Health Level Seven, Inc.®

21st Annual Plenary and Working Group Meeting

September 16-21, 2007
Sheraton Atlanta Hotel
Atlanta, Georgia

Early Bird Registration – August 20, 2007
Online Registration & Hotel Cutoff – August 27, 2007

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Working Group Meeting Brochure
Sponsored by:

QuadraMed
Quality Care: Financial Health.
On June 4, I welcomed my third grandchild—my first granddaughter—into the family. Molly and her mother are doing very well. Unfortunately, they face the same challenges related to healthcare information exchange and interoperability as I faced when we welcomed my daughter, Molly’s mother, into the world some three decades ago. Giving credit where due, it is not for lack of trying. HL7 has been developing and promoting the use of health informatics standards for the last two of those three decades and a number of consortia have attempted to facilitate implementation of those standards. What success has been achieved is best described as limited.

HL7 is aware that, as elegant as its solutions may be, if they are not subsequently implemented by the healthcare community they do not represent solutions at all. While we continue to expand the viability and scope of our standards, we must refocus on our efforts to provide implementation guidance for our users. Recognizing this need, HL7 recently combined the Implementation Committee, a Board appointed committee, with the Conformance Special Interest Group to form the Implementation/Conformance Technical Committee (IC TC). The IC TC is tasked with supporting all post-publication activities of users of the standards. This includes the localization of HL7 standards to suit specific real-world situations, the creation of implementation guides, and the mechanism to specify conformance.

HL7 is also cognizant of the efforts of certain regional and national consortium and various federal agencies to produce guides for the implementation of HL7 standards. An early effort, the HL7 Version 2 Electronic Laboratory Reporting (ELR) Guide developed by the CDC and widely adopted by public health agencies, has been available for several years. The CDC was also instrumental in fielding an Immunization Registry Guide. The EHR-Lab Interoperability and Connectivity Standards (ELINCS) project, undertaken by the California HealthCare Foundation (CHCF), has developed a proposed national standard for the delivery of real-time laboratory results from a lab’s information system to an electronic health record.

This activity has led HL7 to develop policy and process for the adoption and support of externally developed implementation guides and specifications. Thanks in large part to a grant from CHCF, HL7 is proving this process through review, adoption, and publication of an ELINCS guide. It is our belief that future opportunities to facilitate the development and adoption of implementation guides will abound. Whether your interest is in enhancing the standards or working toward viable implementation solutions, we’re hopeful that you will join us in Atlanta for our Plenary and September Working Group Meeting. Let’s work together to ensure that broad and reliable healthcare information exchange and interoperability becomes a reality long before Molly begins her own family.

Warm regards,
Chuck

Charles (Chuck) Meyer
Chairman of the Board
Health Level Seven, Inc.
### SUNDAY, SEPTEMBER 16
- 9:00 am – 5:00 pm: Affiliates’ Council Meeting
- 1:45 pm – 5:00 pm: Modeling & Methodology (MnM) Meeting
- 3:00 pm – 6:00 pm: REGISTRATION
- 3:30 pm – 8:00 pm: Vocabulary Facilitators’ Round Table
- 5:00 pm – 5:45 pm: First-Time Attendees’ Orientation – FREE TUTORIAL
- 5:00 pm – 6:00 pm: National Library of Medicine (NLM) Meeting
- 6:00 pm – 7:30 pm: HL7 Organization and Process Orientation/Introduction – FREE TUTORIAL
- 7:30 pm – 9:30 pm: HL7/CEN/ISO Meeting

### MONDAY, SEPTEMBER 17
- 7:00 am – 7:45 am: First-Time Attendees’ Orientation – FREE TUTORIAL
- 7:30 am – 8:30 am: Continental Breakfast
- 7:30 am – 5:00 pm: REGISTRATION
- 8:30 am – 12:30 pm: Plenary Meeting
- 10:30 am – 11:00 am: Morning Break
- 12:30 pm – 1:30 pm: Lunch – First-Time Attendees’ Q & A reserved tables
- 12:30 pm – 1:30 pm: Lunch – Co-Chair reserved tables
- 12:30 pm – 1:30 pm: Organization Review Committee (ORC) Luncheon/Meeting (Must sign up)
- 1:45 pm – 5:00 pm: Working Group Meetings
- 1:45 pm – 5:00 pm: Introduction to Vocabulary
- 1:45 pm – 5:00 pm: Electronic Health Record (EHR)
- 1:45 pm – 5:00 pm: Understanding the Version 3 Ballot and Ballot Process – FREE TUTORIAL
- 3:00 pm – 3:30 pm: Afternoon Break
- 5:30 pm – 8:30 pm: HL7 Organization and Process Orientation/Introduction – FREE TUTORIAL
- 3:00 pm – 8:30 pm*: Technical Steering Committee (TSC) Dinner/Meeting
- 6:00 pm – 9:00 pm: Open Space Meetings – Self Organized (no A/V)
- 8:30 pm – 9:30 pm*: Steering Division Meetings: Domain Expertise, Conformance and Profiles

### TUESDAY, SEPTEMBER 18
- 7:00 am – 8:00 am: Continental Breakfast
- 7:30 am – 5:00 pm: REGISTRATION
- 8:00 am – 8:30 am: General Session – Announcements, Affiliates’ Council and TSC Reports
- 9:00 am – 10:30 am: HL7 Organization and Process Orientation/Introduction – FREE TUTORIAL
- 9:00 am – 12:30 pm: Introduction to Version 2, Part 1
- 9:00 am – 12:30 pm: Introduction to Version 3, Part 1: Fundamentals
- 9:00 am – 12:30 pm: Application of Vocabulary in HL7
- 9:00 am – 5:00 pm: Working Group Meetings
- 10:30 am – 11:00 am: Morning Break
- 12:30 pm – 1:30 pm: Lunch – First-Time Attendees’ Q & A reserved tables
- 12:30 pm – 1:30 pm: Lunch – Co-Chair reserved tables
- 12:30 pm – 1:30 pm: Implementation Luncheon/Meeting (Must sign up)
- 12:30 pm – 1:30 pm: OCCR Luncheon/Meeting
- 1:45 pm – 5:00 pm: Introduction to Version 2, Part 2
- 1:45 pm – 5:00 pm: Introduction to Version 3, Part 2: Messaging
- 1:45 pm – 5:00 pm: Electronic Health Record, Advanced: Conformance and Profiles
- 1:45 pm – 5:00 pm: Clinical Genomics
- 3:00 pm – 3:30 pm: Afternoon Break
- 3:30 pm – 10:00 pm: Board of Directors’ Meeting
- 6:00 pm – 9:00 pm: Open Space Meetings – Self Organized (no A/V)

### WEDNESDAY, SEPTEMBER 19
- 7:00 am – 8:00 am: Continental Breakfast
- 7:30 am – 5:00 pm: REGISTRATION
- 8:00 am – 9:00 am: General Session – Announcements, Board of Directors’ Report, Sponsorship Awards and Membership Awards
- 9:00 am – 12:30 pm: Version 2.5 Control Specialist Certification Review
- 9:00 am – 12:30 pm: Version 3 XML ITS & Data Types
- 9:00 am – 12:30 pm: CDA Introductory Tutorial
- 9:00 am – 12:30 pm: Version 3 Implementation Case Studies – FREE TUTORIAL
- 9:00 am – 5:00 pm: Working Group Meetings
- 10:30 am – 11:00 am: Morning Break
- 12:30 pm – 1:30 pm: Lunch – Co-Chair reserved tables
- 12:30 pm – 1:30 pm: Architectural Review Board (ARB) Luncheon/Meeting
- 1:45 pm – 5:00 pm: Version 3 Messaging Implementation, Part 1: Analysis & Specification
- 1:45 pm – 5:00 pm: CDA Advanced
- 1:45 pm – 5:00 pm: SNOMED
- 1:45 pm – 5:00 pm: SOA in Healthcare IM/IT
- 3:00 pm – 3:30 pm: Afternoon Break
- 5:15 pm – 6:15 pm: HL7 Networking Reception
- 6:00 pm – 9:00 pm: Open Space Meetings – Self Organized (no A/V)

