



Health Level Seven® International

*Unlocking the Power of Health Information*

**INTERNATIONAL**

# Working Group Meeting

**May 11–18, 2018**

**Maritim Hotel Köln • Cologne, Germany**

**Register Today!**

Hotel Cutoff: April 15, 2018

Early Bird Registration: April 17, 2018

Online Registration Cutoff: April 24, 2018



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## Upcoming Co-Chair Elections

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

Work Group	# being elected
Biomedical Research and Regulation	1
Clinical Genomics	1
Clinical Quality Information	2
Community-Based Care and Privacy	2
Electronic Health Records	1
Electronic Services and Tools	3
Health Care Devices	1
Implementable Technology Specifications	1
Infrastructure and Messaging	1
Mobile Health	1
Orders and Observations	1
Patient Care	1
Process Improvement	2
Project Services	1
Security	1
Services Oriented Architecture	1
Structured Documents	1
Templates	1
Vocabulary	1

### 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

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# Plenary Meeting

8:00 – 11:00 am • Monday, May 14, 2018

8:00 – 8:10 AM

## Welcome to Cologne



*Speaker:*

**Christof Gessner, PhD**

Chair, HL7 Germany; European Strategic Advisory Board

8:10 – 8:20 AM

## Welcome Address to Working Group Meeting



*Speaker:*

**Charles Jaffe, MD, PhD**

CEO, HL7 International

8:20 – 8:25 AM

## Introduction of Plenary Program and Keynote Speakers



*Session Chair:*

**Robert Stegwee, PhD**

Chair, CEN/TC 251 Health Informatics

8:25 – 8:50 AM

## KEYNOTE 1:

eHealth Network of Member State Representatives: Past, Present and Future



*Speaker:*

**Clemens Martin Auer, MD**

Director General, Federal Ministry of Health, Austria; Chair, eHealth Network

8:50 – 9:15 AM

## KEYNOTE 2:

Patient at the Center of Digital Health Developments



*Speaker:*

**Marcel Heldoorn** (invited)

Digital Care Manager, Dutch Patient Federation, Netherlands

9:15 – 9:40 AM

## KEYNOTE 3:

Healthcare in the Age of Digitization: Focus on Portugal



*Speaker:*

**Henrique Martins, MD, PhD**

CEO, Shared Service, Ministry of Health (SPMS), Portugal

9:40 – 10:05 AM

## KEYNOTE 4:

Using Law and Standards to Make the Most of the European Reference Networks for Rare Diseases



*Speaker:*

**Petra Wilson, PhD**

Managing Partner, Health Connect Partners, Brussels, Belgium

10:05 – 10:30 AM

## KEYNOTE 5:

European Strategy for eHealth: The Role of Interoperability Standards



*Speaker:*

**Tapani Piha, MD**

Head of Unit, Cross-Border Healthcare & eHealth, DG Health and Food Safety, European Commission, Brussels, Belgium

# 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 and serve two important purposes:

- To provide 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.
- To 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 19–22 for a complete schedule of meeting times throughout the week.

## Education Tracks

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

### Track 1 – HL7 FHIR®

This track provides tutorials and other activities focused on HL7's new Fast Healthcare Interoperability Resources (FHIR®) 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 2 – CDA® & C-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.

## Tutorials

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 5–15.

## 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 – General Interest & Special Topics

The General Interest & Special Topics track offers a variety of electives that may involve multiple standards product families, general topics such as security, vocabulary and interoperability 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.

## 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. We encourage you feel free to choose the whatever courses are right for you from among the four tracks.*

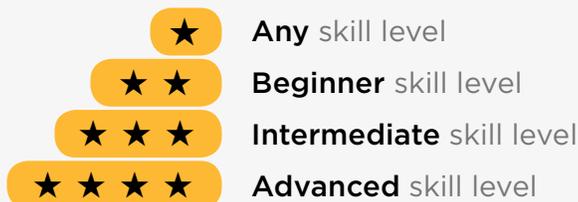
## Tutorials Icon Key

This section provides important information on how to decipher the icons associated with each tutorial class.

Upper Blue Section: This is the Class ID. Use this information to quickly find your tutorials throughout this brochure and when registering.



Star Icons: The number of stars indicates the **Skill Level** for each tutorial class



**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 27 of the registration form.*



**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.



Introduction to HL7 FHIR,  
Introduction to German  
Medication Therapy Plan Profiles &  
Implementation Workshop



Friday, May 11 / 12:00 – 7:00 pm

In this one-day workshop participants will be given a brief introduction to HL7 FHIR and an introduction to the German medication plan profiles and implementation guide. This gives participants the possibility to get an introduction to HL7 FHIR as well as get familiar with an application of HL7 FHIR. This second part will be an implementation workshop and exercises on Java, JavaScript and mobile apps.

PLEASE NOTE: Introductions and workshops can only be booked together.

**The following topics will be taught under each category:**

### Introduction to HL7 FHIR

(12:00 pm – 1:30 pm)

- The history of HL7 FHIR and comparison to other standards and the roadmap
- HL7 FHIR basics: resources, references, REST
- HL7 FHIR profiling overview
- HL7 FHIR tools, implementation support and community

### Introduction to the German Medication Therapy Plan Profiles and Implementation Guide

(2:00 – 3:00 pm)

- Rationale, history and achievements of the Medication Therapy Plan in Germany
- Details on profiles and value sets for the Medication Therapy Plan

### Implementation Workshop and Exercises I: JavaScript and Mobile Apps

(3:30 – 5:00 pm)

- Introduction to the JavaScript HL7 FHIR library
- Introduction to the JavaScript based NativeScript environment for cross platform app development
- Step-by-step implementation of a simple mobile app utilizing HL7 FHIR

### Implementation Workshop and Exercises II: Java

(5:30 – 7:00 pm)

- Introduction to the JavaScript HL7 FHIR library
- Introduction to the JavaScript based NativeScript environment for cross platform app development
- Step-by-step implementation of a simple mobile app utilizing HL7 FHIR

## This Tutorial Will Benefit:

- Implementers with little to no previous HL7 FHIR experience, especially those who seek to participate in the HL7 FHIR Connectathon “German National Medication Plan” Track

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

- Understand the basic principles of HL7 FHIR
- Understand the basics of the German Medication Plan Project
- Know how to participate in the HL7 FHIR community
- Know common tools and programming languages to implement HL7 FHIR
- Have practiced the use of these tools

## Prerequisites:

- Bring your own laptop. Registered participants will receive a documentation of the technical prerequisites (development environment) in time before the tutorial via email

NOTE: The tutorial is only available in German

## Faculty:

*Simone Heckmann, Dipl. Inform. Med.:* Chair, Technical Committee on HL7 FHIR, HL7 Germany; Board Member, HL7 Germany; CTO, Gefyra GmbH; CEO Health-Comm GmbH

*Kai 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

*Stefan Lang, Dipl.-Ing. (FH):* Co-Chair, Technical Committee on HL7 FHIR, HL7 Germany; Lang Health IT Consulting; Gefyra GmbH

*Patrick Werner, M. Sc.:* Technical Committee on HL7 FHIR, HL7 Germany; Process and Interoperability Lab, Heilbronn University; Molit Institute

S1 **HL7 FHIR Connectathon**   
E Saturday, May 12 / 9:00 am – 10:00 pm  
Sunday, May 13 / 9:00 am – 5:00 pm

This connectathon runs all day Saturday and Sunday. Registration includes both lunch and dinner on Saturday and lunch on Sunday. Registrants should plan to attend the entire event; no partial registrations will be accepted.

A Fast Healthcare Interoperability Resources (HL7 FHIR®) Connectathon is an opportunity for implementers to participate in developing HL7 FHIR solutions and exchange data with other HL7 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 HL7 FHIR developers as well as senior members of the HL7 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 HL7 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\\_18](http://wiki.hl7.org/index.php?title=FHIR_Connectathon_18).

