

IHIC 2009, Kyoto, Japan

Australian e-Health Projects

Klaus Veil

Chairman - HL7 Australia

Co-Chairman - Standards Australia IT14-06 / IT14-06-03

Research Fellow - University of Ballarat, Australia

Fellow - Australian College of Health Informatics

Principal - HL7 Systems & Services, Sydney

©2009 HL7S&S



Overview

- National e-Health Strategies
- HL7 Standards Development
- Implementations
- Implementation Support
- Questions



Overview

- National e-Health Strategies
- HL7 Standards Development
- Implementations
- Implementation Support
- Questions



Australian Govt. Standards Policy

- 1997: Australian Govt. expresses support for the HL7 Standards
- 1999: Health Online / HealthConnect
 - Stakeholders: Patients, Providers & Administrators
 - Technology focus: EHR & Internet
- 2001: National Health Information Standards Plan
 - Recommendations and Projects
- 2005 National e-Health Transition Authority (www.NEHTA.gov.au)
 - March 2007: Confirmed HL7 as the national standard for the electronic messaging of health information across Australia
 - Sept. 2008: Re-orientation towards infrastructure projects (National patient and provider identifiers, web services platforms, terminologies, etc.)
 - Feb. 2009: "2009 - Year of e-Health Implementations"



Overview

- National e-Health Strategies
- **HL7 Standards Development**
- Implementations
- Implementation Support
- Questions



E-Health Standards Development

- In Australia, "Standards Australia" - a government-supported organisation representing all stakeholders
- Standards are created by volunteers in an open, transparent and consensus-based approach
- Draft Standards are put out to "Public Comment" for a few months to allow input from anybody in Australia
- Completed Standards are reviewed by SA boards to ensure proper process has occurred
- Standards are reviewed at least every 5 years for currency



SA HL7 Technical Committees



Patient Administration Messaging (IT-014-06-03)

HL7 Patient Administration Messages "AS4700.1"



Drug Prescription Messaging (IT-014-06-04)

HL7 Prescription Messages "AS4700.3"

HL7 Immunisation Messages "AS4700.5"



Diagnostic Messaging (IT-014-06-05)

HL7 Pathology Order & Reports Messages "AS4700.2"

Pathology HL7 Messages Handbook "HB262"

HL7 Registry Messages "AS4700.4"

Diagnostic Order & Results Messages "AS4700.7"



Collaborative Care Messaging (IT-014-06-06)

HL7 Discharge & Referral Messages "AS4700.6"

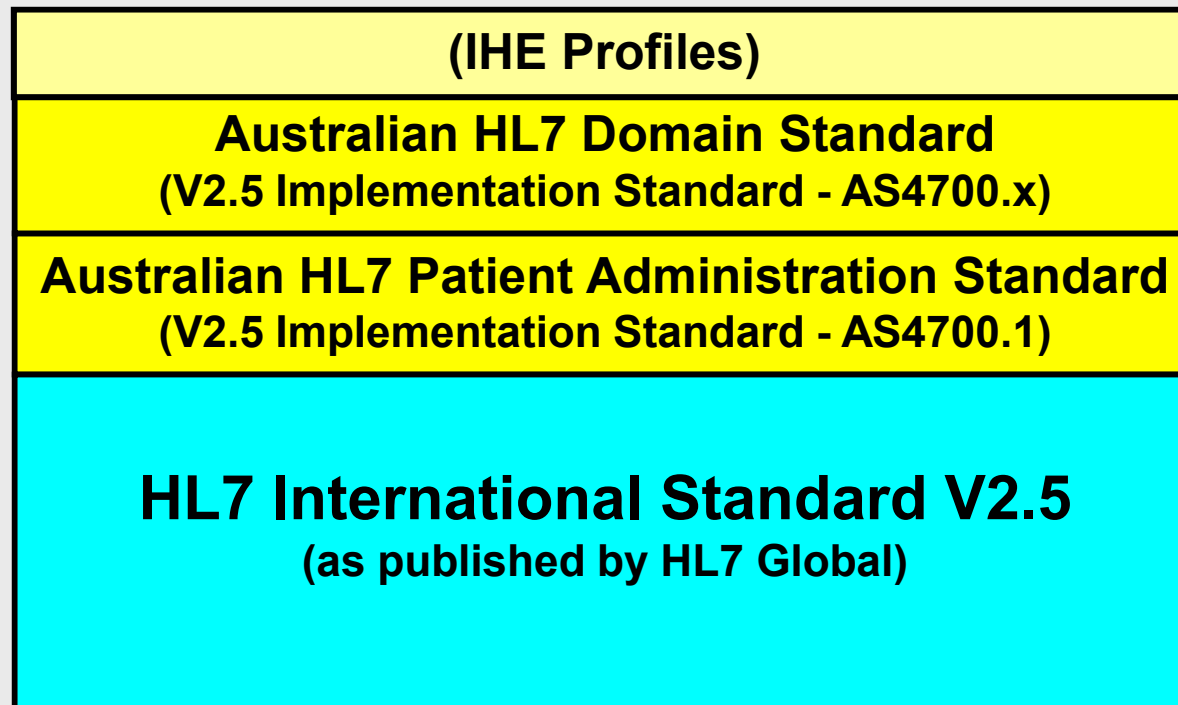
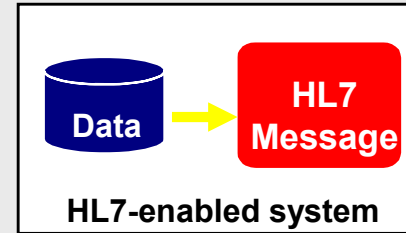
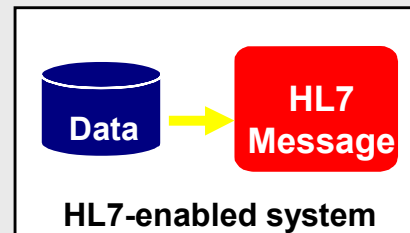
Referral, Discharge and Health Record Messaging Handbook