### THURSDAY, SEPTEMBER 20
- 7:00 am – 7:45 am: Newly Elected Co-Chair Training – FREE TUTORIAL
- 7:00 am – 8:00 am: Continental Breakfast
- 7:30 am – 5:00 pm: REGISTRATION
- 8:00 am – 8:30 am: General Session
- 9:00 am – 12:30 pm: Version 2 Message Profiles & Conformance
- 9:00 am – 12:30 pm: Version 3 Messaging Implementation, Part 2: Mechanics
- 9:00 am – 12:30 pm: CCD
- 9:00 am – 5:00 pm: Working Group Meetings
- 10:30 am – 11:00 am: Morning Break
- 12:30 pm – 1:30 pm: Affiliate Chair or Designated Rep Luncheon (Must sign up)
- 12:30 pm – 1:30 pm: Lunch
- 1:45 pm – 5:00 pm: Version 3 Message Wrappers & Transport
- 1:45 pm – 5:00 pm: CDA Specialist Certification Review
- 1:45 pm – 5:00 pm: Version 3 Specification Development Tools
- 3:00 pm – 3:30 pm: Afternoon Break
- 5:30 pm – 7:30 pm: Version 2.5 Control Specialist Certification Test
- 5:30 pm – 7:30 pm: CDA Specialist Certification Test
- 5:30 pm – 10:00 pm: MnM Facilitators’ Roundtable

### FRIDAY, SEPTEMBER 21
- 8:00 am – 8:30 am: No General Session
- 8:00 am – 9:00 am: Continental Breakfast
- 8:00 am – 1:00 pm: Staff will be on hand for questions
- 9:00 am – 5:00 pm: Working Group Meetings
- 10:30 am – 11:00 am: Morning Break
- 12:30 pm – 1:30 pm: Lunch
- 3:00 pm – 3:30 pm: Afternoon Break

*Exact time may vary and is dependant upon the final TSC agenda

Note: Tutorials appear in bold
Note: In compliance with our status as an ANSI-accredited standards developing organization, HL7 meetings are open.
What is a Working Group Meeting?

HL7 working group meetings are held three times per year at varying locations. These working group meetings serve two important purposes: 1) They give the HL7 technical committees and special interest groups a chance to meet face-to-face to work on the standards; 2) They provide an invaluable educational resource for the healthcare IT community.

STANDARDS DEVELOPMENT

HL7 has more than 40 technical committees (TCs) and special interest groups (SIGs) dedicated to specialized areas of interest such as Orders and Observations and Electronic Health Records. These technical committees and special interest groups are directly responsible for the content of the standards and spend much of their time at the working group meetings hard at work on standards development. Attending a TC or SIG meeting can be a great way to get a handle on what is going on in a particular area, and everyone attending an HL7 working group meeting is invited to attend any of the TC or SIG meetings.

Please see pages 17-19 for a complete schedule of meeting times throughout the week.

EDUCATIONAL SESSIONS

This working group meeting will offer numerous educational opportunities. Sessions will cover a full range of HL7-specific topics such as Version 2.x Implementation, Version 3, and the Clinical Document Architecture (CDA) among others. Educational sessions also branch out to cover general interest industry topics such as the Electronic Health Record, XML and Vocabulary Terminology. For a full listing of course descriptions, please see pages 6-13.

Newly Updated Education Tracks

HL7 has organized its courses into four tracks to make it easier to choose the educational offerings that are right for you:

- TRACK 1 – VERSION 2 CORE
- TRACK 2 – VERSION 3 CORE
- TRACK 3 – HL7 SPECIAL TOPICS
- TRACK 4 – INFORMATION FORUMS ON HL7 PROCESS

TRACK 1 – VERSION 2 CORE

HL7 Version 2 is the world's most successful healthcare interoperability standard. Originally developed in the late 1980s, it has been continually enhanced over time. The introductory tutorials familiarize students with the Version 2 messaging standard and its core domain areas, while the implementation classes provide the “how to” basics of implementation. The track also includes courses that cover conformance and profiles and XML for Version 2.

TRACK 2 – VERSION 3 CORE

HL7 Version 3 is HL7's new flagship standard, adopted by major healthcare organizations, such as the NHS in England. This track is designed to give the attendee a thorough introduction to the Version 3 family of standards. It covers Version 3 fundamentals, the Reference Information Model, messaging, documents (Clinical Document Architecture), messaging infrastructure (wrappers, transport), and the XML Implementation Technology specification. It concludes with classes that address strategies for implementation.

TRACK 3 – HL7 SPECIAL TOPICS

The special topics track offers a variety of electives that describe important HL7 standards that may not fall in either the Version 2 or Version 3 family. These include HL7 standards for Electronic Health Records (EHR), visual integration (CCOW), security and medical logic (Arden Syntax). The special topics track also offers advanced or specialized classes in Version 2 or Version 3 subjects which are not considered part of the basic core offerings. Examples include classes in Version 2 and Version 3 tooling and domain classes such as Clinical Genomics.

TRACK 4 – INFORMATION FORUMS ON HL7 PROCESS

*NEW TRACK* *FREE*

This track provides tutorials designed to support new member involvement and help existing members become more effective in their participation in the HL7 standards development process. Tutorials included in this class include first-time attendees' orientation, introduction to HL7 organization and process, balloting procedures, the HL7 development framework, co-chair training, as well as case studies to facilitate early adoption.

*These tracks are only suggested course groupings. Feel free to choose whatever courses you feel are right for you from among the four tracks.*
## Welcoming Comments

**Mark McDougall**, Executive Director, HL7

### Keynote Address:

**Presentation Topic TBD**

**Julie Geberding, MD, MPH (invited)**, Director, Centers for Disease Control

### Keynote Address:

**HL7’s Role in Transforming the U.S. Healthcare Environment**

**John D. Halamka, MD**, Chair, Healthcare Information Technology Standards Panel (HITSP)

### HL7-Specific Transformation

**Charles Jaffe, MD, PhD**, CEO, Health Level Seven

### Break

### Panel Session

**HL7 as the Catalyst for Transformation of Healthcare IT around the World**

**Moderator:** **John D. Halamka, MD**

**Diego Kaminker**, Chair, HL7 Argentina  
**Yun Sik Kwak, MD, PhD**, Chair, HL7 Korea  
**Dennis Giokas**, CTO, Canada Health Infoway  
**Jos M. Baptist**, Senior Advisor Standardization Processes, NICTIZ the National ICT Institute for Healthcare in The Netherlands

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*Schedule and speakers are subject to change.  
A final agenda will be emailed to HL7 members and printed in the HL7 On-Site Meeting Schedule & Hotel Guide in August.*
TRACK 1 – VERSION 2 CORE

**T3 | Introduction to Version 2, Part 1**
Tuesday, September 18 / 9:00 am – 12:30 pm

This tutorial introduces students to HL7 and the basic concepts of Version 2. It discusses the structure of the Standard and covers two of the standard’s fundamental chapters: Control and Patient Administration.

**This Tutorial Will Benefit:**
- Those new to HL7

**Faculty:**
Mike Henderson: Principal Consultant, Eastern Informatics

**T6 | Introduction to Version 2, Part 2**
Tuesday, September 18 / 1:45 pm – 5:00 pm

This tutorial provides the students with an overview of the Version 2 Orders and Observations messages and major concepts and provides a sampling of the type of information that can be communicated using these messages.

**This Tutorial Will Benefit:**
- Those new to HL7 with a need to become familiar with Version 2 messages

**Upon Completion of This Tutorial, Students Will Know:**
- Basic Order and Observation message structures
- Sample messages
- How to start to interpret the Version 2 Orders and Observation standards

**Faculty:**
Hans Buitendijk: Co-Chair, HL7 Orders and Observations Technical Committee; Co-Chair, HL7 Organization Review Committee; HL7 Board of Directors; Portfolio Manager, Siemens Medical Solutions Health Services Corporation Project Manager

**W10 | Version 2.5 Control Specialist Certification Review**
Wednesday, September 19 / 9:00 am – 12:30 pm

This tutorial reviews the message definition as well as processing rules and data type definitions of the Control chapters of the HL7 Version 2.5 Standard. Upon completion of this tutorial, students will be better prepared to take the HL7 Version 2.5 Control Specialist Certification Exam. Note that students are also expected to prepare for the exam by previous study of Chapter 2 (Control) and Chapter 2A (Data Types) of the HL7 Version 2.5 Standard.

**This Tutorial Will Benefit:**
- Anyone preparing for the HL7 Control Specialist Certification Exam
- Interface analyst specialists and managers who need to understand the technical aspects of HL7 interfaces

**Faculty:**
Mike Henderson: Principal Consultant, Eastern Informatics

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**TH17 | Version 2 Message Profiles and Conformance**
Thursday, September 20 / 9:00 am – 12:30 pm

This course is designed to explore the concept of conformance within HL7 Version 2 as described in Chapter 2 of Version 2.5. Additionally, this tutorial will demonstrate how we can apply message profiling to interoperability by improving clarity, simplifying implementations and streamlining testing. Participants will be introduced to tools that facilitate analysis and interoperability while, at the same time, fully documenting HL7 conformance.

