Global GS1 Healthcare Conference

9-11 November 2010
Singapore

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Acknowledgements

This conference is supported by:

This conference is co-hosted by:

The global Healthcare user group would like to thank these organisations for their support and for hosting this global conference.

We would also like to thank all speakers for sharing their valuable insights and all participants for joining.

Welcome

"Raising the bar on patient safety and supply chain efficiency"

Dear Participant,

On behalf of GS1 Healthcare, it is my great pleasure to welcome you to the 18th Global GS1 Healthcare Conference in Singapore.

GS1 Healthcare, the voluntary, global Healthcare user group, is proud to celebrate its fifth anniversary this year. Although GS1 has existed for over 30 years and GS1 Member Organisations worldwide have supported the Healthcare sector for many years, it was in 2005 that industry leaders agreed to kick off a truly global initiative. The user group was tasked to further develop global standards to meet emerging Healthcare requirements, such as eHealth, traceability, eCommerce, and unique device identification, and to drive global harmonisation. Although standards development work continues, today there is a solid foundation of global standards available to the Healthcare sector to implement standards-based solutions that will make the Healthcare supply chain more secure and efficient. Many local user groups have already launched national programmes, pilot projects and other initiatives to drive adoption and implementation in their country.

This conference promises a truly diverse programme, with more than 20 international experts presenting the latest regulatory and industry developments in healthcare supply chain management, automatic identification, traceability and electronic product catalogues.

In addition to the wide variety of presentations, the conference will also provide you the opportunity to leverage a unique neutral and international forum and to network and benchmark with other stakeholders from around the world. The interactive breakout sessions will allow you to discuss the implementation of global standards in the Healthcare supply chain with experts.

Thank you for participating! We hope you will have an interesting, challenging and educational few days.

Best regards,

Ulrike Kreysa
Director, Healthcare
GS1 Global Office

Agenda

Tuesday, 9 November 2010	
8:30	Opening registration
8:45 – 10:00	PRE-CONFERENCE SESSION FOR NEWCOMERS *Atrium*
8:45 – 10:00	**The World of GS1 Standards: An Introduction** – Enabling Automatic Identification & Data Capture solutions in healthcare worldwide – Making electronic product catalogues through a single point-of-entry a reality – Global standards to achieve end-to-end traceability
10:00 – 10:30	Coffee break
10:30 – 12:30	PLENARY SESSION *Atrium* Enabling a revolution in Healthcare through eHealth
10:30 – 10:50	**Welcome** George Huang, Chairman, GS1 Singapore **Introduction** Chris Adcock, President Healthcare, GS1 Global Office
10:50 – 11:20	**Information technology and improving patient safety in Singapore hospitals: Turning ideas into action** Ms. Colleen Brooks, Principal of Standards Division, MOH Holdings Pte Ltd and Co-Chair, MOHH National Health Informatics Technical Committee
11:20 – 11:50	**Hong Kong Hospital Authority targets world class eHealth: The role of ERP systems in efficient hospital supply chains** Raymond Wong, Head of the Business Support Services, Hong Kong Hospital Authority Head Office
11:50 – 12:30	**KEYNOTE: Keeping an eye on the big picture: Mayo Clinic's integrated supply chain management** Joe Dudas, Director of Accounting and Supply Chain Informatics, Mayo Clinic, USA
12:30 – 14:00	Lunch

14:00 – 15:30	**PLENARY SESSION** *Atrium* Fighting counterfeiting in Healthcare – an increasing global threat
14:00 – 14:30	**Traceability and serialisation – Responding as a pharmaceutical manufacturer to the challenges** *Assessing the changing legislation and regulatory landscape worldwide and understanding how the industry will be able to implement traceability and serialisation* Peggy Staver, Director, Product Integrity, Pfizer
14:30-15:00	**Safeguarding the U.S. pharmaceutical supply chain: Industry efforts to further secure the supply chain** *Assessing U.S. legislative and regulatory developments related to electronic pedigree systems and serialisation* Ron Bone, Senior Vice President, Distribution Support, McKesson Corporation
15:00 – 15:30	**Verification of pharmaceutical products at the point-of-dispense to help address the growing risk of counterfeit medicines** *Evaluation of the outcomes and conclusions that can be drawn from the EFPIA anti-counterfeiting pilot in Sweden* Grant Courtney, Serialisation Global Business Lead, GlaxoSmithKline European Federation of Pharmaceutical Industries and Associations (EFPIA)
15:30 – 16:00	Coffee break
16:00 – 17:10	**PLENARY SESSION** *Atrium*
16:00 – 16:40	**GS1 and ICCBBA: Working together to ensure compatibility between global standards** Christian Hay, Senior Consultant, GS1 Global Office **ISBT128 Standard for blood and blood components: How it translates to patient safety** Dr. Diana Teo, Director, Blood Services Group, Health Sciences Authority, Singapore
16:40 – 17:10	**KEYNOTE: Innovation in medical products distribution and hospital management** Prof. Shigekoto Kaihara, Dean, Graduate School, International University of Health and Welfare, Japan
19:00 – …	Networking Dinner *Changi*