By registering for the connectathon, participants authorize HL7 International to share contact information (name, email and organization name) with the HL7 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 HL7 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 HL7 FHIR specification.

NOTE: If registering as a participant, you will be expected to write at least some software intended to demonstrate HL7 FHIR connectivity.

M1 **Introduction to HL7 FHIR**   
E Monday, May 14 / 1:45 pm – 5:00 pm

HL7 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 HL7 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 HL7 FHIR methodology
- Describe the characteristics of a HL7 FHIR resource and understand the contents of a resource definition

- Explain the relationship between HL7 FHIR and other HL7 standards such as Version 2, Version 3 messaging and the Clinical Document Architecture (CDA®)
- List some of the key HL7 FHIR infrastructure resources and explain how they are used to support the four HL7 FHIR interoperability paradigms
- Help their organization to determine if, when, where and how they might implement HL7 FHIR

**Faculty:**

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

## T4 Designing and Architecting HL7 FHIR Solutions

Tuesday, May 15 / 9:00 am – 12:30 pm

HL7 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 HL7 FHIR might fit into their healthcare interoperability environment and provide them with the tools they need to make judgments about when or if HL7 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:**

- Explain how HL7 FHIR may be used in different interoperability paradigms
- Describe how HL7 FHIR can fit in different locations in the architectural stack
- Identify architectural considerations that apply to HL7 FHIR and determine how best to address those in their own HL7 FHIR solutions
- Explain where and how profiles fit into an architectural solution
- Give guidance on if, when and how HL7 FHIR might be used within their own organization

**Prerequisites:**

- Introduction to HL7 FHIR or basic familiarity with the HL7 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.

## T5 Introduction to HL7 FHIR for Software Developers

Tuesday, May 15 / 9:00 am – 12:30 pm

This tutorial takes an in-depth look into the infrastructure sections of the HL7 FHIR specification. It will provide insight on how to design, develop and test software that uses the HL7 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 interoperability paradigms supported by HL7 FHIR
- Describe the HL7 FHIR REST service operations and how to implement them
- Explain how the XML and JSON wire formats are used in HL7 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:**

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

## T7 HL7 FHIR for Clinicians and Decision Makers

Tuesday, May 15 / 1:45 pm – 5:00 pm

This tutorial is aimed at the clinician rather than the technical user. It will describe where HL7 FHIR fits in the healthcare interoperability space and includes a high-level description of the specification. The tutorial will consist of practical exercises for attendees as well as presentation material.

# Tutorials

## This Tutorial Will Benefit:

- Clinicians and 'CxO' decision makers
- Technical people interested in the scope and place of HL7 FHIR rather than the deep details

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

- Understand how HL7 FHIR can benefit their organizations and to describe those advantages to others
- Know where to go to get more information

## Prerequisites:

- None, though an understanding of healthcare IT will be beneficial

## Faculty:

*David Hay, MD:* Co-Chair, HL7 FHIR Management Group; Product Strategist, Orion Healthcare

**T8** **HL7 FHIR Profiling** ★ ★ ★ ★  
**E** Tuesday, May 15 / 1:45 pm – 5:00 pm

HL7 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 HL7 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 HL7 FHIR

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

- Explain what the HL7 FHIR conformance layer is and how it is used to profile HL7 FHIR for a specific context or use case
- Describe the principal profiling components of the HL7 FHIR conformance layer
- Describe the available HL7 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 an HL7 FHIR value set and structure definition for a single resource
- Explain where and how to register and find existing conformance resources

## Prerequisites:

- An Introduction to HL7 FHIR

## Faculty:

*Michel Rutten:* Technical Specialist, Furore; Lead Developer of Forge; Editor, HL7 FHIR profile

**W10** **Clinical Genomics Using** ★ ★ ★  
**E** **HL7 FHIR**

Wednesday, May 16 / 9:00 am – 12:30 pm

HL7 FHIR enables a new class of clinical genomic apps for precision medicine. This tutorial will introduce HL7 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 HL7 FHIR genomics enables clinical genomics
- Use HL7 FHIR to create a simple clinical genomic app
- Deploy a simple HL7 FHIR clinical genomic app

## Prerequisites:

- There are no prerequisites for this tutorial; relevant HL7 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

**W11** **Clinical Documents** ★ ★ ★  
**E** **on HL7 FHIR**

Wednesday, May 16 / 9:00 am – 12:30 pm

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

## This Tutorial Will Benefit:

- CDA implementers wishing to move to HL7 FHIR and HL7 FHIR implementers wishing to learn about HL7 FHIR documents

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

- Explain the structure of HL7 FHIR documents
- Find and explain the C-CDA on HL7 FHIR profiles
- Strategize ways to move content between CDA and HL7 FHIR formats

**Prerequisites:**

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

**Faculty:**

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

## W13 Understanding and Using Terminology in HL7 FHIR ★ ★ ★ ★

Wednesday, May 16 / 1:45 pm – 5:00 pm

Terminology is a required foundational component for interoperable data exchange in HL7 FHIR and other clinical data standards. This tutorial takes an in-depth look at the use of standard terminologies within HL7 FHIR artifacts (datatypes, resources, profiles, etc.). The structures and use of the primary HL7 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 HL7 FHIR resources and profiles. The tutorial will also discuss how terminology content and capabilities are made accessible and usable within a HL7 FHIR terminology service. Live examples from HL7 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 HL7 FHIR terminology resources and datatypes
- Explain how the HL7 FHIR terminology resources and datatypes support the needs for coded data in other HL7 FHIR resources and profiles
- Use the primary HL7 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 HL7 FHIR terminology service

**Prerequisites:**

- Introduction to HL7 FHIR (or equivalent familiarity with the HL7 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)
- HL7 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, HL7 Orders and Observations and Structured Documents Work Groups; Principal, Hausam Consulting LLC

## W18 HL7 FHIR STU3 Proficiency Exam Review ★ ★ ★

Wednesday, May 16 / 1:45 pm – 5:00 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 exam takers to demonstrate their understanding of the fundamental concepts of HL7 FHIR and their proficiency with the HL7 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 HL7 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 HL7 FHIR specification

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

- Explain the structure of the HL7 FHIR specification
- Name, explain and discuss basic principles and central components of the HL7 FHIR specification
- Understand the format and coverage of the exam
- Practice answering test questions
- Identify areas for further study

**Prerequisites:**

- While there are no mandatory prerequisite classes, students preparing for the exam are advised to take introductory HL7 FHIR courses such as the HL7 FHIR Fundamentals course or introductory courses on the HL7 FHIR Track at HL7 working group meetings to provide context for this class and to better prepare for the exam

## Faculty:

*Simone Heckmann, Dipl. Inform. Med.:* Chair, Technical Committee on HL7 FHIR, HL7 Germany; Board Member, HL7 Germany; CTO, Gefyra GmbH; CEO, Health-Comm GmbH

### **HL7 FHIR for Clinical and Administrative Workflows**

Thursday, May 17 / 9:00 am – 12:30 pm

The tutorial will cover the existing HL7 FHIR structures and approaches for different types of workflows as well as the various capabilities available.

