

EPCglobal Transportation and Logistics Industry Action Group meets in Singapore



Pictured at the EPCglobal TLS Industry Action Group meeting are from right: Mr Tan Jin Soon, Mr Koji Asano, Mr Naotaka Ishizawa, Dr Shinichi Ishii, Mr Goh Chiang Fein, Ms Lim Lee Tin, Mr Murphy Cheung and Ms Rosyati Mohd Said.



Delegates at the EPCglobal TLS Industry Working Group meeting.

On 22nd September 2008, GS1 Singapore hosted delegates from Japan, Hong Kong, Malaysia and Singapore to update the activities of the EPCglobal Transportation and Logistics Industry (TLS) Action Group. Delegates included representatives from Singapore PSA Corp, Johor Port, Singapore Customs, Free Zone Port officers from Malaysia, shipping companies, manufacturers, logistics companies, retailers, Research Institutes, Spring Singapore, IT Standards Committee, solution providers and GS1 Malaysia. Delegates from EPCglobal TLS Action Group, include the following:

1. Mr Naotaka Ishizawa, Co-Chair of EPCglobal TLS Action Group, RFID Project Manager of MTI
2. Dr Shinichi Ishii, Co-Chair of Chain of Custody Task Force Group, EPCglobal TLS Industry Action Group, Senior Consultant of NRI
3. Mr Koji Asano, Senior Researcher, GS1 Japan/EPCglobal Japan
4. Mr Murphy Cheung, Co-Chair of Chain of Custody Task Force Group, EPCglobal TLS Industry Action Group, Senior Consultant of MTI

This event commenced at 9.30am. Mr. Tan Jin Soon, the Executive Director of GS1 Singapore welcomed the participants and presented EPCglobal Update as at September 2008. He highlighted that as at March 2008, the EPCglobal membership grew to 1,262 companies as follows:

Asia Pacific	216 companies
Europe	315 companies
Latin America	32 companies
Middle East/Africa	20 companies
North America	679 companies
Total	1,262 companies

In the Asia Pacific region, Japan and Korea are leaders in this field.

In the standards development area, EPCglobal UHF and EPCglobal High Frequency GEN2 standards had been developed and there is a process for EPCglobal to share information with ISO on EPCglobal UHF GEN2 and EPCglobal HF GEN2 Standards.

Mr Goh Hock Nguan of PSA Corp and Chairman of ISO/TC 104/SC 4/WG2 made a presentation on ISO E-Seal standard.

Mr Naotaka Ishizawa, gave an update on EPCglobal TLS Industry Action Group with details on the successful pilot phase 1 by sea with shipments from Hong Kong to Japan and the successful pilot phase II by sea and air from Hangzhou, China to Los Angeles, USA.

Dr Shinichi Ishii made a detailed presentation on the preparation of the proposed pilot phase III project by sea from Japan Port to Amsterdam Port using RFID tags and readers and EPCIS as the data repository for the secured transmission of data captured by RFID readers.

A lively dialogue developed during the Question and Answer session. Delegates were impressed with the valuable information presented first hand by experts from Japan and Hong Kong and the opportunities for networking.

GS1 Singapore and EPCglobal Singapore would like to take this opportunity to express our heartfelt thanks to the distinguished speakers from Japan and Hong Kong and our guests from Malaysia and Singapore for making this event a great success.

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Editorial



Tan Jin Soon
Executive Director
GS1 Singapore

The 3rd quarter of 2008 unveiled a series of financial crisis. September 2008 was a turbulence month. On 14th September 2008, a financial firestorm swept through USA and the world, fueled by the near collapse of the 158 years old of Lehman Brothers, the 94 years old Merrill Lynch and the world's largest insurance company, the America Insurance Group (AIG). These sent shock waves throughout the world from America, Europe to Asia and triggered a wave of investor risk aversion. The global equities markets fell sharply as uncertainty about the financial sector outlook intensified with the US Government expressing its refusal to rescue the Lehman Brothers.

Amid the ensuing financial market volatility and voters' fears, the USA Senate responded on 1st October 2008 and passed the financial rescue package bill of US\$700 billion plus US\$150 billion in popular tax break extensions and an increase in the Federal Deposit Insurance Corporation's insurance on bank deposits from US\$100,000 to US\$250,000.

This strategy paid off and four days after rejecting the bill, the USA House of Representatives approved the revised proposal. President George W. Bush promptly signed this bailout proposal into law on the same day. But the US stock market still dropped 157 points on the same day and the global stock market responded with continued drop in prices due to lack of confidence, tight liquidity and uncertainty in the economic front although the Government of UK, France and Germany have pumped in huge funds to save the banks.

The bruited crude oil prices also responded to this severe economic pressure by dropping the price below US\$50.00 per barrel in November 2008 amidst heightened concerns about the global economic slowdown.

On 9th October 2008, the Singapore Ministry of Trade and Industry revised the annual growth forecast from the 4 to 5% (projected in August 2008) to 3% for 2008.

The financial crisis have now moved into Europe and shifting to Asia.

The above-mentioned developments will certainly affect Singapore and the region with banks cutting back loans to customers. There are trends of drops in exports, the tightening of job market, retrenchment, sinking asset prices, shrinking corporate bottom lines and a general slow down of the economy. Challenges faced by the Singapore companies include credit crunch, increased costs for re-financing and shrinking order books.

Amidst all these dark clouds, the silver lining came on 23rd Oct 2008 with the signing of the China and Singapore Free Trade Agreement (CSFTA). This CSFTA covers tariff - free access to China for 85% Singapore goods (except 260 products) effective 1 January 2009. This CSFTA will also cover services and investments. This CSFTA will certainly provide opportunities for Singapore companies to expand trade, services and investments with China.

GS1 Singapore will continue to help companies through training programmes and workshops to implement GS1 system to raise productivity and be competitive. It will also help companies to source code their companies products with GS1 Bar Codes to facilitate sales of these products in retail outlets in China.

Tong Jum Chew

Making Traditional Remedies New



Retrieving herbal extracts for production



Mixing of herbal extracts



Preparing herbal extracts for capsuling



Putting capsules in blister pack



Labeling of products



Storage of finished product

Company Info

Tong Jum Chew Pte Ltd (TJC) was founded in 1965 by Mr Tong Jum Chew, a Chinese physician. Mr Tong started his own medical hall when he saw a potential for growth in the Traditional Chinese Medicine (TCM) market.

Over the years, TJC progressed from being just a retailer to a wholesaler and distributor of TCM products imported directly from China. With the modernization and increased regulation of TCM, the company took an important step forward in 2004 when it set up its own facilities in Singapore to manufacture TCM under stringent quality control. This attention to detail earned TJC the GMP (Good Manufacturing Practice) certification in 2006.

Today TJC has the ability to manufacture TCM in tablets, capsules, granules, powders and teabags. With over 400 products successfully registered in Singapore, TJC has a wide variety of TCM products for different purposes, ranging from healthcare to beauty and treatment of various ailments.

Under the proprietary brand of Nature's Green, TJC's products have made it to the shelves of both traditional medical halls and leading western pharmacies, establishing a strong foothold in the market for TCM.

The company's philosophy is to be the best in product quality and efficacy, continuously striving to manufacture TCM of the highest standards. With modern technology and production methods, TJC is able to fully utilize the effective ingredients of TCM while eliminating its ineffective components. This allows TJC to achieve its production targets of 3 "minimizations" (minimize size, dosage and side effects), 4 "maximizations" (maximize efficacy, taste, appearance and stability) and 4 "conveniences" (convenience in prescription, usage, carrying and storage).

With efficacy, efficiency, quality and reliability as its driving forces, Tong Jum Chew Pte Ltd is looking to expand its markets into more ASEAN countries and Australia, taking Nature's Green brand across the region and beyond.

With the large number of products in its portfolio, Tong Jum Chew Pte Ltd has found barcodes very useful in its daily operations. For a low cost, barcodes enable the company to track the inventory levels, location, cost and pricing of individual items. They can also be used to identify fast or slow moving items, thus helping in the planning of production schedules.



Office building



Quality analysis during production

Report of the 14th ISO/IEC JTC1/SC31 Plenary and Working Group Meetings 2 to 6 June 2008 – Toronto, Canada

BY TAN JIN SOON, EXECUTIVE DIRECTOR OF GS1 SINGAPORE

Introduction

This is the ISO meeting for the development of ISO Standards for Automatic Data Capture for Item Management covering RFID. I attended this important ISO meeting as Singapore Head of Delegate for this meeting.

The Report

This report covered meetings from 2 to 6 June 2008. The report is in four parts as follows:-

- a) Part 1: 2nd and 3rd June 2008: ISO Ballot Resolution Meeting on ISO: CD 15961.1, ISO: CD 15962, ISO/SC31 Working Group 4/Sub-Group 1: Application Interface Protocols (to discuss ISO 24791 part1 to part 6, ISO 24753, ISO 15961/15962 and ISO NP 15961 to 15964).
- b) Part II: 4th June 2008: ISO/SC31 Working Group 4/ Sub-Group 5 RFID Implementation Guidelines on tag security.
- c) Part III: 5th June 2008: ISO/SC31 Working Group 4 Plenary Meeting.
- d) Part IV: 6th June 2008: ISO/SC31 Plenary Meeting.

