HL7 International
An Overview

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What Does the Name HL7 Mean?

- “Health”
  - Represents the domain of focus
  - HL7’s domain includes clinical and administrative data

- “Level Seven”
  - Refers to the highest level of the International Organization for Standardization (ISO) communications model for Open Systems Interconnection (OSI) – the application level
The Organization

- An accredited American National Standards Institute (ANSI) standards development organization (SDO)
- Headquartered in Ann Arbor, MI
- A not-for-profit volunteer organization
The Organization: HL7 Members

- Clinicians
- Provider organizations
- IT, HIM professionals
- Vendors
- Payers
- Consultants
- Government agencies
- Educators, trainers
- Researchers, informaticians
- Associations

Who have an interest in, or are materially affected by, the development and advancement of HIT standards, in all sectors of healthcare delivery and data use (i.e., clinical research, public & population health, quality, reimbursement, business/operations)
What Does HL7 Do?

- Develops (protocol) specifications
  - Interoperability: Enables disparate healthcare applications to exchange key sets of clinical and administrative data
  - Functional: Describes the functions that EHR and PHR systems should contain
  - Data: Semantic meaning of clinical concepts; clinical & business concepts; data definitions and value sets

- Adheres to a strict and well-defined set of operating procedures that ensures:
  - Consensus
  - Openness and transparency
  - Balance of interest on all matters
HL7’s Mission & Objectives

- Provides standards that:
  - Improve care delivery
  - Optimize workflow
  - Reduce ambiguity and enhance knowledge transfer among all of our stakeholders
  - Enhances value for our stakeholders

- Exhibit timeliness, scientific rigor and technical expertise without compromising:
  - Transparency, accountability, practicality
  - Our willingness to put the needs of our stakeholders first
~ 40 Affiliates

Australia

China

Germany

New Zealand

Singapore

The Netherlands

Columbia

Greece

South Korea

Turkey

Austria

Croatia

India

Norway

Czech Republic

Hong Kong

Pakistan

Spain

Uruguay

Brazil

Croatia

India

Norway

Czech Republic

Hong Kong

Pakistan

Spain

Uruguay

Canada

Chile

France

Japan

Russia

Taiwan

United Kingdom

United States
Free IP: What It Really Means

*Licensed* standards and *selected* intellectual property (artifacts) available at no cost

- All artifacts available to members immediately
- Selected IP available to non-members after a period of time, some artifacts with an associated cost
HL7 Products and Services

- Clinical and business requirements
- Data definitions, value sets, terminology services
- System, Application
- Messages
- Documents
- Infrastructure
- Decision Support
Product: Models

- Domain Analysis Models
- Detailed Clinical Models
- Data Types
- Reference Information Model
Products: Application

- Health Records
  - EHR System (EHR-S) Functional Model
  - PHR System (PHR-S) Functional Model

- EHR System Functional Profiles
  - Usability
  - Meaningful Use
  - Records Management and Evidentiary Support
  - Behavioral Health
  - Child Health
  - Long Term and Post Acute Care
Products: Application (cont.)

- EHR System Functional Profile (cont.)
  - Pharmacy/Pharmacist
  - Dental
  - Food and Nutrition
  - Ambulatory Oncology
  - Public Health/Vital Records
  - Emergency Services
  - Clinical Research
  - Lab Results Interface
Products: Application (cont.)

- Mobile Health
- Personnel Management
- Implantable Device Cardiac – Follow-up Device Summary
- Clinical Genomics – Pedigree
- Accounting and Billing
- Claims and Reimbursement
Products: Application (cont.)

- Medical Records – Data access consent
- Pharmacy: Medication Order
- Laboratory, Result
- Healthcare, community services, and provider directory
- Scheduling
- Notifiable Condition Report
Clinical Document Architecture - CDA

- Continuity of Care
- Healthcare Associated Infections Reports
- Operative Notes
- Framework for Questionnaire Assessments
- Quality Reporting Document Architecture
- Care Record Summary, Discharge Summary
- Consult Note, Progress Note, Procedure Note
- History and Physical
- Neonatal Care Report
- Consent Directives
- Personal Health Care Monitoring Note
Products: Infrastructure Standards

- Master file/registry
- Role-based access control, healthcare permission
HL7 Principles & Priorities

- Principles
  - Relevance
  - Change
  - Growth
  - Unity

- Relevant Change and Growth
  - Highly relevant and immediately useful standards
  - Faster, cheaper, easier to develop and implement
To Learn More: www.HL7.org