#### This Tutorial Will Benefit:

- Standards developers such as HL7 work group members and HL7 FHIR profile developers
- Integration and systems architects
- Clinical or administrative workflows subject matter experts

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

- Understand the purpose and intent behind the logical models for workflow patterns
- Describe at least three different mechanisms HL7 FHIR has that support workflow
- Explain what types of workflows require the use of the HL7 FHIR task
- List at least four considerations impacting on selection of workflow approach
- Analyze at least two sample workflow scenarios and identify how HL7 FHIR could be used to support those scenarios

#### Prerequisites:

- Knowledge of HL7 FHIR fundamentals, understanding the basics of healthcare workflows

#### Faculty:

*Vassil Peytchev, FHL7:* Lead Technical Adviser, Epic Systems Corporation; Recipient, HL7 Fellowship Award, September 2013

### **HL7 FHIR Using SMART & CDS Hooks**

Thursday, May 17 / 9:00 am – 12:30 pm

This tutorial will cover how HL7 FHIR can enable EHR systems to incorporate apps, decision support and other external content to provide more configurable solutions that can be customized to support clinician needs.

#### This Tutorial Will Benefit:

- Decision makers and software engineers

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

- Explain what SMART and CDS Hooks are and how they can be used within EHR systems
- Describe the business model for SMART and CDS integration
- Understand the security and privacy models for each
- Identify how SMART is currently being used by the community

#### Faculty:

*Josh Mandel, MD:* Lead Architect, SMART Platforms, Health IT Ecosystem Lead, Verily (Google Life Sciences)

*Kevin Shekleton:* Lead, CDS Hooks Project; VP and Distinguished Engineer, Cerner Corp

### **HL7 FHIR STU3 Proficiency Exam**

Thursday, May 17 / 2:00 pm – 4:00 pm

Health Level Seven International is pleased to offer the HL7 FHIR STU3 Proficiency Exam. This exam allows participants to demonstrate their knowledge and understanding of the HL7 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 HL7 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 HL7 FHIR education programs is recommended. HL7 offers a variety of HL7 FHIR education training modalities, including the in-person HL7 FHIR track at this meeting and other HL7 working group meetings, the online Fundamentals programs as well as the HL7 FHIR Institute webinar series. Participation in HL7 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.

## TRACK 2: CDA® &amp; C-CDA

**M2** **M3** **G** **E** **★ ★**  
**Introduction to Clinical Document Architecture**  
 Monday, May 14 / 1:45 pm – 5:00 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
- Explain the core structures of CDA and where they are appropriately used
- Interpret the CDA standard and existing CDA implementation guides

**Faculty:**

**German Version:** *Kai 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

**English Version:** *Calvin Beebe, FHL7:* Chair, HL7 International Board of Directors; Co-Chair, HL7 Structured Documents Work Group, Co-Editor, CDA; Technical Specialist, Mayo Clinic - Rochester, MN

**T9** **E** **★ ★**  
**Advanced Clinical Document Architecture**  
 Tuesday, May 15 / 1:45 pm – 5:00 pm

CDA implementation requires understanding of 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 walk-through of samples of CDA documents, coded using clinical statements.

**This Tutorial Will Benefit:**

- Those needing to learn more about CDA, Release 2 – its derivation from the RIM and issues relevant to implementing CDA 2.0 solutions
- Implementers needing to work with CDA and want a review of the details

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

- Describe CDA's components
- Share insights into the XML markup required to implement solutions
- Describe the issues surrounding semantic interoperability using CDA

**Faculty:**

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

**W15** **E** **★ ★ ★**  
**International Patient Summary**  
 Wednesday, May 16 / 1:45 pm – 5:00 pm

This tutorial will explore the new specification International Patient Summary (IPS) for a globally implementable, extensible, open and sustainable specification for a patient summary. The IPS set of implementation guides developed jointly by HL7 and CEN TC251 describes a clinically relevant, specialty-agnostic patient summary, expressed both as a CDA R2 document and HL7 FHIR profile. This tutorial will cover the goals, scenarios and pitfalls as well as describe the CDA R2 and HL7 FHIR guides. Additionally, it will highlight some examples of patient summaries based on this multinational effort.

**This Tutorial Will Benefit:**

- Healthcare providers, software architects, vendors and developers
- Regulators/governmental agencies

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

- Understand the vision and mission of the IPS
- Analyze the use cases and goals for the specification
- Know where to find specifications for the IPS
- Know how to use and participate in the definition of the specification
- Understand the vocabulary requirements and pitfalls
- Understand the similarities and differences between the HL7 FHIR and CDA R2 profiles for the IPS
- Analyze some examples of patient summaries based on this set of guides

## Faculty:

*Giorgio Cangioli, PhD:* Chair, HL7 Italy; Senior Consultant, HL7 International Foundation; Consultant, HL7 Italy; Affiliate Representative, HL7 Technical Steering Committee; Co-Facilitator, IT Project; Co-Facilitator, HL7 Project International Patient Summary

**TH18** **CDA Template Design in Theory and Practice** ★ ★ ★ ★  
**E** Thursday, May 17 / 9:00 am – 12:30 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 Consolidated CDA (C-CDA) library for easy template re-use.

### 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 standards for trial use (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 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 3: Special Interest Topics

**T6** **Overview of HL7 Standards for Interoperability** ★ ★  
**E** Tuesday, May 15 / 9:00 am – 12:30 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 the Clinical Document Architecture (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 need to understand how and when each standard is used and how standards can be used 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

**W12** **IHE on HL7 FHIR** ★ ★  
**E** Wednesday, May 16 / 9:00 am – 12:30 pm

This tutorial will enable discovery of the IHE profiles using HL7 FHIR. The session will cover a range of mobile applications (alert communication, care services discovery, medication management, etc.), as well as classical IHE domains like patient demographic query and cross referencing, access to documents and audit trail. It will also cover completely new domains, such as inter-facility patient transport, vital records reporting, dynamic care planning, team management and more.

**This Tutorial Will Benefit:**

- Software architects, vendors and developers
- Individuals interested in software procurement

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

- Understand the use of profiles (and specifically IHE profiles)
- Know which new IHE profiles are based on HL7 FHIR
- Know where to find the IHE profiles based on HL7 FHIR and how to use them
- Understand the common guidance for the IHE use of HL7 FHIR (Appendix Z)
- Know how and when to test HL7 FHIR based products for IHE profiles
- Know the differences between classic and HL7 FHIR based IHE profiles

**Faculty:**

*John Moehrke:* Co-Chair, HL7 Security Work Group; Member, HL7 FHIR Management Group; Co-Chair, IT Infrastructure Planning Committee, IHE; Standards Architect, By Light Professional IT Services, Inc.

## International Mobile Health Standards (HL7, IEEE, ISO/TC215)

Thursday, May 17 / 1:45 – 5:00 pm

The rising cost of healthcare throughout the world has created an urgency to improve healthcare productivity and quality. This sense of urgency has led to the development of new healthcare delivery models, broad organizational restructuring, and the redesign of healthcare business and clinical processes. Not only are these changes redefining the healthcare environment, they are also creating a demand for a new healthcare information infrastructure.

For the past decade, a phenomenal rise of mobile devices and smart phones usage globally is redefining how we access and provide care. Mobile technology is the “lifeline” of the current (and future!) generation. Today’s commercially available mobile devices are handheld computing platforms with capabilities that outpace the features present in any laptop or desktop machine of yesteryears. Mobile devices of the 21st century now have features like wireless capability, Bluetooth, touchscreen, geographic localization or GPS, camera, video, microphone, gyroscope, accelerometer, infrared sensor, flashlight and fingerprint scanner.

In this tutorial, we journey the world of Standards Development Organizations (such as HL7, IEEE and ISO) and the emerging standards in mobile health.