Wednesday, 10 November 2010

9:00 – 10:30	PLENARY SESSION *Atrium* Unique Device Identification - Creating transparency, improving processes and increasing efficiency
9:00 – 9:30	**Medical devices: Unambiguous, standardised and harmonised Unique Device Identification (UDI)** *Update on FDA and global activities: FDA Amendments Act of 2007 and the UDI Ad Hoc Working Group of the Global Harmonization Task Force (GHTF)* Jay Crowley, Senior Advisor for Patient Safety, US FDA
9:30 – 10:00	**Why it is important for the healthcare industry to reach a global standard for Unique Device Identification now** *UDI is a key development for the Medical Technology Industry – Eucomed position* Volker Zeinar, Global Coordination Auto-ID Affairs, B.Braun
10:00 – 10:30	**CASE STUDY: Implementation of a post-market traceability programme for implantable medical devices in Shanghai** *Discussing the application of UDI and lessons learnt from the pilot project* Prof. Yan, Liang, Chairman of Shanghai Pudong Medical Device Trade Association
10:30 – 11:00	Coffee break
11:00 – 12:30	BREAKOUT SESSIONS
11:00 – 12:30	**Roundtable discussion groups** - Automatic Identification and Data Capture (AIDC) in Healthcare: The world of GS1 Standards *Atrium* - Electronic product catalogues, UDI databases and the GDSN: Making it work *Kallang* **Work group session** - Public Policy Work Group *Changi 1*
12:30 – 14:00	Lunch

14:00 – 15:30	BREAKOUT SESSIONS
14:00 – 15:30	**Roundtable discussion groups** - Automatic Identification and Data Capture (AIDC) in Healthcare: The world of GS1 Standards *Atrium* - Implementing Global Location Numbers (GLN) and the role of GLN Registries *Kallang* **Work group session** - Public Policy Work Group *Changi 1*
15:30 – 16:00	Coffee break
16:00 - 17:30	PLENARY SESSION *Atrium* Master data management in Healthcare: Optimising procurement and other critical business processes
16:00 – 16:30	**Data synchronisation benefits for eProcurement and tendering - GS1 Standards, the National Product Catalogue and eProcurement** *Supply Chain Reform as Part of the Broader eHealth Agenda in Australia* Stephen Johnston, Head of National Infrastructure Services, National eHealth Transition Authority, Australia Ken Nobbs, Program Manager, Medical Products, National eHealth Transition Authority, Australia
16:30 – 17:00	**CASE STUDY: Abbott Laboratories** **Sharing product master data effectively leveraging the Global Data Synchronisation Network** Mike Wallace, Director Global Standards and Serialization, Abbott Laboratories
17:00 – 17:30	**Making eCommerce more effective** *Synchronising data for improving eCommerce and supply chain management* MJ Wylie, Director, Global Data Standardization, GHX Steve Capel, Director eBusiness EMEA, Covidien

Thursday, 11 November 2010	
9:00 – 10:30	PLENARY SESSION Implementation case studies — *Atrium*
9:00 – 9:30	**THE WHOLESALER PERSPECTIVE:** **The challenge: Implementation of the electronic invoice and pack level SSCCs at CH2** *CH2 re-designing their internal processes around use of SSCC for outbound products, and implementing the GS1 XML invoice* Ged Halstead, Chief Information Officer, CH2, Australia
9:30 – 10:00	**THE HOSPITAL PERSPECTIVE:** **Evolution for patient safety using laser marking on surgical instruments in Japan** Dr. Seizo Nakata, Director, Itami Municipal Hospital, Japan
10:00 – 10:30	**THE MANUFACTURER PERSPECTIVE:** **Reducing costs in the delivery supply chain at Cook Medical** Claes-H. Wallér, Vice President, Cook Group Europe
10:30 – 11:00	Coffee break
11:00 – 12:30	BREAKOUT SESSIONS
11:00 – 12:30	**Roundtable discussion groups** - Traceability in Healthcare: Different models — *Kallang* - Bridging gaps: Standards and interoperability — *Changi 1*
12:30 – 14:00	Lunch

14:00 – 15:30	**CLOSING PLENARY SESSION** *Atrium* News from around the world
14:00 – 14:20	**Canadian Healthcare Supply Chain Standards Project** *Widespread adoption of a common system of supply chain standards in healthcare institutions in order to improve patient safety, cost efficiency and staff productivity* Alicia Duval, GS1 Canada

14:20 – 14:40	**Linking global standards to local requirements in France**
	   - *Local user group update*
	   - *Hospital pilots*
	Valérie Marchand, GS1 France

14:40-15:00	**US Healthcare community getting ready for adoption of GS1 Standards**
	   - *GLN 2010 Sunrise date*
	   - *GTIN 2012 Sunrise date*
	   - *2015 Pedigree Readiness Program*
	Dennis Harrison, GS1 US

15:00-15:20	**Austria hospitals advance GS1 Standards**
	   - *Local user group update*
	   - *Traceability of cytostatics from the supplier to the re-processing in the hospital pharmacy to the patient*
	Barbara Dorner, GS1 Austria

15:20 - 15:30	**Closing Remarks GS1 Healthcare Tri-Chairs** Mike Wallace, Abbott Grant Hodgkins, Alcon Volker Zeinar, B.Braun
15:30	Closure of Conference

Breakout sessions

Roundtable discussion groups

Join us for one of the interactive breakout sessions on the implementation of global standards in the Healthcare supply chain!