**This Tutorial Will Benefit:**
- Anyone interested in HL7 interoperability

**Upon Completion of This Tutorial, Students Will Know:**
- How to measure conformance using messaging profiling
- How vendors can document their applications’ implementations
- How providers can improve their RFP results by using message profiling
- How to use message profiles developed for specific domains
- The tools available to facilitate HL7 Version 2.x conformance efforts (Messaging Workbench and the Global Profile Library)
- More about HL7 conformance certification
- How to develop HL7 conformance documentation for Version 2

**Prerequisites:**
- Working knowledge of HL7 or other EDI standards (ASTM, X12)

**Faculty:**
Abdul-Malik Shakir: Co-Chair, HL7 Education Committee; Principal Consultant, Shakir Consulting

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**TH23 | Version 2.5 Control Specialist Certification Test**
Thursday, September 20 / 5:30 pm – 7:30 pm

Health Level Seven is pleased to offer certification testing on HL7 Version 2.5 Chapter 2: Control. Certification testing is offered to those industry participants who are expected to have a working knowledge of the HL7 Messaging Standard. Interface analysts, healthcare systems analysts, medical software programmers, and medical informatics faculty and students are all potential candidates.

The knowledge required to prepare for the exam can be obtained by participation in the HL7 working group meetings, by attending HL7 education sessions, by field work dealing with HL7 interfaces, or simply by self-study of the HL7 Standard Version 2.5 Chapter 2: Control.

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**TRACK 2 – VERSION 3 CORE**

**T4 | Introduction to Version 3, Part 1: Fundamentals**
Tuesday, September 18 / 9:00 am – 12:30 pm

Introduction to Version 3 is a rigorous introduction to HL7’s newly emerging standard. Included in the class is:
- General rationale for Version 3
Introduction to Version 3, Part 2: Messaging

Wednesday, September 19 / 9:00 am – 12:30 pm

Health Level Seven is famous as a provider of messaging standards. That is, providing the standard format and interaction specifications required for two disparate health care systems to communicate at the application level. This class builds on the morning Version 3 introduction class by focusing on how messaging is addressed with the Version 3 standard. It reviews and expands on how Version 3 static models are used to represent messages. The Version 3 dynamic model, which is related to the interactions between systems, is introduced. It explains how message sets are documented within the standard. Finally, it explores how a simple message is wrapped, transmitted, and acknowledged.

Note that the class is based on the latest Version 3 ballot material. The latest Version 3 ballot publication can be accessed and downloaded from http://www.hl7.org/V3ballot/html/welcome/introduction/index.htm. Students may be interested in reviewing or downloading the ballot prior to class.

The Tutorial Will Benefit:
- Anyone who needs to read Version 3 messaging publications
- Anyone interested in Version 3 implementation or standards development
- Anyone interested in more advanced classes on Version 3

Upon Completion of This Tutorial, Students Will Have Obtained the Following:
- Rudimentary understanding of Version 3 static and dynamic models and associated terminology necessary to understand the static models of Version 3 used for both messages and documents
- Overview of the Version 3 publication (ballot and standard)
- Essential concepts and terminology necessary to understand the static models of Version 3 used for both messages and documents

Prerequisites:
- Experience with healthcare interfacing would be helpful
- Experience or training with systems (development, integration, and/or implementation) required
- It is assumed that the student has some familiarity with the HL7 organization and its processes (balloting procedures, etc.)

Faculty:
Virginia Lorenzi: NewYork-Presbyterian Hospital

Table of Tutorials

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This tutorial provides an in-depth look at the Version 3 XML Implementable Technology Specification (ITS), covering both the Structures and Data Types portions of the ITS.

This Tutorial Will Benefit:
- Anyone with XML experience interested in Version 3 implementation
- Anyone with a specific interest in the Version 3 XML Implementation Technology Specification

Upon Completion of This Tutorial, Students Will Know:
- How clinical and administrative information is represented in Version 3 messages (Interactions) and documents using XML instances
- Basics of how to generate and process Version 3 XML instances
- An understanding of Version 3 data types, especially with respect to their XML implementation

Prerequisites:
- Basic knowledge in Version 3 concepts, including RIM (Act, Entity, Role, Participation), RMIM, HMD, Message Type, and Interaction
- Knowledge of the Extensible Markup Language (XML)
- Basic knowledge of XML Schema
- The Version 3-related prerequisites can be met by taking the Introduction to Version 3 tutorials (Part 1 and Part 2). The XML-related prerequisites can be met in many ways; for instance refer to the following XML related specifications:
  - Extensible Markup Language (XML) 1.0 (Second Edition) http://www.w3.org/TR/REC-xml
  - Namespaces in XML http://www.w3.org/TR/REC-xml
  - XML Schema Part 0: Primer: http://www.w3.org/TR/xmlschema-0/
This Tutorial Will Benefit:

- Healthcare providers and exchange network architects considering CDA implementation
- Product managers considering support for CDA
- Public health officials and those with structured information reporting requirements
- Implementers of all kinds beginning to work with CDA

Prerequisites:

- Introduction to Version 3 (Part 1) recommended

Faculty:

Liora Alschuler: Co-Editor, CDA; Co-Chair, HL7 Structured Documents Technical Committee; HL7 Board of Directors; Principal, Alschuler Associates, LLC

Rick Geimer (Co-Speaker): Co-Editor, CCD & CDA H&P; Creator CDA Online Validator, Software Architect/Developer, Alschuler Associates, LLC

W12 Clinical Document Architecture (CDA) Introductory Tutorial

Wednesday, September 19 / 9:00 am – 12:30 pm

Tools Needed:

- While a laptop is not required, there will be a paper-based workshop component to this tutorial and those with a laptop and any XML editor running on it might get more out of the hands-on exercises

The Clinical Document Architecture is HL7’s specification for standards-based exchange of clinical documents. CDA is based on the concept of scalable, incremental interoperability and uses Extensible Markup Language (XML), the HL7 Reference Information Model (RIM), and controlled terminology for structure and semantics. This tutorial presents the business case for CDA, its primary design principles, and an overview of the technical specification. The session describes CDA projects in the United States, Europe and Asia/Pacific; the tools available for CDA creation, management and distribution; and current work on CDA summary documents (Continuity of Care Document (CCD)); other common document types including the History & Physical, Discharge Summary and Consult Note; and CDA for Reporting, including the proposed CDA-based Healthcare Associated Infection Report for the National Health Safety Network.

This Tutorial Will Benefit:

- Analysts and architects who need to map HL7 Version 3 messages to or between computer applications
- Project managers responsible for Version 3 implementation projects
- Anyone considering Version 3 early adoption

Upon Completion of This Tutorial, Students Will Know:

- How to develop and carry out a plan for creating Version 3 interfaces
- How to read and write Version 3 message specifications
- How to design tips and strategies

Prerequisites:

- A basic understanding of Version 3 is a requirement (such as the Introduction to Version 3 tutorials). More advanced tutorials (XML ITS and Wrappers) are encouraged as well. Previous experience in Version 2 implementations will be of value.

Faculty:

Mead Walker: Chair, HL7 Architectural Review Board; Mead Walker Consulting

W14 Clinical Document Architecture (CDA) Advanced Tutorial

Wednesday, September 19 / 1:45 pm – 5:00 pm

It covers:

- Documentation of message specifications
- Implementation considerations for data types
- Managing vocabulary from the implementation perspective
- Procedures to address refinement and localization of the standard
- Tips and strategies for successful implementation

This class also provides a lead-in for Version 3 Implementation, Part 2: Implementation Mechanics.

This Tutorial Will Benefit:

- Project managers responsible for Version 3 implementation projects
- Analysts and architects who need to map HL7 Version 3 messages to or between computer applications
- Anyone considering Version 3 early adoption

Upon Completion of This Tutorial, Students Will Know:

- Have an overview of CDA
- Have insight into the XML markup required to implement solutions
- Have a better understanding of the issues surrounding semantic interoperability using CDA

Prerequisites:

- Completion of the Introduction to the Clinical Document Architecture (CDA) tutorial recommended, but not required
- Basic knowledge of the Version 3 standards (as can be obtained from the Introduction to Version 3 tutorial series)

Faculty:

Kai Heitmann, MD: International Representative, HL7 Board of Directors; HL7 Germany; Heitmann Consulting & Services (The Netherlands, Germany), University of Cologne (Germany)

Liora Alschuler: Co-Editor, CDA; Co-Chair, HL7 Structured Documents Technical Committee; HL7 Board of Directors; Principal, Alschuler Associates, LLC


Wednesday, September 19 / 1:45 pm – 5:00 pm

The use of HL7 Version 3 to implement interfaces within a particular application context can have hidden complexities. While Version 3 has been designed to reduce the amount of required site-specific negotiation, it is not possible to simply pull the message specification(s) “out of the box” and install it. This tutorial guides the student through the analysis process, and addresses issues necessary for building robust interface solutions.

