

Health Professionals and HL7: We Need Each Other

By Russell Leftwich, MD, Chair of HL7 Health Professional Engagement



Russell Leftwich, MD

Health professionals who are engaged daily in care delivery are end-users of an ever-expanding range of HL7 standards. As healthcare IT adoption expands, an ever-increasing number of those individuals are leaders in implementation efforts in their organizations and in their own clinical practice. The number of systems and devices utilizing HL7 standards continues to grow, as does the number and variety of settings where these systems and devices are used. Health professionals who use these systems and devices need knowledge and understanding of the HL7 standards to facilitate implementation, workflow reengineering and optimization. HL7 needs to obtain the insights of these health professionals on their clinical workflows, data needs, and health information exchange needs to continue to develop and evolve the standards, implementation guides, and educational programs it publishes.

Early in 2012, HL7 created a caregiver membership category, now officially named Health Professional Membership. This membership is open to health professionals actively engaged in care delivery. The scope includes the entire care team: physicians, nurses, pharmacists, behavioral health

professionals, nutritionists, physical and occupational therapists, and other licensed professionals with clinical practices. The annual fee of \$100 USD for the membership allows these professionals to participate in HL7 work group activities and standards development; receive discounts for HL7 meetings, tutorials, webinars, and certification testing; and view content on the HL7 website.

Entering the next phase of its effort to involve more health professionals in the development of standards and implementation guidance, HL7 has created a Health Professional Engagement initiative to coordinate outreach efforts through health professions schools, other academic institutions, and professional societies and to provide a friendly welcome and on-board guidance to those new Health Professional members. List serves have been established in the public list serve section of the HL7 website for those established HL7 members who wish to join the effort and for the new Health Professional members.

continued on next page

In This Issue...

Health Professionals and HL7.....	1-2
HL7 and IHE Sign Statement of Understanding to Ballot IHE Profiles through HL7.....	3
Update from Headquarters.....	4-6
Find or Be a Volunteer for HL7.....	6
HL7 Names Two New Advisory Council Members.....	7
HL7 Product Lines and Product Families.....	8-9
News from the PMO.....	10
Understanding Meaningful Use.....	11-15
Member Spotlight on Ken McCaslin.....	15
Certification Exam Congratulations.....	16-17
Upcoming International Events.....	18
HL7 Benefactors.....	18
Organizational Members.....	19-21
2013 Technical Steering Committee Members	22
Steering Divisions.....	22
HL7 Work Group Co-Chairs.....	23-25
HL7 Facilitators.....	26-27
Affiliate Contacts.....	28
HL7 Staff Members.....	29
2013 Board of Directors.....	30
Educational Summits.....	31
Upcoming Working Group Meetings.....	32

The Health Professional Membership offers many values to the holder. Practitioners benefit from a working understanding of the standards underlying their systems in order to optimize their use. Just as important, an awareness of what HL7 has to offer in standards and implementation guidance, as well as a view over the horizon of what is under development, can be invaluable in developing solutions to problems in one's own institution and in innovation to deliver better care. Health professional members are enabled to better support their organizations in making wiser purchase decisions about EHR systems and medical devices, as well as guiding future strategy and transformation.

There are also less tangible benefits for the health professional members: developing insight into the processes of standards development and the benefits of standards; networking with others in your own domain as well as those from other domains; and the opportunity to join in the advocacy for standards adoption. Beyond these benefits, health professional members can help to improve the quality and usability of HL7 standards, and in turn, the systems and devices that use them to ultimately improve the quality and efficiency of care for patients.

HL7 as an organization is dependent on participation by the full spectrum of health

professionals to have an effective standards development process and to assure the quality and usability of standards and implementation guides developed. The insights of health professionals about clinical workflows and data needs in their practices is critical to development of the domain analysis models on which the standards are based. Existing standards can be improved based on feedback from the health professionals using them. Looking to the future, the increasing need for coordinated care for individuals in a complex system requires enabling that care coordination by HIT adoption and development of standards that recognize the complex workflows and data exchange needs of care planning and coordination. The knowledge of those workflows and data needs that health professionals possess and their participation and collaboration across HL7 work groups will be increasingly important, in fact, critical.

The transformation to a patient-centered healthcare system with a care team that includes the patient and all of the health professionals involved in their care makes the relationship between those health professionals and HL7 – a win-win for the patient and their entire team. Learn more and join if you are a qualified health professional at www.HL7.org/caregivers.

HL7 NEWS

is the official publication of: Health Level Seven International
3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI • 48104-4261 USA
Phone: +1 (734) 677-7777 • Fax: +1 (734) 677-6622 • www.HL7.org

Mark McDougall, *Publisher* • Andrea Ribick, *Managing Editor* • Karen Van Hentenryck, *Technical Editor*

HL7 and IHE Sign Statement of Understanding to Ballot IHE Profiles through HL7

By Andrea Ribick, HL7 Director of Communications

Health Level Seven® International (HL7®) and Integrating the Healthcare Enterprise (IHE), an organization dedicated to improving healthcare by providing specifications, tools and services for interoperability, recently announced an agreement to launch a pilot project to explore balloting IHE profiles through HL7. This Statement of Understanding (SOU) further expands on their previous collaborative efforts, which were initiated in 2005.

As part of the collaborative relationship between HL7 and IHE, the two organizations have worked together to avoid conflict and duplication of

effort, as they engage in activities that support the global adoption of healthcare information technology (IT) standards. The new SOU strengthens the existing ties with the goal of improving the interoperability and implementation of healthcare IT standards and implementation guides. As part of the pilot, one

solidifies our efforts and brings us closer to validating that interoperability can be achieved in our lifetime. It ensures that HL7 standards and



Andrea Ribick

Agreement represents increased collaboration between the organizations and will improve the interoperability and implementation of healthcare information technology standards

IHE implementation profiles are tightly coordinated and will facilitate further strides in interoperability as we rise to the challenge of providing the building blocks necessary to achieve meaningful use in healthcare.”

“Health IT standards are paving the way towards interoper-

ability, which will mean seamless and secure access to health information whenever and wherever it’s needed. This effort to ballot IHE profiles through the HL7 process is but one example of how our organizations are working together to improve the quality, value and safety of healthcare. This collaborative effort shows how the industry should – and does – come together to advance health information exchange,” said Joyce Sensmeier, MS, RN-BC, CPHIMS, FHIMSS, FAAN, president, IHE USA.

or more IHE profiles based on the HL7 Clinical Document Architecture (CDA®) will be submitted for ballot through the HL7 Structured Documents Work Group. The pilot will be used to assess the feasibility of balloting other IHE profiles based on HL7 standards and potentially jointly publishing them as implementation guides.

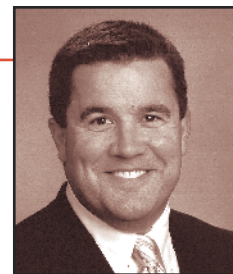
“HL7 and IHE have enjoyed a long history of collaboration,” said Charles Jaffe, MD, PhD, and CEO of HL7. “This agreement further



Update from Headquarters

HL7 Enters a New Era

By Mark McDougall, Executive Director, HL7



Mark McDougall

New Era for HL7

As was suggested by Carl Dvorak during an annual HL7 Advisory Council Retreat several years ago, HL7's vision statement is rather straightforward: To create the best and most widely used standards in healthcare. The decision by the HL7 Board to license much of our HL7 intellectual property (IP) at no cost is both supportive of this vision statement and also brings HL7 into a new era.

The decision to license much of its IP at no cost covers all currently published standards, implementation guides and other select IP as determined on a case-by-case basis. In all cases, prior to downloading HL7's IP, individuals will be required to provide contact information, insight on their planned use for the IP, and agree to the terms of the license agreement. Details on accessing this library of HL7 IP will be available by clicking on the "Standards" section or the "Free IP" banner on the HL7.org home page.

For clarification, this new policy change does not provide free HL7 membership and, in fact, HL7 will continue to rely on your membership dues to fund the current operations as well as several new membership benefits that are being developed, which are anticipated to include an expansion of deeply discounted or free education programs and training; special access to HL7 experts; exclusive certification of HL7 conformance; a professionally supported Help Desk; and enhanced testing of individual

expertise in HL7 development, training, and implementation. The new membership structure and benefits will be rolled out later this year.

January Meeting

There were 428 attendees at our January Working Group Meeting held in Phoenix, Arizona, January 13-18, 2013. Over 40 HL7 work groups convened meetings, of which 14 conducted co-chair elections. Attendees also took advantage of 31 tutorials and three certification tests that week.

Board Changes

We recognized two outgoing Board members who served terms on the HL7 Board of Directors: Catherine Chronaki and Jill Kaufman, PhD. Catherine has served two terms on the HL7 Board as an Affiliate Representative. She also led the charge to open an HL7 Europe office in Brussels, Belgium and has overseen HL7's involvement in several European Commission projects. Jill first served one term as a Director-at-Large, and most recently has served two terms as the Secretary of the HL7 Board of Directors during which she also chaired the Gover-



Catherine Chronaki



Jill Kaufman, PhD



Incoming Board Members
Calvin Beebe and Helen Stevens

nance and Operations Committee.

It is also noteworthy that Michael van Campen resigned from the HL7 Board after serving terms on the HL7 Board as the Affiliate Representative and most recently as the Treasurer of the Board. Calvin Beebe, who has chaired the Finance Committee, will serve in the Treasurer position for the balance of 2013.



Michael van Campen

All three contributed heavily to many important and valuable roles for the HL7 organization throughout their many years of service to HL7. I am pleased to extend a sincere thank you to Jill, Catherine and Michael for their many years of service to HL7.

Meeting Sponsors

I am also pleased to recognize the following organizations that sponsored key components of our recent January Working Group meeting in Phoenix:

- Beeler Consulting LLC

- Gordon Point Informatics
- iINTERFACEWARE
- JP Systems Healthcare IT
- SPARX Systems

The additional sponsorship support provided by these organizations greatly contributes to HL7's meeting budget and is much appreciated.

HIMSS

For over 20 years, HL7 has exhibited each year at the annual conference of the Healthcare Information and Management Systems Society (HIMSS). This year's HIMSS convention convened in New Orleans, Louisiana during the week of March 4, 2013, and reportedly attracted over 35,000 people.

HL7's Director of Communications, Andrea Ribick, oversaw the production of 27 thirty-minute presentations on HL7 standards and relevant topics. Many of the presentations attracted crowds that filled the theater area and led to standing room only crowds. I also wish to express our sincere thanks to the many individuals who volunteered to staff our HL7 booth at HIMSS and/or make presentations in our booth, including:



Chair-Elect Dr. Bob Dolin presenting at HL7 HIMSS13 booth

- Calvin Beebe
- Woody Beeler, PhD
- Keith Boone
- Hans Buitendijk
- Gary Dickinson
- Bob Dolin, MD
- Grahame Grieve
- Freida Hall
- Ed Hammond, PhD
- Chuck Jaffe, MD, PhD
- Bob Jenders, MD
- Russ Leftwich, MD
- Ken McCaslin
- Don Mon, PhD
- John Quinn
- Scott Robertson, PharmD
- Joyce Sensmeier
- Corey Spears
- Howard Strasberg, MD
- Sandy Stuart
- Grant Wood

Benefactors and Supporters

We are thrilled to have attracted the all time highest number of HL7 benefactors and supporters, who are listed on page 19. Their support of HL7 is very much needed and sincerely appreciated. We are pleased to recognize our benefactors in all of our HL7 newsletters, on the HL7 website, in all of our HL7 press releases, and at all of our HL7 Working Group Meetings. A special thank you is extended to the list of firms that represent our 2013 HL7 benefactors and supporters.

Organizational Member Firms

As listed on pages 19-21, HL7 is very proud to recognize the all time largest list of 799 organizations who are HL7 organizational member companies. We sincerely appreciate their ongoing support of HL7 via their organizational membership

continued on page 6



January 2013 Working Group Meeting Sponsors

Photos courtesy of Ken Rubin Photography

Find or Be a Volunteer for HL7

By Karen Van Hentenryck, HL7 Associate Executive Director; Member, Process Improvement Committee

Several months ago, the Process Improvement Committee (PIC) sponsored a project to develop and promote a wiki site designed to match volunteers with Work Groups needing assistance. Woody Beeler graciously designed the wiki site, which can be found at http://wiki.hl7.org/index.php?title=Find_or_Be_a_Volunteer_for_an_HL7_Work_Group

Last year, PIC co-chairs, Rita Scichilone and Sandy Stuart, announced the availability of the site during one of the Working Group Meeting (WGM) Monday night co-chairs dinners, and following the January 2013 WGM in Phoenix, the site was advertised to the first-time attendees. Unfortunately, no work groups have posted any volunteer needs and no volunteers have posted profiles. The intent of the profiles and help wanted templates is to provide just enough information to allow a volunteer and a work group to begin discussing mutual interests. They are not intended as places to list full resumes or job descriptions. Some of the “jobs” that HL7 work groups will frequently need to fill are listed below (and described on the site itself):

- Business Analyst
- Conformance Facilitator
- Domain Expert
- HL7 Mentor
- Modeling and Methodology Facilitator
- Project Facilitator
- Publishing Facilitator

- Steering Division Project Facilitator
- Vocabulary Facilitator

PIC invites all work groups to consider posting their needs to this site before the May WGM as we feel that having “want ads” on the site will encourage volunteers to review the opportunities and submit a profile. PIC is confident that the site will be useful once people begin to use it.



Karen Van Hentenryck

One of the nice features of this site is that volunteers can create a profile that can be moved between Occupied and Available status to indicate when they are or are not available. Profiles can also be updated as more experience in a particular area is gained.

Instructions for creating a Volunteer Wanted template are available at:

http://wiki.hl7.org/index.php?title=Template:Volunteer_Wanted

Instructions for volunteers wishing to create a profile can be found at the following link:

http://wiki.hl7.org/index.php?title=Template:Volunteer_Available

Update from Headquarters, continued from page 5

dues. Along with our individual members, HL7 currently has over 2,395 members.

In Closing

I look forward to seeing many of you at our May 5-10 Working Group Meeting in Atlanta, Georgia. Until then, may you and your loved ones be blessed each day with plenty of smiles and laughter.

Mark L. McQuay



The 2013 HL7 Board of Directors
Photo courtesy of Ken Rubin Photography



Andrea Ribick

HL7 Names Two New Advisory Council Members

— Joyce Sensmeier and Walter Suarez to serve on HL7 Advisory Council

By Andrea Ribick, HL7 Director of Communications

Health Level Seven recently announced that HL7's Board of Directors has named Joyce Sensmeier, MS, RN-BC, CPHIMS, FHIMSS, FAAN, Vice President of Informatics for HIMSS, and Walter Suarez, MD, PhD, Director of Health IT Strategy of Kaiser Permanente, to serve a two-year term on HL7's Advisory Council.

"We are pleased to have Joyce Sensmeier and Walter Suarez join HL7's Advisory Council," said Charles Jaffe,

MD, PhD, CEO of HL7. "Ms. Sensmeier provides a unique perspective to the Council with leadership roles in HIMSS and Integrating the Health Enterprise (IHE) as well as her expertise in nursing informatics. Dr. Suarez brings a wealth of national and international experience, including serving as a member of the National Committee on Vital and Health Statistics (NCVHS) and as a member of the HIT Standards Committee of the Office of the National Coordinator for Health Information Technology."

