

# HL7 2006

The Future of Integration

Final

**Conference 25-26 October 2006**

**Tutorials 24 October 2006**

Hotel Russell, Russell Square, London

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*Connecting for Health*





## Programme Chair's Welcome

It gives me great pleasure to invite you to the fourth annual HL7 UK Conference and Exhibition, which follows the same successful formula as in previous years. The main conference sessions are all held in plenary and are fast moving. They are supported by an exhibition and pre-conference tutorials.

This year's theme is "The Future of Integration". Many HL7 developments in the last year, both nationally and internationally, are likely to have a significant impact on us in the near future.

This year we have a rich and varied programme. Keynote speakers include Jagdip Grewal, Chief Technical Architect for NHS Connecting for Health, Wes Rishel, Research Director, Gartner Group, Norbert Mikula of Intel, Charles Parisot of GE Healthcare and Gaby Jewell of Cerner.

Other topics this year are UK-wide interoperability, the use of SNOMED CT for semantic integration, the business benefits of standards and state-of-the-art ways of enhancing HL7 methods and tools.

In addition, tutorials will be offered on the NHS CFH UML-ITS project, new ideas from the US government to enabling healthcare interoperability, TermInfo (using SNOMED CT with HL7) and CDA (Clinical Document Architecture).

HL7 UK 2006 is your chance to hear about and contribute to the debate about how to deliver healthcare interoperability using HL7. I very much look forward to seeing you there.

Laura Sato

Chair, HL7 UK 2006 Programme Committee  
Informatics Standards Lead  
Communications & Messaging  
NHS Connecting for Health

## Programme

### Wednesday 25 October

- 09:15 **Registration and Coffee**  
National perspectives on the future of integration  
*Chair: **Charlie McCay**, Owner, Ramsey Systems Ltd*
- 09:45 Welcome and HL7 UK Update.  
***Charlie McCay**, Chair HL7 UK*
- 10:00 Developments in US and HL7.org  
***Wes Rishel**, Vice-President, Gartner, Director at Large, HL7 Board*
- 10:40 NHS CFH the way ahead - How standards for integration will enable key business objectives.  
***Jagdeep Grewal**, Chief Technical Architect, NHS Connecting for Health*
- 11:25 **Coffee Break**  
Standards Strategies  
*Chair: **Andrew Hinchley**, Spine Strategist, Cerner Ltd*
- 11:45 Tactical and strategic use of HL7 specifications  
***Charlie McCay**, Ramsey Systems*
- 12:10 Making interoperability specifications easier to understand  
***Tim Benson**, Abies*
- 12:35 Integrating the Healthcare Enterprise and standards conformance – benefits to users and implementers  
***Nicholas Brown**, IHE-UK*
- 13:00 **Lunch**
- 14:00 PANEL: Are UK-wide interoperability standards possible?  
*Moderator: **Martin Whittaker**, Touchstone Consultancy.*  
***Paul Woolman**, Clinical Information Standards Manager, NHS Information Services Scotland*  
***Ann Wrightson**, Principal Consultant, CSW Group*  
***Jeremy Thorp**, Chair BSI IST/35; Director of Business Requirements, NHS CFH*  
***Allan Dickinson**, Head of Technical Design, Informing Healthcare, NHS Wales*
- 15:20 **Coffee Break**  
Using SNOMED for semantic integration  
*Chair: **Rik Smithies**, NHS CFH*
- 15:45 Safe exchange of SNOMED structured information,  
***Grant Kelly**, SSeRP, NHS CFH*
- 16:10 HL7 Terminology a standard for using SNOMED in HL7 communication.  
***David Markwell**, Clinical Information Consultancy*
- 16:35 Practical implementation of SNOMED CT.  
***Chris Wroe** BT Global Services*
- 17:00 **Close**
- 19:00 **Evening Event** RS Hispaniola, Victoria Embankment, near Embankment Station