**This Tutorial Will Benefit:**

- Mobile health app developers around the globe
- EHR vendors that are looking to expand into mobile health market
- Providers who will, one day, prescribe mobile health apps to their patients
- Payers who will, one day, cover the purchase of mobile health apps by patients
- Consumers who are looking into using/purchasing a mobile health app
- Governments and stakeholders that are looking to develop a certification program for mobile health apps
- Policy makers who are looking to develop telehealth policies

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

- Explain what mobile health encompasses
- Understand the evolution of paper to digital transition in healthcare
- Learn about the emerging HL7 mobile health standards
- Explain what is HL7 cMHAFF (consumer Mobile Health Application Functional Framework)
- Explain what is HL7 mFHAFF (mobile Framework for Healthcare Adoption of Short-Message Technologies)
- List the various IEEE 11073 standards

**Faculty:**

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

## TRACK 4: HL7 Information Forums (Free)

### Orientation for First-Time Attendees – FREE TUTORIAL

Sunday, May 13 / 3:00 pm – 4:00 pm  
Monday, May 14 / 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 overview 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 afternoon and again on Monday morning.

**Faculty:**

*Ken McCaslin, FHL7:* Co-Chair, HL7 Orders and Observations Work Group; Past Chair, HL7 Technical Steering Committee; Past Board Member, HL7 International; Past Steering Division Co-Chair, HL7 Technical Steering Committee; Co-Chair, LRI/LOI IG Work Group

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



Sunday, May 13 / 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:

*Ken McCaslin, FHL7: Co-Chair, HL7 Orders and Observations Work Group; Past Chair, HL7 Technical Steering Committee; Past Board Member, HL7 International; Past Steering Division Co-Chair, HL7 Technical Steering Committee; Co-Chair, LRI/LOI IG Work Group*

## ISO IDMP, Substances and Allergies – FREE TUTORIAL



Monday, May 14 / 7:00 am – 8:00 am

The ISO IDMP (Identification of Medicinal Product) standards have been revised, completed, and are now entering in their implementation phases (especially in Europe and in synchronization 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
- HL7 experts 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*

## Incorporating SNOMED CT Concepts in HL7 Standards – FREE TUTORIAL



Tuesday, May 15 / 7:00 am – 8:00 am

Want to use SNOMED CT content in a standard, or need additions to SNOMED CT content for your standard to function as needed—we will go through the process for inclusion and for requests for change—make sure you know what is needed BEFORE you go to harmonization.

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:

- All who develop HL7 standards with content from external terminology systems
- Those who prepare harmonization proposals which include such content

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

- Understand what USE of SNOMED CT means and implies
- Use and maintain the appropriate version of SNOMED CT in your standard
- Analyze when a request for change to SNOMED CT is needed
- Be able to request changes, additions or promotion of SNOMED CT content for HL7 use case
- Know licensing basics for SNOMED CT use in HL7 standards and information exchange
- Know where to go if you have additional questions on:
  - SNOMED CT code selection and use
  - SNOMED CT licensing for HL7 use
  - SNOMED CT international relationships with HL7 International
- What you need for HL7 harmonization involving SNOMED CT concepts

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*

**F6** **Work Group Facilitator Training Workshop – FREE TUTORIAL** ★

**E**

Wednesday, May 16 / 7:00 am – 8:00 am

This tutorial provides the skills required to be an effective HL7 work group facilitator. The role of the facilitator is to encourage full participation, promote mutual understanding, and foster participatory decision making.

**This Tutorial Will Benefit:**

- Anyone who wants to improve their knowledge and skills in facilitating HL7 work group meetings and calls. In particular, current facilitators and work group chairs

**Upon Completions of This Tutorial, Students Will Know:**

- Various facilitator roles within HL7
- The dynamics of group decision making
- Facilitative listening skills
- How to deal with difficult dynamics
- Principles for building sustainable agreements

**Faculty:**

*AbdulMalik Shakir, FHL7: President and Chief Informatics Scientist, Hi3 Solutions; Principal Consultant, Shakir Consulting*

**F7** **GS1 Standards for Supply Chain Meets HL7 – FREE TUTORIAL** ★

**E**

Wednesday, May 16 / 7:00 am – 8:00 am

This session will offer 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.

**This Tutorial Will Benefit:**

- The reference documentation should be downloaded prior the tutorial from: <http://bit.ly/GS1andHL7>
- It is also useful to have consulted the following documentation:
  - Information about EPC IS: [www.gs1.org/epcis](http://www.gs1.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*

**F8** **Newly Elected Co-Chair Training – FREE TUTORIAL** ★ ★ ★ ★

**E**

Thursday, May 17 / 7:00 am – 8:00 am

This session 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*

**F9** **How to Develop and Teach a Tutorial – FREE TUTORIAL** ★

**E**

Thursday / May 17, 7:00 am – 8:00 am

This is a free session for those who develop or deliver HL7 tutorials and are looking for guidance on how to make improvements or get assistance with the development of training specifications or plans and materials. Please plan to bring your ideas, issues and documents with you to this session.

**This Tutorial Will Benefit:**

- Tutorial presenters and developers

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

- Submit quality tutorial proposals and plans
- Improve presentations in HL7 tutorial
- Improve learning outcomes of HL7 tutorials

**Prerequisites:**

- How to Design and Deliver an HL7 Tutorial

**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*

Topic	Class ID	Instructor	FRI	SUN	MON AM	MON PM	TUE AM	TUE PM	WED AM	WED PM	THU AM	THU PM
<b>Track 1—HL7 FHIR®</b>												
Introduction to HL7 FHIR, Introduction to German Medication Therapy Plan Profiles & Implementation Workshop (German)	FR1	Heckmann/Lang/ Werner	12-7pm									
HL7 FHIR Connectathon	S1	McKenzie/Kramer/ Grieve		Sat-Sun								
Introduction to HL7 FHIR	M1	Smithies				★						
Designing and Architecting HL7 FHIR Solutions	T4	McKenzie					★					
Introduction to HL7 FHIR for Software Developers	T5	Smithies					★					
HL7 FHIR for Clinicians and Decision Makers	T7	Hay						★				
HL7 FHIR Profiling	T8	Rutten						★				
Clinical Genomics Using HL7 FHIR	W10	Altervoitz							★			
Clinical Documents on HL7 FHIR	W11	Geimer							★			
Understanding and Using Terminology in HL7 FHIR	W13	Hausam								★		
HL7 FHIR STU3 Proficiency Exam Review	W14	Heckmann								★		
HL7 FHIR for Clinical and Administrative Workflows	TH16	Peytchev									★	
HL7 FHIR Using SMART & CDS Hooks	TH17	Mandel/Shekelton									★	
HL7 FHIR STU3 Proficiency Exam	TH19	Staff										2-4
<b>Track 2—CDA® &amp; C-CDA</b>												
Introduction to Clinical Document Architecture (German)	M2	Heitmann				★						
Introduction to Clinical Document Architecture (English)	M3	Beebe				★						
Advanced CDA	T9	Marquard						★				
International Patient Summary	W15	Cangioli								★		
CDA Template Design in Theory and Practice	TH18	Heitmann/Geimer									★	
<b>Track 3—General Interest &amp; Special Topics</b>												
Overview of HL7 Standards for Interoperability	T6	Kaminker					★					
IHE on HL7 FHIR	W12	Moehrke							★			
International Mobile Health Standards (HL7, IEEE, ISO/TC215)	TH20	Datta										★
<b>Track 4—HL7 Information Forums—FREE TUTORIALS</b>												
Orientation for First-Time Attendees	F1/F3	McCaslin		3-4pm	7-8							
Understanding the HL7 International Organization – From Process to Governance	F2	McCaslin		4-5pm								
ISO IDMP, Substances and Allergies	F4	Hay/Telonis			7-8							
Incorporating SNOMED CT Concepts in HL7 Standards	F5	Grain					7-8					
Committee Facilitator Training Workshop	F6	Shakir							7-8			
GSI Standards for Supply Chain Meets HL7	F7	Hay							7-8			
Newly Elected Co-Chair Training	F8	Van Hentenryck									7-8	
How to Develop and Teach a Tutorial for HL7	F9	Grain									7-8	