Tools Needed:

- Basic knowledge of the Version 3 standards (as can be obtained from the Introduction to Version 3 tutorial series)

It covers:

- Documentation of message specifications
- Implementation considerations for data types
- Managing vocabulary from the implementation perspective
- Procedures to address refinement and localization of the standard
- Tips and strategies for successful implementation

This class also provides a lead-in for Version 3 Implementation, Part 2: Implementation Mechanics.

This Tutorial Will Benefit:

- Project managers responsible for Version 3 implementation projects
- Anyone considering Version 3 early adoption

Upon Completion of This Tutorial, Students Will Know:

- Have an overview of CDA
- Have insight into the XML markup required to implement solutions
- Have a better understanding of the issues surrounding semantic interoperability using CDA

Prerequisites:

- Completion of the Introduction to the Clinical Document Architecture (CDA) tutorial recommended, but not required
- Basic knowledge of the Version 3 standards (as can be obtained from the Introduction to Version 3 tutorial series)

Faculty:

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Tools Needed:

- While a laptop is not required, there will be a paper-based workshop component to this tutorial and those with a laptop and any XML editor running on it might get more out of the hands-on exercises

The Clinical Document Architecture is HL7’s specification for standards-based exchange of clinical documents. CDA is based on the concept of scalable, incremental interoperability and uses Extensible Markup Language (XML), the HL7 Reference Information Model (RIM), and controlled terminology for structure and semantics. This tutorial presents the business case for CDA, its primary design principles, and an overview of the technical specification. The session describes CDA projects in the United States, Europe and Asia/Pacific; the tools available for CDA creation, management and distribution; and current work on CDA summary documents (Continuity of Care Document (CCD)); other common document types including the History & Physical, Discharge Summary and Consult Note; and CDA for Reporting, including the proposed CDA-based Healthcare Associated Infection Report for the National Health Safety Network.

This Tutorial Will Benefit:

- Healthcare providers and exchange network architects considering CDA implementation
- Product managers considering support for CDA
- Public health officials and those with structured information reporting requirements
- Implementers of all kinds beginning to work with CDA

Prerequisites:

- Introduction to Version 3 (Part 1) recommended

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W14 Clinical Document Architecture (CDA) Advanced Tutorial

Wednesday, September 19 / 1:45 pm – 5:00 pm

CDA implementation requires understanding the CDA refinement of the RIM (the CDA RMIM), the Version 3 data types and how these combine with controlled vocabularies to form “clinical statements.” This tutorial reviews the principles of semantic interoperability with CDA and how these are reflected in the CDA model and implemented in the CDA schema. It reviews the CDA RMIM, schema and data types. In addition, the tutorial gives a detailed walkthrough of samples of CDA documents, coded using Clinical Statements.

This Tutorial Will Benefit:

- Those needing to learn more about CDA, Release Two – its derivation from the RIM and issues relevant to implementing CDA 2.0 solutions
- Implementers needing to work with CDA, and wanting a review of the details

Upon Completion of This Tutorial, Students Will Know:

- Have an overview of CDA
- Have insight into the XML markup required to implement solutions
- Have a better understanding of the issues surrounding semantic interoperability using CDA

Prerequisites:

- Completion of the Introduction to the Clinical Document Architecture (CDA) tutorial recommended, but not required
- Basic knowledge of the Version 3 standards (as can be obtained from the Introduction to Version 3 tutorial series)

Faculty:

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Rick Geimer (Co-Speaker): Co-Editor, CCD & CDA H&P; Creator CDA Online Validator, Software Architect/Developer, Alschuler Associates, LLC
**Faculty:**

Calvin Beebe: Co-Chair, HL7 Structured Documents Technical Committee; Co-Editor, CDA; Technical Specialist, Information Services, Mayo Clinic - Rochester, MN

Robert Dolin, MD (Co-Speaker): Co-Chair, HL7 Structured Documents Technical Committee; HL7 Board of Directors; Physician, Kaiser Permanente

**Version 3 Messaging Implementation, Part 2: Implementation Mechanics**

**Thursday, September 20 / 9:00 am – 12:30 pm**

This class gives an overview of current technical strategies for implementing solutions based on the Version 3 specifications. How do we populate a message from our repository? What do we do when we receive a message? How do we process it? This tutorial will address implementation of Version 3 messaging systems from a practical point of view. Different architectural approaches will be examined and compared. The tutorial is designed to address the needs of the implementer/developer, bridging the gap between domain experts and developers. The tutorial will address techniques and design patterns for manipulating Version 3 messages: parsing and serialization, extended validation, communication, storage and retrieval, localization and extensions and enablement of existing applications. The tutorial will also give a brief overview of the tools available to the HL7 community for implementing these solutions.

**This Tutorial Will Benefit:**
- Software architects responsible for integration projects
- Developers responsible for Version 3 implementation
- Technical specialists considering Version 3 adoption

**Upon Completion of This Tutorial, Students Will Have:**
- Understanding of multiple architectural approaches and techniques for Version 3 implementation
- Basic knowledge of the different technologies and tools available to implement HL7 Version 3 message specifications

**Prerequisites:**
- Introduction to Version 3 (Part 1 and Part 2)
- Version 3 XML ITS and Data Types
- Version 3 Wrappers and Transport
- Version 3 Implementation, Part 1: Analysis and Specification

**Faculty:**

Roberto Ruggeri: Author and Editor, HL7 Web Services Profiles; Primary Contributor, HL7 Abstract Transport Specification; Senior Technical Strategist, Healthcare and Life Sciences, Microsoft Corporation

**TH20**

**Version 3 Message Wrappers and Transport**

**Thursday, September 20 / 1:45 pm – 5:00 pm**

This tutorial covers two Version 3 infrastructural areas in detail: Message Wrappers & Transport Protocols (e.g. ebXML, SOAP, Web services, MLLP). It introduces how Version 3 messages are packaged, transmitted and acknowledged. It explains that Version 3 message payloads are wrapped in two message wrappers. Its main focus is on these wrappers and on the relationship between HL7 messages and transport protocols in general. The details of individual transport protocols will NOT be covered.

**This Tutorial Will Benefit:**
- Anyone interested in the implementation of Version 3 messages

**Upon Completion of This Tutorial, Students Will Know:**
- What Message Wrappers exist and how they should be used
- How Version 3 messages can be communicated using various Transport protocol
- How communication servers and other intermediaries fit within the HL7 transport architecture

**Prerequisites:**
- Completion of the Introduction to Version 3 Tutorial (especially Part 2)
- Basic knowledge of the Version 3 Standard

**Faculty:**

Mark Tucker: Senior Programmer Analyst, Regenstrief Institute, Inc.
Tutorials

**Faculty:**
*Calvin E. Beebe:* Co-Chair, HL7 Structured Documents Technical Committee; Co-Editor, CDA; Technical Specialist, Information Services, Mayo Clinic - Rochester, MN

**TH22**  

**Thursday, September 20 / 1:45 pm – 5:00 pm**

This tutorial will provide a step-by-step understanding of the tools that committee contributors and facilitators use to develop and submit content for HL7 Version 3 ballots. It will also cover tooling that committees and implementers can use to better document their specifications, including the ability to develop documentation targeted at different user groups. This will be a “hands-on” session with participants “following along” by running the tools on their own laptop computers. Instructions on downloading and installing the necessary tools will be provided to students in advance of the tutorial. www.hl7.org/library/datamodel/V3Tooling/toolsIndex.html

**This Tutorial Will Benefit:**
- Individuals who are supporting HL7 committees, related project teams, and others involved in the documentation of messaging standards, and the creation and documentation of message designs and specifications, including the ability to develop documentation targeted at different user groups.