Automatic Identification and Data Capture (AIDC) in Healthcare: The world of GS1 Standards

Wednesday 10 November – 11:00 – 12:30 and 14:00 – 15:30 (Atrium)

Sector-wide implementation of Automatic Identification & Data Capture (AIDC) systems in Healthcare will improve patient safety and help remove inefficiencies throughout the Healthcare supply chain. The AIDC Application Standards work group is developing global standards for the automatic identification and data capture for Healthcare products at all packaging levels. The AIDC Application Standards for Healthcare Phase 1 (covering about 90% of Healthcare products) and Small Instruments were ratified in January 2010. Other work groups of this work stream include: Location and Legal Entity ID, Patient and Caregiver ID, Multiple Barcodes, and Barcode / EPC Interoperability. **Join this session to learn more on how to get started with the implementation and what is envisioned for further standards development.**

Electronic product catalogues, UDI databases and the GDSN: Making it work

Wednesday 10 November – 11:00-12:30 (Kallang)

Regulators from many countries have been talking about the UDI databases, while user communities in some countries have established national electronic product catalogues; which leaves many wondering how these initiatives relate to one another, why they are needed and how to prepare for them. The Healthcare Data Synchronisation work group is developing a global standard to enable Healthcare stakeholders to leverage the GS1 Global Data Synchronisation Network (GDSN), ensuring accurate and consistent data exchange between all supply chain partners. A Global GDSN Implementation Initiative was successfully launched in June 2009. The GDSN Extension for Healthcare will be part of the next GDSN release. **Join this session to learn more about standards-based data synchronisation in Healthcare.**

Implementing Global Location Numbers (GLN) and the role of the GLN registries

Wednesday 10 November – 14:00-15:30 (Kallang)

To simplify supply chain communications, using a shared, globally unique identifier to reference party/location information increases efficiency, precision and accuracy. Global Location Numbers (GLN) allow referencing all related information held and maintained centrally in a database. **Join this session to learn how GLNs are being implemented in Healthcare and how the GLN registries support local community needs.**

Traceability in Healthcare:
Which model?

Thursday 11 November – 11:00-12:30 (Kallang)

There are implemented models (e.g., "One up, One Down"), there are regulated models (e.g., ePedigree) and there are piloted models (e.g., Authentication) for undertaking traceability in Healthcare. The Traceability in Healthcare work group is developing a suite of global standards to enable full actionable visibility of all pharmaceuticals and medical devices from point-of-production to point-of-use, which can be used globally. **Join this session to learn more about the various traceability models.**

Bridging gaps:
Standards and interoperability

Thursday 11 November – 11:00-12:30 (Changi 1)

Global standards allow to reduce complexity and to improve business processes. GS1 works with other Standards Development Organisations to align standards development and to ensure compatibility between standards systems, where appropriate, including for example with HL7, ICCBBA and International Health Terminology Standards Development Organisation (IHTSDO). GS1 is also member of the the Joint Initiative Council (JIC), also including HL7, Clinical Data Interchange Standards Consortium (CDISC), IHTSDO, European Committee for Standardisation - Technical Committee on Health Informatics (CEN/TC 251) and International Standards Organisation - Technical Committee on Health Informatics (ISO/TC 215). **Join this session to learn more about how Standards Development Organisations work together to advance standards development and adoption.**

Work team session

Public Policy Work Team

Wednesday 10 November – 11:00 – 12:30 and 14:00 – 15:30 (Changi 1)

