

Healthcare Services Platform: Clinical Use Cases



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WARNING



THIS IS NOT A PRESENTATION
(YOUR PARTICIPATION IS EXPECTED)

HSPC Committees (existing and proposed)



- **Steering Committee ***
 - Interim Conveners: Stan Huff and Oscar Diaz
- **Application Distribution**
- **Certification**
- **Collaborative Development ***
 - Interim Convener: Craig Parker
- **External Relationships**
- **Organizational Governance ***
 - Interim Convener: Oscar Diaz
- **Sandbox and Tooling**
- **Standards and Knowledge Content**
- **Technology and Architecture ***
 - Interim Convener: Rick Freeman
- **Venture Capital**

Clinical Use Cases



Goals of Initial Clinical Use Cases



- Deliverables with real clinical value
 - (Long term scope is not purely clinical)
- Production quality deliverables
- Cross institution (and hopefully cross platform) deployment
- Start simple, increase complexity as we grow
- Build as much as possible on what already exists (standards, technology, etc.)
- Short time frame (3 months? 6 months? ...)
- No long-term central planning by the consortium, BUT central coordination for initial use cases.

Goals of Initial Clinical Use Cases



- Exercise breadth and depth of the services platform
 - Phase 1 Use Case Targets
 - ✦ FHIR based, RESTful read and write services
 - ✦ Authorization, Authentication and Auditing
 - ✦ Patient context
 - ✦ Provider/User management
 - ✦ Simple Alerting
 - ✦ Basic terminology services
 - ✦ Simple transaction management (not long-running)
 - ✦ System management (logging and monitoring)

Goals of Initial Clinical Use Cases



- Exercise breadth and depth of the services platform
 - Future Use Case Targets
 - ✦ General Notification/Alerting/Messaging
 - ✦ Advanced Terminology Services (subsumption, multiple representations)
 - ✦ Event handling (pub/sub)
 - ✦ Service Orchestration
 - ✦ Long-running Transactions
 - ✦ Decision Support Services

Possible Clinical Use Cases at Intermountain



- Problems Management
- Total Parenteral Nutrition (Adult and Pediatric)
- Transplant
- Bilirubin
- Ventilator Weaning
- Patient Portal Widgets
- Care Process Models

Potential Projects



- *^Problems Management
- *^Bilirubin
- *Plan of Care
 - orders linked to problems; goals
- Nurse call communication
- Dashboards (e.g. ED or ICU)
- Problem list based data assembly (e.g. for rounding)
- Collection of patient/device sources data
- *^Handoff sheet (alternative take on rounding sheet) (transition of care focus)
- Patient engagement:
 - *^Medication reconciliation
 - *^Family History
 - *^Patient Feedback – questionnaires, asthma triggers (or other triggers), patient satisfaction, patient condition communication
 - *^Collection of patient/device sources data
- CDS (maintained external knowledge)
 - Population Health
- Cross Patient Applications