Joyce Sensmeier MS, RN-BC, CPHIMS, FHIMSS, FAAN, is Vice President of Informatics at HIMSS, the largest U.S. not-for-profit, cause-based association focused on providing global leadership for the optimal use of information technology for the betterment of healthcare. She is responsible for the areas of clinical informatics, standards, interoperability, privacy and security.



Joyce Sensmeier, RN-BC

Dr. Suarez serves as co-chair of the Sub Committee on Standards of the NCVHS and co-chair of the Privacy and Security Work Group of the HIT Standards Committee of the ONC. He has provided project management, technical and policy consulting services and project/program evaluation services to health care provider organizations, health plans, Medicaid and Medicare programs, Public Health agencies and vendors in the areas of Health IT/HIE, public health data standards, health disparities, quality measurement, health information privacy and security standards, and HIPAA standards including Transactions and Code Sets (TCS) and the National Provider Identifier (NPI).



Walter Suarez, MD



Austin Kreisler

HL7 Product Lines and Product Families

By Austin Kreisler, Chair, HL7 Technical Steering Committee

At the HL7 January Working Group Meeting in Phoenix, we announced HL7 was moving towards organizing our standards products into product lines and product families. Over the past couple of years, HL7 has gone through the process of creating briefs for each of our standards products. As part of creating the product briefs, we tried to organize those standards to make it easier for members as well as non-members to access our standards. The results can be found on the HL7 main website under “Standards”. The process of developing those standards product briefs and trying to put them into some coherent framework really brought home the fact that HL7 has a large number of products but little, if any, overarching strategy for managing those products. The lack of a coherent strategy has led to the risk that standards products may overlap and in some cases may contradict one another.

While HL7 was developing the various product briefs, the organization was also identifying a set of strategic initiatives to provide a direction for the products and services developed by HL7. Two of the high-level strategic initiatives are directly relevant:

- Streamline the HL7 standards development process
- Develop standards that are easier to implement and more responsive to customer needs

During the past year, the Technical Steering Committee (TSC), working with the Architectural review Board

(ArB), began a series of projects to implement the above two strategic initiatives by moving the HL7 organization towards a product family/product line approach to developing our standards products. The ArB was charged with developing a Business Architecture Model that utilizes the HL7 Services Aware Interoperability Framework (SAIF) concepts of governance, management and methodology to implement a product family/product line based organizational structure for HL7.

What do we actually mean when we talk about product lines and product families? Here are the working definitions used by the TSC and ArB:

- **Product Line:** “A Standards Product Line is a set of specifications that share a common, managed set of capabilities satisfying the specified needs of a particular market segment and that are developed from a common set of core resources in a prescribed way.” (Adapted from the Software Engineering Institute definition of a software product line).
- **Product Family:** “A Product Family is a collection of products that share common elements, methodologies, and tools as viewed from a design perspective.”

These two viewpoints complement one another. The product family viewpoint focuses on how HL7 develops products and aligns with the strategic initiative for streamlining

HL7’s standards development processes. The product line viewpoint focuses on the needs of HL7 customers, principally HL7 members, who often use HL7 standards to address their own needs or the needs of their downstream customers. The product line viewpoint aligns with the second strategic initiative focused on producing standards that are easier to implement and are responsive to customers needs.

Product Lines

A Product Line is a collection of products, components, identifiable entities, etc. produced for a particular set of customers that share a common context of use. Product lines tie to HL7 customer’s business use cases and focus on providing solutions to business problems. The products bundled together in a product line may span multiple product families. A real example of this occurs in the work done by the Cross-Paradigm Interoperability Implementation Guide for Immunizations project (<http://www.hl7.org/Special/committees/soa/projects.cfm?action=edit&ProjectNumber=863>). This project focuses on a specific immunization use case and is identifying standards such as HL7 Version 2.x Immunization Messaging, CDA and SOA services to implement the use case. Although today these standards are not part of formal HL7 Product Families, in the future, they will likely be in different HL7 Product Families. The same product might appear in multiple product lines.

Product Families

The goal of establishing Product Families is to maximize the efficiency of individual product production through the use/reuse of common base elements, inputs, methodologies, processes, and/or tools. Product Families are differentiated based on three core dimensions:

- Common Resources – Base elements, constructs, etc. used in producing a given Product or collection of Products.
- Common Production – Shared production tooling, production methods, production processes, and/or production methodologies
- Common Governance – Shared governance, management and methodology overseeing the entire product family

The example we have today of a product family is the Fast Healthcare Interoperability Resources (FHIR) standard. The TSC is using FHIR as a test case for determining how to formalize product families within HL7. As part of establishing a FHIR Product Family, the TSC has established the FHIR Governance Board (FGB) and FHIR Management Group (FMG).

The FGB sets the strategic direction for the FHIR initiative in the HL7 organization. The FGB also oversees the structures, rules and processes that govern the creation, maintenance and review of FHIR-related artifacts. The FMG is responsible for coordinating and overseeing content development and balloting. The FMG also deals with cross-WG issues, execution of processes, etc. Finally, the Modeling and Methodology work group (MnM) has responsibility for overseeing and developing the FHIR methodology.

HL7 will establish similar governance structures for new product families going forward. HL7 has a number of groups of products today that will

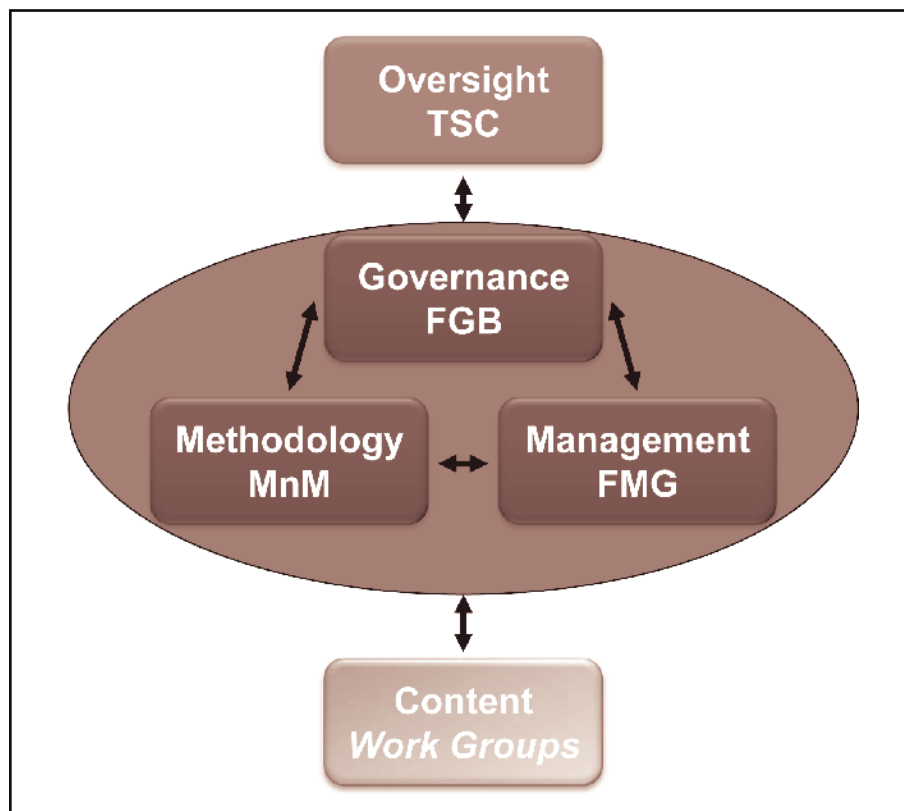


Diagram representing the governance structure of a product family; in this case, FHIR

likely be organized into formal product families including:

- Version 3 Product Family
- Version 2.x Product Family
- CDA Implementation Guide\ Product Family

Each of the above has some elements of the common characteristics of a product family (common resources, common production, and common governance). Creating a formal product family will require establishing all three of the common elements for a product family. The TSC and ArB are currently identifying the steps necessary to start up new product families.

Summary

Successful implementation of product families within HL7 will support the streamlining of the HL7 standards development strategic initiative by enforcing a consistent set of rules

for product development, improving quality of those products, and promoting cross-product consistency of those products. Successful implementation of product lines will help focus our products on addressing customer needs and promote easier adoption of those standards by our customers.

Successful implementation of both the Product Family and Product Line constructs requires a clear understanding by the producer (HL7) of the target market and its customer's short and long-term requirements and objectives. Successful marketing of one or more products or Product Lines requires HL7 (as the producer) to be able to successfully "connect the dots" between the customers' perceived needs and the functionality delivered by the products designed to fulfill these requirements.

News from the **PMO** and Project Services Work Group

By Dave Hamill, Director, HL7 Project Management Office; and Rick Haddorff and Freida Hall, Co-Chairs, Project Services Work Group



Dave Hamill



Freida Hall



Rick Haddorff

Project Scope Statement Template Updated with TSC Notification Checkbox

A checkbox labeled “TSC Notification Informative/DSTU to Normative” has been added to Section 1 of the Project Scope Statement (PSS) template. Project facilitators should check this box when the project proceeds from informative to normative or DSTU to normative status and forward the PSS to the TSC (via the TSC Project Manager) for notification.

This action will trigger American National Standards Institute (ANSI) Project Initiation Notification (PINS) submission as TSC notification that a project is moving to a normative state is required to fulfill ANSI PINS reporting requirements.

It is not necessary to notify the steering division co-chairs to seek re-approval unless there has been a “major” or “significant” change in the project scope (as described in the PSS FAQ section).

Please refer to the HL7 Governance and Operations Manual and ANSI Essential Requirements for more detail.

Evaluating Project Management Practices in HL7: An International Volunteer Organization

Thank you to everyone that took the HL7 International’s Project Management Survey; 114 people participated. The survey was just one part of dissertation research which examined project management practices at an all-volunteer organization. The work was undertaken by Ateeb Chaudry, a student of HL7 International Council Co-Chair, Dr. Philip Scott.

The goal of the project was to analyze findings on problems faced by HL7 when projects are managed by volun-

teers with a view to provide recommendations as to how HL7’s Project Management practices can become more effective.

Objectives included

- How do other work groups view Project Services?
- What can be done to add value to the project management efforts conducted by work groups?
- Is Project Services meeting the expectations of other work groups?

HL7 Project Management and Tracking Tools

The following HL7 Project Management tools are available on www.HL7.org via [Resources > Tools & Resources > Project Management and Tracking Tools](#).

- Electronic Ballot Charts
- GForge
- HL7 Searchable Project Database
- PBS Metric Guidance for Steering Division Co-Chairs
- PBS Metrics Report
- Project Approval Process
- Project Insight
- Project Insight Tip Sheet
- Project Life Cycle for Product Development (PLCPD)
- Recorded Webinar: HL7 Project Management Tool Overview for HL7 Project Facilitators
- Steering Division and Project Facilitator Responsibilities
- Three-Year Plan Guidelines

Understanding Meaningful Use with a Focus on Testing the HL7 Version 2 Messaging Standards

By Robert Snelick, National Institute of Standards and Technology (NIST) and Sheryl Taylor, RN, BSN, Booz Allen Hamilton (BAH)



Robert Snelick

Use of electronic health records (EHRs), especially systems with clinical decision support capabilities, has been shown to enable quality improvement in healthcare as well as reductions in the cost of that care when used regularly in the practice of medicine. These facts contributed to the impetus for Congress to enact the Health Information Technology for Economic and Clinical Health (HITECH) Act, a component of the American Recovery and Reinvestment Act (ARRA) of 2009. The HITECH ACT provides funding for incentive payments to physicians and hospitals that adopt health information technology (HIT). Initially focusing on adoption of EHRs, approximately \$17 billion in Medicare and Medicaid (CMS) incentive payments are available through CMS's HITECH-based EHR Meaningful Use (MU) Program, to be paid to providers that attest to or demonstrate "meaningful use" of "certified" EHR technology (CEHRT). In response to this mandate for use of CEHRT, the Office of the National Coordinator (ONC) established a certification program and published EHR certification criteria. The National Institute of Standards and Technology (NIST) developed test procedures and conformance test tools based on the ONC's EHR certification criteria. This article briefly explains the history

and purpose of the ONC certification program, and provides insight into the test procedures and testing process for the Health Level 7 (HL7) Version 2 (V2) messaging standards. It also presents an overview of the test tools that are used by testing laboratories to ensure that vendors' EHR technologies meet the requirements of CEHRT.

Adoption and use of CEHRT is required for eligible professionals (EPs) and eligible hospitals (EHs) to become "meaningful users" and to receive payments from the CMS EHR Incentive Program. On January 3, 2011, the ONC released the Final Rule to establish a permanent program for certification of Health IT. This "ONC HIT Certification Program" was launched on October 4, 2012, replacing the pre-

vious temporary program.

As shown in Figure 1, the ONC HIT Certification Program correlates directly to the CMS MU Final Rule as well as the ONC Health IT Standards, Implementation Specifications and Certification Criteria Final Rule (ONC Final Rule). CMS MU requirements are behavioral in scope, specifying how the EPs and EHs must use the CEHRT in order to receive the incentive payments. Based on the MU requirements, ONC defines the technical criteria CEHRT must meet and manages the development and implementation of certification testing procedures.

continued on next page

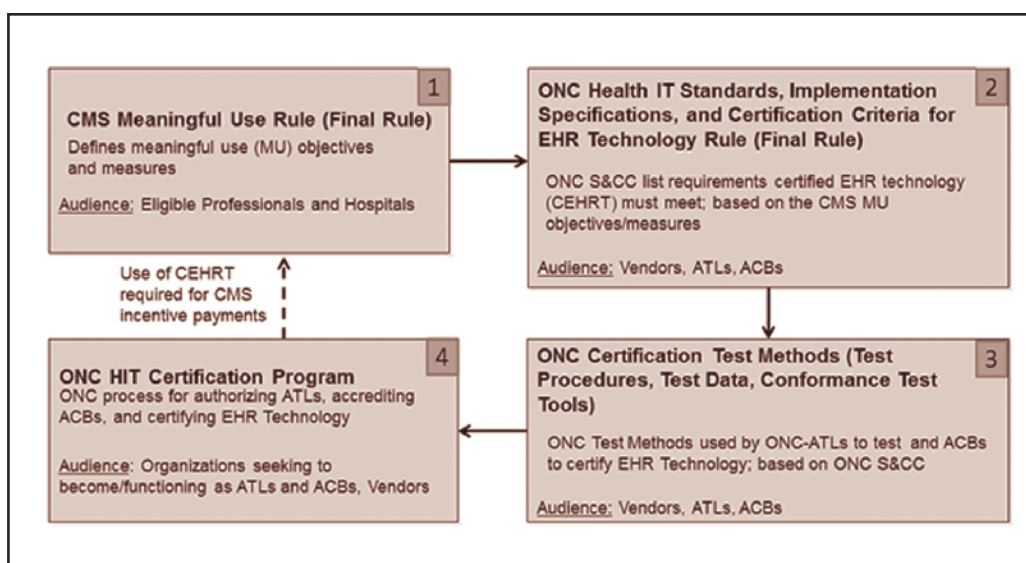


Figure 1: Correlation of CMS MU Final Rule, ONC Final Rule, and ONC HIT Certification Program

Thus far, CMS and ONC have published two sets of requirements for MU and for EHR certification known as Stage 1 or 2011 Edition and Stage 2 or 2014 Edition. Included in the ONC criteria are interoperability standards, such as HL7 Version 2 (V2) implementation guides and vocabulary standards. ONC CEHRT requirements do not represent a comprehensive list of all EHR capabilities that a physician's office or a hospital might want or need, but they are a baseline of capabilities that CEHRT must support. Additional MU Stages are planned, and the requirements are anticipated to become more challenging, demanding more capabilities.