## Thursday 26 October

- 09:00 **Registration and Coffee**  
The business benefits of standards  
*Chair: **Mike Robinson**, Medical Director, INPS*
- 09:30 Business benefits of standards: theory and practice.  
***Norbert Mikula**, Director - EHR Technology, Digital Health Group, Intel Corporation*
- 10:00 Standards – The Benefits to Business  
***Gaby Jewell**, Strategist, Cerner Corporation, Kansas City, USA*
- 10:25 Practical conditions for business adoption of standards. ***Charles Parisot**, Manager Standards and Testing, GE Healthcare, Buc, France.*
- 10:50 **Coffee Break**  
Implementing HL7  
*Chair: **Charlie Bishop**, ccClarion*
- 11:15 Optimising workflow and business processes associated with the delivery of seamless care to older people.  
***Isobel Freen**, University of Wollongong, Australia*
- 11:45 Formulating a strategy for systems integration and selecting an integration engine.  
***Philip Firth**, Wrightington, Wigan and Leigh NHS Trust*
- 12:15 When is a standard not a standard? The case for unifying LSP approaches to local interfacing.  
***Philip Scott**, Head of It Projects and Development, Portsmouth Hospitals*
- 12:45 **Lunch**  
Enhancing HL7, Chair: ***Hugh Glover**, Blue Wave Informatics*
- 13:45 HL7 Version 3 – a new implementation direction.  
***Grahame Grieve**, CTO, Jiva Medical, Australia*
- 14:15 HL7 tooling collaborative.  
***Richard Kavanagh**, Development Manager, Messaging and Communications, NHS Connecting for Health*
- 14:40 V3 Lite: simplifying the exchange of V3 messages.  
***Robert Worden**, Charteris Plc*
- 15:05 HL7 UK laboratory messages profile.  
***Patrick Mitchell-Jones**, Chair-elect HL7 UK*
- 15:30 **Coffee Break**
- 15:50 PANEL - Is meaningful communication possible without a common record architecture?  
*Moderator: **David Markwell**, Clinical Information Consultancy*  
***Mike Bainbridge**, Clinical Architect, NHS CFH Common User Interface Project*  
***Ben Stock**, Chief Technical Officer, WCI*  
***Malcolm Newbury**, Sun Microsystems*  
***Julie James**, Blue Wave Informatics*
- 16:55 Closing Remarks.  
***Laura Sato**, Chair HL7 UK 2006 Programme Committee.*

## Tutorials

All Tutorials are held in the Hotel Russell Business Centre and are 3 hours. The fee is £75 per person for Conference delegates or £165 for others.

### **Tutorial T1: The US Nationwide Health Information Network: A Market-Based Approach to Clinical Interoperability**

**Wes Rishel**, Vice President, Gartner Inc, USA

10:00 to 13:00 Tuesday 24 October 2006

Most nations' programs for clinical interoperability have very similar goals: improving the quality and efficiency of care, increasing patient satisfaction and fraud prevention. The approach developed by David Brailer in the US focuses on the government as an enabler for an IT market. This presentation describes this path and current progress along it.

### **Tutorial T2: UML ITS Considerations: Implications for Implementors**

**Grahame Grieve**, CTO, Jiva Medical, Australia

10:00 to 13:00 Tuesday 24 October 2006

The UML ITS project has been intended to provide a new direction for the implementation issues associated with HL7 V3 in the context of the NHS CFH projects. In addition, there has been strong inputs from the NHS CFH message simplification research, and from CEN 13606 investigations. This tutorial reviews the goals and inputs to the UML ITS project in depth. In addition, it will explore the technical nature of the solution proposed, how it is intended to ease implementation concerns, and then discuss what outstanding issues still remain for further research. Finally, I will discuss the wider context of the work, and then there will be an opportunity to debate issues that arise.

### **Tutorial T3: HL7 Terminfo and SNOMED CT**

**David Markwell**, Principal Consultant, The Clinical Information Consultancy Ltd, Reading

2pm to 5pm Tuesday 24 October 2006

The HL7 Terminfo Project has specified standard guidelines for the interface between terminologies, such as SNOMED CT, and HL7 information models. This tutorial outlines the requirements for meaningful communication of detailed clinical information. It looks at the way that both terminologies and information models contribute to meeting this requirement and identifies the potential gaps and overlaps between them. The second part of the tutorial addresses the practical implications of these points to the use of SNOMED CT concepts in specifications based on the HL7 V3.

### **Tutorial T4: Clinical Document Architecture (CDA)**

**Ann Wrightson**, Principal Consultant, CSW Group Ltd, Oxford

2pm to 5pm Tuesday 24 October 2006.

