



Modeling communication requirements in aged care using HL7 V3 methods

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A u s t r a l i a

Background

- Research project funded under an Australian Research Council Linkage Grant at the University of Wollongong

- Industry Partners:


- Southern Cross Services NSW & ACT
- Our Lady of Consolation Aged Care
- Illawarra Retirement Trust

Research question

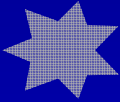
1. What might a hierarchical structure of standards for interoperability for aged care look like?
2. What are the policy implications arising from this model for a national information technology strategic plan for aged care?

Project Charter



- Electronic processing of eligibility requirements 
- Messaging within the multidisciplinary care team
- Ahead-of-time (not just-in-time) exchange of discharge referrals
- Electronic processing of financial claims
- Ability to express care requirements in holistic terms

Requirements analysis

- 82 storyboards (edited to 65) 
- Covering 4 areas:
 - Access to services
 - Care Coordination
 - Clinician liaison & RCS management
 - Financial & Claims Administration
- Shortlisted > 29
- 9 published in Patient Care ballot

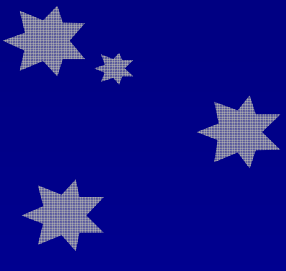
Modeling & Harmonisation★

- 121 message flows analysed
- Domain Analysis Model
- Harmonised against the RIM
- Prototype Aged Care Domain Information Model

Harmonisation issues



- Need to differentiate Care Transfer (‘Referral’) messages into:
 - Service Transfer
 - Condition Transfer
- Need to create a new Care Management ‘care structure’ to handle the care content and the logistic aspects of care delivery (scheduling, appointments, resource allocation)
- Need to create a new Act class that defines documentation rules

Aged Care Domain Topics



Service Transfer	Care Delivery	Provider Topic	Contract & Financial Management
Condition Transfer	Case Management		

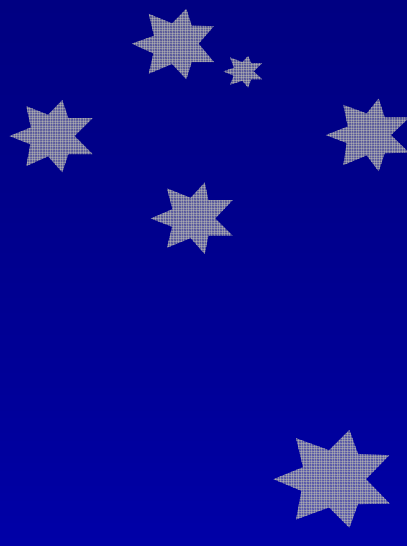
Harmonisation priorities

- Condition / Service Transfer messages 
- Service Transfer query messages 
- Care Record messages
- Case Management Structure
- Documents: forms (CDA), event records (RMIM templates/archetypes)
- New RIM artifacts eg. AgedCareServices ActCodes

Next Steps

- Prepare harmonisation proposals
- Champion changes to RIM via Standards Australia & HL7 Technical Committees
- Collaborate with NeHTA to align Australian EHR work to communications capability of HL7

Thank you



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