**Scope:**
The intent is to provide an overview of the tooling that supports ballot tooling from “end-to-end” including:

- Tooling architecture, including the place and potential uses of the HL7 Model Interchange Format (MIF)
- HL7 repositories—overview of contents and organization (brief)
- RoseTree—Use as a RIM and Vocabulary Browser (brief)
- Publication database—including WYSIWYG editing with XML Spy
- RMIM Design Tool in Visio—including design steps, use of shadows, textual documentation, validation, saving designs
- Creation of HMD and MessageType—creating these designs in RoseTree, once the RMIM is saved from Visio
- Creation of XML and Excel exports—exporting these representations of an HMD with RoseTree, and formatting of the Excel view
- Generation of XML schemas—creation of XML schemas for the message designs using HL7—defines XSLT processes. Time permitting; we will also cover likely (or known) future changes to these tools

**Prerequisites:**
- This tutorial pre-supposes a detailed familiarity with Version 3 terminology. At a minimum, the prospective student should have taken or have previous knowledge of the material addressed in the Introduction to Version 3 tutorials. Other courses on the Version 3 track, especially the Version 3 Implementation, Part 1 class, are suggested as well. The tutorial will not cover Version 3 terminology, the RIM, representation of concepts in an RMIM, cloning, application roles, etc. It is presumed that the participants are conversant with these topics and simply need to know how to capture the artifacts with the tools.

**Faculty:**
*Lloyd McKenzie, PEng (Lead Speaker):* Co-Chair, HL7 Modeling and Methodology Technical Committee; Co-Chair, Tooling Committee; Modeling and Methodology Facilitator-at-Large; Principal Consultant, LM&A Consulting Ltd.

**TH24**  
CDA Specialist Certification Test

**Thursday, September 20 / 5:30 pm – 7:30 pm**

Health Level Seven is pleased to offer certification testing on HL7 CDA Release 2.0. Certification testing is offered to those industry participants who are expected to have a working knowledge of the CDA Release 2.0 Standard. Healthcare systems analysts, medical software programmers, and medical informatics faculty and students are all potential candidates.

The knowledge required to prepare for the exam can be obtained by attending HL7 education sessions, by field work dealing with HL7 CDA based applications, or simply by self study of the HL7 CDA Release 2.0 Standard. Please refer to the Study Guide on the HL7 Training and Certification page for details on the content covered by the test.

**TRACK 3 – HL7 SPECIAL TOPICS**

**M1**  
Introduction to Vocabulary

**Monday, September 17 / 1:45 pm – 5:00 pm**

Brief topics include an overview of terminologies and value sets, concept representation in information models and messages, some commonly used vocabularies in healthcare, and Common Terminology Services. Some of these topics are dealt with more deeply and completely in the Application of Vocabulary and SNOMED tutorials.

**This Tutorial Will Benefit:**
- Those seeking an overview to terminology in models and messaging, with specific examples in LOINC and SNOMED.

**Upon Completion of This Tutorial, Students Will Know:**
- The reasons behind the need for coded terminology in communications
- The basic role and integration of terminologies into HL7 messages and models
- Basic understanding of the LOINC, SNOMED and other clinical terminology systems as applied in HL7.

**Faculty:**
*Ted Klein, MS:* Co-Chair, HL7 Vocabulary Technical Committee; Klein Consulting Inc.

**M2**  
Electronic Health Record (EHR)

**Monday, September 17 / 1:45 pm – 5:00 pm**

This informative tutorial and review provides an in-depth look at the recently-approved, 2007 ANSI EHR System Functional Model, Release 1, which now includes conformance criteria, along with background information including an overview of other EHR standards initiatives (ASTM, CEN, openEHR). In addition, the tutorial will also cover the status of on-going EHR projects (Canada, UK, and Australia). The tutorial will also include related industry background information including a briefing
This Tutorial Will Cover the Following Topics:

- The need for using standard coded terminologies in HL7
- Why the Vocabulary TC was created and its current role and mission within HL7
- A brief summary of Version 2.x terminology strategy
- An overview of the Version 3 coded data types
- How coded terminologies are represented in Version 3 messages and bound to them
- Value Sets and the registration and use of terminologies in Version 3 structures
- A brief summary of the purpose of the Common Terminology Services specification

This Tutorial Will Benefit:

- People who want to participate in the work of the Vocabulary TC, and people who are planning to implement Version 3 messages

Upon Completion of This Tutorial, Students Will Know:

- The history of the Vocabulary TC
- How to look up codes in the Version 2.x tables
- How coded data is represented in Version 3 messages
- How to understand and use Value Sets and Concept Domains
- How coded data is represented in Version 3 messages
- How to register a terminology for use in HL7 messages
- Who to ask if they have questions

Prerequisites:

- Completion of the EHR-S Functional Model class or strong knowledge of Chapters 3, 4 and 5 of the model (Direct Care, Supportive & Information Infrastructure)

Faculty:

R. Lenel James: CPEHR, CPHIT: Senior Project Manager, Health Information Technology Unit, BlueCross BlueShield Association; Chair, Collaboration and Outreach Task Group, X12; Chair, Education Task Group, X12N/TG11; Team Co-Lead, HL7 Electronic Health Records Technical Committee; Publications and Conformance Work Groups

Lynne Rosenthal: Manager, Standards and Conformance Testing Group, Information Technology Laboratory, National Institute of Standards and Technology

T9  Clinical Genomics

Tuesday, September 18 / 1:45 pm – 5:00 pm

This tutorial provides an overview of the HL7 Version 3 Clinical Genomics Domain that includes the Genotype and the Pedigree Topics. We start with the Genotype Topic models (GeneticLocus and GeneticLoc) and describe the focal areas of sequencing, expression, and proteomic data. The main paradigm underlying the model's design is "encapsulate & bubble-up" which will be explained in detail, illustrating how it is
possible to use the HL7 models to encapsulate raw genomic data represented in bioinformatics markups and yet bubble-up the most clinically significant portions of that data into other HL7 objects and associate them with the patient’s observed clinical phenotypes as well as scientifically-known phenotypes. We then describe the Pedigree Topic (the Family History model) that enables the exchange of a complete clinical genomics family history of a patient through the utilization of the core models in the Genotype Topic. Several experimental samples of the Clinical Genomics specifications will be briefly described.

This Tutorial Will Benefit:
• Clinical Genomics integration endeavors are emerging these days in attempt to bring into healthcare practice new discoveries in genomic research. These endeavors support the personalized medicine vision and anyone involved in an effort to realize that vision will benefit from this tutorial because standards that bridge the gap between bio and medical informatics are crucial to that end.

Upon Completion of This Tutorial, Students Will Know:
• Existing life sciences standard data formats
• Design principles of the Clinical Genomics specifications
• Technical aspects of the specifications (how it relates to the HL7 RIM)
• Experimental samples of the Clinical Genomics specifications

Prerequisites:
• HL7 Tutorial: Introduction to Version 3
• General Prerequisite: Basic understanding of core bioinformatics concepts such as locus, gene, allele, sequence, expression, and translation

Faculty:
Amnon Shabo (Shvo), PhD: Co-Chair & Facilitator, HL7 Clinical Genomics Special Interest Group; Co-Editor – CDA Release 2 and CCD Implementation Guide; Research Staff Member, IBM Research Lab in Haifa

W15 SNOMED

Wednesday, September 19 / 1:45 pm – 5:00 pm

SNOMED CT® is a robust clinical terminology designed in description logic formalism licensed for use in medical applications across the US and UK and in a growing number of countries across the globe. In its latest release, it contains more than 300,000 terms and over 770,000 descriptions. SNOMED CT® is defined as a Consolidated Healthcare Informatics (CHI) required terminology for the Federal Health Architecture for clinical care terms.

In this tutorial we will review the structure of the SNOMED CT® Terminology model, its defining hierarchical relationships, and the rules for assembling complex concepts from atomic concepts (post-coordination). We will also explore the use of the HL7 data types commonly used to carry SNOMED CT® terms.

This Tutorial Will Benefit:
• Anyone needing to understand SNOMED and its use as a clinical vocabulary and how to structure SNOMED concepts in the CD data type including post-coordination

Upon Completion of This Tutorial, Students Will Know:
• The scope, organization and usage of SNOMED to describe clinical data elements including the use of complex post coordinated concepts

Prerequisites:
• None

Faculty:
Cecil Lynch, MD, MS: Co-Chair, Vocabulary Technical Committee; Principal, OntoReason, LLC

W16 Service Oriented Architecture in Healthcare IM/IT

Wednesday, September 19 / 1:45 pm – 5:00 pm

Service Oriented Architectures (SOAs) are a hot topic in the IT world, and form part of the technological foundation for many developers and architects coming to the healthcare industry. At the same time, IT professionals and CIOs already within the healthcare space see tremendous value in the application of SOA principles to core IT problems. This tutorial will discuss a working definition of SOA, ongoing efforts at SOA within the HL7 community, and the applicability of SOA to new and legacy enterprise healthcare applications.

