

HIMSS Standards Task Force Taxonomy of Standards

The HIMSS Standards Task Force (STF) Taxonomy of Standards is based on the work program of the International Organization for Standardization Technical Committee: Health Informatics (ISO/TC215). The TC215 standards contribute to the improvement and maintenance of health and facilitate the delivery of health products, services and information over distances and across borders and healthcare operations. The HIMSS STF Taxonomy of Standards focuses on the Information Management and Technology transaction point of view, not human process or quality standards.

Information standards may relate to single taxonomy category; however, standards may pertain to multiple taxonomy categories. The specifications for the implementation of standards and conformance testing do not pertain to the STF Taxonomy of Standards.

Constraints:

In general, STF defers the examination of non-US information management/ technology standards as well as architecture standards though understood the identified standards were developed to facilitate the integration, interoperability and connectivity among all electronic health systems. Also deferred are implementation guides, rule and code sets, and other naming conventions either under the proprietary control or developed without the use of subject matter domain and/or an industry consensus process.

The following exceeds the intended scope of the taxonomy and HIMSS STF activities:

1. Organizations and People
2. Technology
 - a. Technical standards (i.e. XML, HTTP, SMMP, internet protocols)
 - b. System standards – measurement uptime, peak loading, system reliability, disaster resilience, recovery, surge management, system capacity.
 - c. Proprietary protocols, guides, rules, code sets or conventions
3. Process – Operations planning, how are things done in healthcare organizations
4. Quality/performance – documentation used to validate quality practices in healthcare organizations, often used as guidelines in an accreditation process.

2008 Taxonomy of Standards:

Health information management/technology standards aligned within 6 work programs:

1. Data Structure (transition from Content)
 - a. Includes Data definitions, Frameworks, Models, Templates and Data Sets
 - b. Standards Resources: ADA, HL7, ASTM, X12, DISA
 - c. Health Information Technology Standards Panel (HITSP) Use Case (<http://hitsp.org/>): Quality
2. Data Interchange (transition from Structure)
 - a. Focus on adaptation of clinical and administrative messages
 - b. Standards Resources: DICOM, IHTSDO, LOINC, HL7, X12, DISA, ASTM
 - c. HITSP Use Cases (<http://hitsp.org/>): Electronic Health Record (EHR) Laboratory Results Reporting; Consumer Empowerment; Biosurveillance
3. Semantic Content (transition from Messaging of Information)
 - a. Includes Terminology and Knowledge Representation
 - b. Standards Resources: SNOMED-CT, LOINC, DICOM, ICD, CHII
 - c. HITSP Use Case (<http://hitsp.org/>): Consumer Empowerment and Access to Clinical Information via Media
4. Security (transition from Functional) – security and privacy behavior of systems
 - a. Includes Confidentiality, Integrity, and Availability, Accountability, Security Management, Information System Safety
 - b. Standards Resources: HL7, IHE, NCPDP, X12, DISA, ASTM
 - c. HITSP Use Case: Access the HITSP Security & Privacy Constructs and Security & Privacy Infrastructure (SPI) Workgroup materials
5. Domains (new)
 - a. Includes Pharmacy, Medical Devices, Clinical Research
 - b. Standards Resources: NCPDP, IEEE, Continua, CDISC
 - c. HITSP Use Cases (<http://hitsp.org/>): Medication Management; Emergency Responder Electronic Health Record

References:

Health Information Standard Development Organizations (SDO) & related links:

- American National Standards Institute; <http://www.ansi.org/>
- Health Information Technology Standards Panel (HITSP); hitsp.org
- International Organization for Standardization Technical Committee 215: Health Informatics (ISO/TC215);
http://www.iso.org/iso/standards_development/technical_committees/list_of_iso_technical_committees/iso_technical_committee.htm?commid=54960
- National Alliance for Health Information Technology; www.nahit.org
- Healthcare Standards Landscape; <http://hcsli.sdct.nist.gov:8080/hcsli/index.html>
- Consortium and Standards List; www.consortiuminfo.org/links/health
- Information Security Wiki; healthitsecurity.net
- Military Health System Technology Management Integration & Standards (TMIS);
www.tricare.osd.mil/tmis_new/IA.htm
- Consolidated Health Informatics Initiative (CHII); <http://www.hhs.gov/healthit/chi.html>
- ANSI Health Level Seven (HL7); <http://www.hl7.org/>
- ANSI Data Interchange Standards Association; <http://www.disa.org/>
- ANSI The Accredited Standards Committee X12; <http://www.x12.org/>
- ANSI National Council for Prescription Drug Programs (NCPDP);
<http://www.ncpdp.org/>
- ANSI American Society of Testing and Materials (ASTM); <http://www.astm.org/>
- ANSI Institute of Electrical and Electronic Engineers (IEEE);
<http://standards.ieee.org/>
- Integrating the Healthcare Enterprise (IHE); <http://www.ihe.net/>
- Workgroup for Electronic Data Interchange; <http://www.wedi.org/>
- American Dental Association;
<http://www.ada.org/prof/resources/standards/products.asp>
- Digital Imaging and Communications in Medicine (DICOM); <http://medical.nema.org/>
- Clinical Data Interchange Standards Consortium (CDISC); <http://www.cdisc.org/>
- Continua; <http://www.continuaalliance.org/home>
- Logical Observation Identifiers Names and Codes (LOINC); <http://loinc.org/>
- International Health Terminology Standards Development Organization (IHTSDO)
<http://www.ihtsdo.org/> (formerly Systemized Nomenclature of Medicine: SNOMED)
- World Health Organization (WHO) International Classification of Disease (ICD)
<http://www.who.int/classifications/icd/en/>
- United States Health Information Knowledgebase; <http://www.usihk.org>