• Part I (i): 2nd and 3rd June 2008

At this Ballot Resolution Meeting (BRM) on ISO CD 15961-1 and ISO CD 15962 to resolve comments received on the ballots cast by National Bodies, all BRM matters were resolved during meeting from 8:30am on 2nd June 2008 until the morning session of 3rd June 2008. The following resolutions were approved:-

RESOLUTION 1

The BRM committee for the CD of 15961-1 accepts the Disposition of Comments (SG1_200806_15961-1_DoC.doc) as completed during the BRM and instructs the project editor to incorporate the comments into the revision of ISO/IEC 15961-1 by 7 July 2008.

Unanimous

RESOLUTION 2

The BRM committee for the CD of 15961-1 instructs the project editor to send the completed revision of ISO/IEC 15961-1 to an editorial review committee by 7 July 2008 to ensure all technical and editorial changes identified in the Disposition of Comments (SG1_200806_15961-1 DoC.doc) are fully implemented. The review committee shall consist of the following volunteers: Raymond Delnicki, Tan Jin Soon, Scott Barwick, Bertus Pretorius, Masaki Ehara, Rob Buck, Se won Oh, Kazuo Kobashi and Rick Schuessler.

Unanimous

RESOLUTION 3

The project editor is instructed to forward the revised, reviewed draft to the BRM convener by 21 July 2008 to submit it to the SC31 Secretariat for an FCD ballot.

Unanimous

RESOLUTION 4

The BRM committee for the CD of 15962.2 accepts the Disposition of Comments (SG1_200806_15962.2_DoC.doc) as completed during the BRM and instructs the project editor to incorporate the comments into the revision of ISO/IEC 15962 by 7 July 2008. - Unanimous

RESOLUTION 5

The BRM committee for the CD of 15962.2 instructs the project editor to send the completed revision of ISO/IEC 15962 to an editorial review committee by 7 July 2008 to ensure all technical and editorial changes identified in the Disposition of Comments (SG1_200806_15962.2 DoC.doc) are fully implemented. The review committee shall consist of the following volunteers: Raymond Delnicki, Tan Jin Soon, Scott Barwick, Bertus Pretorius, Masaki Ehara, Rob Buck, Se won Oh, Kazuo Kobashi and Rick Schuessler.

Unanimous

RESOLUTION 6

The project editor is instructed to forward the revised, reviewed draft to the BRM convener by 21 July 2008 to submit it to the SC31 Secretariat for an FCD ballot.

Unanimous

• Part I (ii): SC31 WG4/SG1 Meeting Report

On the meeting on ISO/SC31 Working Group 4/Sub-Group 1 (ISO/SC31 WG4/SG1), the subject matter was "Application Interface Protocols". Highlights of the meeting were:-

1. Intellectual Property: The Convenor requested all members present to submit IP if they have.
2. Mr. Scott Barwick gave an update of all parts of 24791-1 on the Architecture as follows:

A summary of ISO/SC31 WG4/SG1 held in Clearwater, USA are as follows:

- Draft currently only has SNMP (Simple Network Management Protocol) MIBs (Management Information Base) for Interrogator and Interrogator Controller
- Committee found editorial comments only with Clearwater draft, architecture and direction OK
- Discovery, Configuration, and Initialization (DCI) is also in scope, but EPCglobal DCI specification was not yet available in January 2008
- Resolution to ask for 1 year extension to allow for time for review of DCI options
- Candidate Specification completed
- Interoperable testing scheduled for July 2008
 - Valuable technical validation step
 - 2 reader-side implementations and 2 controller implementations committed
 - Last technical step in process
- Referenced technical specification, IETF (Internet Engineering Task Force) CAPWAP (Control and Provisioning of Wireless Access Points) sent to IETF IESG (Internet Engineering Steering Group) and approval as RFC is imminent
- References IETF CAPWAP (Control and Provisioning of Wireless Access Points), which was developed from the protocol that is already in use in large and small wireless access point deployments around the world
- EPCglobal DCI specification is relatively short document (21 pages) that says how to use the CAPWAP protocol for RFID deployments.
- Created by the same Working Group that developed

LLRP (Low Level Reader Protocol) (24791-5) to ensure architectural and technical consistency and applicability for all target platforms

- Ongoing participation of large and small reader and infrastructure vendors
- RFC (Request For Comment) imminent, latest draft available at <http://www.ietf.org/internet-drafts/draft-ietf-capwap-protocol-specification-10.txt>
- Utilizes existing Internet standards including DNS (Domain Name System), DHCP (Dynamic Host Configuration Protocol), UDP (User Datagram Protocol), Certificates in a simple binary protocol format that can be implemented on any platform
- 2 sources of protocol source code are available including one from Cisco, and both will be used at the DCI Interoperable test. Dependent libraries (e.g. open SSL –secure sockets layer) are freely available
- There has been no disagreement that EPCglobal DCI is to be referenced for 24791-3 DCI components
- Architecture and implementation is consistent with 24791 architecture, protocols, and goals from Ennis meeting (i.e. utilize existing standards where they exist)
- Concern over implementation difficulty resolved with 2 sources of code and prototype development experience

The Project Editor's Recommendation for Next Steps were:

- Request extension of project date
- Complete update of draft with comments from Clearwater meeting
- Add Data Carrier Identifier (DCI) reference and supporting text to draft (no disagreement with DCI as core)
- Pittsburgh meeting to be held in August 2008 to include the following agenda:
- Report on DCI interop testing
- Report on CAPWAP status
- Discuss details of CAPWAP/DCI with CAPWAP spec and EPCglobal DCI spec or summary
- Review the options and decide how to go forward

The following Resolutions were approved for WG4/SG1 meeting:-

RESOLUTION 1

WG 4/SG 1 resolves that WG 4 should request a 12-month extension to the work programme of ISO/IEC 24791-2. This extension is predicated on the need for EPCglobal to achieve Approved RS Originator Organization (ARO) status for inclusion as a Normative Reference. JTC 1 has the ARO status of EPCglobal under consideration.

Unanimous

RESOLUTION 2

WG 4/SG 1 resolves that WG 4 should request a 12-month extension to the work programme of ISO/IEC 24791-5. This extension is predicated on the need for EPCglobal to achieve Approved RS Originator Organization (ARO) status for inclusion as a Normative Reference. JTC 1 has the ARO status of EPCglobal under consideration.

Unanimous

RESOLUTION 3

WG 4/SG 1 resolves that WG 4 should replace Joo-Sang Park with Scott Barvick as the Project Editor for ISO/IEC 24791-2

Unanimous

RESOLUTION 4

WG 4/SG 1 expresses its sincere appreciation to Joo-Sang Park's service as the original Project Editor for ISO/IEC 24791-2.

Unanimous

RESOLUTION 5

WG 4/SG 1 resolves to continue the ISO/IEC 24753 ad hoc organized under Resolution 12 of the Clearwater, Florida meeting of WG 4/SG 1 (SG1_200802_174_Clearwater_Mtg_Res). The ad hoc participants are identified as Eli Levy; Josef Preishuber-Pfluegl, Faron Dacus, Curt Rozeboom; Jim Springer; Steve Lazar, Rick Schuessler, Ryad Semichi and Doron Lavee.

Unanimous

RESOLUTION 6

WG 4/SG 1 resolves that WG 4 should request that Work Item ISO/IEC 24791-4 be withdrawn. It is the opinion of WG 4/SG 1 that the marketplace is not yet ready for Work Item ISO/IEC 24791-4.

Unanimous

Part II Report: 4th June 2008: SC31 WG4/SG5: RFID Implementation Guidelines

1. Mr T. Yoshioka, Chairman of WG4/SG5 called the meeting to order at 9:00am. A total of 30 delegates from 14 countries/organizations participated in this meeting including Canada, Finland, France, Germany, Israel, Japan, Korea, Netherlands, Russia, Singapore, Sweden, USA, TC 122 and SC31. The Head of Delegate for Singapore is Mr Tan Jin Soon.
2. Delegates were presented with the work progress on ISO/IEC TR 24729. Details were as follows:-
 - 2.1 TR 24729-1 Part 1 : RFID-enabled labels and packaging supporting ISO/IEC 18000-6C (under balloting for title change (2008-02-13) Published TR (2008 April)
 - 2.2 TR 24729-2 Part 2: Recycling and RF tags Published TR (2008 April)
 - 2.3 TR 24729-3 Part 3: Implementation and operation of UHF RFID Interrogator System in Logistics Applications is under balloting as PDTR (3rd March to 6th June 2008)
 - 2.4 TR 24729-4 Part 4: RFID Guidelines on Tag Data Security (The ballot for NWIP/CD was passed and BRM was held on 4th June 2008).

RESOLUTION (A): One resolution was passed at WG4/SG5 meeting on 4th June 2008.

RESOLUTION 1

WG4/SG5 approves a project editor report of work progress of ISO/IEC 24729: Information Technology – Radio Frequency Identification for item management – Implementation Guidelines.