This Tutorial Will Benefit:
• HL7 developers, IT professionals, CIOs, CTOs, business analysts

Upon Completion of This Tutorial, Students Will Know:
• The difference between SOAs and services
• The SOA Roadmap for HL7
• The difference between message systems and service systems
• The applicability of services and SOA to different healthcare implementations
• Ways to leverage ongoing standards work

Prerequisites:
• None

Faculty:
John J. Koisch: Co-Chair, HL7 Services Oriented Architecture Special Interest Group; Senior SOA Architect, VHA

TRACK 4 – INFORMATION FORUMS

F1/F3 HL7 First-Time Attendees’ Orientation – FREE TUTORIAL

Sunday, September 16 / 5:00 pm – 5:45 pm
Monday, September 17 / 7:00 am – 7:45 am

HL7 will offer a special orientation session for first-time attendees. This 45-minute session will give those new to HL7 the lay of the land and help make sure they get the very most out of their first Working Group Meeting experience. The session will consist of a quick meeting “tour” and a question and answer session that will help attendees make informed choices and maximize their time at the meeting. The session will be offered twice during the meeting—one on Sunday evening and again on Monday morning.
Faculty:
Nancy Wilson-Ramon: Co-Chair, HL7 Process Improvement Committee, HL7 Electronic Services Committee

F2/F5  HL7 Organization and Process Orientation/Introduction – FREE TUTORIAL

Sunday, September 16 / 6:00 pm – 7:30 pm
Tuesday, September 18 / 9:00 am – 10:30 am

This session provides a brief history of the HL7 organization and answers the question “What is HL7?” An overview of the current committee structure and content domains will be presented. Attendees will learn the formal committee process and protocol and how to effectively participate in the work of the committees. This tutorial has been added at the request of first-time attendees seeking to gain deeper knowledge of the organization and its work processes.

Faculty:
John Quinn: HL7 Technical Committee Chair; Senior Executive, Accenture

F4  Understanding the Ballot Process and the Version 3 Ballot – FREE TUTORIAL

Monday, September 17 / 1:45 pm – 5:00 pm

This tutorial is designed to help members new to the HL7 community who are unfamiliar or have little understanding of HL7’s ballot cycles and the ballot process. Participants will have a chance to look at the ballot preview site, the Ballot Desktop, and the ballot pools. Demonstrations of how to submit a vote for a ballot, how to review ballot materials, and how to complete a ballot comment spreadsheet will be given. Participants will also gain understanding of what happens after submitting a negative ballot and the reconciliation process. Organizational voting and affiliate voting will also be discussed.

This Tutorial Will Benefit:
• Anyone interested in contributing to balloting, however have little or no understanding of it
• Anyone interested in the balloting process
• Anyone interested in contributing to HL7 standards development

Upon Completion of This Tutorial, Students Will Know:
• How to fill out the Ballot Comment Spreadsheet
• How to navigate Version 3 ballot materials
• How to vote on ballots
• Where to find Version 3 current and past ballot cycles
• What to expect after submitting a negative ballot

Prerequisites:
• HL7 Organizational Process Orientation/Introduction tutorial is recommended before attending this tutorial

Faculty:
Wendy Huang: Canada Secretariat, HL7 Canada; Standards Analyst, Canada Health Infoway

F6  Version 3 Implementation Case Studies – FREE TUTORIAL

Wednesday, September 19 / 9:00 am – 12:30 pm

There will be two extended case studies from those with experience of implementing HL7 Version 3. The presenters will cover both the benefits of using HL7 Version 3 in their projects, the challenges that they faced, and how they were overcome.

The presenters will speak for half of the time, describing the project and issues encountered, and answering a number of questions set by the implementation committee with half their time taking questions. The objective will be to expose how to get the most value out of using HL7 Version 3 today with reference to real examples.

This Tutorial Will Benefit:
• All who have active HL7 Version 3 implementations, or who are thinking of having implementations in the future

Upon Completion of This Tutorial, Students Will Know:
• What other implementers have done to make their projects work, and what they would have done earlier if they knew then what they know now

Prerequisites:
• Interest in implementation

Faculty:

F7  Newly Elected Co-Chair Training – FREE TUTORIAL

Thursday, September 20 / 7:00 am – 7:45 am

This session is for newly elected committee co-chairs. The purpose of the session is to introduce the Co-Chair Handbook, review TSC and balloting procedures, share tips on managing your TC or SIG, provide a framework for common operation among all TC and SIGS, and general Q&A session.

Faculty:
Freida Hall: Secretary, HL7 Board of Directors; Health Information Architecture, Standards Architect, US Department of Veterans Affairs
John Quinn: HL7 Technical Committee Chair; Senior Executive, Accenture
# Tutorials at a Glance

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AM sessions run from 9:00 am – 12:30 pm unless otherwise noted. PM sessions run from 1:45 – 5:00 pm unless otherwise noted.
AM sessions run from 9:00 am – 12:30 pm unless otherwise noted. PM sessions run from 1:45 – 5:00 pm unless otherwise noted.
### Other Meetings

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*Exact time may vary and is dependant upon the final TSC agenda.

**DISCLAIMER:** Meeting times are subject to change.

AM sessions run from 9:00 am – 12:30 pm unless otherwise noted.
PM sessions run from 1:45 – 5:00 pm unless otherwise noted.
Meeting times and locations are subject to change.

NOTE: In compliance with our status as an ANSI-accredited standards development organization, anyone may register to attend HL7 meetings.

**Registration & Tutorial Handout Hours**
- Sunday: 3:00 pm – 6:00 pm  Registration & Tutorial Handouts
- Monday – Thursday: 7:30 am – 5:00 pm  Registration & Tutorial Handouts
- Friday: 8:00 am – 1:00 pm  Staff on Hand for Assistance

**Meals and Breaks**
- Monday 7:30 – 8:30 am  Continental Breakfast
- Tuesday – Thursday 7:00 – 8:00 am  Continental Breakfast
- Friday 8:00 – 9:00 am  Continental Breakfast
- Monday – Friday 10:30 – 11:00 am  Lunch
- Monday – Friday 12:30 – 1:30 pm  Continental Breakfast
- Monday – Friday 3:00 – 3:30 pm  Afternoon Break

**General Session Room**
- Monday 8:30 – 12:30 pm  Plenary Meeting
- Tuesday 8:00 – 8:30 am  Announcements, Affiliates’ Council Report and TSC Meeting Report
- Wednesday 8:00 – 9:00 am  Announcements, Board of Directors Report, Sponsorship, Benefactor and Membership Awards

**Other Meetings**

**AFFILIATES’ COUNCIL MEETING**
- Sunday: 9:00 – 5:00 pm  COMMITTEE MEETING
- Monday: 12:30 – 1:30 pm  Affiliate Chair or Designated Rep Luncheon
- Thursday: 12:30 – 1:30 pm  Committee Meeting

**ARCHITECTURAL REVIEW BOARD (ARB)**
- Wednesday: 12:30 – 1:30 pm  Luncheon/Meeting
- Thursday: 9:00 – 10:30 am  COMMITTEE MEETING

**BOARD OF DIRECTORS’ MEETING**
- Tuesday: 3:30 – 10:00 pm  Meeting and Dinner

**CLINICAL INTEROPERABILITY COUNCIL (CIC)**
- Thursday: 9:00 – 5:00 pm  COMMITTEE MEETING

**EDUCATION COMMITTEE**
- Monday: 1:45 – 5:00 pm  COMMITTEE MEETING – Assign tutorials
- Thursday: 1:45 – 5:00 pm  COMMITTEE MEETING

**ELECTRONIC SERVICES COMMITTEE**
- Wednesday: 1:45 – 5:00 pm  COMMITTEE MEETING

**FACILITATORS’ ROUNDTABLE**
- Sunday: 3:30 – 8:00 pm  Vocabulary Facilitators’ Roundtable
- Thursday: 5:30 – 10:00 pm  MnM Facilitators’ Roundtable

**FIRST-TIME ATTENDEES’ MEETINGS**
- Sunday: 5:00 – 5:45 pm  Orientation Meeting
- Monday: 7:00 – 7:45 am  Orientation Meeting
- Monday: 12:30 – 1:30 pm  Lunch Tables Reserved for Q & A
- Tuesday: 12:30 – 1:30 pm  Lunch Tables Reserved for Q & A

