



Health Level Seven® International

*Unlocking the Power of Health Information*

# 31<sup>st</sup> Annual Plenary & Working Group MEETING

September 9-15, 2017  
Hyatt Regency La Jolla at Avenine  
San Diego, CA

Register Today!

Hotel Reservation Cutoff: August 21, 2017

Early Bird Registration Cutoff: August 18, 2017

Online Registration Cutoff: August 25, 2017



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## Meeting Schedule Key

- Q1 = 9:00 am – 10:30 am
- Q2 = 11:00 am – 12:30 pm
- Q3 = 1:45 pm – 3:00 pm
- Q4 = 3:30 pm – 5:00 pm

# Thank You to Our Sponsors

TUESDAY NIGHT PARTY



WEDNESDAY PM NETWORKING RECEPTION



WEDNESDAY PM NETWORKING RECEPTION



LANYARDS



ROOM KEY



# HL7's 31st Annual Plenary Meeting

Monday, September 11, 2017

Hyatt Regency La Jolla at Aventine, San Diego, CA

## Improving Patient Safety with Interoperability

8:30 – 8:45 a.m.

### Welcoming Comments

Speaker:

*Charles Jaffe, MD, PhD*

CEO, Health Level Seven International

11:00 – 11:30 a.m.

### Keynote Session 4

Speaker:

*Shafiq Rab, MBBS, MPH*

Senior VP and CIO, Rush University Medical Center

8:45 – 9:30 a.m.

### Keynote Session 1

Speaker:

*Speaker TBD*

11:30 – 12:00 p.m.

### Keynote Session 5

The Role of Medical Informatics in Improving Patient Safety

Speaker:

*Clem McDonald, MD*

Director, Lister Hill National Center for Biomedical Communications, National Library of Medicine

9:30 – 10:00 a.m.

### Keynote Session 2

Speaker:

*Edwin Lomotan, MD*

Medical Officer and Chief of Clinical Informatics for the Health IT Division in the Center for Evidence and Practice Improvement, Agency for Healthcare Research and Quality (AHRQ)

12:00 – 12:25 p.m.

### Keynote Session 6

Speaker:

*Matthew Might, PhD*

Director, Hugh Kaul Personalized Medicine Institute, University of Alabama at Birmingham

10:00 – 10:30 a.m.

### Keynote Session 3

Speaker:

*Steve Posnack*

Director of Standards and Technology, Office of the National Coordinator

12:25 – 12:30 p.m.

### Closing Comments

Speaker:

*Pat Van Dyke, RN*

Chair, HL7 International Board of Directors

10:30 – 11:00 a.m.

### Break



# What is a Working Group Meeting?

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HL7 International working group meetings (WGMs) are held three times per year at varying locations. These WGMs serve two important purposes:

- They give the HL7 International work groups a chance to meet face-to-face to work on the standards as well as the opportunity to network with industry leaders from around the world.
- They provide an invaluable educational resource for the healthcare IT community.

## Standards Development

More than 40 HL7 work groups are dedicated to specialized areas of interest such as Mobile Health and Electronic Health Records. These work 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 work group meeting can be a great way to keep up-to-date on what is happening in a particular area, and everyone attending an HL7 working group meeting is invited to attend any of the work group meetings.

Please see pages 21-25 for a complete schedule of meeting times throughout the week.

## Education Tracks

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

### Track 1 – CDA®

HL7's Clinical Document Architecture (CDA®), is a Version 3 standard. The CDA is a document that specifies the structure and semantics of "clinical documents" for the purpose of exchange between healthcare providers and patients. Tutorials in this track provide introductory and advanced education on the CDA as well as the Consolidated (C-CDA) implementation guide and template design, among others. It concludes with classes that address strategies for implementation.

### Track 2 – Special Topics

The Special Topics track offers a variety of electives that may involve multiple standards product families, general topics such as security, vocabulary and conformance or highlight niche standards such as the EHR System Functional Model. It provides introductory classes for implementers on topics that cross standards families such as clinical genomics and industry topics like implementing standards for MACRA and Meaningful Use.

## Educational Sessions

Numerous educational opportunities will be offered at this WGM. Sessions will cover a full range of HL7-specific topics such as Version 2.x Implementation, the Clinical Document Architecture (CDA®), Fast Healthcare Interoperability Standards (FHIR®), among others. Educational sessions also include industry topics such as Electronic Health Records and Vocabulary Terminology. For a full listing of course descriptions, please see pages 8-18.

### Clinicians on FHIR®

Clinicians on FHIR was created by the Patient Care Work Group (PCWG) as an exercise for those familiar with clinical workflows to challenge FHIR resources and build simple FHIR profiles around abbreviated clinical use cases. The primary focus has been on clinical FHIR resources as a means to inform PCWG in the curation and validation of these resources. This is NOT a tutorial or workshop and participants are expected to have knowledge of clinical workflows and to have a fundamental knowledge of the FHIR standard. Orientation materials and a planning agenda are available on the HL7 Patient Care Wiki under Clinicians on FHIR.

### Track 3 – FHIR®

This track provides tutorials and other activities focused on HL7's new Fast Healthcare Interoperability Resources standard. It includes a mixture of tutorials, hands-on development at the Connectathon, and interactive presentations to bring implementers and decision makers up to speed and ready to use the standard in their own environments.

### Track 4 – Information Forums \*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 track are first timers' orientation, introduction to HL7 organization and process, the HL7 development framework, and co-chair training.

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

## TRACK 1—CDA®

## T4 – Consolidated CDA 2.1

Tuesday, September 12 / 9:00 am – 12:30 pm

Every ONC certified EHR must support Consolidated Clinical Document Architecture (C-CDA®). C-CDA is a document standard for communicating patient summaries between providers and patients. It is a foundational component for US Meaningful Use (MU) Stage 3 and Merit-Based Incentive Payment System (MIPS) interoperability. This tutorial provides a detailed background on the specification, explains how C-CDA builds on CDA to provide highly structured patient summaries and discusses implementation challenges and choices. The purpose of this tutorial is to prepare the student to work with C-CDAs in the field to improve healthcare interoperability.

## This Tutorial Will Benefit:

- Software vendor stakeholders building and supporting C-CDA functionality in HIT products
- Payers interested in visit summaries
- Providers implementing and supporting C-CDA based health information exchange and patient engagement interoperability functionality
- Others interested in capitalizing on the widespread availability of C-CDA capabilities in electronic health records
- Stakeholders interested in structured document standards development

## Upon Completion of This Tutorial, Students Will Be Able To:

- Effectively navigate the specification
- Identify and explain the key document types and sections
- List the latest enhancements to the standard and supporting documentation and tools.
- Use CDA templates to streamline implementation
- Locate C-CDA validation tools



Tutorials at HL7 working group meetings are an additional fee to the daily meeting registration fees. Please note that tutorials listed as free still require payment of the daily meeting fee.

*To register for tutorials, please select each tutorial you would like to take on page 29 of the registration form.*

## Prerequisite:

- Introduction to CDA

## Faculty:

**Brett Marquard:** Co-Chair, HL7 Structured Documents Work Group; Principal, River Rock Associates

## W10 – Introduction to Clinical Document Architecture

Wednesday, September 13 / 9:00 am – 12:30 pm

The Clinical Document Architecture (CDA®) 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.

## This Tutorial Will Benefit:

- New implementers, standards developers and policy makers

## Upon Completion of This Tutorial, Students Will Be Able To:

- Explain the history, and core principles of CDA design



## HL7 MEETINGS ARE GREEN: Bring your laptop to your tutorials!

To reduce HL7's carbon footprint, its meetings are largely paperless. HL7 no longer provides printed tutorial materials on-site. All materials will be distributed electronically to tutorial participants to either print out themselves or load to their laptops. It is important that you bring your laptop to this meeting for all tutorials. Free WiFi internet access will also be provided. Please note that the materials may be in a zip format. In the event that a tablet is the only accessible device, students should download the appropriate app prior to the course to insure their tablet can open zip files.

## Tutorials

- Explain the core structures of CDA and where they are appropriately used
- Interpret the CDA standard and existing CDA implementation guides

### Prerequisites:

- Introduction to Version 3 (Part 1) recommended

### Faculty:

*Calvin E. Beebe, FHL7:* Chair-Elect, HL7 Board of Directors; Co-Chair, Structure & Semantic Design Steering Division—HL7 Technical Steering Committee; Co-Chair, HL7 Structured Documents Work Group, Co-Editor, CDA; Technical Specialist, Mayo Clinic - Rochester, MN

## W13 – CDA Template Design in Theory and Practice

Wednesday, September 13 / 1:45 pm –5:00 pm

In order to address requirements for healthcare data exchange, HL7's Clinical Document Architecture (CDA®) is used. To constrain the general CDA model to specific use cases, CDA template specifications as part of implementation guides are created, published and maintained.

In this tutorial, the creation of CDA templates is shown, highlighting best practice and design principles. CDA templates on document, section and entry level are crafted. It will also cover the use of repositories like the C-CDA library for easy template re-use will also be covered.

### This Tutorial Will Benefit:

- Anyone who works with CDA including modelers, specification designers, analysts and implementers

### Upon Completion of This Tutorial, Students Will Be Able To:

- Analyze use cases for CDA document design and derive CDA components
- Recognize CDA templates, design and types
- Apply HL7's templates STU as the base for CDA templates
- Explain value sets and how they are related to templates

- Apply best practices and strategy for design and maintenance of CDA templates, perform CDA templates creation and refinement
- Use repositories like the C-CDA
- Complete hands-on exercises

### Prerequisites:

- Basic XML skills and general knowledge of CDA

### Faculty:

*Kai U. Heitmann, MD, FHL7:* Heitmann Consulting and Services; Gefyra GmbH; ART-DECOR Open Tools; Co-Chair, HL7 Templates Work Group; Advisory Board, HL7 Foundation; CEO, HL7 Germany

*Rick Geimer:* Member, HL7 Structured Documents Work Group; Chief Technology Officer, Lantana Consulting Group

## TRACK 2—HL7 SPECIAL TOPICS

### M1 – Standards for Interoperability

Monday, September 11 / 1:45 pm – 5:00 pm

This tutorial provides a survey of the healthcare interoperability standards landscape, pointing out the main features of the terrain and how they link together to perform useful functions. It consists of three main sections covering (1) messaging standards such as HL7 Version 2 and Version 3, (2) clinical document standards such as CDA, Continuity of Care Document (CCD®), Continuity of Care Record (CCR) and IHE XDS, and (3) terminology standards, such as SNOMED CT and LOINC. It explains how and why these were developed and their complementary roles, each best suited to particular tasks.

In the time available, the treatment of each standard is necessarily brief, but this tutorial will provide an introduction to other more detailed tutorials.

### This Tutorial Will Benefit:

- Relative newcomers to health interoperability who are still unsure about how everything fits together

### Upon Completion of This Tutorial, Students Will Be Able To:

- Explain how the main healthcare interoperability standards relate to each other and choose which is most suited for particular roles

**Faculty:**

*Diego Kaminker, FHL7:* Co-Chair, HL7 Education Work Group; Co-Author and Coordinator, HL7 Fundamentals Course, Argentina; Chief Developer and Manager, Kern-IT SRL

## T5 – How to Implement HL7 Standards for Real World Success

Tuesday, September 12 / 9:00 am – 12:30 pm

Take a deep dive into HL7 standards to learn about the in-and-outs of requirements specification, conformance, profiling, testing, and how to apply these mechanisms effectively to achieve interoperable implementations. The principles of conformance are explored on a conceptual level and in detail for each of the HL7 standard product families (including HL7 Version 2.x, CDA, and FHIR).