The Public Policy work team provides leadership in the conduct and interaction with global public policy makers / government authorities to influence the movement towards harmonisation of product identification requirements in alignment with GS1 Global Standards. The work team also provides a **forum for open exchange** of information between end-user members on global public policy developments, monitors the global landscape of laws, regulations, directives, etc., around the topics of healthcare product identification, data synchronisation and traceability, and establishes a **framework and repository of global regulations and directives** related to Healthcare Product identification as a reference for membership.
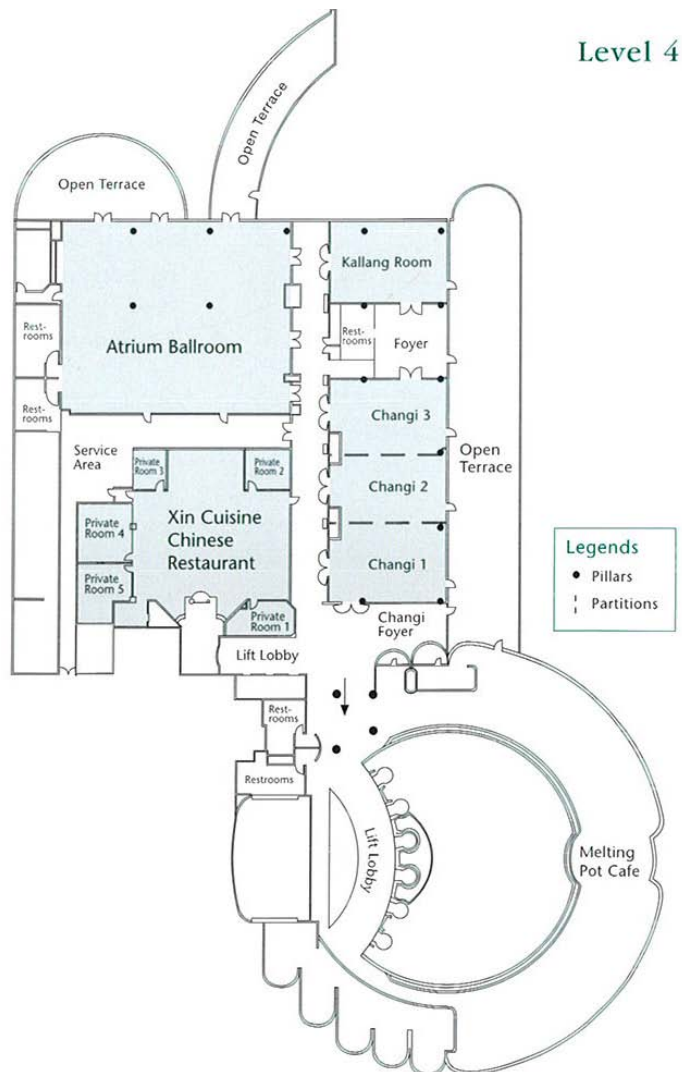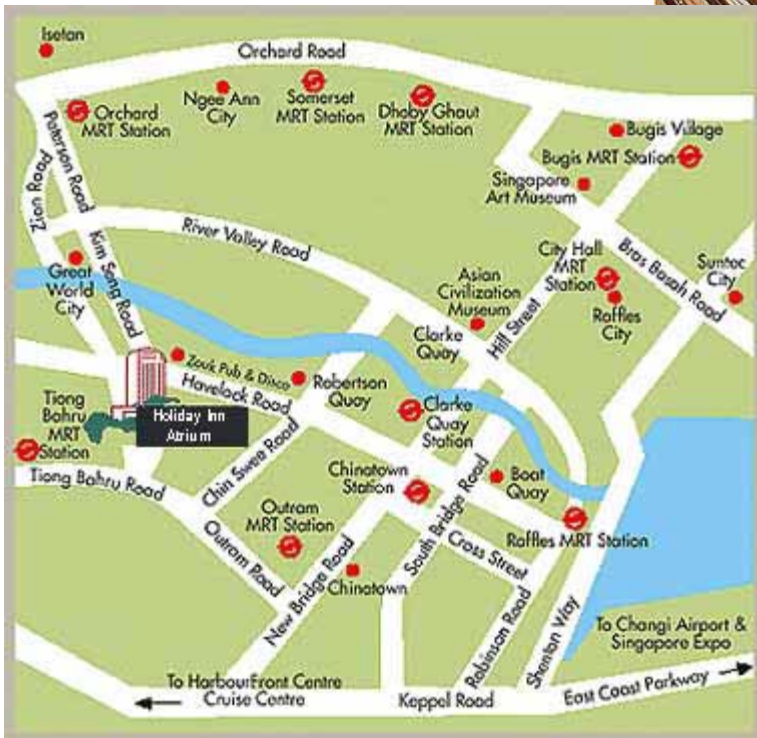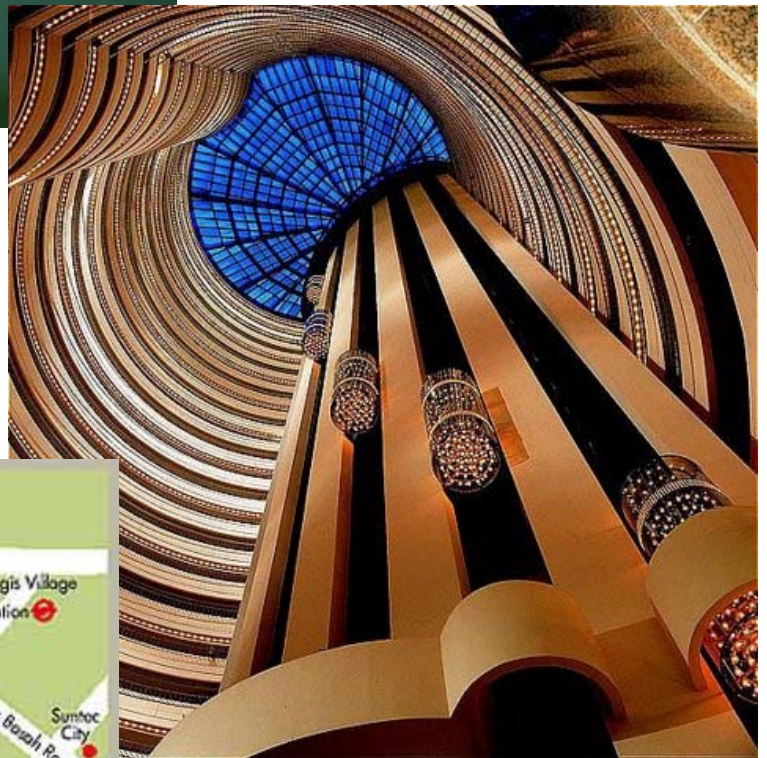
Topics include:
- Public policy database: demonstration
- GHTF UDI – latest
- Traceability and Serialisation – trends and developments

General information

Conference Venue   Holiday Inn Atrium
317 Outram Road
Singapore
Dress Code   Business
Business casual for the networking dinner
Internet Access   Internet access is NOT available in the meeting rooms.
Meeting Rooms   Plenary sessions: Atrium (Level 4)
Breakout sessions:
- Atrium (Level 4)
- Kallang (Level 4)
- Changi 1 (Level 4)
Check the agenda for the exact location of each session.