	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 May											
Aging in Communities: ISO/TC215 Task Force											★	★
Anesthesia			Q2	★	★	★	★	★	★	★	★	★
Architectural Review Board	Q2		7:00-8:00 & Q2									
Arden Syntax			Q2	★	Q1					Q3		
Attachments				★	Q2	★						
Biomedical Research & Regulation				★	★	★	★	★	★	★		
Board of Directors' Meeting						Lunch & ★						
CDA Management Group				Q4	★	★	★	★				
Clinical Decision Support				Q4	★	★	★					
Clinical Genomics				★	★	★	★	★				
Clinical Information Modeling Initiative				★	★	Lunch & ★	Q1	★	★	★		
Clinical Interoperability Council				Q3	Q2	Q3	Q1			Q4		
Clinical Quality Information			Q2	★	★	★	★	★				
Clinical Statement										Q3		
Clinicians on FHIR								Lunch				
Co-Chair Information				5:15-7:00					7:00-8:00			
Community-Based Care and Privacy				★	Q2	★	Q1	★	★			
Conformance			Q2	★	★	Q3		Q3	★			
Education				Lunch & ★			★					
Electronic Health Records			Q2	★	★	★	★	★	★	★		
Electronic Services and Tools						Q4				Q4		
Emergency Care				Q4	Q1	Q4		Q4		Q3		
Facilitators' Roundtable Dinner/Meeting										5:30-6:30		
FHIR Connectathon (Note: There is also a meeting scheduled for Saturday, 9/10/2018, 5:00-10:00 pm)	★	★										
FHIR Infrastructure			7:00-8:00 & Q2	★ & 6:00-7:00	★	★	★	★	★	Q3 & 5:30-6:30		
FHIR Management Group		Lunch		Lunch						Q4		
Financial Management			Q2	Q4		Q3	★	★	★			
General Session					8:00-8:45		8:00-8:45		8:00-8:45			
Governance and Operations Committee					Q2							
HL7 Terminology Authority	Q2											
Health Care Devices			Q2	★	★	★	★	★	★	★		
Healthcare Standards Integration	Will not meet in May											
Imaging Integration				Q4	★	★	Q1	★				
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; ★ AM = 9:00 am - 12:30 pm; ★ PM = 1:45 - 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					Q1		
International Council		Lunch & ★								Lunch & ★		
Learning Health Systems					Q1			Q3	Q1	Q4		
Mobile Health					Q1	5:15-6:15	★	Q3				
Modeling & Methodology				★			★	Q3		5:30-8:00		
Networking Reception						6:00-8:00						
Nurses Breakfast/Meeting					7:00-8:00							
Orders & Observations			Q2	★	★	★	★	★	★	Q4		
Patient Administration			Q2	★	★	★	★	★	★	★		
Patient Care			Q2	★	★	★	★	★	★	Lunch & ★		
Pharmacy			Q2	★	★		★	★	★			
Physicians Breakfast/Meeting							7:00-8:00					
Plenary Meeting			8:30-10:30									
Policy Advisory Committee	Will not meet in May											
Process Improvement Committee	Will not meet in May											
Product Line Architecture Program											8:00-9:00	
Project Services										Q3		
Public Health			Q2	★	★	★	★	★	★	Q3		
Publishing				Q3			★					
Security				★	★	★	Q1	★	★			
Services Oriented Architecture				★	★	★	★	★				
Standards Governance Board	Q2										★	
Steering Divisions: Administrative Steering Division Clinical Steering Division Infrastructure Steering Division Organizational Support Steering Divisions				7:00-8:30								
Structured Documents			Q2	★	★	★	★	★	★	★		
Technical Steering Committee Meetings (Note: There is also a meeting scheduled for Saturday, 5/6, 9:00-5:00 pm)		5:15-6:15	7:00-8:00	5:15-6:15				Lunch			8:00-9:00	
Templates			Q2						Q2		Q1	
US Realm Steering Committee							7:00-8:00					
Vocabulary		Q4	Q2	★	★	★	★	★	★	★ & 5:30-6:30		

Q1 = 9:00 - 10:30 am; Q2 = 11:00 - 12:30 pm; Q3 = 1:45 - 3:00 pm; Q4 = 3:30 - 5:00 pm; ★ AM = 9:00 am - 12:30 pm; ★ PM = 1:45 - 5:00 pm

DISCLAIMER: Meeting times are subject to change.

# HL7 Working Group Meetings

## REGISTRATION HOURS

Saturday	8:30 - 1:00 pm	Registration
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

Saturday—Friday	10:30 - 11:00 am	Morning Break
Saturday—Friday	12:30 - 1:30 pm	Lunch
Saturday—Thursday	3:00 - 3:30 pm	Afternoon Break

Meeting times and locations are subject to change.

## 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 - 10:30 am	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	

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 (ADDC)

Will not meet in May

### AGING IN COMMUNITIES: ISO/TC215 TASK FORCE

Friday 9:00 - 5:00 pm MEETING

### ANESTHESIA (GAS)

Monday 11:00 - 5:00 pm MEETING

Tuesday—Friday 9:00 - 5:00 pm MEETING

### ARCHITECTURAL REVIEW BOARD (ARB)

Sunday 11:00 - 12:30 pm Hosting: SGB

Monday 7:00 - 8:00 am Joint w/TSC, FHIR-I  
11:00 - 12:30 pm MEETING

Thursday 1:45 - 3:00 pm MEETING

### ARDEN SYNTAX (AS)

Monday 11:00 - 5:00 pm MEETING

Tuesday 9:00 - 10:30 am Joint w/CDS

### ATTACHMENTS

Monday 1:45 - 5:00 pm MEETING

Tuesday 11:00 - 5:00 pm MEETING

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

Monday 1:45 - 5:00 pm MEETING

Tuesday—Thursday 9:00 - 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, FM, II, InM, MnM, O&O, PC

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 pm Joint w/CQI, CIMI

11:00 - 12:30 pm Joint w/CQI

1:45 - 3:00 pm Joint w/CQI, O&O, PC

3:30 - 5:00 pm Hosting: CIMI, CQI

### CDA MANAGEMENT GROUP

Monday 3:30 - 5:00 pm MEETING

### 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)

Monday 1:45 - 3:00 pm Joint w/CQI, O&O

3:30 - 5:00 pm MEETING

Tuesday 9:00 - 10:30 am Joint w/PC, EC, LHS

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, Voc

Wednesday 9:00 - 10:30 am Joint w/CQI, CDS

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

3:30 - 5:00 pm Joint w/O&O

### CLINICAL INTEROPERABILITY COUNCIL (CIC)

Monday 1:45 - 3:00 pm Joint w/EHR

Tuesday 11:00 - 12:30 pm Joint w/EHR

1:45 - 3:00 pm MEETING

Wednesday 9:00 - 10:30 am MEETING

Thursday 3:30 - 5:00 pm Joint w/LHS, PC

### CLINICAL QUALITY INFORMATION (CQI)

Monday 11:00 - 12:30 pm MEETING

1:45 - 3:00 pm Joint w/CIMI, O&O

3:30 - 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

**CQI (continued)**

Wednesday	9:00 - 10:30 am	Hosting: CDS, CIMI
	11:00 - 12:30 pm	Hosting: CDS
	1:45 - 3:00 pm	Joint w/CDS, O&O, PC
	3:30 - 5:00 pm	Joint w/CDS, CIMI

**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
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**CO-CHAIR INFORMATION**

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

**COMMUNITY BASED CARE AND PRIVACY (CBCP)**

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

**CONFORMANCE (CGIT)**

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

**EDUCATION**

Monday	12:30 - 1:30 pm	Education Facilitators' Roundtable Luncheon/Meeting
	1:45 - 5:00 pm	MEETING
Wednesday	9:00 - 12:30 pm	MEETING