Clinical Document Architecture (CDA) is HL7's specification for exchanging clinical information using a document paradigm and HL7 V3. CDA has been adopted by NHS CFH as the common basis for clinical messages in the MIM, from release 6.0 onwards. This tutorial is in two parts: the first presents the CDA business case, primary design principles and some simple examples; the second part outlines the approach to CDA being taken by NHS CFH Comms & Messaging, followed by an opportunity for questions and discussion.

## Faculty



**Mike Bainbridge** is clinical architect for the NHS Connecting for Health programme. He is responsible for the common user interface programme. Mike is a past chairman of the British Computer Society's primary health care specialist group and an editorial board member of the Journal of Informatics in Primary Care. He is a former GP.



**Tim Benson** established Abies in 1980. He provides consultancy and education in healthcare interoperability (HL7), clinical terminology (SNOMED CT) and e-Commerce. He is co-chair of the HL7 Education Committee and is a certified trainer. He has written two books on health informatics.



**Charlie Bishop** is a founder of ccClarion Ltd, specializing in HL7 consultancy. Most recently he was the HL7 technical lead in the team designing and documenting the HL7 V3 messages for NASP to LSP integration for the NPfIT. He held various positions at McKesson developing their HISS product for both the NHS and private health sector.



**Nicholas Brown** read Physics at university. He spent 20 years at The Institute of Nuclear Medicine at Middlesex Hospital Medical School where he undertook research, teaching and responsibilities for the technical aspects of a diagnostic imaging service. His PhD thesis subject was medical image processing. He has worked in Digital Imaging and PACS for a number of years including standards development. He is a member of HL7 Image Integration SIG and chair of the IHE-UK steering committee.



**Allan Dickinson** is Head of Technical Design for the Informing Healthcare programme in NHS Wales. He is responsible for co-ordinating the national architecture for healthcare information systems in Wales, and in particular is involved in interoperability discussions within Wales in terms of identifying requirements, and with other UK home countries representatives via the UK IM&T Forum and its recently formed working group to discuss this issue.



Isobel Frean is Healthcare Markets Consultant at BUPA Group IS. She has recently completed her doctoral research, modelling communication requirements in aged care using HL7 V3 methods at the University of Wollongong, Australia. She is an active participant in HL7's patient care and clinical statement committees.



**Philip Firth** is IM&T Strategy Implementation Manager, Wrightington, Wigan and Leigh NHS Trust. He is responsible for implementing electronic patient records (EPR) and NPfIT. He also leads on systems integration, which is playing a major role in the successful roll-out of EPR and development of plans for a smooth transition to NHS Care Records. He is a member of the management board of HL7 UK.



**Hugh Glover** is Partner at Blue Wave Informatics. He joined First Databank in 1989 rising to become Managing Director from 1998 to 2002. He is Modelling and Methodology facilitator for the Medication Information Special Interest Group of HL7 and is Chair of the Technical Committee of HL7-UK.



**Jagdip Grewal** leads the architecture and messaging teams at NHS CFH. His background includes management and enterprise architect roles in premier financial and professional services firms, as well as executive roles in internet start-ups. He has a Computer Science degree from Cambridge University and a MBA from London Business School.



**Grahame Grieve** has experience in healthcare, software development, interoperability and standards development. Currently he is: CTO of Jiva Medical, and also has the following roles:

- \* Project Lead for Eclipse OHF & HL7 tools in OHF
- \* Co-chair for HL7 Infrastructure and Messaging
- \* Lead Messaging Architect for NHS CFH

**Andrew Hinchley** is Spine Strategy Specialist, Cerner Ltd



**Julie James** is a partner at Blue Wave Informatics. Trained as a pharmacist with experience in both primary and secondary care, she has worked for First DataBank, the UKCPRS project and on HL7. She is Co-Chair of the HL7 Medication Information Special Interest Group.



**Richard Kavanagh** is the Development Manager for the Communications and Messaging team with NHS Connecting for Health. He and his team develop the MIM (Message Implementation Manual) that specify the HL7 messages to be used within the programme. Richard is currently the Project Directorate Lead for the HL7 Tooling Collaborative.

**Grant Kelly** is SNOMED Clinical Lead for NHS CFH and has been a GP for 25 years. He has wide experience of the medico-political world of IT in clinical practice.