The ONC HIT Certification Program manages the testing and certification of EHR technologies by Accredited Testing Laboratories (ATLs) and Authorized Certification Bodies (ACBs). "Testing" is the process used by an ATL to determine the degree to which the EHR technology meets the specific certification criteria. "Certification" is the assessment and affirmation made by an ACB once it has analyzed the quantitative results produced by the testing and determined that the EHR technology has met all of the applicable certification criteria. ONC reviews the product certification provided by the ACB, and then posts it to the online Certified HIT Product List (CHPL), thereby designating the product as a CEHRT.

In order to verify that EHR technologies meet the ONC certification criteria, a test method was developed for use by the ATLs. The ONC test method is composed of test procedures, test data, and (where applicable) conformance test tools. Test procedure documents provide a standard structure for the content related to the certification testing steps; the test data work in conjunction with the test procedures to further indicate the

intent of the ONC policies behind the certification criteria; and the conformance test tools work with the test procedures and test data to enable automated and semi-automated validation of the EHR technologies' conformance to the certification criteria and the named interoperability standards.

Conformance Test Tools

The 2014 Edition/Stage 2 ONC EHR certification standards and criteria specify four HL7 V2 implementation guides that apply to five certification criteria, including transmission to immunization registries, syndromic surveillance to public health agencies, transmission of reportable lab results to public health agencies, transmission of electronic lab results to ambulatory providers, and incorporation of lab tests and results. NIST has developed the test procedure and conformance test tool for each of these criteria. The links to these test tools are provided along with standards they target:

- Immunization: <http://hl7v2-iz-testing.nist.gov/mu-immunization/>
- HL7 Version 2.5.1 Implementation Guide for Immunization Messaging, Release 1.4
- HL7 Standard Code Set CVX--Vaccines Administered
- Syndromic Surveillance: <http://hl7v2-ss-testing.nist.gov/mu-syndromic/>
- HL7 Version 2.5.1 PHIN Messaging Guide for Syndromic Surveillance
- Reportable Laboratory Results (ELR): <http://hl7v2-elr-testing.nist.gov/mu-elr/>
- HL7 Version 2.5.1 Electronic Laboratory Reporting to Public Health, Release 1
- SNOMED CT® and Logical Observation Identifiers Names and Codes (LOINC®)
- Laboratory Results Interface (LRI): <http://hl7v2-lab-testing.nist.gov/mu-lab/>

- HL7 Version 2.5.1 Implementation Guide: S&I Framework Lab Results Interface
- Logical Observation Identifiers Names and Codes (LOINC®)
- Note the LRI test tool covers both the transmission of laboratory results criteria and the incorporation of laboratory results criteria

Central to certification is conformance testing of the technical requirements and capabilities of the EHR technology. Testing is facilitated with the use of specific test cases and data. Through consultation and collaboration with subject matter experts from the ONC Standards and Interoperability (S&I) Framework, the Centers for Disease Control (CDC), the Association of Public Health Laboratories (APHL), and the International Society for Disease Surveillance (ISDS), NIST developed test cases that targeted the most important use cases and capabilities specified in the referenced standards.

The test data is provided to assist the tester in verifying that the vendors' EHR technologies are capable of supporting the required functions; verifying the ability to support the specific test data content is a secondary aspect to testing. Testing and verification related to specific content usually is more appropriate for local installations of the EHR technologies; however, for certain aspects of a certification test case, examining exact content is necessary to verify that a capability exists in the EHR technology. An added benefit of providing realistic test data for common use cases is that it reinforces the expected interpretation and use of the referenced standards.

Testing the EHR for Transmitting a Message

When testing the ability to transmit HL7 V2 messages, the focus of the conformance testing strictly centers

on validating the message produced by the EHR system (the sender). The System Under test (SUT), the EHR, is treated as a “black box”—how the message is created or transformed is not in scope. If we consider a Laboratory Information System (LIS) or Laboratory module as part of the EHR (hereafter lab component), testing is not concerned with the detailed architecture of the lab component, but rather what it produces (a message) based on a given set of inputs (i.e., the test case). The “black box” can be a self-contained lab component or be composed of multiple modules with a data flow between them, for example, a lab component and an integration engine; however, the “black box” must contain a lab component, and test case data must be entered into and originate from the lab component.

The NIST HL7 V2 conformance test

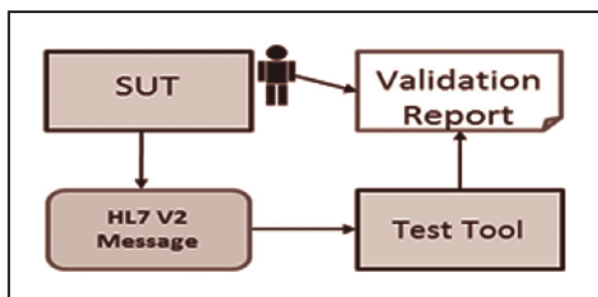


Figure 2: Context-free Validation Test Flow

tools for validating sending systems have two operational modes:

- Context-free
- Context-based

The context-free mode validates any message created by the SUT. It is not dependent on any use case, test case, or specific test data content. Figure 2 illustrates the context-free test flow.

The context-based mode validates messages that are associated with a given use case and test case that includes specific test data that are to be entered into the SUT. The SUT creates a message that corresponds to the test data

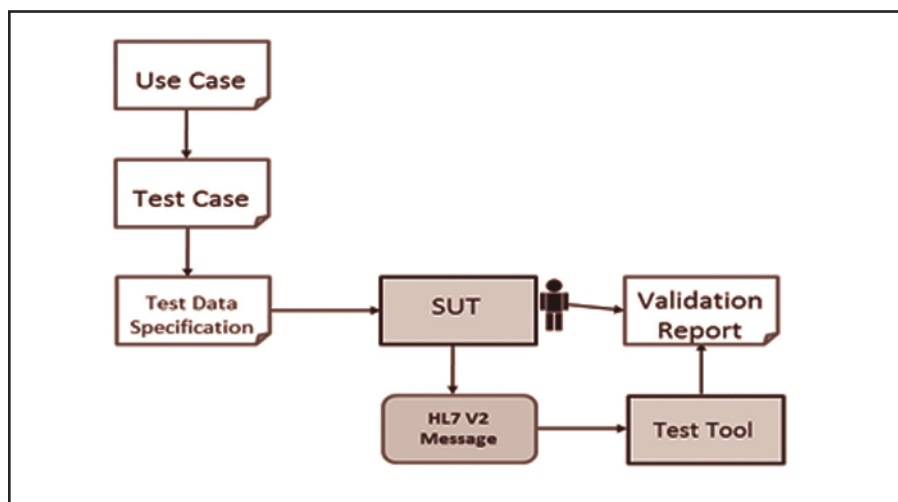


Figure 3: Context-based Validation Test Flow

provided in the test case. Testing assesses the technical requirements and content-specific requirements specified in the test case. Context-based validation expands the test space, enabling more comprehensive testing (e.g., conformance

usage constructs such as conditional elements and required, but may be empty elements). Figure 3 shows the context-based test flow.

Although the NIST conformance test tools support both modes of validation, MU EHR certification testing is context-based. However, the context-free validation functionality

provided in the test tool can be used to assist certification testing in certain circumstances and provides a useful tool for local installation testing.

Testing the EHR for Incorporation of a Message

Testing the incorporation of laboratory results presents a set of challenges, since there is no output artifact that can be assessed directly. For this criterion the EHR, as the receiving system, is being examined for the incorporation of laboratory results and seven display requirements (adopted from CLIA, the Clinical Laboratory Improvement Amendments, which

are regulatory US standards for clinical laboratory testing). The MU criterion specifies the Laboratory Results Interface (LRI) implementation guide for import of the laboratory results. Conformance testing employs the use of a juror document (inspection check list) and a human inspector. The content of the juror document is derived from the test case and test message. Figure 4 illustrates the test flow of the NIST conformance test tool for the incorporation of laboratory results test procedure.

The test tool provides a test harness that interacts with the EHR system, simulating the functionality of an LIS. Test cases are developed for the various use cases described in the LRI implementation guide, and for each test case its respective test data are created. Based on the test case and test data, a test message and juror document is automatically generated by the test tool. The test message is sent to the EHR for incorporation. The ATL Tester uses the juror document to examine the EHR system. The juror document is the test case-specific checklist the tester uses to document the presence

continued on next page

or absence of the data in the EHR for data elements transmitted to the

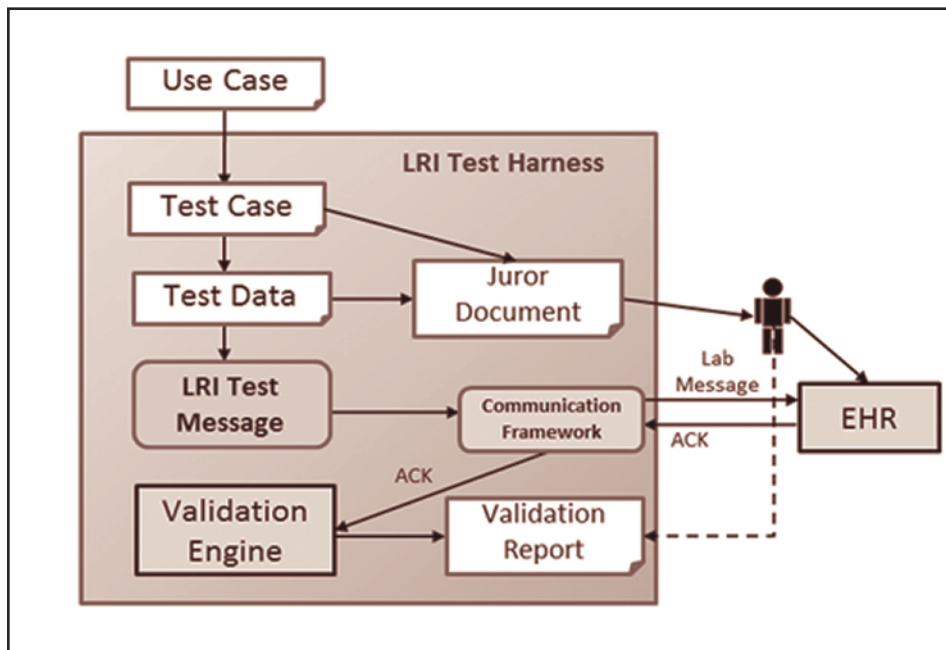


Figure 4: Test Flow for Testing EHR Receiving Transmission of Lab Results

EHR from the LRI Test Harness. The data elements are categorized by how they are verified. For example, some elements are required to be displayed to the clinical user on the EHR screen and stored, while other data elements are required to be stored or derivable. Not all data elements are subject to incorporation testing since they are not relevant to the incorporation of laboratory results (e.g., message processing elements).

Certification Testing: What Does it mean?

Certification of EHR technology is a critical step towards achieving interoperability for exchanging healthcare information, but it is not the end-all. ONC certification testing for meaningful use focuses on assessing the capabilities of the EHR product for a given set of requirements. It is not directed at site-specific installations. Purchasing a certified EHR system provides a degree of certainty that the buyer has obtained a product that meets a level of capabilities established by the ONC. End users of certified EHR products

will need to configure their products according to their local requirements. Although the ONC HIT Certification Program by design does not extend to installation bases, it provides the foundation and a shorter pathway to achieving site-specific interoperability. Incremental progress in terms of the EHR capabilities and interoperability is the intent as advancement is made through the MU stages.

It is also important to recognize that the ONC certification program targets the EHR technologies and not the systems that interact with them. For example, the transmission to immunization registries certification criterion and associated tests assesses whether the EHR product can create HL7 V2 messages in accordance with the requirements given in the referenced standard. It does not, however, place any requirements on the receiving system, in this case the immunization information systems (IIS) used by the registries. In order to achieve interoperability the receiving systems must implement the corresponding require-

ments. The Meaningful Use program envisions that these systems will, over time, acquire such capabilities due to market forces and the benefits gained (e.g., the public health agencies will want to take advantage of the standardized interfaces).

One of NIST's roles in developing the test tools is to strictly interpret the requirements as written in the standards and the ONC EHR certification criteria, and then develop test cases to test to those requirements accordingly. This process has led to the discovery of underspecified and ambiguous requirements in the standards and gaps in the certification criteria. These discoveries have necessitated the collective efforts of numerous clinical subject matter experts and NIST to resolve, making the MU program a useful endeavor in perhaps unexpected ways. The findings have been recorded in clarification documents that supplement the HL7 V2 implementation guides. NIST, the ONC S&I Framework, the CDC, the AHPL, the ISDS, and the HL7 Conformance and Guidance for Implementation and Testing (CGIT) Work Group have begun efforts to establish and apply more concise rules for specifying conformance and best practices for writing HL7 V2 implementation guides. The result of these efforts will improve the HL7 V2 referenced standards for future MU editions.

In summary, meaningful use of EHRs is a key element in improving both quality and cost of healthcare. Two stages of the CMS MU and ONC HIT Certification Programs have been initiated, each stage representing incremental progress in the improvement of EHR systems' interoperability and capabilities based on the named standards in the ONC certification criteria. NIST develops the HL7 V2 conformance test tools in accordance with implementation guide requirements and vocabulary standards mandated by

continued on next page

Member Spotlight on Ken McCaslin

Ken McCaslin is the Director, Healthcare Standards at Quest Diagnostics based at their worldwide corporate data center located about 45 minutes west of Philadelphia. Ken has been with Quest Diagnostics since 1982. He has been married to his wife Cheri for over 30 years. They have two adult children, three grandchildren and one due in October.

In 2002, Ken began the discernment process for ordained ministry in the Episcopal Church. He began his seminary studies in 2004 and will graduate this May with a Masters of Arts in Religion. In 2008, Ken completed the requirements for ordination and in June 2008 was ordained a permanent Deacon in the Episcopal Church. He is on staff at Christ Episcopal Church in Pottstown, PA where he preaches often and is involved in several ministries. In September, Ken will lead a new ministry in the local Pottstown hospital. He will train, supervise and manage a lay ecumenical hospital visitor program. Ken wrote the training material and has used it to train lay hospital visitors at other hospitals. Recently, while investigating cyber bullying for a seminary



class, Ken discovered that the church has very little information available to those who may be seeking it.

Ken was able to convince the Episcopal Church in the Diocese of Pennsylvania to develop a page on their website dedicated to providing guidance to youth leadership on the subject of bullying and how they can help our youth with this very complicated social issue. The Lutheran Church has also agreed to create educational material for their website.