Base standards provide a framework for specification, and implementation specifications are formed through the process of profiling those standards. Insights for effective profiling are given along with an overview of the profiling strategies and tools that are available to aid implementers. The concepts and application of conformance and interoperability testing are presented, including the purpose and goals, test plan overview and development, testing models and architecture, and testing tools that help implementers confirm conformance of their products. Students will gain an understanding of common terms, such as interoperability, conformance, compliance, compatibility and profiling. They will be prepared to design and implement their own complex interoperable healthcare information technologies.

**This Tutorial Will Benefit:**

- Implementers, developers, analysts, and testers seeking an in-depth understanding and interpretation of HL7 standards and implementation guides
- Providers implementing ONC 2015 Edition certified HIT modules to satisfy MU Stage 3 or MACRA/MIPs regulations in the US domain
- Vendors working on development and certification of ONC 2015 Edition certified HIT modules
- Other stakeholders who would benefit from understanding the conformance mechanisms used to specify requirements in and across the family of HL7 standards

**Upon Completion of This Tutorial, Students Will Be Able To:**

- Explain the key conformance concepts and apply them to interoperability standards
- Recognize and compare standards across the family of HL7 standards product lines
- Analyze and leverage tools and utilities to aid in development of implementations
- Initiate testing programs locally to improve implementations

**Prerequisites:**

- Basic understanding of at least one HL7 standard

**Faculty:**

*Rob Snelick:* Co-Chair, HL7 Conformance Work Group; Manager and Software Architect, National Institute of Standards and Technology (NIST)

## T7 – HL7 Hot Topics – Healthcare Challenges, Technological Advances and HL7's Response

Tuesday, September 12 / 1:45 pm – 5:00 pm

Discover how the HL7 community is capitalizing on current and future technology to solve the serious problems of healthcare of today and tomorrow. This tutorial spotlights 10 trending topics in technology or healthcare and discusses how HL7 is involved. This session will feature the following topics:

1. Kidney disease
2. Value-based care
3. App stores
4. Medication errors
5. Block chain
6. Diabetes
7. Emergencies
8. Translational medicine
9. International care transitions
10. Machine learning

**This Tutorial Will Benefit:**

- Newcomers to HL7
- Current and new attendees interested in a breadth view of the standards with respect to current events



## Upon Completion of This Tutorial, Students Will Be Able To:

- Describe several hot topics in health and technology
- Summarize and evaluate how HL7 is connected to each topic
- Consider engaging in specific HL7 initiatives
- Consider implementing solutions for technologies or problems using HL7
- Explore other ideas of how HL7 can help solve the problems of healthcare

### Faculty:

*Virginia Lorenzi, FHL7:* Co-Chair, HL7 Education Work Group; Manager-HIT Standards and Collaborations; New York-Presbyterian Hospital

*Note:* Several guest experts will be joining to present

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## W14 – Implementing HL7 Standards Based Interoperability in Preparation for MACRA/MIPS and MU Stage 3

Wednesday, September 13 / 1:45 pm – 5:00 pm

Meaningful Use (MU) Stage 3 of the EHR Incentive Program and the Merit-Based Incentive Program System (MIPS) of MACRA require implementing ONC 2015 certified health IT and using it to achieve interoperability goals including:

- Engaging patients by providing them access to their information using portals and APIs
- Exchanging data between providers
- Communicating with public health authorities and registries
- Electronically submitting quality measure data

All of these functions utilize HL7 standards. The regulations require or encourage providers to meet high thresholds on interoperability objectives using numerous HL7 standards including the Consolidated CDA (C-CDA) for patient and provider communication, API access (likely using FHIR), Quality Reporting Document Architecture (QRDA) for e-submission of quality measures, and Version 2-based implementation guides for public health. This tutorial will explain the use of HL7 standards to achieve each interoperability goal of the regulations.

## This Tutorial Will Benefit:

- Providers implementing ONC 2015 certified technology to satisfy MU Stage 3 or MACRA/MIPS regulations in the US domain
- Vendors working on development and certification of ONC 2015 certified technology
- Other stakeholders that could benefit in utilizing interoperability features of ONC 2015 certified technologies and the HL7 standards they employ

## Upon Completion of This Tutorial, Students Will Be Able To:

- Identify HL7 standards used to meet healthcare interoperability regulatory goals in the US domain
- Discuss implementation—considerations in utilizing HL7 standards to meet the MU and MIPS objectives from the vendor and the provider viewpoint

### Faculty:

*Virginia Lorenzi, FHL7:* Co-Chair, HL7 Education Work Group; Manager-HIT Standards and Collaborations; New York-Presbyterian Hospital

*Hans Buitendijk, FHL7:* Secretary, HL7 Board of Directors; Co-Chair, HL7 Clinical Statement Work Group; Co-Chair, HL7 Orders and Observations Work Group; Senior Strategist, Standards & Regulations, Cerner Corporation

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## TH16 – 2015 US Law MACRA: Role of Standards in QPP and MU3

Thursday, September 14 / 9:00 am – 12:30 pm

The US healthcare system is going through a seismic change that began with HITECH Act under the ARRA-American Recovery and Reinvestment Act of 2009 and the Meaningful Use (MU) mandate, which required certified Electronic Health Record (EHR) adoption by providers and hospitals.

The Medicare Access and CHIP Reauthorization Act of 2015 (MACRA) finalizes policies to improve physician and other clinician payments by changing the way Medicare incorporates quality measurement into payments and by developing new policies to address and incentivize participation in Alternative Payment Models (APMs) – transitioning from “volume” based FFS (fee for service) payments to “value” based P4P (pay-for-performance) payment model. These unified



policies are referred to as the Quality Payment Program (QPP). [<https://qpp.cms.gov>]

MACRA, effective Jan 1, 2017, advances a forward-looking, coordinated framework for healthcare providers to successfully take part in the CMS Quality Payment Program that rewards value and outcomes through either Advanced Alternate Payment Models (A-APMs) and Merit-based Incentive Payment System (MIPS).

MIPS makes payment adjustments based on performance on quality, cost and other measures. Advanced APMs supports the goals of transitioning from fee-for-service (FFS) payments to payments for quality and value based payment.

MACRA mandates the use of 2015 Certified EHRs by eligible clinicians. Many HL7 standards are identified in this program such as HL7 Version 2.x, the Consolidated Clinical Document Architecture (C-CDA), the Quality Reporting Document Architecture (QRDA), the Health Quality Measure Format (HQMF) and Infobutton, among others.

#### This Tutorial Will Benefit:

- US based providers and hospitals eligible to receive financial payments under MACRA legislation
- Consultants and companies who are providing MACRA-QPP technical assistance
- EHR vendors striving to certify their EHR under the ONC 2015 EHR Certification Program
- Countries considering the introduction of value based payments model in conjunction with EHR adoption/usage

#### Upon Completion of This Tutorial, Students Will Be Able To:

- Explain what QPP is, who defined it, what it means and how it is relevant to HL7
- Analyze which HL7 standards are mentioned in the QPP regulation
- Describe the details of QPP and its two categories
  - Advanced APM (Alternate Payment Models)
  - MIPS (Merit-based Incentive Payment System)
- Explain what Meaningful Use is, who defined it, and what it means
- Describe the details of Meaningful Use Stage 3 objectives and measures

#### Faculty:

*Gora Datta:* HL7 International Ambassador; Co-Chair HL7 Mobile Health Work Group, Group Chairman & CEO, CAL2CAL Corporation

### TH17 – On-the-Fly Data Capture Tooling for FHIR/HL7 V2

Thursday, September 14 / 9:00 am – 12:30 pm

This session is an overview on using FHIR and Version 2 (V2) based open source JavaScript-based tools that are tied to 22 associated standards-based coding systems enlivened by auto-completed capabilities to enable fast and easy form creation and the capture of interoperable clinical/administrative data. This session will explain how to use these tools and the data they can capture into the attendees' own IT systems. These tools were developed by the NLM's Lister Hill National Center for Biomedical Communications (LHNCBC): <https://lhc-forms.lhc.nlm.nih.gov/>.

#### This Tutorial Will Benefit:

- Anyone who uses FHIR Questionnaire and Structured Data Capture (SDC)
- Anyone who uses V2, LOINC, UCUM
- Anyone who uses Meaningful Use, coding systems, or genomic coding systems/vocabulary

#### Upon Completion of This Tutorial, Students Will Be Able To:

- Describe the breadth of LHC form capabilities, including skip logic, nesting and repeat, as well as autocomplete linking to external code tables
- Use autocomplete look up services to access 22 (so far) common clinical, administrative, and genomic coding systems or institution-specific local master files
- Use a UCUM validator and checker, which is the HL7 standard unit of measure
- Use LHC-forms to create input forms, and capture and store data through these forms, which can be represented as a FHIR questionnaire
- Deliver data captured by these forms as FHIR or V2 messages, or local JSON files
- Delivery captured FHIR or V2 data using these forms
- Delivery captured content through SMART on FHIR or direct links to FHIR resources
- Explain the basics of FHIR Questionnaire and SDC and V2 Clinical Genomics

### Faculty:

*Clem McDonald, MD:* Director, Lister Hill National Center for Biomedical Communications, NLM

*Paul Lynch, MS:* Project Manager, NLM

*Ye Wang, MS:* Senior Systems Developer, NLM

### TRACK 3—FHIR®

## FHIR Connectathon

Saturday, September 9 / 9:00 am – 5:00 pm

Sunday, September 10 / 9:00 am – 12:30 pm

This connectathon runs all day Saturday and Sunday morning. Registrants should plan to attend the entire event; no partial registrations will be accepted.

A Fast Healthcare Interoperability Resources (FHIR®) Connectathon is an opportunity for implementers to participate in developing FHIR solutions and exchange data with other FHIR interfaces. The connectathon is not a formal tutorial. There will be no lectures or presentations. Instead, you'll participate in 1.5 days of hands-on, heads down development and testing, working directly with other FHIR developers as well as senior members of the FHIR standards development team. The connectathon is a chance to get your hands dirty and learn by doing as well as to help evolve the FHIR specification.

Participation in the connectathon will be as part of one of several tracks. Participants will be asked to confirm which track they wish to follow a few days in advance of the connectathon (based on their level of readiness as well as area of interest). Details on the scenarios for both tracks as well as information on pre-connectathon discussion forums can be found on the connectathon website here: [http://wiki.hl7.org/index.php?title=FHIR\\_Connectathon\\_16](http://wiki.hl7.org/index.php?title=FHIR_Connectathon_16).

By registering for the connectathon, participants authorize HL7 International to share contact information (name, email and organization name) with the FHIR Management Group for the purposes of coordinating connectathon activity. Registrants will be contacted prior to the event regarding intended scenarios, platforms and other information.

There is a cost difference for participants versus observers. The reason for this is two-fold. First, attendees are likely to receive more benefit by actually participating in FHIR development than by merely watching. Second, HL7 offers a discount to participants due to the beneficial impact of their work on the development of the FHIR specification.

**NOTE:** If registering as a participant, you will be expected to write at least some software intended to demonstrate FHIR connectivity.

## M2 – Introduction to HL7 FHIR

Monday, September 11 / 1:45 pm – 5:00 pm

FHIR® (Fast Healthcare Interoperability Resources) is the newest healthcare interoperability standard offered by HL7, providing domain friendly wire formats compatible across the document, messaging, services and RESTful paradigms. This tutorial is for those who want to learn more about FHIR, what it can do and how their organization might best take advantage of it.