**David Markwell** has been the principal consultant of the Clinical Information Consultancy since 1989. David is a consultant to the SNOMED International Standards Board and Chair of the SNOMED Concept Model Working Group. His consulting activities are concerned with health record structures, use of clinical terminology and standards for communication of clinical information. He is an active participant in HL7 activities including the HL7 Clinical Statement Project and the HL7 TermInfo Project – which is developing standard guidelines for use of SNOMED CT in HL7 based communications.



**Charlie McCay** is chair of HL7UK and co-chair of the HL7 XML and Implementation committees. For the last eight years he has been working on a range national projects to deliver healthcare interoperability in the UK. The combination of standards development work, and practical project focused activity provides the basis for looking at how HL7 specifications are currently being used and could better be used to support healthcare interoperability in the UK.



**Norbert Mikula** is Director of EHR Technology in Intel's Digital Health Group where he is responsible to support the adoption of interoperable, economically feasible, Electronic Health Records Systems world-wide. Norbert has spent a decade supporting the development and adoption of interoperable standards-based systems. He has served as Vice-Chair of the Board of OASIS (Organization for the Advancement of Structured Information Standards) as well as WS-I (Web Services Interoperability Organization).



**Patrick Mitchell Jones** is chair-elect of HL7 UK. Patrick is a Laboratory domain expert and has been involved with Healthcare IT for over 20 years both as an NHS user and as a Product Manager for a supplier. He was heavily involved in the definition of the HL7 v2 UK Implementation guide for Laboratory messages and has provided considerable input into the HL7 v3 Laboratory domain.



**Charles Parisot** is with the Integrated Information Technology Solutions business of GE Healthcare. He coordinates globally GE products implementation of interoperability standards. Engaged in healthcare standardization for over 15 years, he was instrumental in the launch of the Integrating the Healthcare Enterprise initiative, a novel initiative to overcome the barriers to effective standards-based interoperability.

**Mike Robinson** is Medical Director of INPS, a leading primary care systems supplier, and is also a part-time General Practitioner. He is a Board Director of HL7 UK and closely involved in the implementation of SNOMED CT.



**Wes Rishel** is a Vice-President of the Gartner Inc. healthcare provider practice and personally covers the Regional Health Information Organizations and the underlying technologies of healthcare IT including application integration and standards. He was the founding technical chair and former chair of HL7; and past member of the Boards of Directors of the Workgroup for Electronic Data Interchange (WEDI), HIMSS and the eHealth Initiative (eHI). He has received WEDI's Louis M Sullivan Award for technical leadership and HL7's Ed Hammond Volunteer of the Year Award.

**Laura Sato** is the Informatics Standards Lead for Communications & Messaging for the NHS CFH. She is a member of the BSI's health informatics technical committee, and a member of the HL7 UK Board.

She is also a Co-Chair of the HL7 Tooling Committee and was recently a member of HL7's Strategic Initiative Task Force. She is leading NHS CFH projects related to HL7 tooling and new standard approaches for HL7 V3 implementation.



**Philip Scott** is Head of IT Projects & Development in the shared ICT service supporting Portsmouth Hospitals NHS Trust and its neighbouring PCTs. He has twelve years' experience in NHS information management and ICT development. Philip co-chairs the NHS Implementers subgroup of HL7 UK. He is currently working on a PhD research programme exploring clinician perceptions of electronic health records.



**Rik Smithies** is an HL7 practitioner and Technical Architect for healthcare systems. After a decade designing primary care software, with hands-on experience of V3, he has increasingly focused on practical HL7 implementation issues. Rik is Secretary of HL7 UK and co-chair of the UK Clinical Statement group.

**Ben Stock** is Chief Technology Officer at WCI Healthcare Consulting. His combination of technical expertise and lean process consulting has resulted in many successful system integration projects, enabling healthcare organisations to reduce waste and improve patient care. Ben has been involved with the National Programme since its inception.

**Jeremy Thorp** is Director of Business Requirements, NHS CFH and Chair BSI IST/35.



**Martin Whittaker** has been active in healthcare IT for more than 25 years. Starting off as a programmer on pathology systems, he held posts in project management, sales management and marketing before running a company specialising in pathology and diagnostic imaging systems. Since 1991, he has been a consultant specialising in the application of IT standards in healthcare. He is also a founder and Board Director of HL7 UK.