Ken and Cheri love to travel. Cheri retired more than 5 years ago and has been very active in mission trips both in the US and abroad; including Guatemala and Uganda. When the January 2011 HL7 meeting was in Australia, Cheri joined Ken and they traveled to New Zealand. Last summer they cruised the Mediterranean and plan to cruise the Baltic Sea later this year. The McCaslins try to spend part of the year in Florida. Their daughter's family lives in Nashville, and their son's family lives in Tampa. No trip to Florida is complete without a stop in both cities.

Understanding Meaningful Use, continued

the ONC. Knowing that unambiguous, "testable" requirements are critical to development of robust certification testing tools, NIST as a neutral participant devotes time and resources to the collaborative process of creating the HL7 V2 implementation guides, reconciling the ballot comments for the draft versions, and determining content for the various clarification supplements. The

ONC-ATLs use the NIST test tools to perform automated and semi-automated validation in a consistent manner for certification of EHRs based on requirements included in the standards. It cannot be over-emphasized that the effectiveness of a certification program is dependent upon a combination of the quality of the underlying standards and the thoroughness of the test tools based

on those standards.

Certification of EHR technologies is a critical step in achieving interoperability for exchanging health-care information, as it provides a foundation that can be built upon. Much progress has been made and significant knowledge has been gained in the first two MU stages. MU Stage 3 promises to build further upon this foundation.

Congratulations

To the following people who recently passed the HL7 Certification Exams

Certified HL7 Version 2.x Chapter 2 Control Specialist

November 14, 2012

Cynthia L. Carlton
Kenneth Gendrich
Jonathan Hamilton
Conrad D. Harkrider
Regi W. Jones
James W. Kelley
Jim Langlois
Tracy L. Liverman
Stephen M. Mattei
Sanjay Zachariah

November 15, 2012

Stacy H. Bostwick
Judith A. Bradford
William B. Carswell
Kathleen M. Connelly
Eric J. Dansby
Chad C. Flodman
David A. Lieser
Tiffany M. Livengood
Brian G. Olson
Heather Patrick
Yorick Phoenix
Belinda Smith
Ron A. Wilson
Cheng-Yi Yang

December 6, 2012

Robert A. Brown, Jr.
Christopher S. Burton
Patricia A. Crowe
Jonathan D. Fox
Scott A. Haynes
Jennifer W. Herrin
Deepali K. Pai

January 17, 2013

Artrina Sturges
Bonnie McAllister
Edward Hagan
Hetal Luhar
Jeffrey K Britton
Ji Won Moon
Rita Altamore
Sara B Imholte

March 28, 2013

William E. Bearden
Christina Chase
Sriharsha Chavali
Milo D. Dragovi
Kenneth D. Masters
Vinoth S. Perkinian
Jim T. Pickering
Filip L. Toskovic
Kelly A. White

HL7 Argentina

November 30, 2012

Paula Ardanaz

HL7 Australia

November 30, 2012

Wing Kit Fung
Joe Korb
Allan Larsen

February 13, 2013

Alexander Boughey
Paul Mayne

HL7 Canada

December 7, 2012

Ravindranath Koka
Chunguang Wang
Jon Zammit

December 14, 2012

Xiaoguang Ning

January 22, 2103

Behrad Sadoughian

February 13, 2103

Mini Riar
Irena Rumiantseva

February 21, 2103

Elham Entekhabifard

March 28, 2013

Balraj S. Sandhu

HL7 Croatia

November 22, 2012

Kresimir Kers

HL7 India

November 17, 2012

Ashok Balaraju
Shaibya Bhagat
Kavin Kumar
Amudha Ravindran
Manjunatha Ramappa
Somila Tripathy

November 24, 2012

Anand P Antony
Bhimesh Deshpande
Deepak Nath Goswami
Elanchezhian
Krishnadevan
Niranjan Raju
Manju RL
Sujith Kumar RS
Aravindan Thirugnanam
Kavitha Vaidhya
Keerthi Kiran Yaga

January 18, 2013

Supriya Adsule
SACHIN NAGRAJ AILWAR
Abhishek Arora
Khushboo Bangur
Hitesh Bhatia
Gautam Rajendra Bhatt
Amey Borkar
Priya Chandramani
Pravin Sheshrao Dahiphale
Pallavi Bholanath Dalvi
Biswajit Das
Paresh Dekate
Vaibhav Deshmukh
Geobina George
Pramod Garge
Sagar Gite
Vishal Gor
Sameer M. Gosrani
Sandeep Gupta
Shrikant Holla
Sonali Indurkar
Priyanka Jethwa
Sudhanshu Vijay Karalkar
INDU KARUNAKARAN
Nuncio Varghese
Kolomkanny
Madhuri Komanduri
Apurva Kulkarni
Hariom Singh Kuntal
Renuka Lakkireddy
Dimpy Leuva
Tejini M. Machhar
Rajesh Mahajan
Superna Mahodaya
Manali Mannur
Manali Pankaj Maru
Varad Mayekar
NIKHIL B. MEHETRE
Ketaki Sushant More
Parsana Ajay Nanubhai
Amit Natraj

Himanshu Nayak
Kiran V Panchal
Rohini Pangarikar
Shridhar K. Panigrahi
Hema Naga Aravind
Papolu
Rohan Haribhau Pathak
Gauri Patil
Pranoti Patil
Prabhakar Patole
Ashish Pauranik
Pravin Phadale
Vipulkumar Poojara
Pankaj Pote
Rohit Prabhu
Saurabh Prabhu
Shruti Pradhan
Gouri Prakash
Ayaz Quadri
Vijay Rana
Rupesh Prabhakar Ravle
Tathagata Roy
Tushar Salian
Sheetal Salunkhe
Pranali Sapale
Hitangi Jagdish Savla
Dip Shah
Seiok Prakash
Shanmugavel
Nitin V. Sharma
Omprakash Sharma
Pratyush Sharma
Supriya Shinde
Reema Shirwaikar
Pooja Sidhani
Ulkrisht Sidharthan
Amrish Singh
Sagar L Sutar
Riyaz Syed
SATISH D. TAYDE
Rujuta Telang
Jai Thar
Vaibhav K. Tiwari

Ankur R. Tripathi
P PARAG VARTAK
SAGAR SHRIPAT
WARGHADE
Vikram Warudkar
Munish Yadav

February 23, 2013
Chandan Agrawal
Pavan Gururaj Bada
Siddharth Chauhan
Neelima Madhukar Deogire
Aniruddha Deshpande
Nupur Gautam
Sri Harsha K G
Rohit Rajendra Joshi
Suteja Kanuri
Ambar Kashyap
Prathiba Rao K
Santhiya S
Thirunavukarasu
Sornakumar
Anargya M Urs
Vijitha Vasantha Kumar
Ashwat Narayanan
Venkatraman

HL7 Spain

October 5, 2012
Pedro Gonzalo González

November 12, 2012
David Alaber Toro
Florencio Llanos Ruiz

Certified HL7 CDA Specialist

November 15, 2012
Sebastian Bojanowski
Sarah Quaynor

January 18, 2013
Sarita Akolkar
Richa Anand
John Fernandes
Harit Gala
Rasika V. Inamdar
Anjali Kale
Kishan Ashok Khatanhar
Neha Mayekar
Mallika Padte
Madhusudana Rao Putta
Janak Ramani
Shardul M. Rane
Ritika Rawlani
Priyank Shah
Akshaya Subramanian
Mohammed Saleej
Saleem AK
Soumya Unnikrishnan
Niraj Yadav

January 17, 2013
Chad Wilson
Jesal Panchal
John D Baker
Rick Edwards
Stacey Lee

March 28, 2013
Yogesh Arora
Caryn K. Just
Vamsi Konduru
Amanda Merrill
Narasimha Murthy
Indu Menon
Punnoli Irupatil
Marcin Zapendowski

HL7 India

November 24, 2012
Arti Kulkarni

HL7 Korea

November 24, 2012
Jean H. Lee

HL7 Spain

November 12, 2012
Joan Carles Castro Robles
Andrea Cervera Forner

HL7 Taiwan

October 24, 2012
Johnson Huang
Wei-Fan Lee
Wei-Hui Lu

Certified HL7 Version 3 RIM Specialist

November 15, 2012
Roman Radomski

September 13, 2012
Abhijeet K. Balsaraf
Diana E. Behling
Isabelle Gibaud
David P. Morris
Sukrut Phansekar
Byreddy Y. Reddy
Giuseppe Saracino

HL7 India

January 18, 2013
Rohit Baptista Gonsalves
Ravi Gupta
Prasannakumar Jayaraman
Vidya Nadar
Dilip Rajani



Upcoming **INTERNATIONAL EVENTS**

eHealth Week 2013

Dublin, Ireland
May 13 - 15, 2013

For more information, please visit
<http://www.worldofhealthit.org/>

eHealth 2013

Ottawa, ON, Canada
May 26 - 29, 2013

For more information, please visit
<http://www.e-healthconference.com>

medinfo2013

Copenhagen, Denmark
August 20 - 23, 2013

For more information, please visit
<http://www.medinfo2013.dk/>

e-Health 2013 Accelerating Change

Ottawa, Ontario, Canada
May 26 - 29, 2013

For more information, please visit
<https://www.infoway-inforoute.ca/index.php/events/e-health-2013-accelerating-change>

International Health Informatics Conference

Beijing, China
August 3 - 4, 2013

For more information, please visit
<http://ai.arizona.edu/ihic2013/>

ISO/TC 215 Health Informatics Working Group Meeting

Sydney, Australia
October 21 - 25, 2013

For more information, please visit
http://www.iso.org/iso/iso_technical_committee?commid=54960

International HL7 Interoperability Conference (IHIC2013)

Sydney, Australia
October 28 - 30, 2013

HL7 Benefactors as of April 25, 2013



Booz | Allen | Hamilton

Centers for Disease
Control and Prevention

Duke Translational Medicine Institute



NICTIZ



HL7 ORGANIZATIONAL MEMBERS

Benefactors

Accenture
Allscripts
Booz Allen Hamilton
Centers for Disease Control and Prevention/
CDC
Duke Translational Medicine Institute
Epic
Food and Drug Administration
GE Healthcare
GlaxoSmithKline
Hospital Corporation of America (HCA)
IBM
Intel Corporation, Digital Health Group
InterSystems
Kaiser Permanente
McKesson Provider Technologies
Microsoft Corporation
NICTIZ Nat.ICT.Inst.Healthc.Netherlands
Oracle Corporation - Healthcare
Partners HealthCare System, Inc.
Philips Healthcare
Quest Diagnostics, Incorporated
Siemens Healthcare
U.S. Department of Defense, Military
Health System
U.S. Department of Veterans Affairs

Supporters

7 Delta, Inc.
AEGIS.net, Inc.
Beeler Consulting LLC
Corepoint Health
Credible Wireless
Daintel
Edmond Scientific Company
Enomedijos intercentras
Gamma-Dynacare Medical Laboratories
GEMMS
Holston Medical Group
Info World
iINTERFACEWARE, Inc.
Knowtion
Liaison Technologies Inc.,
Mediture
Notable Solutions
Panacea Healthcare, LLC
Shimadzu Scientific Instruments, Inc.
Standing Stone, Inc.
Varian Medical Systems
VIP Medicine, LLC

Consultants

Accenture
AHIS - St. John Providence Health
Anakam Identity Services, Equifax
Andy McKenna
Blackbird Solutions, Inc.
Boveda
Canon Information & Imaging Solutions,
Inc.
CentriHealth
Champ IT Solutions Inc.
CSG Government Solutions
Dapasoft Inc.
Deloitte Consulting LLP
Dent Technical Consulting Services
Eastern Informatics, Inc.
Edifecs, Inc.
eHealth Workflow Analytics, LLC
Emergint Technologies, Inc.
ESAC Inc
FEL.com
Frank McKinney Group LLC
Gartner
Genoa Healthcare Clinical Laboratory

Goodmark Medical (International) Ltd
Gordon Point Informatics Ltd.
Haas Consulting
Health Konnekt
Healthcare Data Assets
Healthcare Integration Technologies
HLN Consulting, LLC
Hubbert Systems Consulting
iConnect Consulting
iEHR.eu
Innokas Medical Engineering Oy
Just Associates, Inc.
Keiper & Associates Inc
Lantana Consulting Group
Life Technologies
LMI
Logica
Logimethods
LOTS, LLC
M*Modal, Inc.
Matricis Informatique Inc.
Michael Keevican, LLC
Netsoft USA
newMentor
Ockham Information Services LLC
Octagon Research Solutions, Inc.
OMKT LLC
OTech, Inc.
Pragmatic Data LLC
Professional Laboratory Management, Inc.
RedGranite, LLC
Rob Savage Consulting
Shafarman Consulting
SLI Global Solutions
Society of Chest Pain Centers
Stat! Tech-Time, Inc.
Strategic Solutions Group, LLC
The Audigy Group, LLC
United Laboratory Network IPA, LLC
Vangent, Inc.
Virginia Riehl
Westat

General Interest

Aarhus University, Dept of Computer Science
ASIP SANTE
ACLA
Advanced Medical Technology Association
(AdvaMed)
Agency for Healthcare Research and Quality
Alabama Department of Public Health
American Assoc. of Veterinary Lab
Diagnostics
American College of Cardiology Foundation
American College of Surgeons, NTDB
American Dietetic Association
American Health Information Management
Association
American Immunization Registry Association
(AIRA)
American Medical Association
American Society of Clinical Oncology
Arizona Department of Health Services
Arkansas Department of Health
Blue Cross Blue Shield Association
CA Department of Public Health
California Department of Health Care
Services
California HealthCare Foundation
CalOptima
Cancer Care Ontario
CDISC
CEI Community Mental Health Authority
Centers for Disease Control and Prevention/
CDC
City of Houston

College of American Pathologists
College of Healthcare Information Mgmt.
Executives
Colorado Regional Health Information
Organization
Columbia University
Contra Costa County Health Services
Council of Cooperative Health Insurance
Delaware Division of Public Health
Delta Dental Plans Association
Department of Developmental Services
Department of Health
DGS, Commonwealth of Virginia
District of Columbia Department of Health
Duke Translational Medicine Institute
ECRI Institute
eHealth Platform
Electronic Transactions Development Agency
Estonian eHealth Foundation
Florida Department of Health
Food and Drug Administration
Georgia Medical Care Foundation
ICCBBA, Inc.
IFPMA (as trustee for ICH)
Illinois Department of Public Health
Indian Health Service
Indiana Health Information Exchange
Iowa Department of Public Health
Japan Pharmaceutical Manufacturers
Association
Kansas Department of Health & Environment
L.A. County Dept of Public Health
LA County Department of Mental Health
LCF Research
Louisiana Public Health Institute
Medical University of South Carolina
Michigan Department of Community Health
Lab
Ministerio de Salud P?blica del Ecuador
Ministry of Health - Slovenia
Minnesota Department of Health
Missouri Department of Health & Senior
Services
NAACCR
National Association of Dental Plans
National Center for Health Statistics/CDC
National Council for Prescription Drug
Programs
National eHealth Transition Authority
(NEHTA)
National Institute of Standards and
Technology
National Library of Medicine
National Marrow Donor Program
National Quality Forum
NCQA
New Mexico Department of Health
NICTIZ Nat.ICT.Inst.Healthc.Netherlands
NIH/CC
NIH/Department of Clinical Research
Informatics
OA-ITSD - Department of Mental Health
Oak Ridge Associated Universities
Office of the National Coordinator for
Health IT
OFMQ
Ohio Department of Health
Oklahoma State Department of Health
Oregon Health & Science University
Oregon Public Health Division
Pennsylvania Dept of Health-Bureau of
Information
Pharmaceuticals & Medical Devices Agency
Phast
Philadelphia Department of Public Health
Primary Care Information Project, NYC Dept
Health

Public Health Data Standards Consortium
Qatar Science & Technology Park
Radiological Society of North America
Ramsey County Public Health
Region Sj?lland
Region Syddanmark
RTI International
SAMHSA
SC Dept. of Health & Environmental Control
HS
Social Security Administration
State Hygienic Laboratory at
University of Iowa
State of Montana DPHHS
Technological University of Panama, CIDITIC
Telligen
Tennessee Department of Health
The Joint Commission
The MITRE Corporation
The National Council for Behavioral Health
U.S. Army Institute of Surgical Research
University HealthSystem Consortium
University of AL at Birmingham
University of Kansas Medical Center
University of Miami
University of Minnesota
University of Szeged, Institute of Informatics
University of Texas Medical Branch at
Galveston
University of Utah Pediatric Critical Care/
IICRC
Utah Health Information Network
Virginia Department of Health
Virginia Information Technologies Agency
Washington State Department of Health
West Health Institute
Wisconsin State Laboratory of Hygiene
WNY HEALTHeLINK
WorldVista

Payers

AIM Specialty Health
Blue Cross and Blue Shield of Alabama
Blue Cross Blue Shield of Arizona
Blue Cross Blue Shield of South Carolina
CIGNA
Community Health Group
Coventry Health Care
Florida Blue
Healthspring
Meridian Health Plan
MetLife, Inc.
National Government Services
Neighborhood Health Plan
Premiera Blue Cross
UnitedHealth Group
Valence Health
Wisconsin Physicians Service Ins. Corp.