Unanimous

RESOLUTION (B): Two resolutions were passed at the Ballot Resolution Meeting PDTR Ballot of ISO/IEC 2479-4 on 4th June 2008.

RESOLUTION 1

The BRM committee for the PDTR of 24729-4 accepts the Disposition of Comments (SG5n0061_31n2508_DoC_24729-4_13B_format_20080517), and instructs the project editor to incorporate the comments into the revision of ISO/IEC DTR 24729-4.

Unanimous

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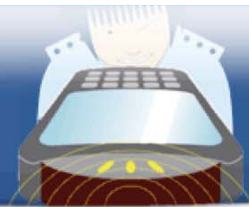


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RESOLUTION 2

The project editor is instructed to submit the revision document (SG5n0062) to the SC31 Secretariat for DTR ballot.

Unanimous

• **Part III Report: 5th June 2008: ISO/IEC JTC1/SC31 WG4 Plenary**

This meeting was chaired by Mr Henri Barthel, the Chairman of SC31 WG4. It was attended by 41 delegates from 13 countries including Belgium, Canada, China, France, Finland, Japan, Korea, Netherlands, Russia, Singapore, Sweden, UK, USA.

The summary of the meeting was as follows:-

1. **Appointment of the Drafting Committee**

The meeting appointed Mr. Dessenne, Mr. Halliday, Mr. Harmon, Mr. Tan, and Mr. Van den Akker as members of the drafting committee for the meeting.

2. **Approval minutes previous meeting**

The minutes of the previous meeting were approved without changes.

3. **Report from ISO/IEC JTC1/SC31 (Mr. Barthel)**

Mr. Barthel noted that SC31 requested SC31/WG4 to discuss the comments that were submitted during the ballot for ARO for GS1 and EPCglobal.

Mr. Barthel explained that the ISO/IEC JTC 1 directives were changed regarding the referencing of external documents. GS1 and EPCglobal considered the 2 options:

1. Submit a parallel ballot for approving the referenced specification in addition to the normal SC31 ballot
2. Submit an application to JTC 1 for recognising the organisation as an Approved Referenced Specification Originator Organization (ARO)

He noted that the latter option was chosen for the following reasons:

1. Multiple SC31 standards already make a normative reference to the GS1 General Specifications and to EPCglobal specifications
2. It is expected that many revised and new SC31 standards will continue requiring normative references to GS1 and EPCglobal specifications. He noted that both ballots passed with comments. The comments were discussed at this meeting.

4. **Report from Subgroup 1 - Application interface protocols (Mr. Schuessler)**

Mr. Schuessler reported on the progress of WG4/SG1. WG4/SG1 had 2 meetings since the previous meeting of WG4: 2008-04-10/11 (Vienna) and 2008-06-02/03 (Toronto). The following meetings have been planned: 2008-08-21/22 (Pittsburgh), 2008-11-13/14 (Switzerland).

Highlights:

- Mr. Schuessler gave an overview of the current work items of WG4/SG1.
- Mr. Chartier gave an update on the data constructs. He explained that several requests for data constructs had been received. The requirements in the draft standards had been changed significantly several times. It had now been decided to include tables as well. Mr. Chartier noted that the register with the received requests for preliminary data constructs will be ready by the end of July 2008.
- Mr. Schuessler presented the figure with work project interrelationships that is part of the 2nd CD of ISO/IEC 24729-1
- ISO/IEC 15962 Information technology - Radio frequency identification (RFID) for item management - Data protocol: data encoding rules and logical memory functions: the

BRM was held on 3 June 2008. The document will be forwarded for FCD ballot in July 2008.

- ISO/IEC 15961-1 Data protocol: application interface: the BRM was held on 3 June 2008. The document will be forwarded for FCD ballot in July 2008.
- ISO/IEC 15961-2 Data protocol: Registration of RFID data constructs: The document will be forwarded for FCD ballot in July 2008.
- ISO/IEC 15961-3 Data protocol: RFID data constructs: The document will be forwarded for FCD ballot in August 2008.
- ISO/IEC 15961-4 Data protocol: Sensors and Batteries: the NP was approved and the Working Draft is expected later in 2008, intended to conform to ISO/IEC 24753.
- ISO/IEC 24753 Automatic identification and data capture techniques - Radio frequency identification (RFID) for item management - Application protocol: encoding and processing rules for sensors and batteries: the ballot for the 12-month Extension on JTC1-level had passed. The project editor had been synchronizing the draft with the draft of IEEE 1451.7 (sensors for RFID). The issue was raised by WG4/SG3 that ISO/IEC 18000-6 FCD cannot move forward without material from ISO/IEC 24753. The solution was to temporarily incorporate 24753 Annexes in 18000-6. This will be replaced with a reference to ISO/IEC 24753 that will be included later. The remaining work for the draft is to complete the encoding rules for Simple Sensors and Full Featured sensors. ISO/IEC 24753 will progress to FCD ballot in July 2008.
- ISO/IEC 24791-1 Architecture: is under 2nd CD ballot.
- ISO/IEC 24791-2 Data Management: the work item is delayed due to surgery of the project editor and dependency of the ARO status of GS1 and EPCglobal. Resolutions to extend the deadline and to approve Mr. Scott Barvick as the replacement of Mr. Joo-Sang Park as the Project Co-Editor were approved by WG4/SG1 and proposed to WG4
- ISO/IEC 24791-3 Device Management: a proposed amendment has been received to add Discovery and Configuration facilities from the draft IETF document. An extension is requested to allow time for the external specifications. Other alternatives were noted (such as those presented to WG4/SG1 by Intermec and Microsoft) which may be considered at the meeting of WG4/SG1 in August 2008. A resolution to extend the deadline was approved by WG4/SG1 and proposed to WG4.
- ISO/IEC 24791-4 Application Interface: WG4/SG1 suggested to withdraw this work item.
- ISO/IEC 24791-5 Device Interface: the dependency on the ballot of EPCglobal position as ARO was noted. Resolutions to extend the deadline and to move the document forward for CD ballot were approved by WG4/SG1 and proposed to WG4.
- ISO/IEC 24791-6 Security: A resolution to move the document forward for CD ballot was approved by WG4/SG1 and proposed to WG4.
- Mr. Schuessler asked the participants to declare Intellectual Property for WG4/SG1 work items. No participant declared Intellectual Property for WG4/SG1 work items at this WG4 meeting.

5. **Report from Subgroup 3 - Air Interface (Mr. Halliday)**

Mr. Halliday, convener of WG4/SG3, reported on the progress of WG4/SG3.

WG4/SG3 had one meeting since the previous meeting of WG4: 2008-04-08/09 (Vienna). The following meetings have been planned: 2008-08-19/20 (USA) and possibly in November

(place to be agreed to be aligned with the BRM for 18000-6).

Highlights:

- ISO/IEC 18000-1: the FDIS ballot was closed and approved and is awaiting publication. Mr. Halliday noted that a NP is expected in the future to modify 18000-1 to bring it in line with the current work in the other parts.
- ISO/IEC 18000-2: the new work item was approved and revised version of standard was sent to CD ballot after the Vienna meeting. The CD ballot will close on 2008-07-24 and the BRM is scheduled in August.
- ISO/IEC 18000-3: the FDIS will close on 2008-08-04 and will then be published.
- ISO/IEC 18000-3 (AM2): the NP Ballot closed 2007-04-12 and was approved. Mr. Halliday explained that the input from EPCglobal and others has been received. All input except the EPCglobal input has been withdrawn. An ad-hoc group was formed to review all inputs and put together a draft document for approval at the August meeting. It was noted that the document will then hopefully be sent for CD ballot.
- ISO/IEC 18000-4: the FDIS will close on 2008-08-04 and will then be published.
- ISO/IEC 18000-6: the 2nd CD ballot closed on 2007-11-03 and a BRM was held in Aix-en-Provence and finalized in Vienna. A delay was caused because of the references to ISO/IEC 24753.
- ISO/IEC 18000-7: a new work item was approved and a revised version of the standard was sent for CD ballot after the Vienna meeting. The CD ballot closes on 2008-07-23 and the BRM is organised in August.
- Mr. Halliday noted two issues that emerged during the WG4/SG3 meeting: file management and security.
- Mr. Halliday suggested that a new work item on security may not be restricted to the area of SG3. Mr. Harmon suggested that a new work item will be assigned to WG4 using electronic communication means as much as possible. Mr. Dannenberg noted that there is a need to address security issues in UHF and suggested to use the presentation of the University of Graz as input for the proposal. Mr. Harmon suggested to relate to SC27 in view of validation. Mr. Harmon asked how reference will be made to TOTAL. Mr. Halliday responded that TOTAL can be addressed in type a, b, and c. Mr. Dannenberg suggested to focus first on 180006c. Mr. Chartier noted that security issues also apply to 18000-3. Mr. Lazar noted that security is an issue that applies to other areas than just items and noted the importance of a liaison with SC6 and SC17. Mr. Halliday concluded that a new work item proposal is expected from Austria.
- WG4/SG3 suggested 2 resolutions that were approved by WG4:
 - The appointment of Mr. Franz Amtmann as the replacement for co-Project Editor Christophe Mani on 18000-3.
 - The approval of the work being done on 18000-3 to include Mode 3 and and the request for SG3 to forward this document directly to the SC31 secretariat for processing as a CD ballot after the SG3 meeting in August.
- Mr. Halliday noted that participants in SG3 meetings are always asked to declare Intellectual Property for WG4/SG3 work items. No participant declared Intellectual Property for WG4/SG3 work items at this WG4 meeting.