**ELECTRONIC HEALTH RECORDS (EHR)**

Monday	11:00 - 12:30 pm	MEETING
	1:45 - 3:00 pm	Hosting: CIC
	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: CBCP, Sec
	11:00 - 5:00 pm	MEETING
Thursday	9:00 - 5:00 pm	MEETING

**ELECTRONIC SERVICES AND TOOLS (EST)**

Tuesday	3:30 - 5:00 pm	MEETING
Thursday	3:30 - 5:00 pm	MEETING

**EMERGENCY CARE (EC)**

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

**FACILITATORS' ROUNDTABLE MEETING**

Thursday	5:30 - 6:30 pm	Hosting: FHIR-I, MnM, Voc
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**FHIR CONNECTATHON**

Saturday	9:00 - 10:00 pm	MEETING
	12:30 - 1:30 pm	Luncheon
Sunday	9:00 - 5:00 pm	MEETING
	12:30 - 1:30 pm	Luncheon

**FHIR INFRASTRUCTURE (FHIR-I)**

Monday	7:00 - 8:00 am	Joint w/TSC, ArB
	11:00 - 3:00 pm	MEETING
	3:30 - 5:00 pm	Joint w/ClinGen
	3:30 - 5:00 pm	Joint w/PH
	3:30 - 5:00 pm	Hosting: CDS, FM, II, InM, MnM, O&O, PC
	6:00 - 7:00 pm	MEETING
Tuesday	9:00 - 10:30 am	Joint w/ITS
	9:00 - 10:30 am	Joint w/PA
	9:00 - 10:30 am	Joint w/SD
	11:00 - 5:00 pm	MEETING
	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/CDS, CQI
	1:45 - 3:00 pm	Joint w/PC
Wednesday	9:00 - 10:30 am	Joint w/Voc, MnM
	9:00 - 12:30 pm	MEETING
	1:45 - 3:00 pm	Joint w/MnM
	1:45 - 3:00 pm	Joint w/Sec
	1:45 - 3:00 pm	Joint w/CGIT
	3:30 - 5:00 pm	Joint w/FM
	3:30 - 5:00 pm	Joint w/II
Thursday	9:00 - 10:30 am	Joint w/Dev
	9:00 - 3:00 pm	MEETING
	11:00 - 12:30 pm	Joint w/CBCP
	11:00 - 12:30 pm	Joint w/O&O
	5:30 - 6:30 pm	Facilitators' Roundtable Meeting - Joint w/MnM, Voc

**FHIR MANAGEMENT GROUP (FMG)**

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

# Meetings

## FINANCIAL MANAGEMENT (FM)

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

## GOVERNANCE AND OPERATIONS (GOC)

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

Sunday	11:00 - 12:30 pm	MEETING
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## HEALTH CARE DEVICES (DEV)

Monday	11:00 - 5:00 pm	MEETING
Tuesday—Wednesday	9:00 - 5:00 pm	MEETING
Thursday	9:00 - 10:30 am	Hosting: FHIR-I
	11:00 - 5:00 pm	MEETING

## HEALTHCARE STANDARDS INTEGRATION WORK GROUP (HSI)

Will not meet in May

## IMAGING INTEGRATION (II)

Monday	3:30 - 5:00 pm	Joint w/FHIR-I, CDS, FM, InM, MnM, O&O, PC
Tuesday	9:00 - 5:00 pm	MEETING
Wednesday	9:00 - 10:30 am	MEETING
	1:45 - 3:00 pm	MEETING
	3:30 - 5:00 pm	Hosting: FHIR-I

## 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/FHIR-I, CDS, FM, II, MnM, O&O, PC
Tuesday	9:00 - 10:30 am	MEETING
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)

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

## MOBILE HEALTH (MH)

Tuesday	9:00 - 10:30 am	Joint w/EHR
	5:15 - 6:15 pm	MEETING
Wednesday	9:00 - 3:00 pm	MEETING

## MODELING AND METHODOLOGY (MNM)

Monday	1:45 - 3:00 pm	MEETING
	3:30 - 5:00 pm	Joint w/FHIR-I, CDS, FM, II, InM, O&O, PC
Wednesday	9:00 - 10:30 am	Joint w/Voc, FHIR-I
	11:00 - 12:30 pm	Joint w/Voc
	1:45 - 3:00 pm	Hosting: FHIR-I
Thursday	5:30 - 6:30 pm	Facilitators' Roundtable Meeting - Joint w/FHIR-I, Voc

## NETWORKING RECEPTION

Tuesday	6:00 - 8:00 pm	RECEPTION
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## NURSES BREAKFAST/MEETING

Tuesday	7:00 - 8:00 am	MEETING
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## ORDERS AND OBSERVATIONS (O&O)

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

## PATIENT ADMINISTRATION (PA)

Monday	11:00 - 12:30 pm	Hosting: FM
	1:45 - 5:00 pm	MEETING
Tuesday	9:00 - 10:30 am	Hosting: FHIR-I
	11:00 - 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	11:00 - 3:00 pm	MEETING
	3:30 - 5:00 pm	Joint w/FHIR-I, CDS, FM, II, InM, MnM, O&O
Tuesday	9:00 - 10:30 am	Hosting: CIMI, EC, LHS
	11:00 - 12:30 pm	MEETING
	1:45 - 3:00 pm	Hosting: FHIR-I
	3:30 - 5:00 pm	Hosting: CIMI, Voc
Wednesday	9:00 - 10:30 am	MEETING
	11:00 - 12:30 pm	Joint w/PA
	1:45 - 3:00 pm	Joint w/CDS, CQI, O&O
	3:30 - 5:00 pm	MEETING

**PC (continued)**

Thursday 9:00 - 10:30 am Hosting: LHS  
 11:00 - 12:30 pm Hosting: Templates  
 12:30 - 1:30 pm Luncheon/Meeting  
 1:45 - 3:00 pm MEETING  
 3:30 - 5:00 pm Joint w/LHS, CIC

**PHARMACY (PHARM)**

Monday 11:00 - 5:00 pm MEETING  
 Tuesday 9:00 - 10:30 am MEETING  
 11:00 - 12:30 pm Hosting: FHIR-I  
 Wednesday 9:00 - 5:00 pm MEETING  
 Thursday 9:00 - 12:30 pm MEETING

**PHYSICIANS BREAKFAST MEETING**

Wednesday 7:00 - 8:00 am MEETING

**POLICY ADVISORY COMMITTEE (PAC)**

Wednesday 9:00 - 10:30 am MEETING

**PROCESS IMPROVEMENT (PIC)**

Will not meet in May

**PRODUCT LINE ARCHITECTURE PROGRAM (PLA)**

Friday 8:00 - 9:00 am MEETING (TSC)

**PROJECT SERVICES**

Thursday 1:45 - 3:00 pm MEETING

**PUBLIC HEALTH (PH)**

Monday 11:00 - 3:00 pm MEETING  
 3:30 - 5:00 pm Hosting: FHIR-I  
 Tuesday—Wednesday 9:00 - 5:00 pm MEETING  
 Thursday 9:00 - 3:00 pm MEETING

**PUBLISHING**

Monday 1:45 - 3:00 pm MEETING  
 Wednesday 9:00 - 12:30 pm MEETING

**SECURITY (SEC)**

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

**SERVICES ORIENTED ARCHITECTURE (SOA)**

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

**STANDARDS GOVERNANCE BOARD (SGB)**

Sunday 11:00 - 12:30 pm Joint w/ARB  
 Friday 9:00 - 12:30 pm MEETING

**STEERING DIVISIONS**

Monday 7:00 - 8:30 pm Administrative Steering Division  
 Clinical Steering Division  
 Infrastructure Steering Division  
 Organizational Support Steering Division