Pharmacy

Bristol-Myers Squibb
Crescendo Bioscience
Eli Lilly and Company
GlaxoSmithKline
Merck & Co. Inc.
Novartis
Pharmaxo Pharmacy Services
Sanofi-Aventis R&D

Providers

Advanced Biological Laboratories (ABL) SA
Advantage Dental
Akron General Medical Center
Alaska Native Tribal Health Consortium
Albany Medical Center
Albany Medical Center Hospital

HL7 ORGANIZATIONAL MEMBERS, continued

ARUP Laboratories, Inc.
Ascension Health Information Services
Avalon Health Care
Barnabas Health
BHR - Behavioral Health Response
BJC HealthCare
Blessing Hospital
Bloomington Hospital & Healthcare Systems
Blount Memorial Hospital
Boston Children's Hospital
Brookdale Senior Living
Butler Healthcare Providers
Carilion Clinic
Cedars-Sinai Medical Center
Center for Life Management
Central Illinois Radiological Associates
CentraState Healthcare System
CHI
Childrens Mercy Hospitals and Clinics
Children's of Alabama
Cincinnati Children's Hospital
City of Hope National Medical Center
Cleveland Clinic Health System
Clinical Reference Laboratory, Inc.
COMPUGROUP MEDICAL POSLKA SP.Z O.O.
Consultants in Laboratory Medicine
Cottage Health System
Deaconess Health System
DESC
Diagnostic Laboratory Services
Dignity Health
Emory Healthcare
Enloe Medical Center
Geisinger Health System
Hendricks Regional Health
Hill Physicians Medical Group
Holy Name Medical Center
Hospital Corporation of America (HCA)
HSE - Health Service Executive
Huron Valley Physicians Association
Imagine Health Centres
Institut Jules Bordet
Intermountain Healthcare
Interpath Laboratory
Johns Hopkins Hospital
Jordan Hospital
Kaiser Permanente
Kernodle Clinic, Inc.
KMH Cardiology & Diagnostic Centres
Laboratory Corporation of America
Lahey Clinic
Landmark Holdings LLC
Lexington Medical Center
Loyola University Health System
Lucile Packard Children's Hospital
LUX MED Diagnostyka sp. z o.o.
Mayo Clinic
McFarland Clinic PC
Medicover
MEDTOX Laboratories, Inc.
Meridian Health
Milton S. Hershey Medical Center
MinuteClinic
MultiCare Health System
National Cancer Institute
Natural Molecular Testing Corporation
New York-Presbyterian Hospital
NYC Health and Hospital Corporation
Park Nicollet
Partners HealthCare System, Inc.
Pathologists' Regional Laboratory
Pathology Associates Medical Laboratories
Patient First

Phoenix Children's Hospital
Pocono Medical Center
Quest Diagnostics, Incorporated
Rady Children's Hospital
Ramathibodi Hospital
Regenstrief Institute, Inc.
Region Midt, It-udvikling, arkitektur og design
Rheumatology and Dermatology Associates PC
SA Tartu University Clinics
Saint Francis Care
Saudi Aramco - Healthcare Applications Division
Scottsdale Healthhealth
Seneca Family of Agencies
Seton Medical Group, Inc.
Sharp HealthCare Information Systems
Sound Physicians
South Bend Medical Foundation, Inc.
Spectrum Health
St. Joseph Health
Steward Health Care
Summa Health System
Texas Health Resources
The Children's Hospital of Philadelphia
Trinitas Regional Medical Center
Tuomey Healthcare System
U.S. Department of Defense, Military Health System
UNC Healthcare
University of Chicago Medical Center
University of Nebraska Medical Center
University of Pittsburgh Medical Center
University of Utah Health Care
University of Virginia Health System
University Physicians, Inc.
UT M.D. Anderson Cancer Center
UW Medicine, IT Services
Vanguard Health Systems
VUMC
West Virginia University Hospitals
Wheaton Franciscan Healthcare
Winchester Hospital

Vendors

1MEDix
3M Health Information Systems
4Medica
7 Delta, Inc.
ABELSoft Inc.
Accent on Integration
Accumedic Computer Systems, Inc.
Acupera, Inc.
ADP AdvancedMD, Inc.
ADS Technologies, Inc.
AEGIS.net, Inc.
Agilex Technologies
Alere Wellogix
Alert Life Sciences Computing, Inc.
AllianceMD software, Inc.
AllMeds Inc
Allscripts
AlphaCM, Inc
Altos Solutions, Inc
Altova GmbH
American Data
American Data Network
American Health Care Software
American HealthTech, Inc.
American Medical Software
AmerisourceBergen Specialty Group
Ametelco
Apelon, Inc.
Aprima Medical Software
Argility Healthcare
ASI GMBH
Askesis Development Group
ASP.MD Inc
Astera Software
athenahealth
Atigeo, LLC
Atirix Medical Systems
Austco
Avality, LLC
Aventura HQ, Inc
Aversan Inc
Avreo, Inc.
Axial Exchange
Axway
Axxess Healthcare Consult
Aym Technologies
Beckman Coulter, Inc.
Beeler Consulting LLC
Benchmark Systems
Biocartis NV
Biswas Information Technology Solutions Inc.
Bizmatics, Inc.
Browsersoft, Inc.
CAL2CAL Corporation
Callibra, Inc.
CANON INDIA PVT LTD
CareCam Innovations
Carefx Corporation
Carestream Health, Inc.
CareTech Solutions, Inc.
CareVoyant, Inc.
Cedaron Medical, Inc.
Center for Clinical Innovation
Cerner Corporation
ChartLogic, Inc.
ChartWise Medical Systems, Inc.
Chillisoft Solutions
ClaimTrak Systems, Inc
Clear EMR
Clinical Architecture
Clinical Software Solutions
Clinicomp, Intl
ClinicTree
Clinix Medical Information Services, LLC
CMG Technologies Sdn Bhd
CNIPS, LLC
CNSI
Cognosante, LLC
Cognovant, Inc
ColdLight Solutions, LLC
ComChart Medical Software
Community Computer Service, Inc.
CompactSoft
Compania de Informatica Aplicata
Complete Medical Solutions
Compu Care ALP, inc.
Computer Technology Corporation
Computrition, Inc.
Conductive Consulting, inc.
Consilience Software
Consolo Services Group, LLC
Corepoint Health
Covidien
CPSI
Credible Wireless
CSC Healthcare
CTIS, Inc.
Curaspan Healthgroup, Inc.
Cyberpulse L.L.C.
Cyrus-XP LLC
Daintel
Dansk Medicinsk Datacenter ApS
Darena Solutions LLC
Data Direct
Data Innovations, LLC

Data Strategies, Inc.
Data Tec, Inc.
Datatel Solutions, Inc.
Datuit, LLC
Dawning Technologies, Inc.
dbMotion LTD
Deer Creek Pharmacy Services
Defran Systems
Dell-Boomi
Delta Health Technologies, LLC
DiagnosisOne, Inc.
Digital Infuzion, Inc.
Doctor Evidence
DoctorsPartner LLC
Document Storage Systems, Inc.
DocuTrac, Inc.
Dolbey & Company
Dynamic Health IT, Inc.
EBM Technologies Inc.
eCareSoft Inc.
echoBase
eClinicalWorks
Edmond Scientific Company
eHealth Data Solutions, LLC
eHealthCare Systems, Inc.
eHealthFiles
eHealthObjects
Electronic Medical Exchange Holdings LLC
ELEKTA
Embedded Wireless Labs
Emdat, Inc.
Emdeon, LLC
eMedic LLC
emedpractice
Emerging Systems
EmpowerSystems
Epic
ESO Solutions
eSpoc
ESRI
Enomedijos intercentras
eTransX, Inc.
Evolvent Technologies
Exemplo Medical
EyeMD EMR Healthcare Systems, Inc.
ezEMRx
e-Zest Solutions Ltd.
FCS Computer Systems Sdn Bhd
Fluidnet Corporation
Foothold Technology
Forte Holdings
Gamma-Dynacare Medical Laboratories
GE Healthcare
GEMMS
Genesis Systems, Inc.
GenomeQuest, Inc.
Geriatric Practice Management
Get Real Health
GlobalOne Information Technologies, LLC
GlobalSubmit
GrowlCMS
Grupo Postigo - Alba Electronica, S.L.
Haemonetics Corporation
Halfpenny Technologies, Inc.
Harmonex Neuro Science
HarrisLOGIC, Inc.
HD Clinical
Health Care 2000, Inc
Health Care DataWorks
Health Care Software, Inc.
Health Companion, Inc.
Health Informatics Intl
Health Intersections Pty Ltd
Health IT Services Group
Health Language, Inc.

HL7 ORGANIZATIONAL MEMBERS, continued

Healthbox	Lab Warehouse, Inc.	Onco, Inc.	Software Partners LLC
HealthBridge	Labware, Inc.	Optima Healthcare Solutions	SonomedEscalon
Healthcare Management Systems, Inc.	Last Bajt	Optimus EMR, Inc.	SonoSite, Inc.
HEALTHeSTATE	Lavender & Wyatt Systems, Inc.	OptiScan Biomedical Corporation	SOUTHERN LIFE SYSTEMS, INC
HealthFusion	L-Cube Innovative Solutions Private Limited	OptumInsight	Southwestern Provider Services, Inc
Healthland	Liaison Technologies Inc.,	Oracle Corporation - Healthcare	SRSsoft, Inc.
HealthTrio, LLC	Life Systems Software	Oral Health Solutions	St. Jude Medical
HealthUnity Corp	LightSpeed Consulting Inc	Orchard Software	Standing Stone, Inc.
Healthwise, Inc.	LINK Medical Computing, Inc.	Organizational Intelligence, LLC	StatRad, LLC
heartbase, inc.	Liquent, Inc.	Orion Health	STI Computer Services, Inc.
Hello Health	Logibec	Otago Clinical Audit & Outcomes Research Unit	STM Technology, Inc
Hewlett-Packard Enterprises Services	Logical Images Inc.	OTTR Chronic Care Solutions	Stockell Healthcare Systems, Inc.
Hill Associates	LOGICARE Corporation	OZ Systems	Stratus EMR, Inc.
Hi-Tech Software, Inc.	LORENZ Life Sciences Group	P&NP Computer Services, Inc.	SuccessEHS
Holston Medical Group	M.S. Group Software, LLC	Panacea Healthcare, LLC	Summit Healthcare Services, Inc.
Home Dialysis Plus, Ltd	M2comsys	Pascal Metrics	Summit Imaging, Inc.
Hospira	MacPractice, Inc.	Patient Resource	Suncoast Solutions
HospiServe Healthcare Services Pty) Ltd.	Mammography Reporting System Inc.	PCE Systems	Sunquest Information Systems
Hyland Software, Inc.	ManagementPlus	PDR Network	Surescripts
i2i Systems	Marin Health Network	Pervasive Health, Inc.	Surgical Information Systems
Iatric Systems	Marshfield Clinic	Philips Healthcare	SurgiVision Consultants, Inc.
Ibeza LLC	McKesson Provider Technologies	PHmHealth	Swearingen Software, Inc.
IBM	MDLand	Physicians Medical Group of Santa Cruz County	Systematic Group
ICE Health Systems Inc.	MDP Systems, LLC	PilotFish Technology	T System Inc
ICLOPS	MDT Technical Services, Inc.	PointCross Life Sciences	TASC, Inc.
ICT HEALTH TECHNOLOGY SERVICES	MDxperience LLC	Politechnika Poznanska	Tess Data Systems
INDIA PVT. LTD.	MED3000, Inc.	Polyglot Systems, Inc.	The CBORD Group Inc.
ICU Metrix	MedConnect, Inc.	Polymedis	The Echo Group
ICUCARE LLC	MedEvolve, Inc.	Positive Business Solutions, Inc	The SSI Group, Inc.
ifa united i-tech, inc.	Medexter Healthcare GmbH	Practice Fusion	Therap Services, LLC
IGI Health	Medflow, Inc.	Premier Healthcare Alliance	Tiatros Inc.
Ignis Systems Corporation	MEDfx Corporation	PresiNET Healthcare	TIBCO Software Inc.
ImageTrend INC	MEDHOST, Inc.	ProClaim Partners LLC	Timeless Medical Systems Inc.
iMDsoft	Medical Informatics Engineering	ProComp Software Consultants, Inc	TriMed Technologies
iMedics Inc	Medical Messenger Holdings LLC	Procura	UBM Medica
InDxLogic	Medical Systems Co. Ltd - medisys	Prometheus Computing LLC	Unibased Systems Architecture, Inc.
Info World	Medical Web Technologies, LLC	QS/1 Data Systems, Inc.	Uniform Data System for Medical Rehabilitation
Infor	MedicBright Technologies	Quadramed Corporation	UnisonCare Corporation
Information Builders	Medicity, Inc.	Qvera	Universal Medical Records Inc.
Information Management Associates	MedInformaticx, Inc	RazorInsights	Unlimited Systems
Innodata Synodex LLC	MediServe Information Systems, Inc.	Real Seven, LLC	Valley Hope Association - IMCSS
Innovative Workflow Technologies	MEDITECH, Inc	Recondo Technology, Inc.	Varian Medical Systems
Insight Software, LLC	Mediture	Reed Technology and Information Services Inc.	Verisk Health
Intagras	Medlinesoft	RegisterPatient.com Inc	Versaworks, Inc.
Integrated Practice Solutions	MEDSEEK	Roche Diagnostics International Ltd.	VIP Medicine, LLC
integration AG	Medsphere Systems Corporation	Rosch Visionary Systems	Virco BVBA
Integritas, Inc.	Medtech Global USA LLC	RTZ Associates, Inc	Virtify
Integrity Digital Solutions, LLC	MEDTRON Software Intelligence Corporation	Rural Wisconsin Health Cooperative	Visbion Ltd
Intel Corporation, Digital Health Group	Medtronic	Sabiamed Corporation	Vitera Healthcare Solutions
Intelliscure Inc.	MedUnison LLC	SAIC - Science Applications International Corp	Walgreens
Intelligent Health Systems	MedVirginia	Sandlot Solutions, Inc.	Watermark Research Partners, Inc.
Intelligent Medical Objects (IMO)	Megics Corporation	Sargass Pharmaceutical Adherence & Compliance Int'l	WCI
INTELLIGENT RECORDS SYSTEMS & SERVICES	MGRID	SAS Institute	WellCentive, LLC
Interbit Data, Inc.	Micro-Med, Inc	Sasken Communication Technologies Limited	WellPoint, Inc.
Interface People, LP	Microsoft Corporation	Scantron Corporation	Wells Applied Systems
iINTERFACEWARE, Inc.	Mighty Oak Technology, Inc.	Scientific Technologies Corporation	Wellsoft Corporation
Interfix, LLC	MioSoft Corporation	ScriptRx, Inc.	Wolters Kluwer Health
InterSystems	Mirth Corporation	SEC Associates, Inc.	WorkAround Software, Inc.
Intuit Health	Mitochon Systems.	Seeburger AG	WTVIII, Inc.
iPatientCare, Inc.	Mitrais	Shimadzu Scientific Instruments, Inc.	Xbusiness and the Inspiration Co., Ltd.
iSALUS Healthcare	Modernizing Medicine, Inc.	Siemens Healthcare	Xeo Health
Isoprime Corporation	Mountainside Software, Inc.	Silvermedia	Xerox State Healthcare, LLC
ISSIO Solutions, inc	MPN Software Systems, Inc.	Skylight Healthcare Systems, Inc.	XIFIN, Inc.
iVHR	MuleSoft	SMART Management, Inc.	XPress Technologies
J&H Inc.	MyClinic A/S	SNAPS, Inc.	Zoho Corp.
J4Care GmbH	MZI HealthCare	SOAPware, Inc.	Zweena
Jaime Torres C y Cia S.A.	Naphcare	Softek Solutions, Inc.	Zynx Health
Jopari Solutions, Inc.	NeoSoft LLC	Software AG USA, Inc.	
jProg	NexJ Systems Inc	Software Fulcrum, Inc.	
KAMSOFT S.A.	NextGen Healthcare Information Systems, Inc.		
Kanick And Company	Notable Solutions		
Keane, Inc.	NRC - Illuminate		
Keiser Computers Inc.	Omnicell, Inc.		
Kestral Computing Pty Ltd	OMNICOm srl		
Knowtion			

