors to a consistent understanding and use of standards
 - Drive to use of discrete data elements rather than documents
- **Business continuity across Healthcare applications**
 - HealthSMART is designed as a business solution

HealthSMART Applications and Vendors

FUJIFILM

 **KRONOS**[®] | Australia/New Zealand

TRAKHEALTH
An InterSystems Company

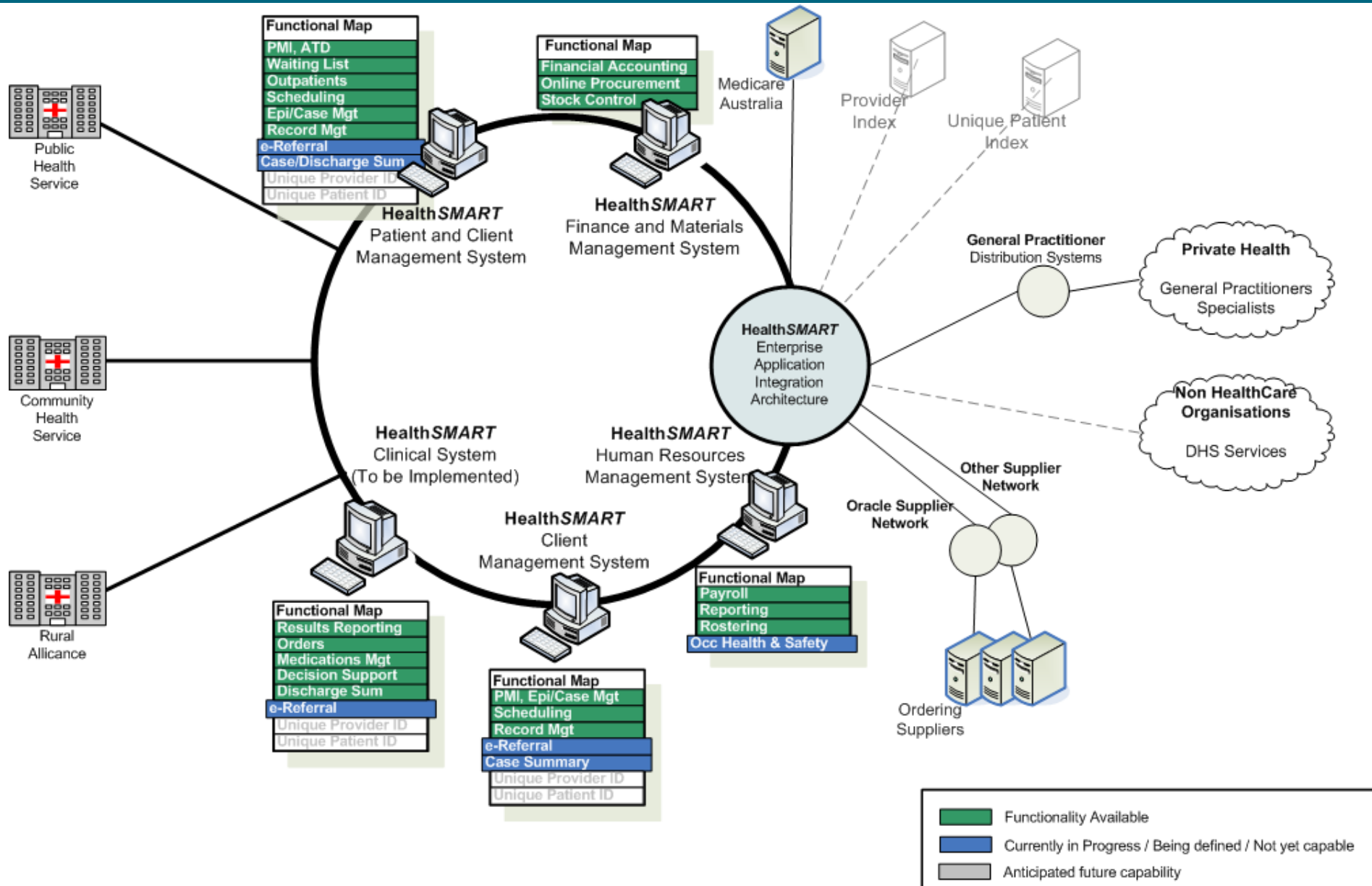
iSOFT

Frontier
software

 **Sun**
microsystems

 **CERNER**

Solution Architecture



eReferral Initiatives – Requirements

- Standard Information
 - (What information is required for referral?)
- Business processes and generic application functions for vendor applications
 - (How do we go about it?)
- Transport mechanism and Data Message Structure
 - (Delivery – security, signature and packets?)
- Patient Identification
 - (For who ?)
- Provider Identification – Sender
 - (Who is referring?)
- Provider Identification – Receiver
 - (Provider referred to - availability?)
- Service Definition
 - (What service needs to be provided?)
- Delivery Location
 - (How do we deliver to the correct post box?)