### This Tutorial Will Benefit:

- Analysts, vendors, and project managers

### Upon Completion of This Tutorial, Students Will Be Able To:

- Explain the main principles underlying the FHIR methodology
- Describe the characteristics of a FHIR resource and understand the contents of a resource definition
- Explain the relationship between FHIR and other HL7 standards such as Version 2, Version 3 messaging and CDA
- List some of the key FHIR infrastructure resources and explain how they are used to support the four FHIR interoperability paradigms
- Help their organization to determine if, when, where and how they might implement FHIR

### Faculty:

*Rik Smithies:* Co-Chair, HL7 Clinical Statement Work Group; Technical Chair, HL7 UK; Independent Consultant, NProgram Ltd.

## M3 – HAPI on FHIR

Monday, September 11 / 1:45 pm – 5:00 pm

This tutorial will cover HAPI FHIR (<http://hapifhir.io/>), the reference implementation of HL7 FHIR for Java developers. Topics covered will include working with the FHIR data model, client and server development, validation, and other related topics.

This tutorial includes both instruction, as well as a hands-on component where participants will create a working application on their own laptop.

### This Tutorial Will Benefit:

- Java developers looking to get started or improve their skills developing FHIR based solutions

### Upon Completion of this Tutorial, Students Will:

- Know the various components of the HAPI FHIR library and explain their uses within an application
- Use the HAPI FHIR library to create a working client application, and a working server application on their own laptop

### Prerequisites:

- A working knowledge of Java is recommended, but advanced knowledge is not required. Participants are recommended to bring a laptop with a Java IDE installed (Eclipse, IntelliJ, or NetBeans recommended)

### Faculty:

*James Agnew:* Co-Chair, HL7 Application Implementation and Design (AID); Lead Architect & Developer Wrangler, Centre for Global eHealth Innovation (UHN)

## T6 – FHIR for Architects

Tuesday, September 12 / 9:00 am – 12:30 pm

FHIR is attracting a great deal of attention as the next “great thing” in healthcare interoperability. This tutorial will help participants understand where and how FHIR might fit into their healthcare interoperability environment and provide them with the tools they need to make judgments about when or if FHIR might be an appropriate solution for their healthcare IT needs.

### This Tutorial Will Benefit:

- Architects, technical managers and other healthcare IT decision-makers involved in solution design

### Upon Completion of this Tutorial, Students Will be Able To:

- Explain how FHIR may be used in different interoperability paradigms
- Describe how FHIR can fit in different locations in the architectural stack
- Identify architectural considerations that apply to FHIR and determine how best to address those in their own FHIR solutions
- Explain where and how profiles fit into an architectural solution
- Give guidance on if, when and how FHIR might be used within their own organization

### Prerequisites:

- Introduction to FHIR or basic familiarity with the FHIR standard and concepts
- Some knowledge of healthcare IT architecture could also be useful

### Faculty:

*Lloyd McKenzie, PEng:* Co-Chair, HL7 FHIR Infrastructure Work Group; Member, HL7 FHIR Management Group; Co-Chair, HL7 Modeling and Methodology Work Group; Modeling and Methodology Facilitator-at-Large; Principal Consultant, LM&A Consulting Ltd.; Senior Consultant, Information Technology Services, Gevity Consulting Inc.

## T8 – Driving Health Information Exchange Using XDS with CDA and FHIR

Tuesday, September 12 / 1:45 pm – 5:00 pm

This is a practical session on how to use IHE XDS and HL7 Fast Healthcare Interoperability Resources (FHIR®) using CDA documents as the payload and freely available open source toolkits to assist implementers. Why reinvent the wheel?

### This Tutorial Will Benefit:

- Managers, architects and implementers of health exchange projects who wish to learn more about standards based health exchange

## Upon Completion of This Tutorial, Students Will Know:

- Key IHE profiles that should be considered to support document exchange
- HL7 FHIR profiles also supporting document exchange
- Where to find open source tools supporting XDS and CDA in several programming languages
- The HL7 standards that these profiles use, and where to find more details about them

## Prerequisites:

- Students should have a basic understanding of healthcare workflows

## Faculty:

*Keith Boone:* Director, HL7 Board of Directors; Interoperability Guru, GE Healthcare IT

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## T9 – FHIR for Specifiers

Tuesday, September 12 / 1:45 pm – 5:00 pm

FHIR provides a set of building blocks from which interoperability solutions can be created. Profiles combine those blocks into solutions, serving a similar purpose to implementation guides, templates, archetypes and detailed clinical models associated with other HL7 standards.

This tutorial will demonstrate how to use profiles to shape the FHIR core specification for use in a specific national, regional or organizational context.

## This Tutorial Will Benefit:

- Data modelers, standards developers and HL7 Version 3 template authors who want to start using FHIR

## Upon Completion of This Tutorial, Students Will Be Able To:

- Explain what the FHIR conformance layer is and how it is used to profile FHIR for a specific context or use case
- Describe the principal profiling components of the FHIR conformance layer
- Describe the available FHIR conformance resources (structure definition, operation definition, search parameter, value set, concept map)
- Identify how domain information requirements translate to conformance resources

- Explain the role conformance resources are used to compose an implementation guide
- Write a FHIR value set and structure definition for a single resource
- Explain where and how to register and find existing conformance resources

## Prerequisites:

- Introduction to HL7 FHIR

## Faculty:

*Michel Rutten:* Technical Specialist, Furore; Lead Developer of Forge FHIR Profile Editor

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## W11 – Introduction to FHIR Development

Wednesday, September 13 / 9:00 am – 12:30 pm

This tutorial takes an in-depth look into the infrastructure sections of the FHIR specification. It will provide insight on how to design, develop and test software that uses the FHIR interoperability standard—all the way from the wire-format up to validation and storage.

## This Tutorial Will Benefit:

- Software developers, team leads, and infrastructure architects

## Upon Completion of This Tutorial, Students Will Be Able To:

- List the four of interoperability paradigms supported by FHIR
- Describe the FHIR REST service operations and how to implement them
- Explain how the XML and JSON wire formats are used in FHIR
- Explain versioning and bundles
- Compare strategies for using object models, validation and (de)serialization
- Use relational or document-oriented storage for persistence of resources
- Implement search functionality

## Prerequisites:

- An Introduction to HL7 FHIR



**Faculty:**

*Jean Duteau:* Member, HL7 Technical Services Committee; Co-Chair, HL7 Modeling and Methodology Work Group; Co-Chair, HL7 Pharmacy Work Group; HL7 Modeling and Methodology Facilitator, Patient Care; HL7 Publishing Facilitator, Public Health and Emergency Response Work Group; Director, Duteau Design, Inc.

Fundamentals course or introductory courses on the FHIR Track at HL7 working group meetings to provide context for this class and to better prepare for the exam

**Faculty:**

*Virginia Lorenzi, FHL7:* Co-Chair, HL7 Education Work Group; Manager-HIT Standards and Collaborations; New York-Presbyterian Hospital

## W12 – HL7 FHIR STU3 Proficiency Exam Preparation

Wednesday, September 13 / 9:00 am – 12:30 pm

HL7 FHIR is the latest standard for exchanging healthcare information electronically based on current and emerging industry approaches and informed by HL7's long-term experience in the field of interoperability standards development. The HL7 FHIR STU3 Proficiency Exam allows test takers to demonstrate their understanding of the fundamental concepts of FHIR and their proficiency with the FHIR standard specification. This tutorial is designed to assist students in their preparation for the HL7 FHIR STU3 Proficiency Exam.

**Note:** Students preparing for the exam are expected to study the HL7 FHIR STU3 Specification as recommended in the FHIR Proficiency Exam Study Guide.

**This Tutorial Will Benefit:**

- Anyone preparing for the HL7 FHIR STU3 Proficiency Exam
- Implementers seeking a detailed review of the fundamental components in the FHIR specification

### Upon Completion of This Tutorial, Students Will Be Able To:

- Explain the structure of the FHIR specification
- Name, explain, and discuss basic principles and central components of the FHIR specification
- Understand the format and coverage of the test
- Practice answering test questions
- Identify areas for further study

**Prerequisites:**

- While there are no mandatory prerequisite classes, students preparing for the test are advised to take introductory FHIR courses such as the FHIR

## W15 – Understanding and Using Terminology in HL7 FHIR

Wednesday, September 13 / 1:45 pm – 5:00 pm

Terminology is a required foundational component for interoperable data exchange in FHIR and other clinical data standards. This tutorial takes an in-depth look at the use of standard terminologies within FHIR artifacts (datatypes, resources, profiles, etc.). The structures and use of the primary FHIR terminology resources, operations and coded data types are covered, including how these terminology artifacts and capabilities are used in support of coded elements in other FHIR resources and profiles. The tutorial will also discuss how terminology content and capabilities are made accessible and useable within a FHIR terminology service. Live examples from FHIR terminology servers will be used where possible to examine and illustrate the concepts.

**This Tutorial Will Benefit:**

- Standards developers, implementers, terminologists, data modelers and architects

### Upon Completion of This Tutorial, Students Will Be Able To:

- Describe how code systems, value sets and related vocabulary artifacts and principles are applied within the FHIR terminology resources and datatypes
- Explain how the FHIR terminology resources and datatypes support the needs for coded data in other FHIR resources and profiles
- Use the primary FHIR terminology resources, data types and operations for creating specifications and implementing solutions that interoperably represent and exchange coded data
- Describe the typical capabilities and usage scenarios of a FHIR terminology service

## Prerequisites:

- Introduction to HL7 FHIR (or equivalent familiarity with the FHIR standard and concepts)
- Introduction to Vocabulary in HL7
- Basic familiarity with one or more standard healthcare terminologies or classifications (e.g., SNOMED CT, LOINC, ICD-10) and terminology artifacts (e.g., code system, value set, mapping)
- FHIR for Specifiers (optional, but may be helpful)

## Faculty:

*Rob Hausam, MD:* Co-Chair, HL7 Orders and Observations Work Group; Co-Chair, HL7 Vocabulary Work Group; Vocabulary Facilitator for the HL7 Orders and Observations and Structured Documents Work Groups; Principal, Hausam Consulting LLC

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## TH18 – C-CDA on FHIR

Thursday, September 14 / 9:00 am – 12:30 pm

C-CDA on FHIR is an HL7 implementation guide that expresses the core C-CDA use case using FHIR resources. This tutorial will give an overview of FHIR documents in general, the C-CDA on FHIR profiles in particular, and discuss migration strategies when moving from CDA to FHIR and vice-versa.

## This Tutorial Will Benefit:

- CDA implementers wishing to move to FHIR, and FHIR implementers wishing to learn about FHIR documents

## Upon Completion of This Tutorial, Students Will Be Able To:

- Explain the structure of FHIR documents
- Find and explain the C-CDA on FHIR profiles
- Strategize ways to move content between CDA and FHIR formats

## Prerequisites:

- Introduction to HL7 FHIR or equivalent experience (i.e., Connectathon participation, etc.)
- A basic knowledge of CDA is nice to have

## Faculty:

*Rick Geimer:* Member, HL7 Structured Documents Work Group; Chief Technology Officer, Lantana Consulting Group

## S1/TH19 – HL7 FHIR STU3 Proficiency Exam Pilot

Sunday, September 10 / 2:00 pm – 4:00 pm

Thursday, September 14 / 2:00 pm – 4:00 pm

Health Level Seven International is pleased to offer the pilot of the HL7 FHIR STU3 Proficiency Exam. This pilot allows exam takers to demonstrate their knowledge and understanding of the FHIR specification. The exam is closed book, multiple choice, multi-select, and true/false and based on the STU3 specification. While field experience would be helpful to exam takers, it is not required. This is a basic proficiency test, not a professional credentialing program. Those who pass the exam will receive the FHIR Proficiency Certificate, a Certificate of Knowledge.