2013 TECHNICAL STEERING COMMITTEE MEMBERS

CHAIR

Austin Kreisler

Science Applications International Corp. (SAIC)

Phone: 404-542-4475

Email: austin.j.kreisler@saic.com

CHIEF TECHNICAL OFFICER

John Quinn

HL7 International

Phone: 216-409-1330

Email: jqinn@HL7.org

ArB CO-CHAIRS

Lorraine Constable

HL7 Canada

Phone: +1 780-951-4853

Email: lorraine@constable.ca

Ron Parker

HL7 Canada

Phone: 902-832-0876

Email: rparker@infoway-inforoute.ca

INTERNATIONAL REPRESENTATIVE

Jean Duteau

Duteau Design Inc.

Phone: 780-328-6395

Email: jean@duteaudesign.com

Ravi Natarajan

NHS Connecting for Health

Phone: 44 113-390-6520

Email: ravi.natarajan@nhs.net

DOMAIN EXPERTS CO-CHAIRS

Melva Peters

Jenaker Consulting

Phone: 604-515-0339

Email: jenaker@telus.net

Mead Walker

Mead Walker Consulting;

Phone: 610-518-6259

Email: dmead@comcast.net

FOUNDATION & TECHNOLOGY

CO-CHAIRS

George (Woody) Beeler

Beeler Consulting, LLC

Phone: 507-254-4810

Email: woody@beelers.com

Anthony Julian

Mayo Clinic

Phone: 507-266-0958

Email: ajulian@mayo.edu

STRUCTURE & SEMANTIC DESIGN

CO-CHAIRS

Calvin Beebe

Mayo Clinic

Phone: 507-284-3827

Email: cbeebe@mayo.edu

Patricia Van Dyke, RN

Delta Dental Plans Association

Phone: 503-243-4492

Email: vandykp@odscompanies.com

TECHNICAL & SUPPORT SERVICES

CO-CHAIRS

Frieda Hall

Quest Diagnostics, Incorporated

Phone: 610-650-6794

Email: freida.x.hall@questdiagnostics.com

Andy Stechishin

CANA Software & Services Ltd.

Phone: 780-903-0885

Email: andy.stechishin@gmail.com

STEERING DIVISIONS

DOMAIN EXPERTS

Anatomic Pathology

Anesthesiology

Attachments

Child Health

Clinical Genomics

Clinical Interoperability Council

Clinical Quality Information

Community Based Collaborative Care

Emergency Care

Health Care Devices

Patient Care

Patient Safety

Pharmacy

Public Health & Emergency Response

Regulated Clinical Research

Information Management

FOUNDATION & TECHNOLOGY

Conformance & Guidance for

Implementation/Testing

Implementable Technology Specifications

Infrastructure & Messaging

Modeling & Methodology

RIM Based Application Architecture

Security

Service Oriented Architecture

Templates

Vocabulary

TECHNICAL & SUPPORT SERVICES

Education

Electronic Services

International Mentoring Committee

Process Improvement Committee

Project Services

Publishing

Tooling

STRUCTURE & SEMANTIC DESIGN

Arden Syntax

Clinical Decision Support

Clinical Statement

Electronic Health Record

Financial Management

Imaging Integration

Mobile Health

Orders & Observations

Patient Administration

Structured Documents

HL7 WORK GROUP CO-CHAIRS

Anatomic Pathology

Victor Brodsky, MD
College of American Pathologists
Phone: 646-322-4648
Email: victorbrodsky@gmail.com

John David Nolen
Cerner Corporation
Phone: 816-446-1530
Email: johndavid.nolen@cerner.com

Anesthesia

Martin Hurrell, PhD
Phone: 44-7711-669-522
Email: martinhurrell@gmail.com

Terri Monk
Duke Translational Medicine
Institute
Phone: 919-286-6938
Email: terri.monk@duke.edu

Architectural review Board

Lorraine Constable
HL7 Canada
Phone: 780-951-4853
Email: lorraine@constable.ca

Ron Parker
HL7 Canada
Phone: 902-832-0876
Email: rparker@infoway-inforoute.ca

John Quinn
Health Level Seven International
Phone: 216-409-1330
Email: jqquinn@HL7.org

Arden Syntax

Peter Haug
Intermountain Healthcare
Phone: 801-442-6240
Email: peter.haug@imail.org

Robert Jenders, MD
National Library of Medicine
Phone: 301-435-3192
Email: Jenders@ucla.edu

Attachments

Durwin Day
Phone: 312-653-5948
Email: durwinday@comcast.net

Craig Gabron
Blue Cross Blue Shield of South
Carolina
Phone: 803-763-1790
Email: craig.gabron@pgba.com

Jim McKinley
Blue Cross and Blue Shield of
Alabama
Phone: 205-220-5960
Email: jbmckinley@bcbsal.org

Child Health

David Classen, MD, MS
Alliance for Pediatric Quality
Phone: 801-532-3633
Email: david.classen@pascalmetrics.com

Gaye Dolin, MSN
Lantana Consulting Group
Phone: 714-744-4152
Email: gaye.dolin@lantanagroup.com

Andy Spooner, MD, FAAP
Cincinnati Children's Hospital
Phone: 513-803-0121
Email: andrew.spooner@cchmc.org

Feliciano Yu, MD
St. Louis Children's Hospital
Phone: 314-454-2808
Email: yu_f@kids.wustl.edu

Clinical Decision Support

Guilherme Del Fiol, MD
University of Utah Health Care
Phone: 919-213-4129
Email: guilherme.delfiol@utah.edu

Robert Jenders, MD
National Library of Medicine
Phone: 310-435-3192
Email: Jenders@ucla.edu

Kensaku Kawamoto, PhD
University of Utah Health Care
Phone: 801-587-8001
Email: kensaku.kawamoto@utah.edu

Howard Strasberg
Wolters Kluwer Health
Phone: 858-481-4249
Email: howard.strasberg@wolters-
skluwer.com

Clinical Genomics

Joyce Hernandez
Merck & Co., Inc.
Phone: 732-594-1815
Email: joyce_hernandez@merck.com

Amnon Shabo
IBM
Phone: 972-544-714070
Email: shabo@il.ibm.com

Mollie Ullman-Cullere
Partners HealthCare System, Inc.
Phone: 617-582-7249
Email: mollie_ullman-cullere@dfci.
harvard.edu

Clinical Interoperability Council

W. Edward Hammond
Duke Translational Medicine
Institute
Phone: 919-383-3555
Email: hammo001@mc.duke.edu

Dianne Reeves
National Cancer Institute
Phone: 301-435-5602
Email: reevesd@mail.nih.gov

Mitra Rocca
Food and Drug Administration
Phone: 301-796-2175
Email: mitra.rocca@fda.hhs.gov

Anita Walden
Duke Translational Medicine
Institute
Phone: 919-668-8256
Email: anita.walden@duke.edu

Clinical Quality Information

Patricia Craig (Interim)
The Joint Commission
Institute
Phone: 630-792-5546
Email: pcraig@jointcommission.org

Floyd Eisenberg (Interim)
iParsimony LLC
Phone: 202-643-6350
Email: feisenberg@iparsimony.com

Crystal Kallem, RHIA (Interim)
Lantana Consulting Group
Phone: 515-992-3616
Email: crystal.kallem@lantana-
group.com

Walter Suarez, MD, MPH (Interim)
Kaiser Permanente
Phone: 301-625-4351
Email: walter.g.suarez@kp.org

Clinical Statement

Hans Buitendijk
Siemens Healthcare
Phone: 610-219-2087
Email: hans.buitendijk@siemens.com

Jan Heras
Lantana Consulting Group
Phone: 801-663-9209
Email: yanheras@gmail.com

Rik Smithies
HL7 UK
Phone: 44-7720-290967
Email: rik@nprogram.co.uk

Community Based Collaborative Care

Suzanne Gonzales-Webb
US Department of Veterans Affairs
Phone: 619-972-9047
Email: suzanne.gonzales-webb@va.gov

Richard Thoreson
SAMHSA
Phone: 240-276-2827
Email: richard.thoreson@samhsa.hhs.gov

Max Walker
Department of Health
Phone: 61-3-9096-1471
Email: max.walker@health.vic.gov.au

Conformance & Guidance for Implementation/Testing

Wendy Huang
Canada Health Infoway Inc.
Phone: 416-595-3449
Email: whuang@infoway-inforoute.ca

Frank Oemig
HL7 Germany
Phone: 49-208-781194
Email: hl7@oemig.de

Ioana Singureanu
Eversolve, LLC
Phone: 603-870-9739
Email: ioana.singureanu@gmail.com

Robert Snelick
National Institute of Standards &
Technology
Phone: 301-975-5924
Email: robert.snelick@nist.gov

Education

Diego Kaminker
HL7 Argentina
Phone: 54-11-4781-2898
Email: diego.kaminker@kern-it.com.ar

Patrick Loyd
iCode Solutions
Phone: 415-209-0544
Email: patrick.e.loyd@gmail.com

Melva Peters
Jenaker Consulting
Phone: 604-515-0339
Email: jenaker@telus.net

Electronic Health Records

Gary Dickinson
CentriHealth
Phone: 951-536-7010
Email: gary.dickinson@ehr-standards.com

Don Mon, PhD
RTI International
Phone: 312-777-5228
Email: donmon@rti.org

John Ritter
Phone: 412-372-5783
Email: johnritter1@verizon.net

Helen Stevens Love
HL7 Canada
Phone: 250-598-0312
Email: helen.stevens@shaw.ca

Patricia Van Dyke
Delta Dental Plans Association
Phone: 503-243-4492
Email: vandykp@odscompanies.com

Electronic Services

Bill Braithwaite, MD, PhD
Anakam Identity Services, Equifax
Phone: 202-543-6937
Email: bill@braithwaites.com

Lorraine Constable
HL7 Canada
Phone: 780-951-4853
Email: lorraine@constable.ca

HL7 Work Group Co-Chairs, continued

Ken McCaslin

Quest Diagnostics, Incorporated
Phone: 610-650-6692
Email: kenneth.h.mccaslin@questdiagnostics.com

Nat Wong (Interim)

HL7 Australia
Email: nathaniel.wong@HL7.org.au

Emergency Care

Laura Heermann Langford

Intermountain Healthcare
Phone: 801-507-9254
Email: laura.heermann@imail.org

Donald Kamens, MD

XPress Technologies
Phone: 904-296-1189
Email: xpress@gmail.com

James McClay, MD

University of Nebraska Medical Center
Phone: 402-559-3587
Email: jmcclay@unmc.edu

Peter Park

US Department of Defense,
Military Health System
Phone: 202-762-0926
Email: peterjpark@mindspring.com

Financial Management

Kathleen Connor

Edmond Scientific Company
Email: kathleen_connor@comcast.net

Beat Heggli

HL7 Switzerland
Phone: 41-1-806-1164
Email: beat.heggli@nexus-schweiz.ch

Paul Knapp

Knapp Consulting
Phone: 604-987-3313
Email: pknapp@pknapp.com

Health Care Devices

Todd Cooper

80001 Experts, LLC
Phone: 858-435-0729
Email: todd@80001Experts.com

John Garguilo

National Institute of Standards
Email: john.garguilo@nist.gov

Allen Hobbs

Kaiser Permanente
Phone: 510-267-5031
Email: allen.hobbs@kp.org

John Rhoads, PhD

Philips Healthcare
Phone: 978-659-3024
Email: john.rhoads@philips.com

Imaging Integration

Helmut Koenig, MD

Siemens Healthcare
Phone: 49-9131-84-3480
Email: helmut.koenig@siemens.com

Harry Solomon

GE Healthcare
Phone: 847-277-5096
Email: harry.solomon@med.ge.com

Implementable Technology Specifications

Paul Knapp

Knapp Consulting Inc.
Phone: 604-987-3313
Email: pknapp@pknapp.com

Dale Nelson

Lantana Consulting Group
Phone: 916-367-1458
Email: dale.nelson@squarestrends.com