**HL7/CEN/ISO**
- Sunday: 7:30 – 9:30 pm  MEETING

**HL7 NETWORKING RECEPTION**
- Wednesday: 5:15 – 6:15 pm

**IMPLEMENTATION LUNCHEON/MEETING**
- Tuesday: 12:30 – 1:30 pm  Luncheon/Meeting – Attendees MUST sign up at time of registration

**INTERNATIONAL MENTORING COMMITTEE (IMC)**
- Thursday: 1:45 – 5:00 pm  COMMITTEE MEETING

**MARKETING COMMITTEE**
- Monday: 1:45 – 5:00 pm  COMMITTEE MEETING

**NATIONAL LIBRARY OF MEDICINE (NLM)**
- Sunday: 5:00 – 6:00 pm  COMMITTEE MEETING

**‘OPEN SPACE’ MEETINGS**
- Monday – Wednesday: 6:00 – 9:00 pm  Open Meetings – Self-Organized (no AV) – Sign up sheet will be on bulletin board

**ORGANIZATION REVIEW COMMITTEE (ORC)**
- Monday: 12:30 – 1:30 pm  Luncheon/Meeting

**OUTREACH COMMITTEE FOR CLINICAL RESEARCH (OCOCR)**
- Tuesday: 12:30 – 1:30 pm  Luncheon/Meeting

**PROCESS IMPROVEMENT COMMITTEE (PIC)**
- Monday: 1:45 – 3:00 pm  COMMITTEE MEETING
- Tuesday: 1:45 – 3:00 pm  COMMITTEE MEETING

**PROJECT MANAGEMENT OFFICE PRESENTATIONS (PMO)**
- Sunday: 5:00 – 6:00 pm  Project Insight PM Tool/Change Control Process Overview

**PUBLISHING COMMITTEE**
- Wednesday: 9:00 – 12:30 pm  V3 – MEETING
- Wednesday: 3:30 – 5:00 pm  V3 – MEETING
- Thursday: 1:45 – 5:00 pm  V2 – MEETING

**STEERING DIVISIONS**
- Domain Expertise, Structure and Semantic Design, Foundations and Technology, and Support Services
- Monday: 8:30 – 9:30 pm*  Meetings

**TOOLING COMMITTEE**
- Tuesday: 9:00 – 12:30 pm  COMMITTEE MEETING
- Thursday: 9:00 – 10:30 am  COMMITTEE MEETING
- Thursday: 11:00 – 12:30 pm  Hosting: IC

**TSC CO-CHAIR MEETINGS**
- Monday: 5:30 – 8:30 pm*  Dinner/Meeting (Open Meeting, however open for dinner ONLY to TSC Co-Chairs. Co-Chairs MUST register if you wish to attend the dinner meeting.)
- Monday – Wednesday: 12:30 – 1:30 pm  Lunch tables reserved for Co-Chairs
- Thursday: 7:00 – 7:45 am  Newly elected Co-Chair Training

*Exact time may vary and is dependant upon the final TSC agenda.
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<tr>
<th>Technical Committee (TC) and Special Interest Group (SIG) Meetings</th>
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**General Information**

**“EARLY BIRD” RATE DEADLINE**
Advance meeting registration, including payment, is required by August 20, 2007 to receive the discounted rates. Otherwise the full fee structure will apply. Consult the registration form (pages 21-22) for a schedule of meeting fees.

**TO REGISTER**
Please complete the registration form on pages 21-22 and mail it (along with a check payable to Health Level Seven in U.S. funds ONLY) to:

Health Level Seven
3300 Washtenaw Ave., Suite #227
Ann Arbor, MI 48104
USA

If paying by credit card, the registration may be faxed to:
+1 (734) 677-3128.

Online registration is also available via our website (www.HL7.org). For your convenience, you can pay via a credit card directly from the site or print the registration form and mail it along with payment. Advance registrations MUST include payment. No balance dues will be accepted and registrations received without payment will not be processed until the time that payment is received. Registrations received with payment by the Early Bird deadline will receive the Early Bird discount. Registrations where payment is not received by then will require the full registration fee. Advance registrations will be accepted until August 27, 2007. After that time, registrations can only be made on-site. All on-site registrations require payment in full at the time of registration.

**CANCELLATION POLICY**
Prepaid registrants who cancel prior to the Early Bird deadline will receive a full refund minus a $50 processing fee. After that time, no refunds will be made.

**TUTORIAL CANCELLATION**
The tutorial schedule is subject to change. A tutorial may be cancelled if expected registration numbers are not met. If a tutorial is cancelled, pre-registrants will be notified via email. The registrant can select another tutorial at that time, or a full refund of the tutorial fee will be made. However, registration fees will not be refunded.

**DRESS**
The dress code will be casual for all HL7 functions. Layered clothing is advised, as room temperatures vary.

**MEALS**
Continental breakfasts, refreshment breaks, and lunches are included in the meeting registration fee and will be provided for all registered attendees Monday through Friday. Vegetarian and diabetic meals are available upon request. You must register for each day you will attend. The registration form in order to receive lunch tickets.

**AIR TRAVEL**
To make arrangements, attendees can call Conlin Travel at +1 (800) 783-9599 or +1 (734) 677-0900. Be sure to mention Health Level Seven when calling.

**GROUND TRANSPORTATION AND PARKING**
The Sheraton Atlanta Hotel is approximately 12 miles from the Hartsfield Jackson International airport.

Taxi service is available from the airport for approximately $30-$35.

Valet parking is $22 per day with in and out privileges for hotel guests and $17 per day with in and out privileges for self parking.

If you would like to use International Limousine Shuttle Service through the hotel, please call +1 (404) 589-8071 hotel extension #6121. The rates are as follows:

- Sedans $40
- Vans $60
- SUV’s $70
- Super stretch limousines $85
- Mini buses $125

**TRAVELING VIA MARTA (the underground rail system)**
The Sheraton Atlanta Hotel is located at Peachtree Center Station, stop #N1. Once you exit your train, proceed to the escalators on the North end of the train station. (If you travel south, go left; if you travel north go right). Once through the exit gates, go to the long escalator to your right. Follow to the street level. Once on the street level, go left toward the Hard Rock Café. Turn left at the Hard Rock Café, which will be Andrew Young International Boulevard. Walk two blocks and the hotel will be on the right at the intersection of International Boulevard and Courtland Street.

**HOTEL INFORMATION**
HL7’s 21st Plenary & Working Group Meeting will be held at the Sheraton Atlanta Hotel.

Sheraton Atlanta Hotel
165 Courtland Street
Atlanta, GA 30303
Phone: +1 (404) 659-6500
Fax: +1 (404) 681-5306
Website: [www.sheratonatlantahotel.com](http://www.sheratonatlantahotel.com)

To reserve your room, the hotel has set up a special website registration process just for HL7 attendees. HL7 attendees should log on to [http://www.starwoodmeeting.com/book/hl7](http://www.starwoodmeeting.com/book/hl7) and simply follow the reservation instructions. Special requests will be filled based on availability.

Alternatively, you can call the hotel direct at +1 (404) 659-6500 for reservations. Be sure to mention Health Level Seven to receive the discounted room rate of $155 per night single or double occupancy. These rates will be offered three days prior and three days after the meeting dates, subject to availability of rooms at the time of reservation. Remember, space is limited, so reserve your room early. Discounted room rates are available only for reservations made on or before August 27, 2007. Room rates are subject to all applicable state and local taxes in effect at time of check in.

If you need to cancel your room reservation, please do so 72 hours (three days) prior to your arrival date, and obtain a cancellation number. If you cancel within the three days, you will be charged a one night reservation fee.

For those making a reservation under the government rate of $124 per night, please log on to [http://www.starwoodmeeting.com/book/hl7govt](http://www.starwoodmeeting.com/book/hl7govt).

**PLEASE BOOK YOUR ROOM AT THE HL7 MEETING HOTEL**
HL7 urges all meeting attendees to secure their hotel reservations at the HL7 Meeting Host Hotel. The hotel has been contracted to provide the best rate and service to our HL7 meeting attendees, including the vast number of meeting rooms that HL7 uses. In order to secure the required meeting space, HL7 has a contractual obligation to fill its sleeping room block. If you make reservations at a different hotel, HL7 risks falling short on its obligation, which translates to HL7 paying additional costs (penalties) to the hotel. Should this occur, HL7 will likely be forced to pass these costs onto our attendees through increased meeting registration fees. Therefore, to help avoid such fee increases, we urge you to book your hotel room at our host hotel. Thank you!
1. CONTACT INFORMATION

End of day on August 20, 2007 is the deadline for Early Bird fees. Hotel reservations and all advance registrations must be received by end of day on August 27, 2007. After this date, registrations can ONLY be made on-site with payment.