Potential exam candidates include interface analysts, healthcare systems analysts, medical software developers, and clinical informaticists. The knowledge required to pass the exam can be obtained by careful study of the HL7 FHIR STU specification which is freely available at [www.hl7.org/fhir](http://www.hl7.org/fhir). Completion of FHIR education programs is recommended. HL7 offers a variety of FHIR education training modalities, including the in-person FHIR track at this meeting and other HL7 working group meetings, the online 4-10 week Fundamentals programs as well as the FHIR Institute webinar series. Participation in FHIR efforts on an HL7 work group or field experience will also be helpful.

**Note:** Simply taking the courses offered at this meeting will most likely not be sufficient to pass the exam. We strongly recommend a combination of the aforementioned to fully prepare yourself for the exam. You will need your laptop for the exam. You will obtain your results immediately upon completion of the exam and a certificate will be emailed to you instantly. Internet Explorer is the recommended browser to take the exam.

## TH20 – Precision Medicine via FHIR: From Design from Deployment

Thursday, September 14 / 1:45 pm – 5:00 pm

FHIR enables a new class of clinical genomic apps for precision medicine. This tutorial will introduce FHIR genomics and take attendees through the creation and deployment of a clinical genomic app.

### This Tutorial Will Benefit:

- IT professionals, developers, EMR vendors and clinicians

### Upon Completion of This Tutorial, Students Will Be Able To:

- List use cases for clinical genomic apps
- Describe how FHIR genomics enables clinical genomics
- Use FHIR to create a simple clinical genomic app
- Deploy a simple FHIR clinical genomic app

### Prerequisites:

- There are no prerequisites for this tutorial; relevant FHIR terminology will be introduced

### Faculty:

*Gil Alterovitz, PhD:* Co-Chair, HL7 Clinical Genomics Work Group; Assistant Professor, Harvard Medical School; Core Faculty Computational Health Informatics Program, Boston Children's Hospital

### Faculty:

*Calvin E. Beebe, FHL7:* Chair-Elect, HL7 International Board of Directors; Co-Chair, Structure & Semantic Design Steering Division—HL7 Technical Steering Committee; Co-Chair, HL7 Structured Documents Work Group, Co-Editor, CDA; Technical Specialist, Mayo Clinic - Rochester, MN

## F2 – ISO IDMP, Substances and Allergies – FREE TUTORIAL

Sunday, September 10 / 3:30 pm – 5:00 pm

The ISO IDMP (Identification of Medicinal Products) standards have been revised, completed, and are now entering into their implementation phases (especially in Europe and in synchronisation with the US).

IDMP includes a strong focus on substances of all kinds. Substances and their unique identification are essential to IDMP. Substances are captured with a wide number of attributes including allergies.

Some HL7 work groups have allergies on their agenda, and this tutorial is built to demonstrate with the publicly accessible G-SRS database what Patient Care was addressing at its Madrid meeting.

### This Tutorial Will Benefit:

- HL7 experts who are interested in learning about IDMP and have a focus on substances as well as those interested in secondary use of IDMP data

### Upon Completion of This Tutorial, Student Will Have Obtained:

- An understanding on ISO IDMP standards and how medicinal product information is structured for regulatory and clinical benefits
- How to access the information and how to leverage this wealth of knowledge for secondary use

### Faculty:

*Christian Hay:* GS1 Switzerland; Delegate Healthcare, Convenor ISO TC 215 WG 6

*Panagiotis Telonis:* Scientific Administrator, EMA

## TRACK 4—INFORMATION FORUMS

### F1/F4 – HL7 First-Time Attendees' Orientation – FREE TUTORIAL

Sunday, September 10 / 3:00 pm – 4:00 pm

Monday, September 11 / 7:00 am – 8:00 am

This is a special orientation session for first-time attendees. It will give those new to HL7 the lay of the land and help ensure 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. It will be offered twice during the meeting—once on Sunday evening and again on Monday morning.

### F3 – Understanding the HL7 International Organization – From Process to Governance – FREE TUTORIAL

Sunday, September 10 / 4:00 pm – 5:00 pm

This session will provide an overview of HL7 International from the governance structure to the work groups.

#### This Tutorial Will Benefit:

- First-time attendees and anyone interested in learning more about the processes and organization of HL7 International

#### Upon Completion of this Tutorial, Students Will Be Able To:

- Explain how HL7 International is structured
- List the types of products that HL7 International produces
- Discuss the subject domains that HL7 standards cover
- Describe the working group meeting format
- Explain how HL7 International ballots

#### Faculty:

*Calvin E. Beebe, FHL7:* Chair-Elect, HL7 International Board of Directors; Co-Chair, Structure & Semantic Design Steering Division—HL7 Technical Steering Committee; Co-Chair, HL7 Structured Documents Work Group, Co-Editor, CDA; Technical Specialist, Mayo Clinic - Rochester, MN

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### F5 – Glossary Management-Defining and Managing the Terms Used by Healthcare SDOs – FREE TUTORIAL

Tuesday, September 12 / 7:00 am – 8:00 am

This is an overview of the international health standards knowledge management tool (SKMT) to introduce attendees to the resource (find standards, find terms and definitions) and how it can make standards development, use and health informatics documentation in general easier and more consistent.

This tutorial also demonstrates how to retrieve, enter and update information in the SKMT, and introduces the process for harmonization across SDOs internationally and how HL7 engages with this process.

#### This Tutorial Will Benefit:

- Standards developers
- Those who use and work with the terms, concepts used by healthcare standards
- Those who wish to know about projects and publications of other SDOs to improve harmonization and reduce duplication of effort

#### Upon Completion of This Tutorial, Students Will Be Able To:

- Explain the purpose and utility of the SKMT
- Know how to find and register for access to the SKMT
- Explain the process for maintenance of the content for HL7 in the tool including SDO harmonization trials
- Apply the guidelines for development of quality definitions

#### Faculty:

*Heather Grain, AssocDip MRA, GDip IS, MHI, MACS, FACHI, Cert IV Training and Education:* Co-Chair, HL7 Vocabulary Work Group; SKMT Governance Committee, ISO Representative and Administrator of SKMT

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### F6 – GS1 Standards for Supply Chain Meets HL7 – FREE TUTORIAL

Wednesday, September 13 / 7:00 am – 8:00 am

This session will provide insight on what GS1 provides in the open supply chain to secure item traceability, and how traceability should be extended in provider's internal supply chain. The tutorial will be based on a document which provides extensive information about traceability, by including "order to cash," master database (shared catalogues), stock management, including for consignment products, etc.

The session will strongly focus on EPC IS (electronic product code information service), which is one of the GS1 standards and how it enables event tracking. It will also include a brief introduction to the UNSPSC (United Nations Standard Products and Services Code), a classification system increasingly used in the healthcare industry.

#### Documentation

- The reference documentation should be downloaded prior the tutorial from: [http://www.gs1.ch/docs/default-source/gs1-system-document/healthcare/scm\\_in\\_ch\\_gesundheitswesen\\_1-3\\_en.pdf?sfvrsn=4](http://www.gs1.ch/docs/default-source/gs1-system-document/healthcare/scm_in_ch_gesundheitswesen_1-3_en.pdf?sfvrsn=4)



## Tutorials

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- It is also useful to have consulted the following documentation:
  - Information about EPC IS: [www.gsl.org/epcis](http://www.gsl.org/epcis)
  - Information about UNSPSC: [www.unspsc.org](http://www.unspsc.org)

### This Tutorial Will Benefit:

- HL7 experts who are interested in learning about GS1 and its use in the healthcare industry. Key words: UDI, falsified medicines, event management; subject of care identification, location identification, item identification.
- HL7 experts from most of the work groups where physical identification plays a role – such as Patient Administration, Patient Care, Health Care Devices, Pharmacy and many others

### Faculty:

*Christian Hay:* GS1 Switzerland; Delegate Healthcare, Convenor ISO TC 215 WG 6

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## F7 – Newly Elected Co-Chair Training – FREE TUTORIAL

Thursday, September 14 / 7:00 am – 8:00 am

This tutorial is intended for newly elected work group co-chairs. The purpose of the session is to introduce the co-chair responsibilities, review work group and balloting procedures, share tips on managing a work group, provide a framework for common operation among all work groups, and general Q&A session.

### Faculty:

*Karen Van Hentenryck:* Associate Executive Director, HL7 International

## F8 – Essentials of German, Germany and Cologne – A Fun Introduction for Those Going to the May 2018 WGM – FREE TUTORIAL

Thursday, September 14 / 3:30 pm – 5:00 pm

In preparation of the May 2018 Working Group Meeting in Cologne, Germany, this tutorial introduces a bit of German, tells about Germany and especially Cologne and summarizes Dos and Don'ts – with a twinkle in the eye.

### This Tutorial Will Benefit:

- Anyone who plans to attend the May 2018 WGM and wishes to learn more about Germany and the city of Cologne

### Upon Completions of This Tutorial, Students Will Have Obtained:

- Basic language skills
- Basic cultural understanding of Cologne like Kölsch
- Basic ideas of what to see in Cologne and surrounding areas

### Prerequisites:

- Humor and the plan to attend the May 2018 WGM

### Faculty:

*Kai U. Heitmann, MD, FHL7:* Heitmann Consulting and Services; Gefyra GmbH; ART-DECOR Open Tools; Co-Chair, HL7 Templates Work Group; Advisory Board, HL7 Foundation; CEO, HL7 Germany

Topic	Class ID	Instructor	SUN PM	MON AM	MON PM	TUE AM	TUE PM	WED AM	WED PM	THU AM	THU PM
<b>Track 1—CDA®</b>											
Consolidated CDA 2.1	T4	Marquard				★					
Introduction to Clinical Document Architecture	W10	Beebe						★			
CDA Template Design in Theory and Practice	W13	Heitmann/ Geimer							★		
<b>Track 2—Special Topics</b>											
Standards for Interoperability	M1	Kaminker			★						
How to Implement HL7 Standards for Real World Success	T5	Snelick				★					
HL7 Hot Topics - Healthcare Challenges, Technological Advances, and HL7's Response	T7	Lorenzi					★				
Implementing HL7 Standards Based Interoperability in Preparation for MACRA/MIPs and MU Stage 3	W14	Lorenzi/ Buitendijk							★		
2015 US Law MACRA: Role of Standards in QPP and MU3	TH16	Datta								★	
On-the-Fly Data Capture Tooling for FHIR/HL7 V2	TH17	McDonald/ Lynch/Wang								★	
<b>Track 3—FHIR®</b>											
FHIR Connectathon	Sat-Sun	McKenzie/ Kramer/Grieve	Sat-Sun								
FHIR STU3 Proficiency Exam Pilot	S1	HL7 Staff	2:00 - 4:00								
Introduction to HL7 FHIR	M2	Smithies			★						
HAPI on FHIR	M3	Agnew			★						
FHIR for Architects	T6	McKenzie				★					
Driving Health Information Exchange Using XDS with CDA and FHIR	T8	Boone					★				
FHIR for Specifiers	T9	Rutten					★				
Introduction to FHIR Development	W11	Duteau						★			
HL7 FHIR STU3 Proficiency Exam Preparation	W12	Lorenzi						★			
Understanding and Using Terminology in HL7 FHIR	W15	Hausam							★		
C-CDA on FHIR	TH18	Geimer								★	
FHIR STU3 Proficiency Exam Pilot	TH19	HL7 Staff									2:00-4:00
Precision Medicine via FHIR: From Design to Deployment	TH20	Alterovitz									★
<b>Track 4—Information Forums—FREE TUTORIALS</b>											
First-Time Attendees' Orientation	F1/F4	Beebe	3:00-4:00	7:00-8:00							
ISO IDMP, Substances and Allergies	F2	Hay/Telonis	Q4								
Understanding the HL7 International Organization – From Process to Governance	F3	Beebe	4:00-5:00								
Glossary Management-Defining and Managing the Terms Used by Healthcare SDOs	F5	Grain				7:00-8:00					
GS1 Standards for Supply Chain Meets HL7	F6	Hay						7:00-8:00			
Newly Elected Co-Chair Training	F7	Van Hentenryck								7:00-8:00	
Essentials of German, Germany and Cologne - A Fun Introduction for Those Going to the May 2018 WGM	F8	Heitmann									Q4