Andy Stechishin

CANA Software & Services Ltd.
Phone: 780-903-0885
Email: andy.stechishin@gmail.com

Infrastructure & Messaging

Anthony Julian

Mayo Clinic
Phone: 507-266-0958
Email: ajulian@mayo.edu

David Shaver

Corepoint Health
Phone: 214-618-7000
Email: dave.shaver@corepointhealth.com

Sandra Stuart

Kaiser Permanente
Phone: 925-924-7473
Email: sandra.stuart@kp.org

International Council

Philip Scott, PhD—

HL7 International Liaison
HL7 UK
Phone: 44-8700-112-866
Email: chair@hl7.org.uk

Helen Stevens Love, MBA—Secretary

HL7 Canada
Phone: 250-598-0312
Email: helen.stevens@shaw.ca

Michael van Campen—Affiliate Liaison

Gordon Point Informatics Ltd.
Phone: 250-881-4568
Email: michael.vancampen@gpinformatics.com

International Mentoring Committee

Diego Kaminker

HL7 Argentina
Phone: 54-11-4781-2898
Email: diego.kaminker@kern-it.com.ar

John Ritter

Phone: 412-372-5783
Email: johnritter1@verizon.net

Marketing Council

Rene Spronk

HL7 Netherlands
Phone: 31-318-553812
Email: rene.spronk@ringholm.com

Edward Tripp

Edward S. Tripp and Associates, Inc.
Phone: 224-234-9769
Email: edward.tripp@estripp.com

Grant Wood

Intermountain Healthcare
Phone: 801-408-8153
Email: grant.wood@imail.org

Mobile Health

Gora Datta

CAL2CAL Corporation
Phone: 949-955-3443
Email: gora@cal2cal.com

Matthew Graham (Interim)

Mayo Clinic
Phone: 507-284-3028
Email: graham.matthew@mayo.edu

Nadine Manjaro

Verizon Business
Phone: 908-559-4143
Email: nadine.manjaro@verizonwireless.com

Modeling And Methodology

George (Woody) Beeler Jr., PhD

Beeler Consulting, LLC
Phone: 507-254-4810
Email: woody@beelers.com

Jean Duteau

Duteau Design Inc.
Phone: 780-328-6395
Email: jean@duteaudesign.com

Grahame Grieve

Health Intersections Pty Ltd
Phone: 61-3-9450-2222

Lloyd McKenzie

HL7 Canada
Email: lloyd@lmckenzie.com

AbdulMalik Shakir

City of Hope National Medical Center
Phone: 626-644-4491
Email: abdulmalik@shakirconsulting.com

Orders/Observations

Hans Buitendijk

Siemens Healthcare
Phone: 610-219-2087
Email: hans.buitendijk@siemens.com

Lorraine Constable

HL7 Canada
Phone: 780-951-4853
Email: lorraine@constable.ca

Robert Hausam, MD

Hausam Consulting
Phone: 801-949-1556
Email: rrrhausam@gmail.com

Patrick Loyd

ICode Solutions
Phone: 415-209-0544
Email: patrick.e.loyd@gmail.com

Ken McCaslin

Quest Diagnostics, Incorporated
Phone: 610-650-6692
Email: kenneth.h.mccaslin@questdiagnostics.com

Organizational Relations Committee

Scott Robertson

Kaiser Permanente
Phone: 310-200-0231
Email: scott.m.robertson@kp.org

Outreach Committee For Clinical Research

Ed Helton, PhD

National Cancer Institute
Phone: 919-465-4473
Email: heltone2@mail.nih.gov

Patient Administration

Alexander deLeon

Kaiser Permanente
Phone: 626-381-4141
Email: alexander.j.deleon@kp.org

Irma Jongeneel-de Haas

HL7 The Netherlands
Phone: +31 681153857
Email: jongeneel@nictiz.nl

Line Saele

Helse Vest IKT
Phone: 47-55976494
Email: line.sele@helse-vest-ikt.no

Patient Care

Stephen Chu, PhD

National eHealth Transition Authority (NEHTA)
Phone: 61-730238448
Email: stephen.chu@nehta.gov.au

Kevin Coonan, MD

Deloitte Consulting LLP
Email: kevin.coonan@gmail.com

William Goossen

HL7 The Netherlands
Phone: 31-654-614458
Email: wgoossen@results4care.nl

Hugh Leslie

Ocean Informatics
Email: hugh.leslie@oceaninformatics.com

Michael Tan (Interim)

NICTIZ
Phone: 31-7031-73450
Email: tan@nictiz.nl

HL7 Work Group Co-Chairs, continued

Ian Townend

NHS Connecting for Health
Phone: 44-113-280-6743
Email: ian.townend@nhs.net

Klaus Veil

HL7 Australia
Phone: 61-412-746-457
Email: klaus@veil.net.au

Patient Safety

Mead Walker

Mead Walker Consulting
Phone: 610-518-6259
Email: dmead@comcast.net

Pharmacy

Tom de Jong

HL7 The Netherlands
Phone: 31-6-3255291
Email: tom@nova-pro.nl

Hugh Glover

HL7 UK
Phone: 44-07889407113
Email: hugh_glover@bluewaveinformatix.co.uk

Melva Peters

Jenaker Consulting
Phone: 604-515-0339
Email: jenaker@telus.net

Scott Robertson (Interim)

Kaiser Permanente
Phone: 310-200-0231
Email: scott.m.robertson@kp.org

Process Improvement Committee

Rita Scichilone

American Health Information Management Association
Phone: 312-233-1502
Email: rita.scichilone@ahima.org

Sandra Stuart

Kaiser Permanente
Phone: 925-924-7473
Email: sandra.stuart@kp.org

Project Services

Rick Haddorff

Mayo Clinic
Phone: 978-296-1462
Email: haddorff.richard@mayo.edu

Freida Hall

Quest Diagnostics, Inc.
Phone: 610-650-6794
Email: freida.x.hall@questdiagnostics.com

Public Health Emergency Response

Joginder Madra

Gordon Point Informatics Ltd.
Phone: 780-717-4295
Email: joginder.madra@gpinformatics.com

Ken Pool

OZ Systems
Phone: 214-631-6161
Email: kpool@oz-systems.com

John Roberts

Tennessee Department of Health
Phone: 615-741-3702
Email: john.a.roberts@tn.gov

Rob Savage

Rob Savage Consulting
Email: robsavage@att.net

Publishing Committee

George (Woody) Beeler Jr., PhD-V3

Beeler Consulting, LLC
Phone: 507-254-4810
Email: woody@beelers.com

Jane Curry-V2/V3

Health Information Strategies Inc.
Phone: 780-459-8560
Email: janecurry@healthinforstrategies.com

Jane Daus-V2

McKesson Provider Technologies
Phone: 847-495-1289
Email: jane.daus@mckesson.com

Brian Pech-V2

Kaiser Permanente
Phone: 678-245-1762
Email: brian.pech@kp.org

Andrew Stechishin-V3

CANA Software & Services Ltd.
Phone: 780-903-0855
Email: andy.stechishin@gmail.com

Sandra Stuart-V2

Kaiser Permanente
Phone: 925-924-7473
Email: sandra.stuart@kp.org

Regulated Clinical Research Information Management

Ed Helton, PhD

National Cancer Institute
Phone: 919-465-4473
Email: heltone2@mail.nih.gov

Armando Oliva, MD

Food & Drug Administration
Phone: 301-796-8126
Email: armando.oliva@fda.hhs.gov

Edward Tripp

Edward S. Tripp & Associates, Inc.
Phone: 224-234-9769
Email: edward.tripp@estripping.com

RIM Based Application Architecture

Peter Hendler, MD

Kaiser Permanente
Phone: 510-248-3055
Email: peter@javamedical.com

Rene Spronk

HL7 The Netherlands
Phone: 33-318-553812
Email: rene.spronk@ringholm.com

Andy Stechishin

CANA Software & Services Ltd.
Phone: 780-903-0855
Email: andy.stechishin@gmail.com

Security

Bernd Blobel, PhD

HL7 Germany; University of Regensburg Medical Center
Phone: 49-700-7777-6767
Email: bernd.blobel@klinik.uni-regensburg.de

Mike Davis

US Department of Veterans Affairs
Phone: 760-632-0294
Email: mike.davis@va.gov

John Moehrke

GE Healthcare
Phone: 920-912-8451
Email: john.moehrke@med.ge.com

Patricia Williams

Edith Cowan University
Phone: 61-863045039
Email: trish.williams@ec.edu.au

Services Oriented Architecture

Gerald Beuchelt

The MITRE Corporation
Email: beuchelt@mitre.org

Don Jorgenson

Inpriva, Inc.
Phone: 970-472-1441
Email: djorgenson@inpriva.com

Stefano Lotti (Interim)

HL7 Italy
Phone: 39-06-421-60538
Email: slotti@invitalia.it

Vince McCauley

McCauley Software Pty Ltd
Phone: 61-298-186493
Email: vincem@bigpond.com.au

Ken Rubin

Hewlett-Packard Enterprises Services
Phone: 703-845-3277
Email: ken.rubin@hp.com

Structured Documents

Calvin Beebe

Mayo Clinic
Phone: 507-284-3827
Email: cbeebe@mayo.edu

Diana Behling (Interim)

Iatric Systems
Phone: 978-805-3159
Email: diana.behling@iatric.com

Robert Dolin, MD

Lantana Consulting Group
Phone: 714-532-1130
Email: bob.dolin@lantanagroup.com

Austin Kreisler

Science Applications International Corp (SAIC)
Phone: 404-542-4475
Email: austin.j.kreisler@saic.com

Patrick Loyd (Interim)

ICode Solutions
Phone: 415-209-0544
Email: patrick.e.loyd@gmail.com

Brett Marquard

River Rock Associates LLC
Email: brett@riverrockassociates.com

Templates

Kai Heitmann

HL7 Germany
Phone: 49-17722660814
Email: hl7@kheitmann.de

John Roberts

Tennessee Department of Health
Phone: 615-741-3702
Email: john.a.roberts@tn.gov

Mark Shafarman

Shafarman Consulting
Phone: 510-593-3483
Email: mark.shafarman@earthlink.net

Tooling Committee

Andy Stechishin

CANA Software & Services Ltd.
Phone: 780-903-0855
Email: andy.stechishin@gmail.com

Michael Van der Zel

HL7 The Netherlands
Phone: +31 503619876
Email: m.van.der.zel@umcg.nl

Vocabulary

Jim Case

National Library of Medicine
Phone: 530-219-4203
Email: james.case@mail.nih.gov

Heather Grain

Standards Australia, eHealth Education
Phone: 613-956-9943
Email: heather@lginformatics.com

Russell Hamm

Lantana Consulting Group
Phone: 507-271-0227
Email: russ.hamm@lantanagroup.com

Robert Hausam

Hausam Consulting
Phone: 801-949-1556
Email: rrrhausam@gmail.com

William T. Klein

Klein Consulting, Inc.
Phone: 631-924-6922
Email: kci@tklein.com

HL7 FACILITATORS

Steering Division Facilitators

Rick Haddorff

Mayo Clinic/Foundation
Structure & Semantic Design
Phone: 978-296-1462
Email: haddorff.richard@mayo.edu

Lynn Laakso

Health Level Seven International
Foundation & Technology
Phone: 906-361-5966
Email: lynn@HL7.org

Dave Hamill

Health Level Seven International
Technical & Support Services
Phone: 734-677-7777
Email: dhamill@HL7.org

Modeling and Methodology Facilitators

George (Woody) Beeler, Jr., PhD

Beeler Consulting LLC
Facilitator-at-Large
Phone: 507-254-4810
Email: woody@beelers.com

Charlie Bishop

iSoft
Clinical Statement
Phone: 44-7989-705-395
Email: cbishop25@csc.com

Bernd Blobel, PhD

HL7 Germany
Security
Phone: 49-941-944-6767
Email: bernd.blobel@klinik.uni-regensburg.de

Kathleen Connor

Edmond Scientific
Financial Management
Email: kathleen_connor@comcast.net

Kevin Coonan, MD

Deloitte Consulting LLP
Emergency Care
Email: kevin.coonan@gmail.com

Norman Daoust

Daoust Associates
Anatomic Pathology
Phone: 617-491-7424
Email: normand@daoustassociates.com

Jean Duteau

Duteau Design Inc.
Patient Care; Pharmacy
Phone: 780-328-6395
Email: jean@duteaudesign.com

Hugh Glover

Blue Wave Informatics
Medication
Phone: 44-0-7889-407-113
Email: hugh_glover@bluewaveinformatics.co.uk

Grahame Grieve

Health Intersections Pty Ltd
Infrastructure & Messaging
Phone: 61-3-9450-2222
Email: grahame@healthintersections.com.au

Alexander Henket

HL7 Netherlands
Patient Administration
Email: alexander.henket@enovation.nl

William "Ted" Klein

Klein Consulting, Inc.
Vocabulary
Phone: 631-924-6922
Email: kci@tklein.com

Austin Kreisler

Science Applications International Corporation (SAIC)
Structured Documents
Phone: 404-542-4475
Email: austin.j.kreisler@saic.com

Patrick Loyd

ICode Solutions
Orders & Observations
Phone: 415-209-0544
Email: patrick.e.loyd@gmail.com

Joginder Madra

Gordon Point Informatics Ltd.
Immunization; PHER
Phone: 780-717-4295
Email: joginder.madra@gpinformatics.com

Dale Nelson

Lantana Consulting Group
Implementable Technology Specifications
Phone: 916-367-1458
Email: dale.nelson@squaretrends.com

Lloyd McKenzie

HL7 Canada; Gordon Point Informatics
Facilitator-at-Large
Email: lloyd@lmckenzie.com

Craig Parker, MD

Intermountain Healthcare
Clinical Decision Support
Phone: 801-859-4480
Email: craig.parker@imail.org

Amnon Shabo, PhD

IBM
Clinical Genomics
Phone: 972-544-714070
Email: shabo@il.ibm.com

AbdulMalik Shakir

City of Hope National Medical Center
Clinical Interoperability Council; Modeling & Methodology
Phone: 626-644-4491
Email: abdulmalik@shakirconsulting.com

Ioana Singureanu

Eversolve, LLC
CBCC; Health Care Devices
Phone: 603-870-9739
Email: ioana.singureanu@gmail.com

Corey Spears

Medicity
Electronic Health Records
Phone: 917-426-7397
Email: spearsc2@aetna.com

Mead Walker

Mead Walker Consulting
Patient Safety; RCRIM
Phone: 610-518-6259
Email: dmead@comcast.net

Publishing Facilitators

Becky Angeles

ESAC Inc.
RCRIM
Phone: 972-437-5001
Email: rebecca.angeles@esacinc.com

Douglas Baird

Boston Scientific Corporation
Templates
Phone: 651-582-3241
Email: douglas.baird@guidant.com

Mike Davis

US Department of Veterans Affairs
Security
Phone: 760-632-0294
Email: mike.davis@va.gov

Jean Duteau

Duteau Design Inc.
PHER
Phone: 780-328-6395
Email: jean@duteaudesign.com

Isobel Frean

Bupa Group
Clinical Statement
Phone: 44-207-656-2146
Email: isobelfrean@btinternet.com