6. Report from Subgroup 5 - Implementation Guidelines (Mr. Yoshioka)

Mr. T. Yoshioka, convenor of WG4/SG5, presented on the

progress of WG4/SG5. SG5 had two meetings since the previous meeting of WG4: 2008-03-16 (BRM on DTR 24729-1 for title change) and 2008-06-04 (BRM on PDTR 24729-4 and SG5 meeting, Toronto).

Highlights:

- TR 24729-1 Part 1: RFID- enabled labels and packaging supporting IEO/IEC18000-6C: has been published as TR
- TR 24729-2 Part 2: Recycling and RF tags: has been published as TR
- TR 24729-3 Part 3: Implementation and operation of UHF RFID Interrogator systems in logistics applications: under balloting as PDTR until 2008-06-04.
- TR 24729-4 Part 4: RFID guideline on tag data security: the ballot for NWIP/CD passed and BRM was held. A resolution to move the document forward for DTR ballot was approved by WG4/SG5 and proposed to WG4.
- Mr. Barthel reported on the results of the NP/CD ballot for RFID emblem: the NP ballot passed, the CD ballot failed.

7. ISO/IEC 15963

Mr. Harmon reported on WG4 document N1160. The 15963.1 Ad Hoc has discharged its responsibilities and has advanced document N1160 as ready for CD ballot. Mr. Schuessler reacted that the current document contains several mistakes. After some discussion it was decided that Mr. Harmon and Mr. Schuessler would correct the mistakes after which the document would be forwarded for CD ballot. This suggestion was approved by WG4. It was further decided to assign ISO/IEC 15963.1 directly to SC31/WG 4 and to request that EPCglobal to complete table D.2 of ISO/IEC 15963.1 and return the same to SC31/WG4 within 90 days.

8. Report from the SC31/WG6 Mobile Item Identification and Management (MIIM) (Mr. Craig Harmon)

Mr. Harmon noted that SC31/WG6 currently has one work item: ISO/IEC 29143 Information technology - Automatic identification and data capture techniques - Air interface specification for Mobile RFID interrogator. Other work items are expected in the future. A detailed report on the activities of SC31/WG6 was given at the plenary meeting of SC31.

9. Regulatory Items (Mr. Preishuber-Pflügl)

Mr. Barthel presented on behalf of Mr. Preishuber-Pflügl, Regulatory Rapporteur of SC31/WG4.

Highlights:

- Regulations in Japan: removal of LBT for channels 2 and 8 released on December 6th 2007 in force since April 2008
- European regulations:
 - Update of CEPT REC 70-03 and ETSI EN 302208 approved:
 - No LBT (Listen before Talk)
 - * Only 4 Channel for transmit (channels 4, 7, 10 and 13)
 - * Higher levels for tag response (- 20 dBm) for future better tags (higher range, battery powered passive tags)
 - * Publication done in April 2008
 - Long term discussion on new frequency bands:
 - * 915 – 921 MHz band
 - * more power (4 W ERP corresponds 6.56 W EIRP)
 - * 4 high speed channels with 400 kHz transmit band and 1.2 MHz channel separation
 - * ETSI TG 34 „RFID“ forwarded document to appropriate ETSI and CEPT committees

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GS1 Asia Pacific Regional Forum 2008 'United by a common vision for success'



Delegates from 19 GS1 MOs in Asia Pacific and Global Office gathered in Melbourne for the GS1 Asia Pacific Regional Forum.

The annual GS1 Asia Pacific Regional Forum is hosted each year by different GS1 Member Organisations (MOs) in different countries to discuss the issues of the region, to have dialogue with GS1 Global Office Leadership Team and also to agree the Asia Pacific Organisation Effectiveness Goals for presentation to GS1 Global Office for inclusion in the GS1 Business Plan for the next 3 years. During the past years, the GS1 Asia Pacific Regional Forum were successfully hosted as follows:

- 2005 - GS1 Singapore
- 2006 - GS1 Indonesia
- 2007 - GS1 Vietnam
- 2008 - GS1 Australia
- 2009 - To be hosted by GS1 Hong Kong

The 2008 Asia Pacific Regional Forum – Melbourne, Australia

GS1 Australia hosted the GS1 Asia Pacific Regional Forum 2008 from 20 – 22 October 2008. More than 68 representatives from 19 GS1 MOs in Asia Pacific and Global Office attended this three-day annual forum in Melbourne.

Addressing the theme “United by a Common Vision for Success”, the forum was filled with a range of different interactive sessions. Day one of the forum began with “The Brain Storming Session” among CEOs of Asia Pacific MOs on the proposed 3-year Business Plan. This was followed by the meeting of the GS1 Asia Pacific CEO Oversight Committee in the afternoon. During the second and third day of the forum, the following main areas were covered:-

- a. Major initiatives conducted by GS1 Global Office.
- b. New initiatives and case studies presented by GS1 Asia Pacific MOs.

Running simultaneously alongside the forum was a two-day technical training held at the GS1 Australia office. Mr Andy Siow, Executive of GS1 Singapore attended the technical training which was also attended by more than 20 delegates who are technical staff of GS1 Asia Pacific MOs. The training session covered the technical aspects of Databar, Datamatrix, Traceability; the Components of EPC, EPCIS, GSMP, Data Synchronisation, Data Quality, GDSN and Supply Chain Management. Delegates were also taken for a tour of the GS1 Australia’s Supply Chain Knowledge Centre where the integrated

GS1 system was assembled to demonstrate the benefits of the implementation of GS1 system by manufacturers and retailers.

This is a very comprehensive two-day technical training programme for GS1 MOs organised by GS1 Global Office. It is at such training programme that the technical staff of MOs can learn the latest GS1 standards and also how to help GS1 users from retailers and manufacturers to implement GS1 standards for their business processes to improve productivity. All GS1 Asia Pacific MOs should continue to send technical staff for such training organised by GS1 Global Office.

SMA’s new Secretary-General, Mr Gwee Seng Kwong and GS1 Singapore’s Executive Director, Mr Tan Jin Soon represented Singapore at the forum.

Among the topics discussed at the forum include Sharing of MOs Experiences; Healthcare; EPCglobal, GS1 DataBar, Mobile Commerce, QR Code; Traceability and GSMP.

Mr Miguel Angel-Lopera, President & CEO of GS1 gave an overall GS1 Global Update on Breakthrough Projects covering Sustainable Financial Model, Organisational Effectiveness Project, MO and Global Office Relations, Where to Play, How to Grow and Step-Change Revenues at GS1, Global Office Business Plan and Project Update.

In his presentation, Mr Michel van der Heijden, CFO of GS1 provided an update on the issues on Healthcare and WCO.

During the closed door session, delegates who are CEOs of MOs were impressed with Mr Gwee Seng Kwong’s participation in the discussions at the Forum. On the subject of the implementation of GS1 system for the healthcare industry, Mr Gwee suggested that to implement such a project, it requires the collaborations of manufacturers, retailers, GS1 MOs and governments of the region. He added that the next APEC2009 meeting will be held in Singapore and that GS1 can explore using such platform to propose a pilot project to try out cross border implementation of GS1 standards for healthcare. All delegates agreed that the APEC event is a suitable platform to launch GS1 system for the Healthcare industry. Delegates later complimented Mr Gwee for his “excellent maiden speech” performance at the forum.

08 in Melbourne or success'



Mr Russel Stucki, Chairman of GS1 Australia (second from right) and Mrs Maria Palazzolo, CEO of GS1 Australia receiving the plaques from Mr Gwee Seng Kwong, Secretary-General of SMA (right) and Mr Tan Jin Soon, Executive Director of GS1 Singapore.

GS1 New Zealand's Outstanding Presentation on "Case Study on the Use of EPCglobal for the Exporting of Kiwi Fruit to the World"

This presentation is the most outstanding at the forum. The cost of implementing this project was NZ\$600,000. The savings in penalties alone for delays in loading amounted to NZ\$440,000, at the end of a 24 weeks cycle for one season. In addition, the savings on using less forklifts/drivers and 4% savings on fruit loss were not quantified. All delegates were impressed with this EPCglobal RFID implementation in New Zealand.

Wal-Mart's Sam's Club

Mr Simon Langford, the IT Director of Wal-Mart USA presented the mandate to be implemented by 489 Wal-Mart Sam's club suppliers in Asia to implement EPCglobal RFID Gen 2 tags for cartons by January 2009 and for item tagging by January 2010. We therefore expect a surge for adoption of EPCglobal by manufacturers in Asia in 2009.

QR Code Adoption

GS1 Japan made a presentation on QR Code Adoption in Japan, Hong Kong and Singapore, covering a wide range of sectors including food traceability, healthcare, surgical instruments, patient identification, packaging, passenger management and application of QR Code using mobile phone.