	Sunday		Monday		Tuesday		Wednesday		Thursday		Friday	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Affiliate Due Diligence Committee	Will not meet in September											
Anesthesia	Will not meet in September											
Application Implementation and Design		★										
Architectural Review Board				Q3						Q3		
Arden Syntax				★	Q1							
Attachments				★	★	★	★	★	★			
Biomedical Research & Regulation				★	★	★	★	★	★	★		
Board of Directors' Meeting						Lunch & ★						
Clinical Decision Support				Q4	★	★	★	★	Q1			
Clinical Genomics				★	★	★	★	★				
Clinical Information Modeling Initiative	★	★		★	★	★	★	★	★	★		
Clinical Interoperability Council					★	Q3	★	★	★	★		
Clinical Quality Information				★	★	★	★	★	Q1			
Clinical Statement										Q3		
Clinicians on FHIR								Lunch			★	Q3
Co-Chair Information				5:15-7:00					7:00-8:00			
Community Based Collaborative Care				★	Q2	★	Q2	★	Q1			
Conformance				★		Q3	★	★	★	Q3		
Education				Lunch & ★					★			
Electronic Health Records				★	★	★	★	★	★	★		
Electronic Services and Tools					Q2				★		Q1	
Emergency Care				★	★	Q4	Q1	Q4		Q3		
Facilitators' Roundtable Dinner/Meeting										5:30-8:00		
FHIR Connectathon (Note: There is also a meeting scheduled for Saturday, 9/10/2017, 9:00-5:00 pm)	★											
FHIR Governance Board		Lunch		Lunch						Q4		
FHIR Infrastructure		★		★	★	★	★	★	★	Q3 & 5:30-8:00		
FHIR Management Group		Lunch	7:00-8:00					★		Q4		
Financial Management				★		Q3	★	★	★			
First-Time Attendees' Orientation		3:00-4:00	7:00-8:00			Lunch						
General Session					8:00-8:45		8:00-8:45		8:00-8:45			
Governance and Operations Committee					Q2							
HL7 Terminology Authority											★	
Health Care Devices				★	★	★	★	★	★	★		
Healthcare Standards Integration						Q3				Q4		
Imaging Integration				Q4	★	★	★	★	★	★		
Implementable Technology Specifications					★	★						

Q1 = 9:00 - 10:30 am; Q2 = 11:00 - 12:30 pm; Q3 = 1:45 - 3:00 pm; Q4 = 3:30 - 5:00 pm    DISCLAIMER: Meeting times are subject to change.

	Sunday		Monday		Tuesday		Wednesday		Thursday		Friday	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Infrastructure & Messaging				Q4	★	★			Q1			
International Council		Lunch & ★								Lunch & ★		
Learning Health Systems								Q3	Q1	Q4		
Mobile Health					Q1	Q3 & 5:15-6:15	★	★				
Modeling & Methodology				★			★	Q3	★	5:30-8:00		
Networking Reception								5:15-7:15				
Nurses Breakfast/Meeting					7:00-8:00							
Orders & Observations				★	★	★	★	★	★	★	Q1	
Patient Administration				★	★	★	★	★	★	★		
Patient Care				★	★	★	★	Lunch & ★	★	Lunch & ★		
Pharmacy				★	★	★	★	★	★	★		
Physicians Breakfast/Meeting							7:00-8:00					
Plenary Meeting			8:30-12:30									
Policy Advisory Committee							Q1					
Process Improvement Committee				Q4								
Product Line Architecture Program											8:00-9:00	
Project Services										Q3		
Public Health & Emergency Response				★	★	★	★	★	★	★		
Publishing				Q4			Q1	Q3				
Security				★	★	Q3	★	★	★			
Services Oriented Architecture				★	★	★	★	★	★			
Standards Governance Board		Q3									★	
Steering Divisions: Domain Experts Foundation & Technology Structure & Semantic Design Technical & Support Services				7:30-8:30								
Structured Documents				★	★	★	★	★	★	★		
Technical Steering Committee Meetings (Note: There is also a meeting scheduled for Saturday, 5/6, 9:00-5:00 pm)		5:15-6:15		5:15-6:15				Lunch		Lunch	7:00-8:00	
Templates				Q3				Q3	Q1		Q1	
Understanding the HL7 International Organization— From Process to Governance		4:00-5:00										
US Realm Steering Committee										Lunch		
Vocabulary		★		★	★	★	★	★	7:00-8:00 & ★	★ & 5:30-8:00		

Q1 = 9:00 – 10:30 am; Q2 = 11:00 – 12:30 pm; Q3 = 1:45 – 3:00 pm; Q4 = 3:30 – 5:00 pm    DISCLAIMER: Meeting times are subject to change.



# HL7 Working Group Meetings

## REGISTRATION HOURS

Sunday	8:30 – 5:00 pm	Registration
Monday – Tuesday	7:00 – 5:00 pm	Registration
Wednesday – Thursday	7:30 – 5:00 pm	Registration
Friday	8:00 – 1:00 pm	Staff on Hand for Assistance

## MEALS AND BREAKS

Monday – Thursday	7:30 – 8:30 am	Continental Breakfast
Friday	8:00 – 9:00 am	Continental Breakfast
Monday	10:10 – 10:40 am	Morning Break
Tuesday – Friday	10:30 – 11:00 am	Morning Break
Monday – Friday	12:30 – 1:30 pm	Lunch
Monday – Thursday	3:00 – 3:30 pm	Afternoon Break

## PLENARY AND GENERAL SESSION ROOM

Please plan to attend the Monday morning Plenary Meeting and General Sessions Tuesday through Thursday for daily highlights, meeting announcements and changes.

Monday	8:30 – 12:30 pm	Plenary Meeting
Tuesday	8:00 – 8:45 am	HL7 CEO, CTO, International Council and TSC Reports, Announcements
Wednesday	8:00 – 8:45 am	HL7 Annual Business Meeting, Awards Presentations, Announcements
Thursday	8:00 – 8:45 am	Announcements
Friday	NO GENERAL SESSION	

Meeting times and locations are subject to change.

Note: In compliance with our status as an ANSI-accredited standards developing organizations, those HL7 meetings related to the development of standards are open.

## Meetings

### AFFILIATE DUE DILIGENCE COMMITTEE (ADDC)

Will not meet in September

### ANESTHESIA (GAS)

Will not meet in September

### APPLICATION IMPLEMENTATION AND DESIGN (AID)

Sunday	1:45-5:00 pm	Hosting: FHIR-I
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### ARCHITECTURAL REVIEW BOARD (ARB)

Monday	1:45-3:00 pm	MEETING
Thursday	1:45-3:00 pm	MEETING

### ARDEN SYNTAX (AS)

Monday	1:45-5:00 pm	MEETING
Tuesday	9:00-10:30 am	Joint w/ CDS

### ATTACHMENTS

Monday	1:45-5:00 pm	MEETING
Tuesday	9:00-5:00 pm	MEETING
Wednesday	9:00-5:00 pm	MEETING
Thursday	9:00-10:30 am	Joint w/ FM
	11:00-12:30 pm	MEETING

### BIOMEDICAL RESEARCH AND REGULATION (BR&R)

Monday	1:45-5:00 pm	MEETING
Tuesday - Wednesday	9:00-5:00 pm	MEETING
Thursday	9:00-12:30 pm	MEETING
	1:45-3:00 pm	Joint w/PC, FHIR-I
	3:30-5:00 pm	MEETING

### BOARD OF DIRECTORS' MEETING

Tuesday	12:30-1:30 pm	Luncheon
	1:45-5:00 pm	MEETING

### CLINICAL DECISION SUPPORT (CDS)

Monday	3:30-5:00 pm	Joint w/ FHIR-I, II, InM, MnM, O&O
Tuesday	9:00-10:30 am	Hosting: AS
	11:00-12:30 pm	Joint w/CQI, FHIR-I
	1:45-3:00 pm	Hosting: CQI, FHIR-I
	3:30-5:00 pm	MEETING
Wednesday	9:00-10:30 am	Joint w/CQI, CIMI
	11:00-12:30 pm	Joint w/CQI
	1:45-3:00 pm	Joint w/PC, CQI, FHIR-I, O&O, Pharm
	3:30-5:00 pm	Hosting: CIMI, CQI
Thursday	9:00-10:30 am	Joint w/O&O, Templates

### CLINICAL GENOMICS (CLIN GEN)

Monday	1:45-3:00 pm	MEETING
	3:30-5:00 pm	Hosting: FHIR-I
Tuesday - Wednesday	9:00-5:00 pm	MEETING

### CLINICAL INFORMATION MODELING INITIATIVE (CIMI)

Sunday	9:00-5:00 pm	MEETING
Monday	1:45-3:00 pm	Joint w/EHR, EC, PC
	3:30-5:00 pm	MEETING
Tuesday	9:00-10:30 am	Joint w/PC, EC
	11:00-12:30 pm	MEETING
	12:30-1:30 pm	Luncheon/Meeting Hosting: FHIR-I
	1:45-3:00 pm	MEETING
	3:30-5:00 pm	Joint w/PC, FHIR-I, Voc
Wednesday	9:00-10:30 am	Joint w/CQI, CDS
	11:00-12:30 pm	Joint w/CIC
	1:45-3:00 pm	MEETING
	3:30-5:00 pm	Joint w/ CDS, CQI
Thursday	9:00-12:30 pm	MEETING
	1:45-3:00 pm	Joint w/Voc, CGIT
	3:30-5:00 pm	MEETING

**CLINICAL INTEROPERABILITY COUNCIL (CIC)**

Tuesday	9:00-10:30 am	MEETING
	11:00-12:30 pm	Joint w/EHR
	1:45-3:30 pm	MEETING
Wednesday	9:00-10:30 am	MEETING
	11:00-12:30 pm	Hosting: CIMI
	1:45-3:00 pm	Hosting: LHS
	3:30-5:00 pm	MEETING
Thursday	9:00-10:30 am	MEETING
	11:00-12:30 pm	Hosting: Education
	1:45-5:00 pm	MEETING