Level 4

Plenary speakers

Chris ADCOCK is President Healthcare, GS1 Global Office. Mr Adcock has held a series of senior management positions in Europe for The Gillette Company, a global market leader in several consumer product categories. His most recent position was as General Manager of the Nordic Region for The Gillette Company. Since September 2004 Mr. Adcock has led the global activities of EPCglobal during a period of rapid development and international expansion.
Mr. Adcock holds a Master of Business Administration degree from Cranfield University in the United Kingdom.

Ron BONE is Senior Vice President, Distribution Support for McKesson Pharmaceutical. His responsibilities include leading McKesson's initiatives in Radio Frequency Identification/Electronic Product Code and supply chain security. He also is the pharmaceutical business liaison with Corporate Government Affairs. Ron has spent 38 years with McKesson Corp in various operations, sales and financial management positions.
He is a member of the Business Steering Committee of EPCglobal and a member of the GS1 Global Healthcare and GS1 Healthcare US leadership teams. In addition, he is a member of the Industry Relations Committee for the US Healthcare Distribution Management Association (HDMA).
Mr. Bone received his MBA from San Jose State University.

Colleen BROOKS is Principal of Standards Division, MOH Holdings Pte Ltd and Co-Chair, MOHH National Health Informatics Technical Committee. Ms. Brooks is a professional eHealth and Healthcare specialist with more than 25 years experience at the most senior level in major agencies and organisations working both within Singapore and internationally. She is a member of the International Health Terminology Standards Development Organisation Members Forum, Chair of HL7 Singapore and the Singapore Health Information Technical Committee.
Ms. Brooks is a qualified pharmacist with a Postgraduate Certificate of Health Economics.

Grant COURTNEY has worked for GlaxoSmithKline for 14 years focusing on product packaging design and supply chain management. Over the past 3 years he has specialised in Serialisation and has recently taken on the post of Global Serialisation Business Lead. Mr. Courtney has been an active member of EFPIA for several years advising on both manufacturing and supply chain related issues; most recently sitting on the Supply Chain Senior Expert group which has supplied technical input into the EFPIA serialisation project. He is Member of the GS1 Healthcare Leadership Team and Co-Chair of the Public Policy Team.
Prior to joining the pharmaceutical industry he obtained a Business degree at the University Of Hertfordshire Business School.

Jay CROWLEY is Senior Advisor for Patient Safety in FDA's Centre for Devices and Radiological Health. Mr. Crowley is interested in developing new methods and techniques to identify, analyse, and understand problems occurring from medical device use within the healthcare environment. He has been working at FDA for nearly 20 years in a variety of positions.

Mr. Crowley holds degrees in Risk Analysis and Engineering.

Joe DUDAS is Director of Accounting and Supply Chain Informatics at the Mayo Clinic, responsible for implementing and optimising technology and business best practices. He leads forums across Mayo organisations to drive strategic supply chain, accounting and research IT direction, standardisation and best practices. Mr. Dudas served as Chair of the Healthcare Supply Chain Standards Coalition and is currently a member of the GS1 Healthcare US leadership team. He participates in many other industry efforts to improve the Healthcare supply chain. His team participates in ongoing testing and implementation of the GTIN, GDSN and GLN.

Mr. Dudas brings more than 20 years of information systems experience in IT outsourcing, telecommunications, retail and healthcare. Previous professional experience includes leadership roles in technology at Rite Aid Corporation, EDS and AT&T.

Mr. Dudas holds an MBA in accounting and finance from York College of Pennsylvania, and bachelor's in management information systems from Indiana University of Pennsylvania.

Alicia DUVAL is Senior Vice President, Healthcare, Pharmacy & Public Affairs, GS1 Canada. Ms. Duval spearheads activities to introduce global standards and supply chain practices to the Canadian healthcare and pharmacy sectors. She also serves as lead representative with GS1 Healthcare, a global initiative to lead the healthcare industry to the development and adoption of global standards that primarily focus on improving patient safety. With over 20 years of association management experience, Ms. Duval has held executive positions at some of Canada's leading associations including the Canadian Association of Chain Drug Stores (CACDS) and the Retail Council of Canada (RCC). During her tenure as vice president of communications and development with CACDS, Ms. Duval was instrumental in leading industry relation projects that improve trading partner relationships and industry development initiatives.

