

Details Of Use Cases, Requirements, Design And Standards Selection, Interoperability Specifications And Recommended Standards for AHIC Use Cases

Use Case	Use Case Description	HITSP Harmonization Status	HITSP Requirements, Design and Standards Selection	HITSP Interoperability Specifications	Recommended Standards	Approval by AHIC	Secretary of DHHS <ul style="list-style-type: none"> • Acceptance of Standards • Recognition of Standards
2006 Use Cases							
Consumer Empowerment <ul style="list-style-type: none"> • Registration • Medication History 	Harmonized Use Case March 19, 2006 http://www.health.state.mn.us/e-health/standards/ceregmedusecase.pdf	Completed		Version 2.0 http://www.health.state.mn.us/e-health/standards/hitspexecsum.pdf	October 31, 2006 http://www.health.state.mn.us/e-health/standards/ceregmedrecstdrds.pdf	Approved	Accepted January 23, 2007
Electronic Health Records (EHR) <ul style="list-style-type: none"> • Laboratory Result Reporting 	Harmonized Use Case March 19, 2006 http://www.health.state.mn.us/e-health/standards/ehrlabusecase.pdf	Completed		Version 2.0 http://www.health.state.mn.us/e-health/standards/hitspexecsum.pdf	October 31, 2006 http://www.health.state.mn.us/e-health/standards/ehrlabrecstdrds.pdf	Approved	Accepted January 23, 2007
Biosurveillance <ul style="list-style-type: none"> • Visit • Utilization • Clinical Data • Lab and Radiology 	Harmonized Use Case March 19, 2006 http://www.health.state.mn.us/e-health/standards/biosurveillanceusecase.pdf	Completed		Version 2.0 http://www.health.state.mn.us/e-health/standards/hitspexecsum.pdf	October 31, 2006 http://www.health.state.mn.us/e-health/standards/biosurveillancestdrds.pdf	Approved	Accepted January 23, 2007

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<p>Privacy and Security</p> <p>Consumer Empowerment</p> <ul style="list-style-type: none"> • Registration • Medication History <p>Electronic Health Records (EHR)</p> <ul style="list-style-type: none"> • Laboratory Result Reporting <p>Biosurveillance</p> <ul style="list-style-type: none"> • Visit • Utilization • Clinical Data • Lab and Radiology 			<p>Version 1.0 Security and Privacy RDSS April 13, 2007 http://www.health.state.mn.us/e-health/standards/hitsprdss51.pdf</p> <p><i>Approved by the panel on Oct 15, 2007</i></p>				

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<p>2006 Use Cases Updates</p> <p>Consumer Empowerment</p> <ul style="list-style-type: none"> • Registration • Medication History <p>Electronic Health Records (EHR)</p> <ul style="list-style-type: none"> • Laboratory Result Reporting <p>Biosurveillance</p> <ul style="list-style-type: none"> • Visit • Utilization • Clinical Data • Lab and Radiology 				<p align="center"><i>Being updated to reference the new security & privacy constructs & will be released as v3.0</i></p>			

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2007 Use Cases							
Emergency Responder Electronic Health Record <ul style="list-style-type: none"> • On-site Care • Emergency Care • Definitive Care • Provider Authentication and Authorization 	Detailed Use Case <i>December 20, 2006</i> http://www.health.state.mn.us/e-health/standards/erresp_usecase.pdf.pdf	In process		<ul style="list-style-type: none"> ▪ Review Copy of IS constructs (v1.0) released for public comment & inspection testing on Sept 17, 2007 ▪ Scheduled for approval by the Panel on Dec 13, 2007 			
Privacy and Security Emergency Responder Electronic Health Record			Version 1.0 Security and Privacy RDSS <i>May 16, 2007</i> http://www.health.state.mn.us/e-health/standards/hitsprdss52.pdf				

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Consumer Empowerment – Consumer Access to Clinical information <ul style="list-style-type: none"> • Access to Clinical data • Provider Permissions • PHR Transfer 	Detailed Use Case <i>June 18, 2007</i>	In process		<ul style="list-style-type: none"> ▪ Review copy of IS constructs (v1.0) released for public comment & inspection testing on Sept 17, 2007 ▪ Scheduled for approval by the Panel on Dec 13, 2007 			
Medication Management <ul style="list-style-type: none"> • Medication Reconciliation • Ambulatory Prescriptions • Contra-indications 	Detailed Use Case <i>June 18, 2007</i>	In process	Version 1.0 Released for public comment on Sept 17, 2007	IS constructs scheduled for panel approval on March 27, 2008			
Quality <ul style="list-style-type: none"> • Hospital Measurement and Reporting • Clinician Measurement and Reporting • Feedback to Clinicians 	Draft Detailed Use Case <i>June 18, 2007</i>	In process		<ul style="list-style-type: none"> ▪ Review copy of IS constructs (v1.0) released for public comment & inspection testing on Sept 17, 2007 ▪ Scheduled for approval by the Panel on Dec 13, 2007 			

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2008 Use Cases							
Remote Monitoring <ul style="list-style-type: none"> • Remote Monitoring of Vital Signs and Labs (Glucose) 	Prototype Use Case August 31, 2007						
Remote Consultation <ul style="list-style-type: none"> • Structured email • Reminders • On-line Consultation 	Prototype Use Case August 31, 2007						
Personalized Healthcare <ul style="list-style-type: none"> • Laboratory • Genetic / Genomic Data • Family Medical History 	Prototype Use Case August 31, 2007						