Peter Gilbert

Covisint
Structured Documents
Phone: 313-227-0358
Email: peter.gilbert@covisint.com

Robert Hallowell

Siemens Healthcare
Medication; Pharmacy
Phone: 610-219-5612
Email: robert.hallowell@siemens.com

Alexander Henket

HL7 Netherlands
Patient Administration
Email: alexander.henket@enovation.nl

Anthony Julian

Mayo Clinic
Infrastructure & Messaging
Phone: 507-266-0958
Email: ajulian@mayo.edu

Helmut Koenig, MD

Siemens Healthcare
Imaging Integration
Phone: 49-9131-84-3480
Email: helmut.koenig@siemens.com

Austin Kreisler

Science Applications International Corporation (SAIC)
Orders & Observations
Phone: 404-542-4475
Email: austin.j.kreisler@saic.com

Margaret (Peggy) Leizear

Food and Drug Administration
RCRIM
Phone: 301-827-5203
Email: peggy.leizear@fda.hhs.gov

Mary Kay McDaniel

Cognosante, LLC
Financial Management
Phone: 602-300-4246
Email: mk_mcdaniel@hotmail.com

HL7 FACILITATORS, continued

Dale Nelson

Lantana Consulting Group
CMET; Implementable Technology Specifications
Phone: 916-367-1458
Email: dale.nelson@square-trends.com

Frank Oemig

HL7 Germany
German Realm
Phone: 49-208-781194
Email: hl7@oemig.de

Craig Parker, MD

Intermountain Healthcare
Clinical Decision Support
Phone: 801-859-4480
Email: craig.parker@imail.com

John Ritter

Electronic Health Records
Phone: 412-372-5783
Email: johnritter1@verizon.net

Ioana Singureanu

Eversolve, LLC
CBCC
Phone: 603-870-9739
Email: ioana.singureanu@gmail.com

Margarita Sordo

Partners HealthCare System, Inc.
Gello
Phone: 781-416-8479
Email: msordo@dsg.harvard.edu

Anita Walden

Duke Translational Medicine Institute
Clinical Interoperability Council
Phone: 919-668-8256
Email: anita.walden@duke.edu

Grant Wood

Intermountain Healthcare
Clinical Genomics
Phone: 801-408-8153
Email: grant.wood@imail.org

Vocabulary Facilitators

Paul Biondich, MD

IU School of Medicine
Child Health
Phone: 317-278-3466
Email: mollewis@iupui.edu

Kathleen Connor

Edmond Scientific
Financial Management
Email: kathleen_connor@com-cast.net

Kevin Coonan, MD

Deloitte Consulting LLP
Emergency Care
Email: kevin.coonan@gmail.com

Guilherme Del Fiol, MD

University of Utah Health Care
Clinical Decision Support
Phone: 919-213-4129
Email: guilherme.delfiol@utah.edu

Christof Gessner

HL7 Germany
Health Care Devices
Phone: 49-172-3994033
Email: gessner@mxdx.de

Margaret Haber, BSN, RN, OCN

National Cancer Institute
RCRIM
Phone: 301-594-9185
Email: mhaber@mail.nih.gov

W. Edward Hammond, PhD

Duke Translational Medicine Institute
Templates
Phone: 919-383-3555
Email: hammo001@mc.duke.edu

Monica Harry

Gordon Point Informatics
PHER
Email: monica.harry@gpinformatics.com

Robert Hausam, MD

Hausam Consulting
Orders & Observations; Structured Documents
Phone: 801-949-1556
Email: rrhausam@gmail.com

Joyce Hernandez

Merck & Co. Inc.
Clinical Genomics
Phone: 732-594-1815
Email: joyce_hernandez@merck.com

Wendy Huang

Canada Health Infoway Inc.
Patient Administration
Phone: 416-595-3449
Email: whuang@infoway-inforoute.ca

Julie James

Blue Wave Informatics
Medication; Pharmacy
Email: julie_james@bluewaveinformatics.co.uk

William "Ted" Klein

Klein Consulting, Inc.
Modeling & Methodology
Phone: 631-924-6922
Email: kci@tklein.com

Susan Matney

3M Health Information Systems
Patient Care
Phone: 801-265-4326
Email: samatney@mmm.com

Robert McClure, MD

CBCC
Phone: 303-926-6771
Email: rmccclure@mdpartners.com

Sarah Ryan

Clinical Interoperability Council
Email: ryansarah1@earthlink.net

Harold Solbrig

Apelon, Inc.
Modeling & Methodology
Phone: 807-993-0269
Email: hsolbrig@apelon.com

Harry Solomon

GE Healthcare
Imaging Integration
Phone: 847-277-5096
Email: harry.solomon@med.ge.com

Sandra Stuart

Kaiser Permanente
Infrastructure & Messaging
Phone: 925-924-7473
Email: sandra.stuart@kp.org

Pat Van Dyke

Delta Dental Plans Association
Electronic Health Records
Phone: 503-243-4992
Email: vandykp@odscompanies.com

Tony Weida

Apelon
Security
Email: weida@apelon.com





AFFILIATE CONTACTS

HL7 Argentina

Fernando Campos

Phone: +54-11-4781-2898

Email: fernando.campos@hospitalitaliano.org.ar

HL7 Australia

Richard Dixon Hughes

Email: richard@dh4.com.au

HL7 Austria

Stefan Sabutsch

Phone: +43-664-3132505

Email: standards@sabutsch.at

HL7 Bosnia and Herzegovina

Samir Dedovic

Phone: +387 0-33-721-911

Email: samir.dedovic@medit.ba

HL7 Brazil

Marivan Santiago Abrahao, MD

Phone: +55-11-3045-3045

Email: marivan@mac.com

HL7 Canada

Melva Peters

Phone: +604-515-0339

Email: melva.peters@gpinformatics.com

HL7 China

Prof. Baoluo Li

Phone: +86-010-65815129

Email: liblpumch@gmail.com

HL7 Colombia

Fernando Portilla

Phone: +57 2-5552334 x241

Email: fportila@gmail.com

HL7 Croatia

Miroslav Koncar

Phone: +385-99-321-2253

Email: miroslav.koncar@oracle.com

HL7 Czech Republic

Libor Seidl

Phone: +420 605740492

Email: seidl@hl7cr.eu

HL7 Finland

Juha Mykkanen, PhD

Phone: +358-403552824

Email: juha.mykkanen@uef.fi

HL7 France

Nicolas Canu

Phone: +33 02-35-60-41-97

Email: nicolas.canu@wanadoo.fr

HL7 Germany

Kai Heitmann, MD

Phone: +49-172-2660814

Email: hl7@kheitmann.de

HL7 Greece

Alexander Berler

Phone: +30-2111001691

Email: a.berler@gnomon.com.gr

HL7 Hong Kong

Dr. Chung Ping Ho

Phone: +852 34883762

Email: chair@hl7.org.hk

HL7 India

Lavanian Dorairaj, MBBS, MD

Email: chairman@hl7india.org

HL7 Italy

Stefano Lotti

Phone: +39-06-42160685

Email: slotti@invitalia.it

HL7 Japan

Michio Kimura, MD, PhD

Phone: +81-3-3506-8010

Email: kimura@mi.hama-med.ac.jp

HL7 Korea

Byoung-Kee Yi, PhD

Phone: +82 234101944

Email: byoungkeeyi@gmail.com

HL7 Luxembourg

Stefan Benzschawel

Phone: +352-425-991-x2889

Email: stefan.benzschawel@tudor.lu

HL7 Mexico

Pablo Ceballos Yanez

Phone: +52 55-5261-4000

Email: pablo.ceballos@draeger.com

HL7 Netherlands

Robert Stegwee, MSc, PhD

Phone: +31-30-689-2730

Email: robert.stegwee@capgemini.com

HL7 New Zealand

David Hay

Phone: +64-9-638-9286

Email: david.hay25@gmail.com

HL7 Norway

Terje Halvorsen

Email: th@vali.no

HL7 Pakistan

Dr. Hafiz Farooq Ahmad

Phone: +92 51-90852155

Email: farooq.ahmad@seecs.edu.pk

HL7 Puerto Rico

Julio Cajigas

Phone: +1 787-805-0505 x6003

Email: julio@medirecpr.com

HL7 Romania

Florica Moldoveanu, PhD

Phone: +40-21-4115781

Email: florica.moldoveanu@rdslink.ro

HL7 Russia

Tatyana Zarubina MD, PhD

Phone: +007-495-434-55-82

Email: tv.zarubina@gmail.com

HL7 Singapore

Adam Chee

Email: hl7@binaryhealthcare.com

HL7 Spain

Carlos Gallego Perez

Phone: +34-93-693-18-03

Email: cgallego@ticsalut.cat

HL7 Sweden

Gustav Alvfeldt

Phone: +46 08-123-13-117

Email: gustav.alvfeldt@sl.se

HL7 Switzerland

Beat Heggli

Phone: +41-1-806-1164

Email: beat.heggli@nexus-schweiz.ch

HL7 Taiwan

Chih-Chan (Chad) Yen

Phone: +886-2-2552-6990

Email: cyen@linkmedasia.com

HL7 Turkey

Ergin Soysal, MD, PhD

Email: esoysal@gmail.com

HL7 UK

Philip Scott, PhD

Phone: +44 8700-112-866

Email: chair@hl7.org.uk

HL7 Uruguay

Selene Indarte

Phone: +598 5-711-0711

Email: hclinica@suat.com.uy

2013 HL7 STAFF

Chief Executive Officer



Charles Jaffe, MD, PhD
+ 1-858-720-8200
cjaffe@HL7.org

Chief Technical Officer



John Quinn
+ 1-216-409-1330
jquinn@HL7.org

Executive Director



Mark McDougall
+ 1-734-677-7777
markmcd@HL7.org

Associate Executive Director



Karen Van Hentenryck
+ 1-734-677-7777
karenvan@HL7.org

Director of Meetings



Lillian Bigham
+ 1-989-736-3703
lillian@HL7.org

Manager of Education



Mary Ann Boyle
+ 1-734-677-7777
maryann@HL7.org

Web Development Coordinator



Joshua Carmody
+ 1-734-677-7777
joshua@HL7.org

Director of Education



Sharon Chaplock, PhD
+ 1-414-443-1327
sharon@HL7.org

Director, Project Management Office



Dave Hamill
+ 1-734-677-7777
dhamill@HL7.org

Manager of Administrative Services



Linda Jenkins
+ 1-734-677-7777
linda@HL7.org

Director of Technical Services



Michael Kingery
+ 1-919-636-4032
mkingery@HL7.org

TSC Project Manager



Lynn Laakso
+ 1-906-361-5966
lynn@HL7.org

Director of Technical Publications



Donald Lloyd, PhD
+ 1-734-677-7777
dlloyd@HL7.org

Director of Communications



Andrea Ribick
+ 1-734-677-7777
andrea@HL7.org

Director of Membership Services



Diana Stephens
+ 1-734-677-7777
diana@HL7.org

2013 HL7 BOARD OF DIRECTORS

Chair



Donald Mon, PhD
RTI International
+ 1-312-777-5228
donmon@rti.org

Chair-Elect



Robert Dolin, MD
Lantana Consulting Group
+ 1-714-532-1130
bob.dolin
@lantanagroup.com

Treasurer



Calvin Beebe
Mayo Clinic
+ 1-507-284-3827
cbeebe@mayo.edu

Chair Emeritus & Secretary



**W. Edward
Hammond, PhD**
+ 1-919-383-3555
hammo001@mc.duke.edu

Technical Steering Committee Chair



Austin Kreisler
Science Applications
International Corp. (SAIC)
+ 1-404-542-4475
austin.j.kreisler@saic.com

Directors-at-Large



Keith Boone
GE Healthcare
+ 1-617-519-2076
keith.boone@ge.com



James Ferguson
Kaiser Permanente
+ 1 510-271-5639
jamie.ferguson@kp.org



Douglas Fridsma, MD, PhD
Office of the National
Coordinator for Health IT
+ 1-202-205-4408
doug.fridsma@hhs.gov



Stanley Huff, MD
Intermountain Healthcare
+ 1-801-442-4885
stan.huff@imail.org

Affiliate Directors



Rebecca Kush, PhD
CDISC
+ 1-512-791-7612
rkush@cdisc.org



Edward Tripp
Edward S Tripp
and Associates, Inc.
+ 1-224-234-9769
edward.tripp@estripp.com



Patricia Van Dyke
Delta Dental Plans
Association
+ 1 503-243-4492
vandykp@odscpanies.com



Diego Kaminker
HL7 Argentina
+ 54-11-4781-2898
diego.kaminker
@kern-it.com.ar



Helen Stevens Love, MBA
HL7 Canada
+ 1-250-598-0312
helen.stevens@shaw.ca

Ex Officio Members



Charles Jaffe, MD, PhD
HL7 CEO
+ 1-858-720-8200
cjaffe@HL7.org



John Quinn
HL7 CTO
+ 1-216-409-1330
jqinn@HL7.org



Mark McDougall
HL7 Executive Director
+ 1-734-677-7777
markmcd@HL7.org



Richard Dixon Hughes
HL7 Australia / DH4 Pty Limited
richard@dh4.com.au

Advisory Council Chair

HL7 EDUCATIONAL OFFERINGS

Gain real-world HL7 knowledge

TODAY

that you can apply

TOMORROW



NEW! HL7 Skill Building Webinars

These instructional webinars bring the core curriculum out of HL7 meeting classrooms and into participants' homes and offices, allowing students flexible access to the core foundational principles provided in face-to-face HL7 tutorials.

Upcoming Webinars

Introduction to Version 2

Part 1: Control/Patient Administration
May 14 & 16, 2013

Part 2: Orders and Observations
May 21 & 23, 2013

Introduction to Version 3

Part 1: Fundamentals
May 28 & 30, 2013

Introduction to Version 3

Part 2: Messaging
June 4 & 7, 2013

Introduction to CDA

June 11 & 13, 2013

Advanced CDA

June 18 & 20, 2013

V3 RIM Specialist Certification Review

June 27, 2013

Educational Summit: HL7 & Meaningful Use Hands-On Workshop

A special edition with two tracks--Version 2.x and CDA. This summit combines live tutorial sessions with hands-on work with the standards needed to comply with the Meaningful Use rules.

July 9–11, 2013
Embassy Suites Hotel
Chevy Chase Pavilion
Washington, DC



Upcoming **WORKING GROUP MEETINGS**



September 22 – 27, 2013
**27th Annual Plenary &
Working Group Meeting**

Hyatt Regency Cambridge
Cambridge, MA



January 12 – 17, 2014
Working Group Meeting
Hilton in the Walt Disney World Resort®
Lake Buena Vista, FL



May 4 – 9, 2014
Working Group Meeting
Pointe Hilton Squaw Peak Resort
Phoenix, AZ



September 14 – 19, 2014
**28th Annual Plenary
& Working Group Meeting**
Hilton Chicago Hotel, Chicago, IL



January 18 – 23, 2015
Working Group Meeting
Hyatt Regency on the Riverwalk
San Antonio, TX



October 4 – 9, 2015
**29th Annual Plenary &
Working Group Meeting**
Sheraton Atlanta Hotel
Atlanta, GA