Conclusion

This is a very successful and fruitful forum. The forum allows MOs to share experiences and review progress of the GS1 system. The gathering also facilitates maximum interaction for all delegates to discuss the current situation of the adoption of the GS1 system and initiate new ideas for future implementations.



Flinders Street Station in Melbourne - the best-known railway station in Australia.



GS1 Asia Pacific Regional Forum in progress.



Mr Miguel Lopera, President & CEO of GS1 giving an overall GS1 Global Update on Breakthrough Projects.



Mr Steven Pereira, Chief Information Officer of GS1 Australia explaining to training participants on how to set up a GSMP Local Community Network during the training session.

- New European band might bring global UHF RFID bands closer together
- Mr. Lazar asked attention for the public enquiry of standard EN 300 220.
- Mr. Harmon asked attention for a ITU document on the registration of Object Identifier Arcs for Id-Based Applications and Services. He noted that SC31 should be concerned that such a standard would unreasonably burden RFID tags that presently have no such identities. Mr. Harmon suggested that SC31 writes a letter to ITU expressing its concerns.

10. Future SC31 WG4 Meetings Schedule

- 23rd meeting 4 February 2009, Shanghai
- 24th meeting week of 8 June 2009, Australia
- 25th meeting 19 November 2010, The Netherlands

11. Resolutions of 22nd ISO/IEC JTC1/SC31 WG4 Plenary Meeting – 5th June 2008

The following resolutions were passed at this meeting.

1. Project extension ISO/IEC 24791-2

SC 31/WG 4, noting the critical status of work item ISO/IEC 24791-2 Information technology – Automatic Identification and Data Capture Techniques – Radio-Frequency Identification (RFID) for Item Management – System Management Protocol – Part 2: Data management, requests SC31 to approve a 12-month extension to the work programme of ISO/IEC 24791-2.

UNANIMOUS

2. Project editor for ISO/IEC 24791-2

SC31/WG 4 resolves to appoint Mr. Scott Barvick as the replacement of Mr. Joo-Sang Park as the Project Co-Editor for ISO/IEC 24791-2 and asks that SC31 approves this appointment.

UNANIMOUS

3. Project extension for ISO/IEC 24791-3

SC 31/WG 4, noting the critical status of work item ISO/IEC 24791-3 Information technology – Automatic Identification and Data Capture Techniques – Radio-Frequency Identification (RFID) for Item Management – System Management Protocol – Part 3: Device management requests SC31 to approve a 12-month extension to the work programme of ISO/IEC 24791-3. This extension is predicated on the need to consider and accommodate the EPCglobal Discovery Configuration and Initialisation and the Internet Engineering Task Force Multicast DNS (mDNS) and DNS Services Discovery (DNS-SD).

UNANIMOUS

4. Withdrawal of Work Item ISO/IEC 24791-4

SC31/WG 4 request SC31 to withdraw Work Item ISO/IEC 24791-4 Information technology – Automatic Identification and Data Capture Techniques – Radio-Frequency Identification (RFID) for Item Management – System Management Protocol – Part 4: Application interface from its programme of work. It is the opinion of SC 31/WG 4 that the marketplace is not yet ready for Work Item ISO/IEC 24791-4.

UNANIMOUS

5. Project extension for ISO/IEC 24791-5

SC 31/WG 4, noting the critical status of work item ISO/IEC 24791-5 Information technology – Automatic Identification and Data Capture Techniques – Radio-Frequency Identification (RFID) for Item Management – System Management Protocol – Part 5: Device interface, requests SC31 to approve a 12-month extension to the work programme of ISO/IEC 24791-5.

UNANIMOUS

6. CD ballot ISO/IEC 24791-5

SC31/WG4 requests the SC31 secretariat to submit ISO/IEC 24791-5 Information technology – Automatic Identification and Data Capture Techniques – Radio-Frequency Identification (RFID) for Item Management – System Management Protocol – Part 5: Device interface for CD ballot.

UNANIMOUS

7. CD ballot for ISO/IEC 24791-6

SC31/WG4 requests the SC31 secretariat to submit ISO/IEC 24791-6 Information technology – Automatic Identification and Data Capture Techniques – Radio-Frequency Identification (RFID) for Item Management – System Management Protocol – Part 6: Security for CD ballot

UNANIMOUS

8. Project editor for ISO/IEC 18000-3

SC 31/WG 4 resolves to appoint Mr. Franz Amtmann as the replacement for co-Project Editor Christophe Mani on ISO/IEC 18000-3 and asks that SC31 approves this appointment.

UNANIMOUS

9. CD ballot for ISO/IEC 18000-3

SC31/WG4 approves the work being done on 18000-3 to include Mode 3 and requests SG3 to forward this document directly to the SC31 secretariat for processing as a CD ballot after the SG3 meeting in August 2008.

UNANIMOUS

10. DTR ballot for ISO/IEC 24729-4

SC31/WG4 requests the SC31 secretariat to submit ISO/IEC 24791-4 Information technology – Automatic Identification and Data Capture Techniques – Radio-Frequency Identification (RFID) for DTR ballot.

UNANIMOUS

11. CD ballot ISO/IEC 15963.1

SC31/WG4 requests the SC31 secretariat to submit ISO/IEC CD 15963.1, Information technology – Radio frequency identification (RFID) for item management – Unique identification for RF tag for CD ballot.

UNANIMOUS

12. Assignment of ISO/IEC 15963.1 to SC31/WG4

SC31/WG4, recognizing that SC31/WG 4/SG 2 has been disbanded, and recognizing that there was but one work item in WG 4/SG 2, and recognizing that ISO/IEC 15963 has implications for more than one WG 4/SG; resolves to assign ISO/IEC 15963.1 directly to SC31/WG 4.

UNANIMOUS

13. Table D.2 of ISO/IEC 15963.1

SC31/WG4 requests that EPCglobal complete table D.2 of ISO/IEC 15963.1 and return the same to SC31/WG4 within 90 days.

UNANIMOUS

14. Approved RS Originator Organization (ARO) - EPCglobal, Inc.

In accordance with the JTC 1 directive: "SC 31 is instructed to review and respond to the comments submitted on the EPCglobal, Inc. request prior to any further action being taken by JTC 1." SC 31/WG 4 instructs the SC 31 Secretariat to provide a resolution, at the Toronto Plenary, to accept the completed comments addressed in SC031-N-2545 and forward to JTC 1 for further processing.

UNANIMOUS

15. Approved RS Originator Organization (ARO) - GS1

In accordance with the JTC 1 directive: "SC 31 is instructed to review and respond to the comments submitted on the GS1 request prior to any further action being taken by JTC 1." SC 31/WG 4 instructs the SC 31 Secretariat to provide a resolution, at the Toronto Plenary, to accept the completed

comments addressed in SC031-N-2546 and forward to JTC 1 for further processing.

UNANIMOUS

16. Convenorship of Mr. Toshihiro Yoshioka for WG4/SG5

SC31/WG4 reaffirms the convenorship of Mr. Toshihiro Yoshioka for WG4/SG5.

UNANIMOUS

• **Part IV Report: 6th June 2008: ISO/IEC JTC1/SC31 Plenary Meeting**

The ISO/IEC JTC1/SC31 Plenary Meeting was held on 6th June 2008. At this meeting, Tan Jin Soon was appointed as a member of the resolution drafting committee, whose members included Mr Ken Laing (Australia), Mr Dan Kimball (USA), Mr Steve Halliday (USA), Dr Young-Bin Kwon (Republic of Korea) and Mr Mikael Hjalmarson (Sweden).

Highlights:

Resolutions made at this 14th ISO/IEC JTC1/SC31 Plenary meeting on 6th June 2008, Toronto, Canada were as follows:-

Project Editor Appointments

Resolution 1: SC 31 approves the following project editor appointments:

Mr. Craig Harmon	ISO/IEC NP 15459-4
Mr. Craig Harmon (USA), Mr. Heinrich Oehlmann (Germany), and Mr. Kazuhiko Wakaizumi (Japan)	Guidelines for using data structures in AIDC media
Mr. David Buckley (GS1)	ISO/IEC NP 15459-8
Mr. Josef Preishuber-Pflügl	ISO/IEC 29143
Mr. Rick Schuessler	ISO/IEC 15438 (PDF417)
Mr. Rick Schuessler	ISO/IEC 24728 (MicroPDF417)
Mr. Sprague Ackley	ISO/IEC 15417 (Code 128)
Mr. Sprague Ackley	ISO/IEC 15424 (Symbology/ Data Carrier Identifiers)
Mr. Sprague Ackley	ISO/IEC 29158 (Direct Part Mark (DPM) Quality Guideline)
Mr. Franz Amtmann	ISO/IEC 18000-3 (to replace Mr. Christophe Mani)
Mr. Scott Barvick	ISO/IEC 24791-2 (to replace Mr. Joo-Sang Park)

-Unanimous

ISO/IEC JTC 1/SC 31/WG 2 Convener

Resolution 2: Following notification of continued support of the Japanese National Body and with the support of the members of SC 31/WG 2, SC 31 approves the re-appointment of Mr. Toshihiro Yoshioka for a three (3) year term as Convener of SC 31/WG 2.