**STRUCTURED DOCUMENTS (SD)**

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

**TECHNICAL STEERING COMMITTEE (TSC)**

Saturday 9:00 - 12:30 pm MEETING  
 12:30 - 1:30 pm Luncheon/Meeting  
 1:45 - 5:00 pm MEETING  
 Sunday 5:15 - 6:15 pm MEETING  
 Monday 7:00 - 8:00 am Hosting: ArB  
 5:15 - 6:15 pm MEETING  
 Wednesday 12:30 - 1:30 pm Luncheon/Meeting  
 Friday 8:00 - 9:00 am MEETING (PLA)

**TEMPLATES**

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

**US REALM STEERING COMMITTEE**

Wednesday 7:00 - 8:00 am MEETING

**VOCABULARY (VOC)**

Sunday 3:30 - 5:00 pm MEETING  
 Monday 11:00 - 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  
 Wednesday 9:00 - 10:30 am Hosting: FHIR-I, MnM  
 11:00 - 12:30 pm Hosting: MnM  
 1:45 - 5:00 pm MEETING  
 Thursday 9:00 - 10:30 am Hosting: CGIT, InM  
 11:00 - 12:30 pm Hosting: CGIT  
 1:45 - 3:00 pm Hosting: CIMI  
 3:30 - 5:00 pm MEETING  
 5:30 - 6:30 pm Facilitators' Roundtable Meeting - Joint w/FHIR-I, MnM

## “EARLY BIRD” RATE DEADLINE

Advance meeting registration, including payment, is required by **April 17, 2018** to receive the discounted rates. Otherwise the full fee structure will apply. Consult the registration form (pages 25–27) for a schedule of meeting fees.

## TO REGISTER

Please complete the registration form on pages 25–27 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 **April 24, 2018**. 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 27 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 canceled, 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 are included with your hotel registrations. **HL7 will NOT be providing a continental breakfast buffet on any day.** For those staying at that Maritim Hotel, your breakfast is free with your hotel registration. At the Maritim, continental breakfast buffet will be served from 6:30 am until 10:30 am Monday – Saturday, Sundays until 11:00 am.

Refreshment breaks and lunches are included in the meeting registration fee and will be provided for registered attendees on the days that they register, Saturday 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’s May Working Group Meeting will be held at the Maritim Hotel.

MARITIM HOTEL KÖLN  
Heumarkt 20  
50667 Cologne  
Germany  
Phone: +49 (0) 221 2027-0  
Fax: +49 (0) 221 2027-826  
[www.maritim.de](http://www.maritim.de)  
[info.kol@maritim.de](mailto:info.kol@maritim.de)

To reserve your room, the hotel has set up a special website registration process for HL7 attendees. HL7 attendees should log on to: <http://bit.ly/MayWGM18>

Please note the group rate rooms are run of the house, which means the room type is based on the best available at check in, not prior to arrival. You will see the room type on the registration form, but it is only a request. Requests will be noted and based on availability.

You can call the hotel directly at +49 221 202 70 and ask for reservations. Be sure to mention Health Level Seven to receive the discounted room rate of 139€ per night single or 178€ double occupancy. Remember, space is limited, so reserve your room early. Discounted room rates are

## General Information

available only on reservations made before April 15, 2018. Room rates are subject to all applicable state and local taxes in effect at time of check in.

Government rates are available but are valid by request and availability only. Those rates will be 12% off of the regular room rates, and the hotel should be contacted directly for government rates.

If you need to cancel your room reservation, please do so seven (7) days prior to your arrival date. If you cancel within the seven days, you will be charged one night reservation fee.

### GROUND TRANSPORTATION

The Maritim is approximately nine miles/ 20km from the Cologne/Bonn Airport.

#### APPROXIMATE TAXI COSTS

- from Cologne Airport: 25 - 30€
- from Cologne Train Station: 7 - 10€
- from Düsseldorf Airport: 100 - 110€

**SUBWAY** — Meeting attendees can also use the subway, but it is a bit complicated. The correct stop is called “Heumarkt” (not to be confused with “Neumarkt” which is another subway stop).

From Cologne Airport, meeting attendees need to take Subway S13 to Cologne Main Train Station and then U16, U17, U18 or U19 to “Neumarkt” and then change again to U1, U7, U8 or U9 to “Heumarkt” (= next stop) The Maritim is located directly at the Subway Stop “Heumarkt”. Another route you can take is S13 from the airport to station “Bahnhof Köln Messe Deutz” and then change into U1 (direction: Weiden) or U9 (direction: Sülz) until “Heumarkt.”

The cost of the subway from Cologne Airport to the hotel is 2,30€. From Cologne Main Train Station to “Heumarkt,” the cost is 1,40€ (short distance ticket called “Kurzstrecke”).

From Düsseldorf Airport, meeting attendees pay 18€ (that is by IC or ICE train.)

From Cologne Airport there is also an ICE connection which costs 12€.

Please note that the IC or ICE trains go until Cologne Main Train Station, but not the “Heumarkt” Station. Attendees need to take a taxi or the subway from the Main Train Station.

#### HOTEL PARKING

- Parking at the Maritim costs 2,40€ per hour / 21€ 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!

# HL7<sup>®</sup> FHIR<sup>®</sup> DevDays 2018

## Learn | Code | Share

June 19-20, 2018

Boston, MA

Learn more: [HL7.me/fhirdevdays](http://HL7.me/fhirdevdays)



ORGANIZED BY



firely

# Meeting Registration Form

## 1. Contact Information

End of day on April 17, 2018 is the deadline for Early Bird fees. All advance registrations must be received by end of day on April 24, 2018. After this date, registrations can ONLY be made on-site with payment.

First Name \_\_\_\_\_ Last Name \_\_\_\_\_

Title/Position \_\_\_\_\_ Organization \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State/Region \_\_\_\_\_ Postal Code \_\_\_\_\_

Country \_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_

Email \_\_\_\_\_ Nickname for Badge \_\_\_\_\_

## 2. Survey & Information

**I am a/an:**  Affiliate Chair  Past Board Chair  Tutorial Speaker  
 First-Time WGM Attendee  Plenary Speaker  
 HL7 Board Member  Student

**Primary employment type:**  Academia  Consultant  Government  Healthcare Professional  
 Payer  Pharmacy  Provider  Vendor  
 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, 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)

### 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		Amount Due
	Before 4/17	After 4/17	Before 4/17	After 4/17	
<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"/> \$965	<input type="checkbox"/> \$1,255	<input type="checkbox"/> \$1,450	<input type="checkbox"/> \$1,880	\$ _____
<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"/> \$810	<input type="checkbox"/> \$1,100	<input type="checkbox"/> \$1,215	<input type="checkbox"/> \$1,650	\$ _____
<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"/> \$230/day	<input type="checkbox"/> \$305/day	<input type="checkbox"/> \$345/day	<input type="checkbox"/> \$460/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		Amount Due
	Before 4/17	After 4/17	Before 4/17	After 4/17	
<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. 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 prior to registration. Venue constraints may limit HL7's ability to meet special requests. Lunch and dinner will be provided on Saturday; lunch will be provided on Sunday for FHIR Connectathon participants.	<input type="checkbox"/> Participant: \$450 <input type="checkbox"/> Observer: \$550	<input type="checkbox"/> Participant: \$595 <input type="checkbox"/> Observer: \$695	<input type="checkbox"/> Participant: \$550 <input type="checkbox"/> Observer: \$650	<input type="checkbox"/> Participant: \$695 <input type="checkbox"/> Observer: \$795	\$ _____

<b>Networking Reception:</b> The Tuesday reception is located on the 28th floor of the nearby KölnSKY where we will enjoy breathtaking views of Cologne. Appetizers and cocktails are included. This event requires meeting registration to attend. Please be sure to register for Tuesday above.	<input type="checkbox"/> \$35/person	<input type="checkbox"/> \$35/person	\$ _____
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I plan to attend the **International Council Meeting** (Sunday).  
 A lunch ticket will be included in your registration packet.