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Consultation and Transfers of Care <ul style="list-style-type: none"> • Referrals • Problem Lists • Transfer of Care 	Prototype Use Case August 31, 2007						
Public Health Case Reporting <ul style="list-style-type: none"> • Case Reporting • Bidirectional Communication • Labs • Adverse Events 	Prototype Use Case August 31, 2007						
Immunizations & Response Management <ul style="list-style-type: none"> • Resource Identification • Vaccine • EHR data 	Prototype Use Case August 31, 2007						

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**AHIC Priorities and Use Case Roadmap
2009 and Beyond**

<p>CE 3.0 Administrative features CE 3.1 Appointment scheduling CE 3.2 Demographic profile CE 3.3 Editing account profile CE 3.4 Insurance eligibility & claims CE 3.5 Financial recordkeeping & management CE 4.0 Reminders (examples) CE 4.1 Annual check-ups CE 4.2 Cancer screening—mammograms CE 4.3 Cancer screening—colonoscopies CE 4.4 Immunizations CE 6.0 Summaries of healthcare encounters CE 6.1 Dates of services CE 6.3 Procedure codes</p>	<p>CC 3.0 Glucose monitoring CC 4.0 Spirometry CC 5.0 Anticoagulation CC 7.0 Fall/motion monitoring CC 11.0 Lesion assessment CC 12.0 Remote monitoring for chronic conditions CC 13.0 HIT use in specific populations CC 15.0 Product and services certification CC 16.1 State licensure constraints CC 18.0 Patient identification for authorization and authentication</p>	<p>Q 3.1 Clinical decision support Q 5.0 Clinical decision support Q 6.0 Expanded inpatient quality measures Q 7.0 Expanded ambulatory quality measures</p>
<p>CE 7.0 Educational information CE 7.1 Evidence based health information CE 8.0 Decision support CE 8.1 Shared decision making CE 8.2 Communications preferences CE 9.0 Patient health outcomes CE 9.1 Adverse events CE 9.2 Medical errors CE 9.3 Patient reported health outcomes</p>	<p>EHR 5.0 Clinical/encounter notes EHR 6.0 Anatomic pathology results EHR 8.0 Radiology reports EHR 12.0 Machine readable and interoperable EHR 12.1 Encounter notes EHR 12.2 Radiology reports EHR 12.3 Lab results</p>	<p>BIO 1.2 Clinical symptomology BIO 1.3 Integration with EHRs BIO 1.4 Health alerting (HA)/email alerts BIO 2.1 Collaborative discussions BIO 2.2 Web pages BIO 3.2 Chemoprophylaxis BIO 3.3 Treatment BIO 3.4 Isolation/quarantine BIO 3.6.2 Disease registry BIO 4.0 Adverse event reporting BIO 4.1 Devices, drugs, biologic BIO 5.0 Nosocomial infections BIO 5.1 Medication errors BIO 5.1.1 Ordering/ prescribing/ dispensing BIO 5.1.2 Drug-drug, drug-allergy interaction decision support BIO 5.1.3 Linkage to FDA structured product labeling database results BIO 10.0 Public health information network (PHIN) can be leveraged BIO 14.0 National notifiable disease conditions have been identified</p>

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**AHIC Priorities and Use Case Roadmap
2009 and Beyond**

<p>AHIC 1.0 Labs, medications, allergies, immunizations AHIC 2.0 Secure messaging/online consultation AHIC 3.0 Bi-directional communications AHIC 4.0 Adverse event reporting AHIC 5.0 Case reporting AHIC 6.0 Clinical decision support systems AHIC 7.0 Identification / authentication AHIC 8.0 Problem lists AHIC 9.0 Clinical encounter notes AHIC 10.0 Family history / social factors AHIC 11.0 Vitals signs AHIC 12.0 Population health / conditions AHIC 13.0 Minimum data set AHIC 14.0 Confidentiality, privacy, & security of patient data AHIC 15.0 Data access / data control AHIC 16.0 Data aggregation AHIC 17.0 Infrastructure areas missing AHIC 17.1 Security, network, repositories AHIC 18.0 Vital measurements AHIC19.0 Text documents AHIC 21.0 Health literacy (multilingual support) AHIC 23.0 Advance directive / living wills AHIC 24.0 Social/family history AHIC 26.0 Medication history</p>	<p>AHIC 27.0 E-prescribing AHIC 28.0 Standardization of device interfaces AHIC 29.0 Care plans / clinical flow sheets AHIC 30.0 Provider list AHIC 31.0 Adverse events AHIC 32.0 Nosocomial infections AHIC 33.0 Clinical data storage for surveillance AHIC 34.0 Case reporting AHIC 35.0 Bi-directional communications AHIC 36.0 Lab results AHIC 37.0 Anatomic pathology results AHIC 38.0 Radiology reports AHIC 39.0 Social history AHIC 40.0 Procedure reports AHIC 41.0 Medications AHIC 43.0 Dental AHIC 44.0 Workflow integration AHIC 45.0 Int'l public health collaboration AHIC 46.0 Legal liability & regulatory barriers AHIC 47.0 Consumer consent</p>	<p>CCHIT 1.0 Patient safety CCHIT 2.0 Transfer of care</p> <hr/> <p>HITSP 1.1.4 Text reports HITSP 1.1.5 Numeric results HITSP 1.1.7 Images HITSP 1.2 HIPAA covered entities HITSP 1.2.1 X12 Claims attachment HITSP 2.0 Secondary uses of data HITSP 2.1 Clinical research HITSP 2.2 Clinical trials HITSP 2.3 Population health HITSP 3.0 Quality / control measurements HITSP 3.1 Consistency across uses HITSP 4.0 Clinical device data HITSP 4.1 Glucometers HITSP 4.2 Monitors HITSP 4.2 Smart pump HITSP 5.0 Cross use case work on security (standards) HITSP 5.3 Authentication models to support chain of trust data exchanges</p>
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