Last Name First Name
Title/Position Organization
Address City State Zip
Country Telephone Fax
Email Nickname for Badge

Are you a member within the last 30 days? Emergency Contact

2. SURVEY & INFORMATION

I am a/an:
- Voting Board Member of HL7, Inc.
- Affiliate Chair
- First-Time WGM Attendee
- HL7 TC/SIG Co-Chair
- Past Board Chair
- Tutorial Speaker
- Plenary Speaker
- Facilitator – Vocabulary
- Facilitator – Publishing
- Facilitator – MnM

I have been personally involved with HL7 as a member for:  
- 0-4 Years
- 5-9 Years
- 10-14 Years
- 15+ Years

☐ I am a member of an HL7 Affiliate, employee of an HL7 organizational member or member of another eligible organization (ADA, ASTM, IEEE, IHE, CDISC, DICOM, EHI, GS1, Medbiqitous, CEN, OMG, NCPDP, SNOMED, Wedi, or X12N) and eligible for the member rate. Please list affiliate or organization: _______________________

☐ I am an approved participant in the student program and eligible to receive
- Discounted fees
- Waived fees (appropriate forms have been completed and sent to HL7).

University attending: ____________________________________________________________________ Student # _____________

Meal Requirements:
- Vegetarian
- Regular
- Diabetic

Please indicate if you plan to attend any of these functions:
- PMO Project Insight Presentation (Sunday) or (Thursday)
- Implementation Luncheon/Meeting (Tuesday)
- Affiliate Chair or Designated Rep Luncheon (Thursday)
- HL7 Board of Directors’ Meeting (Tuesday)
- HL7 Networking Reception (Wednesday Evening)

Deadline for Discounted Rates: Payment must be received by August 20, 2007 to qualify for the “Early Bird” rate. The full fee structure applies to all other registrations where payment is received after this date.

Cancellation/Refund Policy: Prepaid registrants who cancel prior to the Early Bird deadline will receive a full refund less a $50 processing fee. After this date, no refunds will be given for ANY reason.

Payment Policy: Registrations for the meeting on-site can only be paid for in US currency.

3. REGISTRATION AND TUTORIAL FEES:

You must register for either the ALL WEEK OPTION or the DAILY FEE in addition to any tutorials that you attend.

Sunday Meeting Fee: (This fee must be included if you will be attending any of the Sunday meetings. This fee is in addition to the Monday-Friday option fee. This fee does not apply to those attending the First-Time Attendee Orientation or the HL7 Organization and Process Orientation/Introduction.)

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<th>MEMBERS</th>
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Monday – Friday Option:
Please register me for the entire week: (Please note that the Monday-Friday Option does not include the cost of tutorials. Please register separately for any tutorials you would like to attend.)

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Per Day Fees:
Please register me for the following days: (Please note that daily fees do not include the cost of tutorials. Please register separately for any tutorials you would like to attend.)

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☐ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday ☐ Friday _____________ days attending x fee: $_______

Registrations sent by mail or fax will not be processed until payment is received. The “Early Bird” rate will not apply if payment is received after the cutoff date.

Registration Questions: Please call +1 (734) 677-3126 or e-mail reginfo@HL7.org. You will receive confirmation of registration by mail. If you have not received a confirmation of registration within two weeks after registration, please call HL7 Registration at +1 (734) 677-3126. Please bring your confirmation materials to the meeting with you.
**Meeting Registration Form**

**Tutorial Fees:** Please register me for the following tutorials:  
(Please note that you must also register for the days you are taking tutorials.)

**PAYMENT INFORMATION**  
Payment must be included in order to process your registration. Method of Payment (U.S. Dollars, Drawn on U.S. Bank Only)  

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**SUNDAY**

- **Track 4 – Information Forums:** First-Time Attendees’ Orientation – **FREE TUTORIAL**
  - Must sign up to attend this tutorial (Please check the box.)

**MONDAY**

**Morning Sessions**

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<tr>
<th>Track 4 – Information Forums: First-Time Attendees’ Orientation – <strong>FREE TUTORIAL</strong></th>
<th>MEMBERS Before 8/20</th>
<th>MEMBERS After 8/20</th>
<th>NON-MEMBERS Before 8/20</th>
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**Afternoon Sessions**

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<th>Track 2 – HL7 Special Topics: Introduction to Vocabulary (M1)</th>
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<th>Track 2 – HL7 Special Topics: Electronic Health Record (M2)</th>
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**TUESDAY**

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<tr>
<th>Track 1 – Version 2.x: Intro to Version 2, Part 1 (T3)</th>
<th>MEMBERS Before 8/20</th>
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**Evening Sessions**

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**TOTAL AMOUNT DUE** $___________

4. **PAYMENT INFORMATION**  
Payment must be included in order to process your registration. Method of Payment (U.S. Dollars, Drawn on U.S. Bank Only)

- [ ] Visa  
- [ ] Master Card  
- [ ] American Express  
- [ ] Diner’s Club  

Number ____________________________________________________________  
Expiration Date ____________________________________________________  
Name on Card ______________________________________________________  
Signature _________________________________________________________
The following HL7 Technical Committees and Special Interest Groups will conduct co-chair elections at this Working Group Meeting:

- Arden Syntax SIG
  electing two co-chairs
- Clinical Context Object Workgroup TC
  electing two co-chairs
- Clinical Decision Support TC
  electing one co-chair
- Emergency Care SIG
  electing two co-chairs
- Imaging Integration SIG
  electing one co-chair
- Implementation/Conformance TC
  electing one co-chair
- Implementation Technology Specification SIG
  electing one co-chair
- Infrastructure & Messaging TC
  electing two co-chairs
- Laboratory SIG
  electing one co-chair
- Modeling & Methodology TC
  electing one co-chair
- Pharmacy SIG
  electing two co-chairs
- Public Health Emergency Response SIG
  electing one co-chair
- Scheduling & Logistics TC
  electing one co-chair
- Structured Documents TC
  electing two co-chairs

Register Online!
It is quick, easy and convenient...
www.HL7.org

For more information, please contact the HL7 Registration Center at (+1) (734) 677-3126 or e-mail: reginfo@HL7.org

Upcoming Working Group Meetings

San Antonio, TX
January 13–18, 2008
January Working Group Meeting
Hyatt Regency on the Riverwalk

Phoenix, AZ
May 4–9, 2008
May Working Group Meeting
Pointe Hilton at Squaw Peak Resort

Vancouver, BC, Canada
September 14–19, 2008
22nd Annual Plenary & Working Group Meeting
Sheraton Wall Centre Hotel
With seven professional sports teams, more than 200 entertainment and cultural attractions and thousands of restaurants, Atlanta can be best described as exciting, entertaining and enjoyable. Atlanta is much more than a meeting destination. The city has developed into the entertainment and cultural center of the South with more than 17 million visitors arriving each year to experience the abundance of attractions and culture.

**Atlanta is Exciting**

With world-class sporting venues and world-class sporting teams, it’s with good reason that Atlanta has earned the title of “Sports Capital of the World.” Whether you’re seeking the finest in collegiate, amateur or professional athletics, Atlanta can entertain and excite any fan any time of the year. Atlanta is one of a few cities to feature professional sports teams in all four major sports, including the 1995 MLB World Series Champion Atlanta Braves, the NFL Atlanta Falcons, the NHL Atlanta Thrashers, and the NBA Atlanta Hawks.

**Atlanta is Entertaining**

World-class restaurants, festive night life and an abundance of cultural attractions and events help make Atlanta the center for entertainment in the South. Atlanta’s diverse restaurants feature cuisine from around the globe prepared by world-renowned chefs and served in an endless array of ambience and décor. Culture is prominent in Atlanta. The city is home to impressive museums, including the High Museum of Art, SciTrek – the science and technology museum, and the Fernbank Museum of Natural History. Atlanta is also home to many performing arts theaters.

**Atlanta is Enjoyable**

To thoroughly enjoy Atlanta’s present, all one has to do is experience the city’s past. Atlanta’s historical attractions, such as the Atlanta History Center, Atlanta Cyclorama, the Dr. Martin Luther King, Jr., National Historic Site, Georgia’s Stone Mountain Park, and the Margaret Mitchell House & Museum, promise a day filled with education and entertainment. Finally, Atlanta is blessed with a mild climate and with southern hospitality that is plentiful throughout the city.