- Unanimous

Proposal for the WG 3/SG 1 Standards

Resolution 3: Following the proposal from the National Body of the United States, SC 31 approves the disbandment of SC 31/WG 3/SG 1 and the reassignment of the various work items to the appropriate Working Group inside of SC 31. SC 31 recommends the creation of subgroups where appropriate to handle these work items.

- Unanimous

ISO/IEC 15459 Series ad hoc group

Resolution 4: Following the proposal from the National Body of the Sweden, SC 31 notes the SC 31/WG 2 Resolution to form an ad hoc group to gather information and provide a request to SC 31/WG 2 to revise the suite of the ISO/IEC 15459 Series.

- Unanimous

Liaison Relationship Establishment

Resolution 5: SC 31 approves the request of the following liaison relationships.

Liaison Organization	Liaison Representative	Liaison Category	SC 31 Working Group
IEEE	To be assigned	B	SC 31/WG 6
IETF	To be assigned	B	SC 31/WG 6
JTC 1/SC 6	To be assigned	Internal	SC 31/WG 6
JTC 1/SC 17	To be assigned	Internal	SC 31/WG 6
JTC 1/SC 27	To be assigned	Internal	SC 31/WG 6
ISO TC 204	To be assigned	Internal	SC 31/WG 6
NFC Forum	Mr. Mikael Hjalmarson	C	SC 31/WG 6
ITU-T	Mr. Jun Seob Lee & Mr. You Sung Kang	C	SC 31/WG 6
ETSI	Mr. Josef Preishuber-Pflügl	C	SC 31/WG 6

- Unanimous

Call for Membership SC 31/WG 6

Resolution 6: The SC 31 Secretariat is instructed to issue a 90-day call for participation in SC 31/WG 6.

- Unanimous

ISO/IEEE PSDO Agreement

Resolution 7: SC 31/WG 6, noting the ISO/IEEE Partnership Standards Development Organization (PSDO) Agreement, dated 2007-12-19, instructs JTC 1/SC 31 to request that JTC 1, ITTF and the ISO Central Secretariat, in cooperation with IEEE, include JTC 1/SC 31 as one of the SCs within the ISO/IEEE PSDO Agreement. The ISO/IEC JTC 1/SC 31 Secretariat is requested to forward this resolution to the JTC 1 Secretariat for endorsement and approval at their Plenary Meeting in November 2008.

- Unanimous

Call for Project Editor(s)

Resolution 8: SC 31/WG 1 reports to SC 31 the vacancy of the project editor for ISO/IEC 18004.1 (QR Code 2005) and requests SC 31 to issue a 60-day call for a project editor. Any resources who answer the call for a project editor will communicate their interest to the SC 31 Secretariat and SC 31 will then forward the request to SC 31/WG 1.

- Unanimous

Fast Track of IEEE Standards under the ISO/IEEE PSDO Agreement

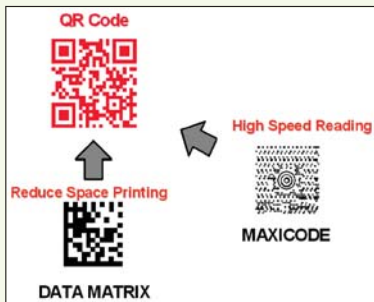
Resolution 9: SC 31 has reviewed the action items regarding the Fast Track of IEEE Standards, IEEE 1451.0, 1451.1, 1451.2, and 1451.5. SC 31/WG 6 respectfully withdraws the Fast Track request of these standards due to the pending approval of Resolution 6 by JTC 1. SC 31 recommends that IEEE submit the suite of standards to a National Body to submit to ISO/IEC for Fast Track processing.

- Unanimous

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QR Code

QR Code is the 2D symbology developed by DENSO CORPORATION in 1994.



It is an excellent code integrating every merit of 2D symbology; high data capacity of PDF 417, reduce space printing of Data Matrix, high speed reading of MaxiCode.

Information volume

QR Code can represent the information volume for approximately 100 times of a linear bar code symbol. One

example of representing high-volume information is the use the QR Code as a high-volume data file. Specific examples are encoding the descriptions on ID cards or driving licences, or encoding the contents of delivery documents, invoices, receipts or contracts

Applications of QR Code

Recently, requests are increasing for traceability to guarantee safety for the target product. For traceability of components and products, the target components or products need to have identification codes attached to them. Extremely small components and products have limited space for attaching identification codes. If labels with identification codes are used, they may fall off over time or due to environmental conditions.

Application in Singapore <Passenger management>

Shingapore Cruse
To Batam
Secound generation
Mr. Ryogo Maruyama
From Japan
Xauz00000192

Data Volume:
300 char.
Symbol Size :
20 mm sq.
Data Contents:
name,
passport number,
etc.

System Outline

- QR Codes are printed on the tickets for a casino cruiser.
- The ticket covers passport No., address, and name.
- The printed QR code is used as a certification, when a passenger receives his passport deposited at his embarkment.

Merit of Using QR Code

- Deposited passports can be correctly returned.
- Used as a ticket for food and drink.

Traditionally, small products such as cosmetics, medical goods, medical materials, stationery, and precious metals did not have enough space for marking linear bar code symbols, and therefore it was difficult to inspect the goods or to implement the POS system. This had led the development of micro QR code which handles small volume data and prioritises data efficiency.

The QR Code Singapore Standard

This Singapore Standard is currently being developed by the Automatic Data Capture Technical Committee (ADCTC) under the purview of the Information Technology Standards Committee, with GS1 Singapore as the secretariat of ADCTC under ITSC.

This proposed Singapore Standard will be a modified adoption of ISO/IEC 18004: "Information Technology – Automatic Identification and Data Capture Techniques – QR Code 2005 Bar Code Symbology Specification (Second Edition 2006 September 1)".

ISO/IEC 18004: 2006 was adopted to guide potential users of QR Code in Singapore on how to implement QR Code Standard in their businesses.

This Singapore Standard will define the requirements for the symbology known as QR Code 2005. It specifies the QR Code 2005 symbology characteristics, data character encoding methods, symbol formats, dimensional characteristics, error correction rules, reference decoding algorithm, production quality requirements, and user-selectable application parameters, and lists in an informative annex

the features of QR Code Model 1 symbols which differ from QR Code 2005.

To guide potential users of QR Code in Singapore on the implementation of QR Code Standard in their businesses, additional informative national annexes is being prepared on the utilising of QR Code and micro QR Code and examples of applications of QR Code have also been included.

Applications of the QR Code in the healthcare sector are included because this sector has adopted the QR Code in patient identification and medicine administration traceability using QR Code printed on patients' wrist brands. Applications of the QR code using mobile phones are also featured in due to the potential for such an application.

QR Code used for patient identification in Japan, Hong Kong and Singapore

Data Contents:
Patient Name
Date of Birth
Patient No. etc.

System Outline

- Hospitals in Japan, Hong Kong and Singapore have adopted QR code printed on patient wrist band to identify the patients.
- Example of information encoded on QR code are patient's name, identification number, date of birth, sex, ward and bed numbers.

Merit of Using QR Code

- Ensure that the "right patient" get the "right medicine" or "right treatment" at the "right time".

The proposed Singapore Standard is to be used in conjunction with SS 362 : Part 1 : 2004 and SS 362 : Part 2 : 2004, the specification for EAN Bar Coding System. The major benefit for the users of the EAN Bar Coding system is the availability of uniquely defined identification codes for use in their trading transactions. This is particularly useful in open environments.

The standard serves two major purposes:

- Infrastructure for QR Code system management;
- Basis for QR Code applications.

During the past years, there were major global developments in the adoption of QR Codes including the following:

- Micro QR Code has been proposed to ISO/IEC JTC1SC31 separately from QR Code. It had been approved during the deliberation stage for SC31 to be added to the QR Code standard (ISO/IEC 18004), and in 2006, ISO/IEC 18004 was revised to a standard containing that for Micro.
- Widespread adoption of QR code by the manufacturing and logistics sectors in China, Japan and Korea.
- Adoption of QR code for patient identification by hospitals in Japan, Korea, Hong Kong and two hospitals in Singapore, the National University Hospital and the Tan Tock Seng Hospital.
- Use of QR Code for food product traceability in Japan and Korea.
- The airlines' implementation of 2D Code by 2010 as mandated by the International Air Transport Association (IATA) which includes the use of QR Code on mobile phones for paperless passenger boarding passes.
- Trends to use QR Codes / Micro QR Codes for various applications in other industries.

The standard will also enable solution providers to have a better understanding of the QR Code so that they can develop various innovative solutions such as those for the healthcare, logistics, manufacturing and telecommunications sectors.

For more information, please contact Andy Siow at sanc1@gs1.org.sg

Certificate in Cold Chain Management Training Course



Participants from the 5th batch of the Certificate in Cold Chain Management Training Course held during 9 - 12 September 2008.

The Singapore Cold Chain Centre has introduced the Certificate in Cold Chain Management Training Course for the Cold Chain Industry. The Cold Chain Management involves Automatic Data Capture technologies of bar coding and RFID temperature tags. The training programme has been established to train a pool of skilled workforce with good knowledge of cold chain management to ensure the quality of the products including milk & dairy products and chilled pork throughout the entire supply chain, and to contribute to the development of Singapore as a Cold Chain Hub of the region. It is coordinated and managed by GS1 Singapore which is the secretariat of the Singapore Cold Chain Centre.