**CLINICAL QUALITY INFORMATION (CQI)**

Monday	1:45-5:00 pm	MEETING
Tuesday	9:00-10:30 am	MEETING
	11:00-12:30 pm	Hosting: CDS, FHIR-I
	1:45-3:00 pm	Joint w/CDS, FHIR-I
	3:30-5:00 pm	MEETING
Wednesday	9:00-10:30 am	Hosting: CDS, CIMI
	11:00-12:30 pm	Hosting: CDS
	1:45-3:00 pm	Joint w/PC, CDS, FHIR-I, O&O, Pharm
	3:30-5:00 pm	Joint w/CDS, CIMI
Thursday	9:00-10:30 am	MEETING

**CLINICAL STATEMENT (CS)**

Thursday	1:45-3:00 pm	Hosting: O&O
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**CLINICIANS ON FHIR**

Wednesday	12:30-1:30 pm	Luncheon/Meeting
Friday	9:00-3:00 pm	MEETING

**CO-CHAIR INFORMATION**

Monday	5:15-7:00 pm	Co-Chairs Dinner/Meeting (Open Meeting; however, open for dininer ONLY to Co-Chairs. <b>Co-Chairs MUST register</b> if you they wish to attend the dinner/meeting)
Thursday	7:00-8:00 am	Newly Elected Co-Chair Training

**COMMUNITY BASED COLLABORATIVE CARE (CBCC)**

Monday	1:45-5:00 pm	Hosting: Sec
Tuesday	11:00-12:30 pm	MEETING
	1:45-3:00 pm	Hosting: MH, Sec
	3:30-5:00 pm	Hosting: FHIR-I
Wednesday	11:00-5:00 pm	MEETING
Thursday	9:00-10:30 am	Joint w/Sec, FHIR-I

**CONFORMANCE (CGIT)**

Monday	1:45-5:00 pm	MEETING
Tuesday	1:45-3:00 pm	MEETING
Wednesday	9:00-12:30 pm	MEETING
	1:45-3:00 pm	Hosting: FHIR-I, Templates
	3:30-5:00 pm	MEETING
Thursday	9:00-10:30 am	Joint w/Voc, InM
	11:00-12:30 pm	Joint w/Voc
	1:45-3:00 pm	Joint w/Voc, CIMI

**EDUCATION**

Monday	12:30-1:30 pm	Education Facilitators' Roundtable Luncheon/Meeting
	1:45-5:00 pm	MEETING
Thursday	9:00-10:30 am	MEETING
	11:00-12:30 pm	Joint w/CIC

**ELECTRONIC HEALTH RECORDS (EHR)**

Monday	1:45-3:00 pm	Hosting: CIMI, EC, PC
	3:30-5:00 pm	MEETING
Tuesday	9:00-10:30 am	Hosting: MH
	11:00-12:30 pm	Hosting: CIC
	1:45-5:00 pm	MEETING
Wednesday	9:00-10:30 am	Hosting: FHIR-I, Sec
	11:00-5:00 pm	MEETING
Thursday	9:00-5:00 pm	MEETING

**ELECTRONIC SERVICES AND TOOLS (EST)**

Tuesday	11:00-12:30 pm	MEETING
Thursday	9:00-12:30 pm	MEETING
Friday	9:00-10:30 am	Joint w/Templates

**EMERGENCY CARE (EC)**

Monday	1:45-3:00 pm	Joint w/EHR, CIMI, PC
	3:30-5:00 pm	MEETING
Tuesday	9:00-10:30 am	Joint w/PC, CIMI
	11:00-12:30 pm	MEETING
	3:30-5:00 pm	MEETING
Wednesday	9:00-10:30 am	MEETING
	3:30-5:00 pm	MEETING
Thursday	1:45-3:00 pm	MEETING

**FACILITATORS' ROUNDTABLE DINNER/MEETING**

Thursday	5:30-8:00 pm	Hosting: FHIR-I, MnM, Voc
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**FHIR CONNECTATHON**

Saturday	9:00-5:00 pm	MEETING
Sunday	9:00-12:30 pm	MEETING

**FHIR GOVERNANCE BOARD (FGB)**

Sunday	12:30-1:30 pm	Luncheon/Meeting - Hosting: FMG
Monday	12:30-1:30 pm	Luncheon/Meeting
Thursday	3:30-5:00 pm	Hosting: FMG

**FHIR INFRASTRUCTURE (FHIR-I)**

Sunday	1:45-5:00 pm	Joint w/AID
Monday	1:45-3:00 pm	MEETING
	3:30-5:00 pm	Hosting: CDS, II, InM, MnM, O&O
	3:30-5:00 pm	Joint w/Clin Gen
	3:30-5:00 pm	Joint w/PHER
	3:30-5:00 pm	Joint w/ SD
Tuesday	9:00-10:30 am	Joint w/ITS
	9:00-10:30 am	Joint w/PA
	9:00-10:30 am	Joint w/SOA
	11:00-12:30 pm	Joint w/InM

## Meetings

Tuesday (continued)	11:00-12:30 pm	Joint w/CQI, CDS
	11:00-12:30 pm	Joint w/Pharm
	12:30-1:30 pm	Luncheon/Meeting Joint w/CIMI
	1:45-3:00 pm	Joint w/PC
	1:45-3:00 pm	Joint w/HSI
	1:45-3:00 pm	Joint w/CDS, CQI
	3:30-5:00 pm	Joint w/InM
	3:30-5:00 pm	Joint w/PC, CIMI, Voc
	3:30-5:00 pm	Joint w/CBCC
	3:30-5:00 pm	Joint w/SD
Wednesday	9:00-10:30 am	Joint w/EHR, Sec
	9:00-10:30 am	Joint w/PC
	9:00-10:30 am	Joint w/Voc, MnM
	11:00-5:00 pm	MEETING
	1:45-3:00 pm	Joint w/CGIT, Templates
	1:45-3:00 pm	Joint w/PC, CDS, CQI, O&O, Pharm
Thursday	1:45-3:00 pm	Joint w/Sec
	3:30-5:00 pm	Joint w/II
	9:00-10:30 am	Joint w/Dev
	9:00-10:30 am	Joint w/Sec, CBCC
	11:00-12:30 pm	Joint w/ O&O
	11:00-3:00 pm	MEETING
	1:45-3:00 pm	Joint w/PC, BR&R
	1:45-3:00 pm	Joint w/SD
	5:30-8:00 pm	Facilitators' Roundtable Dinner/Meeting - Joint w/MnM, Voc

### FHIR MANAGEMENT GROUP (FMG)

Sunday	12:30-1:30 pm	Luncheon/Meeting Joint w/FGB
Monday	7:00-8:00 am	MEETING
Wednesday	1:45-5:00 pm	Joint w/Attachments
Thursday	3:30-5:00 pm	Joint w/FGB

### FINANCIAL MANAGEMENT (FM)

Monday	1:45-5:00 pm	MEETING
Tuesday	1:45-3:00 pm	Joint w/InM
Wednesday	9:00-5:00 pm	MEETING
Thursday	9:00-10:30 am	Hosting: Attachments
	11:00-12:30 pm	Joint w/PA

### FIRST-TIME ATTENDEES' ORIENTATION

Sunday	3:00-4:00 pm	ORIENTATION/MEETING
Monday	7:00-8:00 am	ORIENTATION/MEETING
	12:30-1:30 pm	Lunch Tables Reserved for Q & A

### GOVERNANCE AND OPERATIONS (GOC)

Tuesday	11:00-12:30 pm	MEETING
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### HL7 TERMINOLOGY AUTHORITY (HTA)

Friday	9:00-12:30 pm	MEETING
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### HEALTH CARE DEVICES (DEV)

Monday	1:45-5:00 pm	MEETING
Tuesday	9:00-5:00 pm	MEETING

Wednesday	9:00-3:00 pm	MEETING
	3:30-5:00 pm	Hosting: MH
Thursday	9:00-10:30 am	Hosting: FHIR-I
	11:00-5:00 pm	MEETING

### HEALTHCARE STANDARDS INTEGRATION WORK GROUP (HSI)

Tuesday	1:45-3:00 pm	Hosting: FHIR-I
Thursday	3:30-5:00 pm	MEETING

### IMAGING INTEGRATION (II)

Monday	3:30-5:00 pm	Joint w/FHIR-I, CDS, InM, MnM, O&O
Tuesday	9:00-5:00 pm	MEETING
Wednesday	9:00-3:00 pm	MEETING
	3:30-5:00 pm	Hosting: FHIR-I
Thursday	9:00-5:00 pm	MEETING

### IMPLEMENTABLE TECHNOLOGY SPECIFICATIONS (ITS)

Tuesday	9:00-10:30 am	Hosting: FHIR-I
	11:00-5:00 pm	MEETING

### INFRASTRUCTURE AND MESSAGING (INM)

Monday	3:30-5:00 pm	Joint w/CDS, FHIR-I, II, MnM, O&O
Tuesday	9:00-10:30 am	MEETING
	11:00-12:30 pm	Hosting: FHIR-I
	1:45-3:00 pm	Hosting: FM
	3:30-5:00 pm	Hosting: FHIR-I
Thursday	9:00-10:30 am	Joint w/Voc, CGIT

### INTERNATIONAL COUNCIL MEETING

Sunday	12:30-1:30 pm	Luncheon
	1:45-5:00 pm	MEETING
Thursday	12:30-5:00 pm	Affiliate Chair or Designated Rep Luncheon/Meeting

### LEARNING HEALTH SYSTEMS WORK GROUP (LHS)

Wednesday	1:45-3:00 pm	Joint w/ CIC
Thursday	9:00-10:30 am	Joint w/PC
	3:30-5:00 pm	Hosting: PC

### MOBILE HEALTH (MH)

Tuesday	9:00-10:30 am	Joint w/ EHR
	1:45-3:00 pm	Joint w/CBCC, Sec
	5:15-6:15 pm	MEETING
Wednesday	9:00-3:00 pm	MEETING
	3:30-5:00 pm	Joint w/ Dev

### MODELING AND METHODOLOGY (MNM)

Monday	1:45-3:00 pm	MEETING
	3:30-5:00 pm	Joint w/FHIR-I, CDS, II, InM, O&O
Wednesday	9:00-10:30 am	Joint w/ Voc, FHIR-I
	11:00-12:30 pm	Joint w/ Voc
	1:45-3:00 pm	MEETING
Thursday	9:00-12:30 pm	MEETING
	5:30-8:00 pm	Facilitators' Roundtable Dinner/Meeting - Joint w/FHIR-I, Voc

**NETWORKING RECEPTION**

Wednesday 5:15-7:15 pm RECEPTION

**NURSES BREAKFAST/MEETING**

Tuesday 7:00-8:00 am MEETING

**ORDERS AND OBSERVATIONS (O&O)**

Monday 1:45-3:00 pm MEETING  
 3:30-5:00 pm Joint w/ FHIR-I, CDS, II, InM, MnM  
 Tuesday 9:00-5:00 pm MEETING  
 Wednesday 9:00-12:30 pm MEETING  
 1:45-3:00 pm Joint w/PC,CDS, CQI, FHIR-I, Pharm  
 3:30-5:00 pm MEETING  
 Thursday 9:00-10:30 am Hosting: CDS, Templates  
 11:00-12:30 pm Hosting: FHIR-I  
 1:45-3:00 pm Joint w/CS  
 3:30-5:00 pm MEETING  
 Friday 9:00-10:30 am MEETING