Ged HALSTEAD is Chief Information Officer, CH2, Australia. He has over 20 years experience implementing ERP systems for a broad range of industries in Australia and the United States. Mr. Halstead has spent 12 years in the IT consulting space, principally engaged as a project manager and practice leader. He has 10 years in the healthcare industry delivering solutions for global leading brands in both medical devices companies here and abroad, and to medical services companies and pharmaceutical manufacturers in Melbourne, Sydney and Auckland. Other industry sectors in which Mr. Halstead has implemented financial, distribution and warehouse systems are petro-chemical, print media, grocery wholesale and frozen foods.

Dennis HARRISON is the President of GS1 Healthcare US. Mr. Harrison brings more than 35 years industry experience in manufacturing, engineering, and quality assurance to the organization. Mr. Harrison previously served as Executive Vice President of GS1 US and was responsible for strategic planning and leading the GS1 US Bar Codes and eCom group. Prior to joining GS1 US in 2002, Mr. Harrison served as Vice President Engineering & Quality for the Honeywell Consumer Products Business. In 1999, he was awarded Honeywell's prestigious Lund award for demonstrated leadership excellence.
Mr. Harrison obtained a Bachelor of Science in Chemical Engineering from the University of Toledo, Toledo, Ohio.

Christian HAY is Senior Partner, Medinorma, Switzerland. Mr. Hay currently consults GS1 Switzerland and GS1 Global Office on healthcare related matters.
Educated as a lawyer, he has worked for the pharmaceutical branch since mid of 1980s in various positions. He has been involved since the early stages in GS1 standard deployment in the Swiss healthcare.

George Huang Chang Yi was elected as the Chairman of GS1 Singapore on 26 November 2009. He is also the President of Singapore Manufacturers' Federation (SMa) for 2010 – 2012.
He is the Managing Director of Amoy Canning Corporation (S) Ltd, which is a well-established manufacturer of F&B products with a rich history of 103 years. Under his able leadership, Amoy Canning has attained the highest standard in safety and quality for its products.
Mr Huang is known for his strong leadership, business acumen and active roles in many committees and organisations, amongst which are Chairman of SMa Institute of Higher Learning and Committee Member of Singapore National Committee for Pacific Economic Cooperation since 2000.
Mr Huang is also the Companion to Chartered Management Institute (UK), Fellow of Singapore Institute of Directors and Distinguished Fellow of the Institute of Management Consultants (Singapore).

Stephen JOHNSTON is Head of National Infrastructure Services at NEHTA (National eHealth Transiation Authorities), Australia, responsible for leading the important Health Identifiers and Security Programs.

Mr. Johnston is a Senior ICT Management Executive, with over 25 years experience in the Delivery of IT and Complex Business Services in mission critical environments for Global, Commercial, Government and Educational Organisations.

His previous roles include General Manager of Partnerships and Transformation at BT Openreach, IT Service & Delivery Director at General Dynamics (UK) Ltd and Senior ICT Service & Programme Director for the British Army.

Mr. Johnston was awarded an MBE in the Queen's Birthday Honours List for his contribution to NATO operations.

Prof. Dr. Shigekoto KAIHARA is the Chairman of GS1 Healthcare Japan and Dean of Graduate School, International University of Health and Welfare. After graduating the Faculty of Medicine, the University of Tokyo, he engaged in clinical research at Johns Hopkins Hospital in Baltimore, United States, and then returned to the University of Tokyo where he got a professorship and later served as Director of Central Medical Information Department. After he retired the University of Tokyo, he has held top management position of several organisations such as National Okura Hospital and Medical Information Development Center (MEDIS-DC) before taking the present position.

In addition to high level of academic career including Chairman of IMIA (International Medical Informatics Association) and chairman of JAMI(Japan Association for Medical Informatics), he also has rich experience in policy-making as a member of many governmental councils. He is recognized as a prominent opinion leader in the Healthcare sector in Japan. His specialty area is Medical Management and Medical Informatics. He is a professor emeritus at the University of Tokyo.

Dr. Seizoh NAKATA is the Administrator of Itami City Hospital. Prior to taking this position, he had been engaged in the research on traceability of surgical instruments employing direct parts marking of UDI (Unique Device Identification) as the Director of Surgical Center, Osaka University Medical School (also as a professor, Department of Operation, Osaka University Hospital). He has also been carrying out total management of endoscope operation system using RFID from the point of use for operation through sterilization and storage. He is an individual member of GS1 Healthcare Japan and elected as the chair of Direct Parts Marking WG.

Dr. Nakata is a Doctor of Medicine and his clinical specialty field is cardiovascular surgery.

Ken NOBBS is Program Manager, Medical Products at the National eHealth Transition Authority, Australia. He has been with NEHTA since August 2005 as the Project Lead for the Supply Chain initiative, one of twelve initiatives around e-health being delivered by NEHTA. Mr. Nobbs was previously with Deloitte as a management consultant for 4 years, managing a team to deliver the Recommendations for National IM&ICT Enablers in the Health Sector Supply Chain report for NEHTA in December 2004. He has broad health experience spanning over 10 years working within the pharmaceutical and medical device industry.

Mr. Nobbs has a Bachelor of Business in Applied Economics, a Master of Business Administration and a Graduate Certificate in Health Economics.