The training course materials are based on Singapore Standard CP95 Cold Chain Management of Milk & Dairy Products and Technical Reference TR20 Cold Chain Management of Chilled Pork.

This course content was developed by Singapore Cold Chain Centre together with Agri-Food and Veterinary Authority of Singapore (AVA), Singapore Workforce Development Agency (WDA) and delivered by Singapore Polytechnic (School of Chemical & Life Science, Food Department) with funding assistance from WDA and National Trades Union Congress (NTUC).

The training course covered nine modules. It includes the regulatory issues, the integrated cold chain management, processing plant, transport requirements by land, sea and air, retail, consumers' role and food safety.

Five batches of Cold Chain Management training course had been successfully conducted. These courses were attended by trainees



Sample of the Certificate of Completion awarded to students who have passed the Certificate in Cold Chain Management Training Course

from a wide range of industries including manufacturing, retailing, logistics companies, shipping companies, airlines and cold chain equipment suppliers.

The next batch of the Certificate in Cold Chain Management Training Course for Milk & Dairy Products and Chilled Pork will be held from 10-13 March 2009.

To sign up for the next batch of training course or to find out more details regarding the training programme, call the Singapore Cold Chain Centre secretariat at 68263082 or email : sanc@gs1.or.sg.

Project Extensions

Resolution 10: SC 31 approves the SC 31 Working Group requests for approval of a one-year extension for the following projects in order to have time to consider and accommodate the contribution from the market and requests the JTC 1 Secretariat to approve these project extensions:

1. ISO/IEC 18046-1, "Information technology -- Automatic identification and data capture techniques -- Radio Frequency Identification (RFID) device performance test methods Part 1: Test methods for system performance"
 2. ISO/IEC 18046-2, "Information technology -- Automatic identification and data capture techniques -- Radio Frequency Identification (RFID) device performance test methods Part 2: Test methods for interrogator performance"
 3. ISO/IEC 18047-7, "Information technology -- Automatic identification and data capture techniques -- Radio Frequency Identification (RFID) device performance test methods Part 7: Test methods for active air interface communications at 433Mhz"
 4. ISO/IEC 24791-2, "Information technology -- Automatic Identification and Data Capture Techniques -- Radio-Frequency Identification (RFID) for Item Management -- System Management Protocol -- Part 2: Data management"
 5. ISO/IEC 24791-3, "Information technology -- Automatic Identification and Data Capture Techniques -- Radio-Frequency Identification (RFID) for Item Management -- System Management Protocol -- Part 3: Device management"
 6. ISO/IEC 24791-5, "Information technology -- Automatic Identification and Data Capture Techniques -- Radio-Frequency Identification (RFID) for Item Management -- System Management Protocol -- Part 5: Device interface"
- Unanimous

Call for Secretariats

Resolution 11: SC 31/WG 3 reports to SC 31 the vacancy of Secretariats for SC 31/WG 3 and SC 31/WG 3/SG 1. WG 3 requests SC 31 to issue a 90-day call for a WG 3 Secretariat. Any resources who answer the call for Secretariat will communicate their interest to the SC 31 Secretariat and SC 31 will then forward the request to SC 31/WG 3.

- Unanimous

Business Plan Ad Hoc

Resolution 12: SC 31 appoints Mr. Dan Mullen (AIM) (Chair), Mr. Bertus Pretorius (South Africa), Mr. Steve Halliday (US), Mr. Ken Laing (Australia), Mr. Mikael Hjalmarson (Sweden) and all the WG Conveners to serve on the Business Plan Ad Hoc for the next plenary period. This group is requested to present a revised Business Plan prior to the next plenary meeting of SC 31. The revised draft will be posted 60 days prior to the 2009 Plenary meeting.

- Unanimous

Acceptance of Business Plan

Resolution 13: SC 31 accepts the changes to the Business Plan contained in SC031-N-2525, prepared by the Business Plan Ad Hoc. SC 31 requests that the SC 31 Secretariat forward this

Business Plan to the JTC 1 Secretariat for the JTC 1 Plenary in November 2008.

- Unanimous

European Patent Office (EPO) Request

Resolution 14: Given, ISO's request for comments on the European Patent Office (EPO) request for access to SC 31 working documents to carry out patent searches on JTC 1 documents; the SC 31 Secretariat is instructed to initiate a poll to the SC 31 membership to provide comments on ISO's request. The SC 31 Secretariat is instructed to forward the comments, contributed by SC 31, to the ISO Central Secretariat and to JTC 1. The poll will close within 90-days of the Plenary Meeting.

- Unanimous

ITU-T

Resolution 15: SC 31 noting the activities within ITU-T and requests the SC 31 Secretariat to contact ITU-T and inform them of the activities within SC 31 and invite them to active participation within the existing liaisons.

- Unanimous

Approved RS Originator Organization (ARO) - EPCglobal, Inc.

Resolution 16: In accordance with the JTC 1 directive: "SC 31 is instructed to review and respond to the comments submitted on the EPCglobal, Inc. request prior to any further action being taken by JTC 1." SC 31 resolves to accept the completed comments addressed in SC031-N-2545 and forward to JTC 1 for further processing.

- Unanimous

Approved RS Originator Organization (ARO) - GS1

Resolution 17: In accordance with the JTC 1 directive: "SC 31 is instructed to review and respond to the comments submitted on the GS1 request prior to any further action being taken by JTC 1." SC 31 resolves to accept the completed comments addressed in SC031-N-2546 and forward to JTC 1 for further processing.

- Unanimous

Withdraw of International Standards

Resolution 18: SC 31/WG 4 requests SC 31 to withdraw Work Item ISO/IEC 24791-4, "Information technology -- Automatic Identification and Data Capture Techniques -- Radio-Frequency Identification (RFID) for Item Management -- System Management Protocol -- Part 4: Application interface" from its programme of work. It is the opinion of SC 31/WG 4 that the marketplace is not yet ready for Work Item ISO/IEC 24791-4. SC 31 resolves to accept the request from SC 31/WG 4.

- Unanimous

Next Meeting

Resolution 19: JTC 1/SC 31 accepts the offer with pleasure of the National Body of Australia to host our next meeting in Sydney, Australia during the week of the 8th June, 2009.

- Unanimous

New Registered Users

GS1 Singapore extends a warm welcome to the following new registered users

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Tel: 62231220 Fax: 62233439

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Tel: 64585574 Fax: 64581058

AUGMENT MARKETING PTE LTD

Tel: 68639618 Fax: 68632023

BANLI TRADING

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CHENG YEW HENG CANDY FACTORY PTE LTD

Tel: 62663530 Fax: 62662821

CLEARLAB INTERNATIONAL PTE LTD

Tel: 67491090 Fax: 62848534

GALLAHER SINGAPORE PTE LIMITED

Tel: 68275659 Fax: 62952567

GRAND AM FASHION ENTERPRISE

Tel: 62504100 Fax: 62561114

HEXON MEDIA PTE LTD

Tel: 67433492 Fax: 68460743

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INTERO ENTERPRISE PTE LTD

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KACHI JAPAN (INTERNATIONAL) PTE LTD

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KILLINEY INTERNATIONAL PTE LTD

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KRISTAL RJ PTE LTD

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LEVI STRAUSS ASIA PACIFIC DIVISION PTE LTD

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RFID/EPCglobal Asia Adoption Fo



At the RFID/EPCglobal Asia Adoption Forum 2008 - Taipei are from left: Mr Johnson Hu, Director of GS1 Taiwan, Ms Nancy Tai, President of Yuen Foong Yu Group, Yeon Technologies Co. Ltd, Mr Nicholas Fergusson, Associate Director of EPCglobal Inc, Mr Jamie Chang, Division Director of GS1 Taiwan, Mr Ian Robertson, Global Industry Development Director and Asia Regional Director of EPCglobal Inc and Mr Chris Adcock, President of EPCglobal Inc.



Mr Ian Robertson showing participants a sample of the pallet level A6 label printed with RFID tag.

This Forum was organized by GS1 Taiwan on 14th and 15th July 2008 and held at the NTUH International Conference Center, Taipei. This event was jointly declared opened by the followings:

- Mr Chris Adcock, the President of EPCglobal
- Dr Woody Du, Director of Department of IT Ministry of Economic Affairs
- Mr Lai-Ho Huang, Deputy Director General, Bureau of Standards, Metrology and Inspection, Ministry of Economic Affairs
- Mr Lin Hui, the CEO of GS1 Taiwan

There are a total of four concurrent tracks at this two days very successful event. More than 800 delegates registered and actively participated in the respective tracks.

The track on EPCglobal Asia Adoption Forum was chaired by Mr. Ian Robertson, the Asia Director of EPCglobal Inc. The EPCglobal Asia Adoption Forum was attended by 53 participants.