**PATIENT ADMINISTRATION (PA)**

Monday 1:45-5:00 pm MEETING  
 Tuesday 9:00-10:30 am Hosting: FHIR-I  
 11:00-12:30 pm MEETING  
 1:45-3:00 pm Hosting: SOA  
 3:30-5:00 pm MEETING  
 Wednesday 9:00-10:30 am MEETING  
 11:00-12:30 pm Hosting: PC  
 1:45-5:00 pm MEETING  
 Thursday 9:00-10:30 am MEETING  
 11:00-12:30 pm Hosting: FM  
 1:45-5:00 pm MEETING

**PATIENT CARE (PC)**

Monday 1:45-3:30 pm Joint w/EHR, CIMI, EC  
 3:30-5:00 pm MEETING  
 Tuesday 9:00-10:30 am Hosting: CIMI, EC  
 11:00-12:30 pm MEETING  
 1:45-3:30 pm Hosting: FHIR-I  
 3:30-5:00 pm Hosting: CIMI, FHIR-I, Voc  
 Wednesday 9:00-10:30 am Hosting: FHIR-I  
 11:00-12:30 pm Joint w/PA  
 12:30-1:30 pm Luncheon/Meeting  
 1:45-3:00 pm HOSTING: CDS, CQI, FHIR-I, O&O, Pharm  
 3:30-5:00 pm Hosting: Voc  
 Thursday 9:00-10:30 am Hosting: LHS  
 11:00-12:30 pm MEETING  
 12:30-1:30 pm Luncheon/Meeting  
 1:45-3:00 pm Hosting: BR&R, FHIR-I  
 3:30-5:00 pm Joint w/LHS

**PHARMACY (PHARM)**

Monday 1:45-5:00 pm MEETING  
 Tuesday 9:00-10:30 am MEETING  
 11:00-12:30 pm Hosting: FHIR-I  
 1:45-3:00 pm MEETING  
 3:30-5:00 pm Joint w/PHER  
 Wednesday 9:00-12:30 pm MEETING  
 1:45-3:00 pm Joint w/PC, CDS, CQI, FHIR-I, O&O  
 3:30-5:00 pm MEETING  
 Thursday 9:00-5:00 pm MEETING

**PHYSICIANS BREAKFAST MEETING**

Wednesday 7:00-8:00 am MEETING

**PLENARY MEETING**

Monday 8:30-12:30 pm MEETING

**POLICY ADVISORY COMMITTEE (PAC)**

Wednesday 9:00-10:30 am MEETING

**PROCESS IMPROVEMENT (PIC)**

Monday 3:30-5:00 pm MEETING

**PRODUCT LINE ARCHITECTURE PROGRAM**

Friday 8:00-9:00 am MEETING

**PROJECT SERVICES**

Thursday 1:45-3:00 pm MEETING

**PUBLIC HEALTH AND EMERGENCY RESPONSE (PHER)**

Monday 1:45-3:00 pm MEETING  
 3:30-5:00 pm Hosting: FHIR-I  
 Tuesday 9:00-3:00 pm MEETING  
 3:30-5:00 pm Hosting: Pharm  
 Wednesday - Thursday 9:00-5:00 pm MEETING

**PUBLISHING**

Monday 3:30-5:00 pm MEETING  
 Wednesday 9:00-10:30 am MEETING  
 1:45-3:00 pm Hosting: Voc

**SECURITY (SEC)**

Monday 1:45-5:00 pm Joint w/CBCC  
 Tuesday 9:00-12:30 pm MEETING  
 1:45-3:00 pm Joint w/CBCC, MH  
 Wednesday 9:00-10:30 am Joint w/EHR, FHIR-I  
 11:00-12:30 pm Joint w/SOA  
 1:45-3:00 pm Hosting: FHIR-I  
 3:30-5:00 pm MEETING  
 Thursday 9:00-10:30 am Hosting: CBCC, FHIR-I  
 11:00-12:30 pm MEETING



# Meetings

## SERVICES ORIENTED ARCHITECTURE (SOA)

Monday	1:45-5:00 pm	MEETING
Tuesday	9:00-10:30 am	Hosting: FHIR-I
	11:00-12:30 pm	MEETING
	1:45-3:00 pm	Joint w/PA
	3:30-5:00 pm	MEETING
Wednesday	9:00-10:30 am	MEETING
	11:00-12:30 pm	Hosting: Sec
	1:45-5:00 pm	MEETING
Thursday	9:00-12:30 pm	MEETING

## STANDARDS GOVERNANCE BOARD

Sunday	1:45-3:00 pm	MEETING
Friday	9:00-12:30 pm	MEETING

## STEERING DIVISIONS

Monday	7:00-8:30 pm	Domain Experts Foundation & Technology Structure & Semantic Design Technical & Support Services
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## STRUCTURED DOCUMENTS (SD)

Monday	1:45-3:00 pm	MEETING
	3:30-5:00 pm	Hosting: FHIR-I
	9:00-10:30 am	MEETING
	11:00-12:30 pm	Joint w/Voc
Tuesday	1:45-3:00 pm	MEETING
	3:30-5:00 pm	Hosting: FHIR-I
	9:00-5:00 pm	MEETING
	11:00-12:30 pm	MEETING
Wednesday	9:00-12:30 pm	MEETING
Thursday	1:45-3:00 pm	Hosting: FHIR-I
	3:30-5:00 pm	MEETING

## TECHNICAL STEERING COMMITTEE (TSC)

Saturday	9:00-5:00 pm	MEETING
Sunday	5:15-6:15 pm	MEETING
Monday	5:15-6:15 pm	MEETING
Wednesday	12:30-1:30 pm	Luncheon/Meeting
Thursday	12:30-1:30 pm	Luncheon/Meeting
Friday	7:00-8:00 am	MEETING

## TEMPLATES

Monday	1:45-3:00 pm	MEETING
Wednesday	1:45-3:00 pm	Joint w/CGIT, FHIR-I
Thursday	9:00-10:30 am	Joint w/O&O, CDS
Friday	9:00-10:30 am	Hosting: EST

## UNDERSTANDING THE HL7 INTERNATIONAL ORGANIZATION - FROM PROCESS TO GOVERNANCE

Sunday	4:00-5:00 pm	ORIENTATION/INTRODUCTION
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## US REALM STEERING COMMITTEE

Thursday	12:30-1:30 pm	Luncheon/Meeting
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## VOCABULARY (VOC)

Sunday	1:45-5:00 pm	MEETING
Monday	1:45-5:00 pm	MEETING
Tuesday	9:00-10:30 am	MEETING
	11:00-12:30 pm	Hosting: SD
	1:45-3:00 pm	MEETING
	3:30-5:00 pm	Joint w/PC, CIMI, FHIR-I
	9:00-10:30 am	Hosting: FHIR-I, MnM
	11:00-12:30 pm	Hosting: MnM
	1:45-3:00 pm	Joint w/ Publishing
	3:30-5:00 pm	Joint w/PC
	7:00-8:00 am	MEETING
	9:00-10:30 am	Hosting: CGIT, InM
Wednesday	11:00-12:30 pm	Hosting: CGIT
	1:45-3:00 pm	Hosting: CIMI, CGIT
	3:30-5:00 pm	MEETING
	5:30-8:00 pm	Facilitators' Roundtable Dinner/Meeting
		- Joint w/FHIR-I, Voc
Thursday		

Meeting times and locations are subject to change.

Note: In compliance with our status as an ANSI-accredited standards developing organizations, those HL7 meetings related to the development of standards are open.

**“EARLY BIRD” RATE DEADLINE** — Advance meeting registration, including payment, is required by **August 18** to receive the discounted rates. Otherwise the full fee structure will apply. Consult the registration form (pages 27-29) for a schedule of meeting fees.

**TO REGISTER** — Please complete the registration form on pages 28-30 and mail it (along with a check payable to Health Level Seven International in U.S. funds ONLY) to:

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

If paying by credit card, the registration may be faxed to: +1 (734) 677-6622.

Online registration is also available via our website ([www.HL7.org](http://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 25**. 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** — Tutorials at HL7 working group meetings are an additional fee to the daily meeting registration fees. Please note that tutorials listed as free in the brochure still require payment of the daily meeting fee. To register for tutorials, please select each tutorial you would like to take on page 30 of the registration form.

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

**DRESS** — The dress code is 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's lunch on your registration form in order to receive lunch tickets.

**HOTEL INFORMATION** — HL7 International's 31st Annual Plenary & Working Group Meeting will be held at:

HYATT REGENCY LA JOLLA AT AVENTINE  
3777 La Jolla Village Drive  
San Diego, CA 92122  
Phone: +1 (858) 552-1234 • Fax: +1 (858) 625-0142  
Website: [www.lajolla.regency.hyatt.com](http://www.lajolla.regency.hyatt.com)

To reserve your room, the hotel has set up a special website registration process just for HL7 attendees. Log on to the hotel's website at <http://bit.ly/2uiejDH> and simply follow the reservation instructions.

Requests will be noted and based on availability.

Alternatively, you can call the hotel direct at 1 (888) 421-1442 and reference the name of the group as well as the desired dates for reservations. Please be sure to mention Health Level Seven to receive the discounted room rate of \$189 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 on reservations made before Monday, August 21, 2017.** 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 to ensure no cancellation penalties are assessed. An early departure fee will be assigned to any guests who do not change their departure date prior to checking in.

**GROUND TRANSPORTATION** — The Hyatt Regency La Jolla at Aventine is approximately 13 miles from the San Diego International Airport (18 minutes).

#### EXPRESS SHUTTLE OR CLOUD 9 SHUTTLE

Cost: Approx \$15 one way per person (subject to change)  
Seating/Luggage: 2 pieces of luggage per person  
Pick Up: Outside of Baggage claim area

#### TAXI

Cost: Approx \$35-45  
Seating/Luggage: 2 pieces of luggage per person  
Pick Up: Outside of Baggage claim area

#### MAXIMUM SEATING

Shuttles seat 10 people, taxi 2-8 people

#### PARKING

Hyatt Regency La Jolla offers both self and valet indoor parking, with 6'10" Clearance. The HL7 discounted rates are listed below.

#### Valet Parking

- 1st Hour - \$12; Each Additional Hour - \$5
- Daily Maximum - \$45
- Overnight Valet - \$40

#### Self Parking

- \$10 Per Day

## PLEASE BOOK YOUR ROOM AT THE HL7 MEETING HOTEL

HL7 urges all meeting attendees to secure their hotel reservation at the HL7 Working Group Meeting Host Hotel. This 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 our sleeping room blocks. If you make reservations at a different hotel, HL7 risks falling short on its obligation, which translates in 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!

# Meeting Registration Form

## 1. Contact Information

End of day on August 18, 2017 is the deadline for Early Bird fees. All advance registrations must be received by end of day on August 25, 2017. After this date, registrations can ONLY be made on-site with payment.

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

## 2. Survey & Information

**I am a/an:**

<input type="checkbox"/> Affiliate Chair	<input type="checkbox"/> Past Board Chair	<input type="checkbox"/> Tutorial Speaker
<input type="checkbox"/> First-Time WGM Attendee	<input type="checkbox"/> Plenary Speaker	
<input type="checkbox"/> HL7 Board Member	<input type="checkbox"/> Student	

**Primary employment type:**

<input type="checkbox"/> Academia	<input type="checkbox"/> Consultant	<input type="checkbox"/> Government	<input type="checkbox"/> Healthcare Professional
<input type="checkbox"/> Payer	<input type="checkbox"/> Pharmacy	<input type="checkbox"/> Provider	<input type="checkbox"/> Vendor
<input type="checkbox"/> Other: _____			

☐ I am a member of an HL7 International Affiliate, employee of an HL7 organizational member or member of another eligible organization (AHIP, AIRA, ASC-X12, ASCO, ASTM, CEN/TC 251, DICOM, eHI, GS1, HIMSS, HIMSS Europe, ICH, IEEE, IHTSDO, IRISS, LOINC, NCPDP, OASIS, OMG, Sequoia Project, WEDI) and eligible for the member rate.