Telehealth Messaging (IT-014-12)



Structure of HL7 Standards in Australia



Overview

- National e-Health Strategies
- HL7 Standards Development
- **Implementations**
- Implementation Support
- Questions



Implementations & Activities

- Health-*e-link*
- NEHTA Individual Health Identifier (IHI) consists of UHI (residents) and HPI (organisations & individuals) – pilot Dec 2009 live mid 2010 after legislation changes
- eReferral – NEHTA in partnership with DHS (Vic) to establish lead implementations 1st quarter 2010 as start of National Rollout
- NEHTA Pathology continuing
- HSSP Services & Provider Project – Sep 2009 HL7 Ballot
- NEHTA Discharge Summaries – to be done as part of the eReferral rollout
- Diagnostic Results direct into Clinical Systems and EHR systems



Overview

- National e-Health Strategies
- HL7 Standards Development
- Implementations
- **Implementation Support**
- Questions



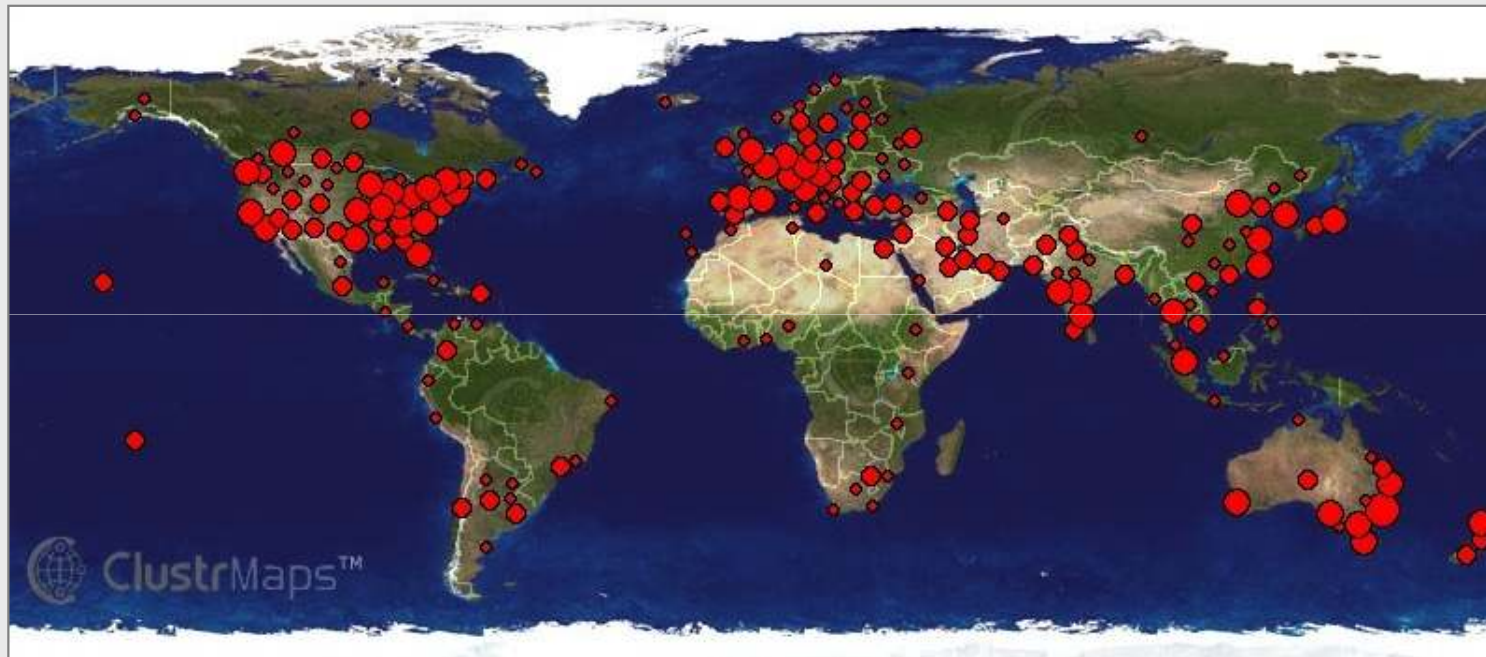
Implementation Support

- HL7 Australia
 - HL7 Training Courses
 - Web Site
 - Soon: Implementation Forums
- IHE Australia
 - Supported by HL7 Australia
 - Connectathons
 - Interoperability Showcases



Implementation Support: HL7 Australia (1)

- Implementer resources
- E-mail list (>950 members)
- Web site (~ 15,000 hits/month)
- Implementation Forums (planned for 2009)



Implementation Support: HL7 Australia (2)

- MoU with Australia Healthcare Messaging Laboratory (AHML)
 - > Users in >41 Countries
 - Working together to promote and support
 - www.AHML.com.au
- Professional Certification ...



IHE in Australia / Asia-Pacific 2004-07

- Initial Meeting in December 2004:
 - Agreed that there is need in Australia/Australasia/Asia-Pacific
- First Australian “Connectathon” at HIC’05
 - July 31 - August 2, 2005 - Melbourne Convention Centre
 - 8 organisations participating
- 2006: 2nd Interoperability Showcase
- 2007: 3rd Interoperability Showcase at MedInfo 2007 in Brisbane
- 2008 ...



1st Australian IHE Connectathon 2008

- 1st "IHE approved" Connectathon in Australia
- Held in Canberra over 6 days - July 28 - Aug. 1, 2008
- Hosted by National ICT Australia ("NICTA")
- 11 healthcare systems vendors
- 18 e-health products:
 - Imaging systems, RIS, PACS, Pathology systems