**Paul Woolman** directs the work of Information Standards throughout NHS Scotland. He manages the Information Standards section of Information Services in Scotland comprising five main services: Terminology Service; National Clinical Data Definitions Program; Data dictionary and electronic reference information service; Scottish Birth Record and other national projects in healthcare information. Paul was an early member of HL7UK, currently chairs the Faculty of Health Informatics Board and takes a keen interest in professional development.



**Robert Worden** is a consultant in information architecture and e-commerce with Charteris in London. Previously at Logica he developed an early relational DBMS, built expert systems and was manager of Logica's advanced technology development centre at Cambridge. He is the architect of Charteris' Information Mapping technique and tool.



**Ann Wrightson** is Principal Consultant at CSW Group. She has specialized in SGML and XML since 1985. Ann spent ten years lecturing, researching, and consulting in an academic context, developing interests in formal methods, requirements modelling and IT system safety. Moving on from academia in 2000, Ann has worked mainly in eGovernment and Healthcare, providing strategic IT advice and developing interoperability standards both in the UK and internationally.



**Chris Wroe** currently works for BT Global Services in the London LSP project. He is part of the terminology software team supporting SNOMED-CT. He started out as a junior doctor, but then joined Alan Rector's Medical Informatics Group, working on the GALEN, and Drug Ontology projects at Manchester University.

## Special Thanks To:



[Oracle Corporation](#), the first to deliver an HL7 Version 3 compliant architecture, remains one of the leaders in delivering large scale healthcare solutions across the healthcare community. Integrating clinical information through our normalised clinical repository. Oracle Corporation one of the eight leading companies that came together as the Interoperability Consortium.



[InterSystems](#) is proud to be a Benefactor member of HL7. At the HL7 UK conference, InterSystems will be demonstrating ENSEMBLE, the award-winning integration platform recently deployed at NHS Lothian, Barts & The London NHS Trust and two of the country's leading Cancer Registries.



[Sun Microsystems](#) provides the primary technology through which healthcare interoperability is achieved within Acute Trusts. We have over 100 NHS customers and thousands more internationally in the US, Germany and Australia. We provide technical interoperability by enabling applications to exchange data and events across a range of open standards protocols. The primary data exchange standard in use in the UK is HL7 V2, we also use V3 for Spine communications.



[E-Health Insider](#) is the only independent online news and information service dedicated to UK healthcare information technology. Over 18,000 IT industry and NHS professionals are registered users of the E-Health Insider portal and readers of its weekly emailed newsletter. In February, E-Health Insider acquired a sister site, EHI Primary Care.



[NHS Connecting for Health](#) is delivering the National Programme for IT to bring modern computer systems into the NHS to improve patient care and services. Over the next ten years, the National Programme for IT will connect over 30,000 GPs in England to almost 300 hospitals and give patients access to their personal health and care information, transforming the way the NHS works.



[HL7 UK](#) is the UK national affiliate organisation of HL7, the leading worldwide standard for healthcare interoperability. HL7 is the lingua franca of NHS Connecting for Health. HL7 develops and supports standards for electronic communication of healthcare information in ways that allow the receiving system to use the information safely and effectively.

## Evening Event

### RS Hispaniola 7.00pm

By popular demand, we are returning again this year to the restaurant ship Hispaniola, where we have booked the top deck of the ship, which is moored alongside Victoria Embankment by Hungerford Bridge, near the Embankment underground station.

The Hispaniola has fabulous views from St Paul's round to the Houses of Parliament and the South Bank is a glitter of fairy lights. The restaurant serves modern European cuisine with a Mediterranean twist. This is always an exceptionally good networking event.



Timing: 7.00pm for 7.45pm Dinner; close at about 10:30.

Please make sure that we are informed of any special dietary requirements.

## Conference Location

Hotel Russell, Russell Square, London WC1B 5BE Tel 020 7837 6470 Fax 020 7837 2857

The Hotel Russell is a 370-bedroom luxury hotel in the heart of Bloomsbury, near to the British Museum.

The Hotel is adjacent to Russell Square Underground Station (Piccadilly Line). Euston, Kings Cross and St Pancras mainline railway stations are all within one mile. Car parking is available at Russell Court and Brunswick Square NCP car parks.

The main Conference plenaries are in the Wharncliffe Suite. The Exhibition and refreshments are in the adjacent Bedford suite.

### To Book Accommodation

To book accommodation at the Russell Hotel, please call Tel 020 7837 6470. There are many other hotels within easy walking distance.



## Organisers' Office

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