Please list affiliate or organization: \_\_\_\_\_

☐ I am a full time student. (Option available only to full-time students who are not professionally employed.)

University attending: \_\_\_\_\_ Student # \_\_\_\_\_

### Meal Requirements:

☐ Diabetic ☐ Regular ☐ Vegetarian ☐ Other: \_\_\_\_\_

### Mail/Overnight

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

### Fax

+1 (734) 677-6622

### Online

[www.HL7.org](http://www.HL7.org)

- ☐ I plan to attend the **FHIR Connectathon (S1)** (Saturday—Sunday).

**Note:** FHIR Connectathon registration includes space at a table for one person with a laptop, one power connection (expected draw ~100 W) and up to two wireless network connections with shared bandwidth. If you have additional hardware, space or connectivity requirements, please contact [Maryann@HL7.org](mailto:Maryann@HL7.org) prior to registration. Venue constraints may limit HL7's ability to meet special requests.

Lunch will be provided both Saturday and Sunday for FHIR Connectathon participants.

- ☐ I plan to attend the **International Council Meeting** (Sunday).

A lunch ticket will be included in your registration packet.

- ☐ I plan to attend the **Clinicians on FHIR** (Friday). Please register below.

Clinicians on FHIR is open to clinicians from all disciplines – nurses, physicians, pharmacists, nutritionists and other patient care professionals – who are registered for the Working Group Meeting. Registration before the Friday event is required. See page 4 for details.

### 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.

	Members		Non-Members		
	Before 8/18	After 8/18	Before 8/18	After 8/18	Amount Due
<b>Sunday – Friday Option:</b> Please register me for the entire week. Please note that the Sunday-Friday Option does not include the cost of tutorials. Please register separately for any tutorials you would like to attend on the following page.	<input type="checkbox"/> \$920	<input type="checkbox"/> \$1,195	<input type="checkbox"/> \$1,305	<input type="checkbox"/> \$1,720	\$ _____
<b>Monday – Friday Option:</b> 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 on the following page.	<input type="checkbox"/> \$770	<input type="checkbox"/> \$1,045	<input type="checkbox"/> \$1,155	<input type="checkbox"/> \$1,570	\$ _____
<b>Per Day Fees:</b> Please note tutorials are an additional fee on top of the daily fees. Additionally, tutorials that are listed as free still require registration for the daily meeting fees. Please register separately for any tutorials you would like to attend on the following page.	<input type="checkbox"/> \$220/day	<input type="checkbox"/> \$290/day	<input type="checkbox"/> \$330/day	<input type="checkbox"/> \$435/day	\$ _____
<input type="checkbox"/> Sunday <input type="checkbox"/> Monday <input type="checkbox"/> Tuesday <input type="checkbox"/> Wednesday <input type="checkbox"/> Thursday <input type="checkbox"/> Friday # _____ days attending x fee:					\$ _____

	Members		Non-Members		
	Before 8/18	After 8/18	Before 8/18	After 8/18	
<b>FHIR Connectathon:</b> Please note: No partial registrations for the FHIR Connectathon will be accepted. The registration fee covers all day Saturday and Sunday morning. Lunch will be provided both Saturday and Sunday for FHIR Connectathon participants.	<input type="checkbox"/> Participant: \$345 <input type="checkbox"/> Observer: \$445	<input type="checkbox"/> Participant: \$495 <input type="checkbox"/> Observer: \$595	<input type="checkbox"/> Participant: \$445 <input type="checkbox"/> Observer: \$545	<input type="checkbox"/> Participant: \$595 <input type="checkbox"/> Observer: \$695	\$ _____
<b>Clinicians on FHIR:</b> See page 4 for details.	<input type="checkbox"/> No Fee		<input type="checkbox"/> No Fee		\$ _____

**Deadline for Discounted Rates:** Payment must be received by August 18, 2017 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 can only be paid for in US currency.



# Meeting Registration Form

All individuals who are employed by an HL7 gold or benefactor organization must have their key member contact Mary Ann Boyle at maryann@hl7.org if they wish to use their organization's free tutorial seats for this meeting.

## Tutorial Fees: Please register me for the following tutorials:

Please note that tutorials are an additional fee to the daily meeting fee. You must also register for the days you are taking tutorials.

Members		Non-Members		AMOUNT DUE
Before 8/18	After 8/18	Before 8/18	After 8/18	

### SUNDAY

- ☐ **Track 3—FHIR:** FHIR STU3 Proficiency Exam Pilot (S1) ☐ \$199 ☐ \$199 ☐ \$350 ☐ \$350 \$ \_\_\_\_\_
- ☐ **Track 4—Information Forums:** First-Time Attendees' Orientation — FREE TUTORIAL (F1) — Must sign up to attend this tutorial (Please check the box.)
- ☐ **Track 4—Information Forums:** ISO IDMP, Substances and Allergies — FREE TUTORIAL (F2) — Must sign up to attend this tutorial (Please check the box.)
- ☐ **Track 4—Information Forums:** Understanding the HL7 International Organization – From Process to Governance — FREE TUTORIAL (F3) — Must sign up to attend this tutorial (Please check the box.)

### MONDAY

#### Morning Sessions

- ☐ **Track 4—Information Forums:** First Time Attendees' Orientation — FREE TUTORIAL (F4) — Must sign up to attend this tutorial (Please check the box.)

#### Afternoon Sessions

- Track 2—Special Topics:** Standards for Interoperability (M1) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_
- Track 3—FHIR:** Introduction to HL7 FHIR (M2) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_
- Track 3—FHIR:** HAPI on FHIR (M3) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_

### TUESDAY

#### Morning Sessions

- ☐ **Track 4—Information Forums:** Glossary Management — FREE TUTORIAL (F5) — Must sign up to attend this tutorial (Please check the box.)

- Track 1—CDA:** Consolidated CDA 2.1 (T4) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_
- Track 2—Special Topics:** How to Implement HL7 Standards for Real World Success (T5) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_
- Track 3—FHIR:** FHIR for Architects (T6) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_

#### Afternoon Sessions

- Track 2—Special Topics:** HL7 Hot Topics (T7) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_
- Track 3—FHIR:** Driving Health Information Exchange Using XDS with CDA and FHIR (T8) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_
- Track 3—FHIR:** FHIR for Specifiers (T9) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_

### WEDNESDAY

#### Morning Sessions

- ☐ **Track 4—Information Forums:** GS1 Standards for Supply Chain Meets HL7 — FREE TUTORIAL (F6) — Must sign up to attend this tutorial (Please check the box.)

- Track 1—CDA:** Introduction to Clinical Document Architecture (W10) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_
- Track 3—FHIR:** Introduction to FHIR Development (W11) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_
- Track 3—FHIR:** FHIR STU3 Proficiency Exam Preparation (W12) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_

#### Afternoon Sessions

- Track 1—CDA:** CDA Template Design in Theory and Practice (W13) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_
- Track 2—Special Topics:** Implementing HL7 Standards Based Interoperability for MACRA/MIPs & MU Stage 3 (W14) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_
- Track 3—FHIR:** Understanding and Using Terminology in HL7 FHIR (W15) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_

### THURSDAY

#### Morning Sessions

- ☐ **Track 4—Information Forums:** Newly Elected Co-Chair Training — FREE TUTORIAL (F7) — Must sign up to attend this tutorial (Please check the box.)

- Track 2—Special Topics:** 2015 US Law MACRA: Role of Standards in QPP and MU3 (TH16) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_
- Track 2—Special Topics:** On-the-Fly Data Capture Tooling for FHIR/HL7 V2 (TH17) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_
- Track 3—FHIR:** C-CDA on FHIR (TH18) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_

#### Afternoon Sessions

- ☐ **Track 4—Information Forums:** Essentials of German, Germany and Cologne - A Fun Introduction for Those Going to the May 2018 WGM (F8) — Must sign up to attend this tutorial (Please check the box.)

- Track 3—FHIR:** FHIR STU3 Proficiency Exam Pilot (TH19) ☐ \$199 ☐ \$199 ☐ \$350 ☐ \$350 \$ \_\_\_\_\_
- Track 3—FHIR:** Precision Medicine via FHIR: From Design to Deployment (TH20) ☐ \$110 ☐ \$215 ☐ \$325 ☐ \$490 \$ \_\_\_\_\_

**Total Amount Due \$** \_\_\_\_\_

## 4. Payment Information: Payment must be included in order to process your registration. Method of Payment (US Dollars, Drawn on US Bank Only)

- ☐ Check (Please make payable to: Health Level Seven International)    Credit Card: ☐ Visa ☐ Master Card ☐ American Express ☐ Discover

Number: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Name on Card (Please Print): \_\_\_\_\_ Billing Zip Code: \_\_\_\_\_

## Upcoming Working Group Meetings



## Upcoming Co-Chair Elections

The following HL7 work groups will conduct co-chair elections at this working group meeting.

Work Group	# being elected
Anesthesia	1
Arden Syntax	1
Biomedical Research and Regulation	1
Clinical Decision Support	2
Clinical Interoperability Council	1
Clinical Quality Information	1
Conformance	1
Education	2
Emergency Care	1
FHIR Infrastructure	2
Healthcare Standards Integration	2
Imaging Integration	1
Implementable Technology Specifications	1
Learning Health Systems	1
Mobile Health	1
Modeling and Methodology	1
Patient Care	3
Pharmacy	2
Public Health and Emergency Response	2
Publishing	4
Structured Documents	2





# SAN DIEGO, CALIFORNIA

On Southern California's sun-drenched coast you will discover the city that will steal your heart —San Diego. Where blue skies keep watch on 70 miles of beaches and a gentle Mediterranean climate begs for a day of everything and nothing.

The Hyatt Regency La Jolla at Aventine blends the charm of a European village with the panache of Southern California. Located La Jolla, the hotel offers an ideal location just a short drive from the beach. Consistently voted one of the top beach destinations in the world, La Jolla offers museums and art galleries, one-of-a-kind boutiques, great restaurants and a slew of outdoor activities. Home to the famous Torrey Pines Golf Course and The Lodge at Torrey Pines, the scenic cliff area offers well-groomed hiking trails with spectacular views, and world-class golf.

Visit the Stephen Birch Aquarium & Museum, spend a day kayaking, take a Baja Lobster or Wine tour, see live theater or shop San Diego's trendy boutiques. La

Jolla is also home to cultural attractions including the La Jolla Playhouse and the Museum of Contemporary Art, all situated in close proximity to The Village. The University of San Diego, which hosts the popular Geisel Library and the Salk Institute for Biological Studies, are both located in La Jolla as well. Everything you want to see is just minutes away. The area's top attractions are nearby including LEGOLAND California, SeaWorld Adventure Park, the San Diego Zoo, and Safari Park

With a dramatic coastline boasting incredible views, it's no surprise that La Jolla is one of the most popular beach destinations in California. Surrounded on three sides by the sea and backed by the steep slopes of Mt. Soledad, La Jolla's natural beauty, abundance of activities and upscale village lifestyle ensure that it lives up to its nickname as "the jewel" of San Diego.

*Excerpts compliments of the Hyatt Regency La Jolla & Convention Center.*

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