 - Clinical document repositories
 - Master patient indexes
- Major Supporters:



IHE Connectathon Score-Card

Test Group		IHE XDS & Web Services Profiles							Australian Specification		IHE Radiology Profiles		
Integration Profile:		Patient ID X-Ref (PIX)		X-Enterprise Document Sharing (XDS)			Audit Trail & Node Auth	Consistant Time	Diagnostic Reporting		Portable Data for Imaging		
Company	Product	PIX Mgr	PIX Client	Doc Consumer	Doc Source	Doc Rep	Secure Node	Time Client	Integrated Creator/Sender	Integrated Processor/Receiver	Portable Media Creator	Image Display	Portable Media Importer
Agfa	IMPAX RIS							☑	☑				
"	IMPAX 6							☑			☑	☑	☑
Central Data Networks	CentraRAD							☑			☑		☑
"	Merlin							☑	✓				☑
GE	Centricity ECIS		✓	✓			✓		✓				
<p>7 products (4 Australian!!!) achieved international IHE certification 9 products (5 international) successfully tested Australian profile 6 products successfully tested against the new IHE "Cross-Enterprise Document Sharing" (XDS) profile</p> <p>For details see www.IHE.net.au/Results-2008.htm</p>													
McCauley Software	PATHbase							☑	☑				
"	Medbase							☑		✓			
MediNexus	MediNexus							☑		☑			
Oracle	HTB					✓	✓						
Radlogix	PACS Workstation							☑			☑	☑	☑
Voyager	Voyager PACS							☑		☑	☑	☑	☑
									☑	Comprehensive IHE testing complete-passed			
									✓	HIC Participation testing complete-passed			



2008 IHE Supporters



2nd Australian IHE Connectathon 2009

- "IHE Australia" formally approved Feb. 2009
 - Members: HL7 Australia, Medical Software Industry Association, Australian Diagnostic Imaging Association, Royal Australian New Zealand College of Radiologists, Health Informatics Society Australia, Standards Australia, etc.
- 2nd Australian IHE Connectathon (July 7 - 10)
- 6th Australia "Interoperability Showcase" (Aug. 19-21, Canberra)
- Planned 2009 IHE Profiles Testing:
 - Portable Document Imaging (PDI), including new media (DVD, USB)
 - Radiology Scheduled Workflow (RSW)
 - Australian e-Reporting and e-Referral Profiles
 - Identity management?
 - Web Services?



Thank You!

More HL7 Australia information: www.HL7.org.au

More IHE Australia information: www.IHE.net.au

E-mail: Klaus@Veil.net.au