The EPCglobal Asia Adoption Forum began with a welcome opening statement from Mr Chris Adcock, the President of EPCglobal Inc., and followed by a series of presentations. Highlights of the presentation were:

- 1 Mr Ian Robertson made a presentation on "Asia Pacific EPCglobal Adoption Support" – The new support program from EPCglobal team to local GS1 Member Organisations is structured with focus on training. This is to address the various skills required for the Implementation of EPCglobal/RFID system. The training aspect includes: business model, regulatory requirements of each country in Asia, industry applications and the technical aspects of EPCglobal standards. The trainings were scheduled to commence on July 16~18 in Bangkok and July 28/29 in Hong Kong after this Forum.
- 2 Mr Naotaka Ishizawa, Co-Chair of EPCglobal Transport and Logistics (TLS) Working Group and Mr. Murphy Cheung presented on the topic of EPCglobal TLS Industrial Action Group (IAG): Overview and update on the TLS global pilot project. The project goal is to develop a total industry solution. The project involved barcode, passive tag, active tag, and sensor network. EPCIS served as the information exchange platform. The TLS Phase I pilot involved goods from Hong Kong to Japan in 2007. The TLS Phase II Pilot involved goods shipped via air cargo from Shanghai to Los Angeles. The TLS Phase III pilot is still in the planning stage involving shipments of consumer electronic goods from a warehouse in Japan to Amsterdam Port of Netherlands by ocean & inland transport. The EPCIS will be used and will also involve in custom clearance. For this TLS Phase III pilot more companies are being identified to participate in this project.
- 3 Country Update: The countries' report on EPCglobal adoption

update was held after morning Tea break with the following presentations:

- 3.1 Hong Kong country update was presented by Ms Anna Lin, CEO of GS1 Hong Kong – covering Membership status update, launch of EZ-Track, Hong Kong first RFID Award to be held on 10th October 2008, SCIC 2.0 – to be launched in Oct of 2008, Sam's Club EPCglobal Adoption Asia roll out, PRC RFID Industry Base Development.
- 3.2 Korea country update was presented by Mr Yo-Han Jeon, Chief researcher RFID Team of GS1 Korea – covering current membership status, key activities to promote use of RFID and adoption of EPC, different pilot projects in different sectors: Logistic, Retailing, Apparel, Healthcare and different promotion activities in Korea.
- 3.3 Japan Country update was presented by Mr Koji Asano, Senior Researcher of GS1 Japan – covering current membership, marketing material to promote EPCglobal, translation of EPC standard into Japanese language to encourage wider spread on the knowledge of EPCglobal standard and the hosting of GS1 Healthcare meeting on October 28th~30th 2008 in Tokyo by GS1 Japan
- 3.4 Thailand Country update was presented by Mr Piyaphan Panah – covering current membership breakdown and current RFID project plans in Thailand.
- 4 Consumer Electronic IAG Update was presented by Mr Tatsuya Yoshimura, Co-Chair of Consumer Electronic Industry Action Group (CEIAG) from Sony Corporation: Main objective is to deploy EPCglobal tags on Electronic products throughout its product life-cycle. Sony Corporation is leading CEIAG because Sony believes that the use of RFID will enhance the customer satisfaction throughout the product life-cycle including parties who are within the product life-cycle such as distributor, logistic service provider etc.
- 5 The presentation on Apparel, Footwear and Fashion (AFF) implementation from Asia to Europe was presented by Mr Ian Robertson on behalf of Kauffhoff: a subsidiary company of Metro group. Presentation covering: use of the RFID tag and EPCglobal standards on different location, items, products to enhance customer satisfaction plus cross-selling to customers to increase store efficiency. The project started in September 2007 and currently undergoing the project analysis. Phase 3 will expand into more assortments and more stores.
- 6 The Supply Chain Innovation Centre (SCIC) Hong Kong Update was presented by Mr James Lee, the Marketing Manager of Hong Kong Science and Technology Parks Corporation. The presentation covering: introduction of Hong Kong Science & Technology Park (HKSTP), SCIC 1.0 is inside of HKSTP. SCIC 2.0 will be at phase 2 of HKSTP in mid October. Also a separate presentation from Ms Christa Suc, EPCglobal Manager of GS1 Hong Kong illustrating the analysis of people who visited the SCIC.
- 7 Bridge Program Update – RFID standard in action was presented by Mr Ian Robertson. Building Radio frequency IDentification for Global Environment – BRIDGE. The presentation included an introduction on what is the BRIDGE program, who are involved, what work has been done, Hardware R&D, etc. It involved 7 GS1

Forum 2008 – Taipei

MOs, 5 Labs, 7 End users and 11 solution providers with a total budget of 13.5 million Euro and EU funded 7.5 million Euro for the project. The project covered different industry for different business requirement and proven that RFID can fulfill different needs of business across different industry sectors.

- 8 EPCglobal – Certification & Testing was presented by Mr Nicholas Fergusson. The presentation covered general update of the certification status: Hardware Certification: 20 vendors on 17 readers/reader modules, 11 integrated circuit, 6 Readers (Interop), 10 Tag, 6 Printers. 3 ARTC test center, 10 Accredited Test Centers, Software: 27 vendors on 40 products. Also covers EPCIS and EPCIS validation portal. The presentation showed that EPCIS data can be uploaded for validations without someone actually access the EPCIS. Full launch date for this portal was scheduled on 12th October 2008.



Forum participants listen attentively to Mr Ian Robertson's presentation on the implementation of EPCglobal/RFID system.

9 Q & A Session & AAP Next Steps

- 9.1 Q1 : There is a new board member of EPCglobal from China, what differences do you think this is going to do for the Asia Pacific region?
 A : By Mr Chris Adcock, The EPCglobal Board consists of around 20 people from 10 nationalities, 7 distinct industries. 4 people represent Asia Pacific region. I believe there is a good representation and interest of this region on the board.
- 9.2 Q2 : Is it true that Gen 2 does not work on fresh food?
 A : By Mr Ian Robertson, I think it's a common mistake lead by wrong perception. If using the tag in a right way, it should work.
- 9.3 Q3 : What is the future for certification? How would EPCglobal promote the use the certification?
 A : By Mr Nicholas Fergusson, it's very essential for a company which wants to adopt EPCglobal to select certified EPCglobal/RFID products for implementation to ensure the smooth adoption. Through certifications participated by key companies, can help us to drive adoptions of EPCglobal.
- 9.4 Q4 : Will EZ-Track be available for another country?
 A : By Ms Anna Lin (GS1 HK), depends on what needs to be done/requirement. We are discussing with other MO within the region.
- 9.5 Q5 : How can you compare the current status of Asia-Pacific vs. other parts of the world?
 A : By Mr Ian Robertson, has Asia RFID development catch up with rest of world? Not yet, but it will change very soon due to the 65% of manufacturer are in Asia. Asia is behind to-day, but not for very long!

Ms Anna Lin (GS1HK) , Take barcode development as example, it was retailers who asked suppliers to have barcode on the product in order to be scanned at



Mr Wang and Mr Hsu, Managers of Yuen Foong Yu Group, Yeon Technologies Co. Ltd demonstrating to participants cartons tagged with EPCglobal tag and encoded with EPC number passing through the fixed EPC reader before shipment.

POS, but then manufacturers start to use barcode for inventory control and other things. For EPCglobal the best Application is traceability. Track and trace with EPCIS would enable many applications by using RFID in many industries for many fields.

Mr Ian Robertson: To add on Anna's comment, the track and trace can also improve the visibility of the supply chain and it certainly is helping the supply chain. Nancy (Yeon Tech): right now we see most of the RFID movement is from retailers pushing their suppliers to tag product so it will have benefits for distribution. If EPCglobal can somehow demonstrate/ROI tool for manufacturers to understand the use of the new technology, I believe the tagging would be starting at source and along the chain everyone can benefit from it.

9.6 AAP Next Step: How often should AAP forum held?

After a general discussion, it was decided that AAP should be a two days activities in future. Besides regular updates, there shall be some practical and used cases from different sectors and industries. This would enhance the function of this meeting.

Conclusion

The forum concluded that future meetings shall be organized as follows:

1. Duration : The forum shall be 2 full days instead of 1 day.
2. Agenda : The agenda to be developed as follows:
 - Seek subjects for updates from AAP members before the meeting (this was actually done)
 - Cover subjects that members have a common interest in
 - Help members find partners for the implementations
 - More country updates
 - Show videos and cover operations as well. They don't have to be fancy videos
 - Use Flash animations too
3. Scope : The scope of future AAP shall include the following:
 - Include other industries (not just FMCG)
 - Show which industries are active in which countries
 - Gen2 is a great idea but show progress in other (non UHF) bands as well
 - Show the Big Picture
 - What is the future outlook
 - Show numbers of implementations
4. Implementation: The main focus will be implementation as below:
 - Include more specifics on implementations
 - Hold practical sessions on EPCglobal/RFID
 - Share key learning from members implementations
 - Share experiences of what went wrong and what went well
 - Share experiences of starting projects, issues to overcome and how they were overcome

Meeting Adjourn at 4:55 PM on July 14th 2008.



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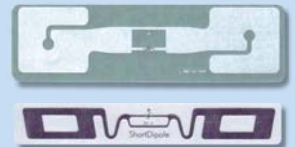
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