Peggy STAVER is Director, Product Integrity, Pfizer Inc. Her responsibilities include developing and implementing strategies to enhance patient safety and further secure the U.S. pharmaceutical supply chain. She represents Pfizer externally on various customer engagements and industry interactions relative to channel security and works closely with internal Pfizer colleagues to implement approved strategies. Mrs. Staver has been involved with a number of industry initiatives to address the threat posed by counterfeit pharmaceuticals including the potential role serialisation and radio frequency identification (RFID) technology may play in deterring counterfeiting. She is currently responsible for Pfizer's e-pedigree testing and implementation. She also works closely with Pfizer's Global Security organization as it relates to investigations of suspected counterfeit or adulterated Pfizer products and is a member of the GS1 Healthcare US and global leadership teams and Pfizer's recently formed Supply Chain Security Team. Peggy has 29 years experience in the industry in various disciplines including auditing, financial planning and analysis, strategic planning, contracts and pricing, distribution, and supply chain management.

Dr Diana TEO is Group Director of the Blood Services Group (BSG) at Health Sciences Authority (HSA), and Chairman of the HSA Professional Board. BSG is the national blood service in Singapore, and is AABB accredited in blood banking and transfusion medicine and ASHI accredited in tissue typing. It is also a WHO Collaborating Centre for Transfusion Medicine. Dr. Teo graduated with an M.B.,B.S. degree from the National University of Singapore in 1982. Obtained Master of Science degree in Medical Immunology from the University of London, followed by Membership of the Royal College of Pathologists, UK in 1993, and Fellowship of the Royal College of Pathologists in 2001. Awarded the Singapore National Day Honours Public Administration Medal (Silver) in 2008.

Other relevant appointments: Board of Directors, International Society of Blood Transfusion; Vice Chair, Asia Pacific Blood Network; WHO Expert Advisory Panel for Transfusion Medicine; and Board of Directors, ICBBA.

John Michael (Mike) WALLACE is Director, Global Standards & Serialization at Abbott Laboratories. Mr. Wallace's role is to implement the adoption of global product and customer identification standards, as well as to develop a global approach to serialization for Abbott. This will allow the corporation to cost effectively meet the growing and evolving customer and regulatory requirements. Mr. Wallace is also chair of the Abbott Laboratories RFID working group. For the past eight years, he has consulted with a cross section of groups across Abbott and the supply chain for healthcare and consumer packaged goods to prepare to implement these emerging standards and technologies. He has been with Abbott Laboratories since 1987. Prior to 1987 he spent nine years with Eli Lilly in a variety of assignments.

Mr. Wallace is Tri-Chair of the global GS1 Healthcare user group.

Mr. Wallace received his BA in Biochemistry in 1977 and an MS in Chemical Engineering in 1978, both from the University of Virginia.

Raymond WONG is Head of the Business Support Services at the Hong Kong Hospital Authority Head Office and the directorate in charge of procurement, biomedical engineering services and other business support functions in the Hospital Authority. He is presently steering the development and implementation of corporate improvements in procurement and supplies logistics support, together with ERP technology and system applications in supply chain operations.

Previously, Mr. Wong was the General Manager of Queen Mary Hospital between 1991 and 2001. In this role, he implemented numerous strategic and operational improvements in modernising procurement, information technology, facility management and ancillary support services. Amongst his current major interests in community services and voluntary work, Mr. Wong is the Chairman of the Society for Promotion of Hospice Care, Vice Chairman and Member of Board of Governors of the Institute for Health Policy and Systems Research, a volunteer of the Phoenix Clubhouse for psychiatric patients in Hong Kong, and the Honorary Secretary of the Queen Mary Hospital Charitable Trust. Mr Wong was appointed a Member of the Most Excellent Order of the British Empire in 1996 for his previous contributions to hospice care and public hospital transformation in Hong Kong.

He received his M.Sc. degree in Public Sector Management with PSM Prize Award from Aston Business School.

MJ WYLIE is Director, Global Data Standardization, GHX. Her background at GHX also includes directing development of the GHX AllSource content repository as a single source of accurate product content for data synchronisation across the Healthcare supply chain as well as creating the Content Services offered to both the buy and the sell side. Mrs. Wylie has led GHX to become a GDSN-certified data pool, GHX Health ConneXion™ to lead Healthcare in the area of global data standardisation efforts. She continues her efforts to work with GHX members to engage their adoption with global data standards to improve business, clinical and supply chain

efficiencies. In addition, she works with the FDA on the Unique Device Identifier (UDI) system. Prior to joining GHX, she has worked with leading standards and advocacy organisations, and governments.

Mrs. Wylie graduated from Colorado State University with a BS degree in Technical Communications

Liang YAN was the Director of International and Legal Affairs of the Shanghai Municipal Food and Drug Administration (SH-FDA). He is now a senior advisor of the SH-FDA. He has designed the UDI system in recent years for tracking implantable device in Shanghai.

In 1989, he chaired a group for drafting China's first medical devices regulations. Afterwards, he continued to contribute in the China's regulation project on Medical Device Registration, Classification Rules, and Medical Devices Recall. He was the medical device registration chief in SH-FDA more than 10 years, and he was also chief project organiser for China's first whole body CT and ultrasound diagnostic set in the 80's.