**Deadline for Discounted Rates:** Payment must be received by April 17, 2018 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

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.

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

Please note that in order to attend any tutorials you must pay two fees: (1) daily meeting fee for the day of the tutorial, and (2) tutorial registration fee.

Members		Non-Members		AMOUNT DUE
Before 4/17	After 4/17	Before 4/17	After 4/17	

### Friday, May 11

**Track 1—HL7 FHIR:** Intro to HL7 FHIR, Intro to German Medication Therapy Plan Profiles & Implementation (FRI)  \$300  \$450  \$450  \$600 \$ \_\_\_\_\_

### Sunday, May 13

**Track 4—HL7 Process:** First-Time Attendees' Orientation — FREE TUTORIAL (F1) — Must sign up to attend this tutorial (Please check the box.)

**Track 4—HL7 Process:** Understanding the HL7 International Organization — FREE TUTORIAL (F2) — Must sign up to attend this tutorial (Please check the box.)

### Monday, May 14

#### Morning Sessions

**Track 4—HL7 Process:** First-Time Attendees' Orientation — FREE TUTORIAL (F3) — Must sign up to attend this tutorial (Please check the box.)

**Track 4—HL7 Process:** ISO IDMP, Substances and Allergies — FREE TUTORIAL (F4) — Must sign up to attend this tutorial (Please check the box.)

#### Afternoon Sessions

**Track 1—HL7 FHIR:** Introduction to HL7 FHIR (M1)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

**Track 2—CDA and C-CDA:** Introduction to Clinical Document Architecture - German (M2)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

**Track 2—CDA and C-CDA:** Introduction to Clinical Document Architecture - English (M3)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

### Tuesday, May 15

#### Morning Sessions

**Track 4—HL7 Process:** Incorporating SNOMED CT Concepts in HL7 Standards — FREE TUTORIAL (F5) — Must sign up to attend this tutorial (Please check the box.)

**Track 1—HL7 FHIR:** Designing and Architecting HL7 FHIR Solutions (T4)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

**Track 1—HL7 FHIR:** Introduction to HL7 FHIR for Software Developers (T5)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

**Track 3—Special Interest:** Overview of HL7 Standards for Interoperability (T6)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

#### Afternoon Sessions

**Track 1—HL7 FHIR:** HL7 FHIR for Clinicians and Decision Makers (T7)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

**Track 1—HL7 FHIR:** HL7 FHIR Profiling (T8)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

**Track 2—CDA and C-CDA:** Advanced CDA (T9)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

### Wednesday, May 16

#### Morning Sessions

**Track 4—HL7 Process:** Committee Facilitator Training Workshop — FREE TUTORIAL (F6) — Must sign up to attend this tutorial (Please check the box.)

**Track 4—HL7 Process:** GS1 Standards for Supply Chain Meets HL7 — FREE TUTORIAL (F7) — Must sign up to attend this tutorial (Please check the box.)

**Track 1—HL7 FHIR:** Clinical Genomics Using HL7 FHIR (W10)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

**Track 1—HL7 FHIR:** Clinical Documents on HL7 FHIR (W11)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

**Track 3—Special Interest:** IHE on HL7 FHIR (W12)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

#### Afternoon Sessions

**Track 1—HL7 FHIR:** Understanding and Using Terminology in HL7 FHIR (W13)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

**Track 1—HL7 FHIR:** HL7 FHIR STU3 Proficiency Exam Review (W14)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

**Track 2—CDA and C-CDA:** International Patient Summary (W15)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

### Thursday, May 17

#### Morning Sessions

**Track 4—HL7 Process:** Newly Elected Co-Chair Training — FREE TUTORIAL (F8) — Must sign up to attend this tutorial (Please check the box.)

**Track 4—HL7 Process:** How to Develop and Teach a Tutorial for HL7 — FREE TUTORIAL (F9) — Must sign up to attend this tutorial (Please check the box.)

**Track 1—HL7 FHIR:** HL7 FHIR for Clinical and Administrative Workflows (TH16)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

**Track 1—HL7 FHIR:** HL7 FHIR Using SMART & CDS Hooks (TH17)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

**Track 2—CDA and C-CDA:** CDA Template Design in Theory and Practice (TH18)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

#### Afternoon Sessions

**Track 1—HL7 FHIR:** HL7 FHIR STU3 Proficiency Exam (TH19)  \$210  \$210  \$370  \$370 \$ \_\_\_\_\_

**Track 3—Special Interest:** International Mobile Health Standards (TH20)  \$115  \$225  \$340  \$515 \$ \_\_\_\_\_

**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: \_\_\_\_\_



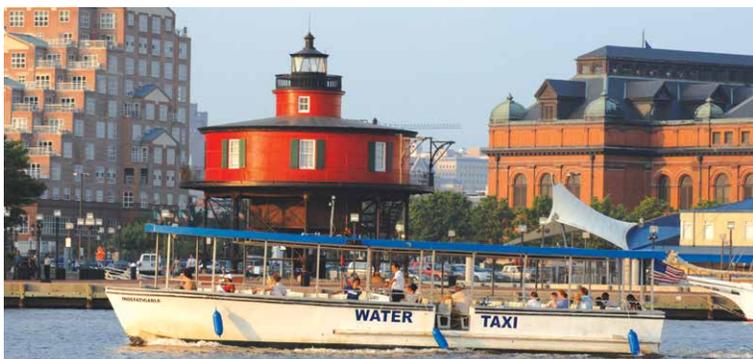
## HL7 FHIR DevDays

### **Boston, MA**

June 19 – 21, 2018

**HL7 FHIR DevDays 2018**

State Room



### **Baltimore, MD**

September 29 – October 5, 2018

**32nd Annual Plenary & Working Group Meeting**

Hyatt Regency Baltimore Inner Harbor



### **San Antonio, TX**

January 12 – 18, 2019

**Working Group Meeting**

Hyatt Regency San Antonio  
on the Riverwalk



### **Montreal, Quebec**

May 4 – 10, 2019

**Working Group Meeting**

Sheraton Le Centre



### **Atlanta, GA**

September 14 – 20, 2019

**Working Group Meeting**

Atlanta Marriott Marquis



# Cologne (Köln), Germany

Founded by Romans, Cologne is one of Germany's oldest cities. It is also the nation's fourth largest city with a population of around one million. Located on the Rhine River, Cologne is a vibrant city full of cultural and historical treasures that is a "must see" for tourists.

There is plenty to see and do in Cologne. There are an abundance of world-renowned museums and the city has an active art scene. The city has more than 30 museums and hundreds of galleries. In addition to its famous cathedral, you can visit numerous Roman historical monuments, such as the Römisch-Germanisches Museum, Weidener Grabkammer (a burial chamber), the Praetorium, and the Roman Tower. Many sights also date back to the medieval times, such as the Zeughaus, the

Overstolzenhaus, the Gürzenich hall, the city gates, city hall and several Romanesque churches. In addition, many of Cologne's famous landmarks are modern structures such as the Köln Tower and Triangle, as well as the opera house, the arena and Media Park.

Tourists in Cologne have many options when it comes to food and drink. The city has more than 3000 public houses, restaurants and breweries. Don't miss the opportunity to try Cologne's famous beer, Kölsch. There are twenty kinds of Kölsch and the breweries have public houses where fresh Kölsch is served. The most famous ones among them are Gaffel Haus in the old part of town and the Früh-Brauhaus near the cathedral.

*Copy courtesy of Köln Tourism.*

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