eReferral Requirements - Gaps

- Standard Information
 - (SCTT / VSRF Tools / Reference Codes)
- Business processes and generic application functions for vendor applications
 - (HealthSMART / GP Applications)
- Transport mechanism and data message structure
 - (HL7 / CDA / Web Services / PKI)
- Patient Identification
 - (NeHTA IHI)
- Provider Identification – Sender
 - (HSD / NeHTA IHI)
- Provider Identification – Receiver
 - (HSD / NeHTA IHI)
- Service Definition
 - (HSD / EID)
- Delivery Location
 - (HSD / EID / NeHTA ELS)

HL7 – Health Level 7

- Applications interoperability standard
- Event Based
- International Standard
- AS4700.x Australian Standard
- Victorian HL7 2.4 Implementation Guide
- The most consistent messaging standard used in health care across the world

Information and Messaging Standards

- HL7 HealthSMART Implementation Guide / Specification and Code Sets
 - <http://www.health.vic.gov.au/healthsmart/designauth.htm>
- SCTT/VSRF 2009 Release
- NeHTA CDA (Clinical Document Architecture)
- Alignment of Standards – SCTT/VSRF and HL7
- Human Services Directory
- Imaging and Pathology catalogues – State wide Codes
- Allergy Information
- Medications Information

Information Standards

HealthSMART

Victoria's Whole-of-Health ICT Strategy

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HealthSMART's Design Authority

- Overview
- Technology and Design
- HealthSMART HL7 2.4 Implementation Guide (Standard)
- Orders Messaging, Imaging and Pathology
- Governance

Overview

HealthSMART's Design Authority delivers the enterprise application integration (EAI) solution and associated services to integrate HealthSMART applications. The Design Authority also assists health agencies to enable this capability in their environment. The EAI enables applications to share data, maximising functionality and business continuity across HealthSMART applications and relevant health service applications.

The Design Authority is responsible for:

- Delivering standards based interoperability across all HealthSMART applications
- Defining messaging standards for Victorian health application interoperability
- Facilitating a higher level of integration knowledge and associated quality processes in the Victorian health sector.

eReferral Initiatives

- DoH engaged with NeHTA to specify architecture and solution for eReferrals
- Ongoing SCTT/VSRF development and definition
- Care*DIRECT* for support of business processes and generic application functions for vendor applications
- HL7, SCTT/VSRF and CDA alignment with NeHTA
- eReferrals messaging include textual and discrete information, transition approach
- Human Services Directory, Health*SMART*, NeHTA etc

Human Services Directory

The role of the HSD:-

- Be the authoritative source for services information for Victoria's health and human service providers
- Act as the authoritative source for services addressing information to support e-referral across Victoria's health and human services sectors

Recent Activity

- July 2009 Upgrade (V3.0)
 - Google Search, Google Maps
 - Opening Hours, Public Holidays
 - GIS Lat/Long at a site level (Geo-Coding)
- HealthSMART electronic identifiers (Oct 2009)
- Ongoing Activity (NeHTA)
 - Unique Healthcare Identifier
 - HPI- I/O
 - Endpoint Locator Service

Associated eReferral Initiatives - NeHTA

- National IHI, currently reference solution design is being defined for use of IHI, individual healthcare identifier
- National HI services for use of HPI-I/O with NeHTA to load HSD
- AMT/TGA (Australian Medicines Terminology) content loaded into the Health*SMART* Clinical System
- GS1, NPC references for
- SNOMED-CT, allergies, procedures
- Engaged with NeHTA to move to National diagnostic catalogues, SNOMED-CT (and LOINC)
- Review and alignment of Discharge Summaries for Health*SMART*

End of Presentation