Volker ZEINAR is responsible for the global coordination of bar code and auto-ID affairs in the B.Braun Group. This concerns company internal projects, customer projects as well as contacts to healthcare associations and standardization organizations. Mr. Zeinar has been involved in the development and application of GS1 standards for almost 20 years, not only in Healthcare, but also in the Consumer Goods sector and the engineering industry. Amongst others he was responsible for IT projects at the trade group REWE in Cologne and at the steel manufacturer Thyssen Industry. Prior to his engagement as freelancer for B.Braun, since January 2003, Volker has worked as Consultant for the B.Braun subsidiary 'Diomedes Health Care Consutants' with focus on the optimisation of logistics processes in hospitals.

List of participants

The Global GS1 Healthcare Conference provides a neutral forum for all healthcare supply chain stakeholders to physically meet, exchange ideas, and advance development and adoption of global standards.

Participants include representatives from manufacturers, distributors, healthcare providers, group purchasing organisations, logistics providers, governmental bodies and regulators, associations, solution providers and educational institutes.

Participants also include GS1 Member Organisations from around the world representing their local healthcare communities.

First name	Last name	Company / Organisation
John	Abrams	Cardinal Health
Chris	Adcock	GS1 Global Office
Jose	Albert	GS1 Philippines
Peter	Alvarez	GS1 Global Office
Bettina	Bartz	GS1 Germany GmbH
Charles	Biss	GS1 Global Office
Ronald	Bone	McKesson Corp / Pharma
Janine	Bridgeford	GE Healthcare
Colleen	Brooks	MOH Holdings Pte Ltd
Joan	Cahill	Pfizer Inc.
Steven	Capel	Covidien
David	Chan	Hospital Authority
Lee	Cheng Suan	GS1 Malaysia
Woon-Young	Choi	HanmiIT
Conrad	Chong	Pfizer
Mary	Chong	Tan Tock Seng Hospital
Yi Mei	Chong	Tan Tock Seng Hospital
Wei Sim	Choong	Singapore Health Services
Helle	Clausen	GS1 Australia
Grant	Courtney	GlaxoSmithKline
Jay	Crowley	FDA
Emilie	Danel	GS1 Global Office
Barbara	Dorner	GS1 Austria
Alicia	Duval	GS1 Canada
Chan	Ek Huar	Singapore Health Services Pte Ltd
Jackie	Elkin	Medtronic, Inc.
Mervin	Fonseca	GS1 Philippines Inc.
Dawn	Fowler	Edwards Lifesciences
Michelle	Fung	DynaMed Pte Ltd
Jenny	Gough	Molnlycke Health Care
Thatit	Guritno	GS1 Indonesia
Ged	Halstead	CH2
Michio	Hamano	GS1Japan

First name	Last name	Company / Organisation
Sam	Haouchar	CSL Biotherapies
Dennis	Harrison	GS1 US
Christian	Hay	GS1 Switzerland
Rich	Hollander	Pfizer Inc.
Hitoshi	Hoshino	OLYMPUS Corporation
Stephen	Johnston	NEHTA
Richard	Jones	GS1 Australia
Chulwoo	Jun	HanmiIT
Kalaiarasan	K	Novartis Pharmaceuticals
Ho	Karen	Ministry of Health Holdings
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Sim	Kok Seng	Clearlab SG Pte Ltd
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Conser	Lee	GS1 Hong Kong
Wing Yan Amelia	Lee	Hospital Authority Hong Kong
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Boon Peng	Lim	National Healthcare Group
Eileen	Lim	Health Sciences Authority
Gek Kee	Lim	National Healthcare Group HQ
Shih Hsien	Lim	MOH Holdings Pte Ltd
Anna	Lin	GS1 Hong Kong
Carolyn	Loh	Baxter Healthcare (Asia) Pte Ltd
Boon Tong	Low	JMS Singapore Pte Ltd
Hans	Lunenborg	GS1 Nederlands
Valérie	Marchand	GS1 France
Ed	Miles	GS1 US
Branislava	Mitic	GS1 Serbia
Nadege	Mullier	GS1 Global Office
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Gwag	Namgung	HanmiIT
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Poh Ling	Ng	MOH Holding
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Swee Keow	Ong	National Healthcare Group Pharmacy
Min Cheol	Park	HanmiIT
Marketa	Pavova	privat ambulatory
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Cyndi	Poetker	Abbott Laboratories
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Tania	Snioch	GS1 Australia
Okkeu Rachmat	Solichin	GS1 Indonesia
Au	Soo Keun	GS1 Malaysia
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Anna	Tan	National Healthcare Group Pharmacy
Corrinne	Tan	NHG Pharmacy
Daniel	Tan	Health Sciences Authority, Health Products Regulation Group
Jin Soon	Tan	GS1 Singapore
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Tze Lee	Tan	College of Family Physicians, Singapore
Susan	Tan	MOH Holdings Pte Lte
Noah	Tay	Integrated health Information Systems
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Diana	Teo	Blood Services Group, Health Sciences Authority
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