ISO/IEC JTC1 SC31 Ad Hoc (WG6) Seoul

Schedule: 2007.10.29～11.01
2007.10.29 Chubu ⇒Seoul (Incheon)
2007.10.30 09:00 - 16:30 Attending SC31 Ad Hoc (WG6)
2007.10.31 09:00 - 16:30 Attending SC31 Ad Hoc (WG6)
2007.11.01 09:00 - 15:00 Meeting with Customers (KOBE, NIDA)
2007.11.01 Seoul (Incheon) ⇒Chubu

2007 年 10 月 30 日～31 日の日程で、SC31 の MIIM 会議がソウルで行われた。日本からは経済産業省が出席しプレゼンテーションを行った。電話業界からは KDDI が出席し日本の状況を説明した。この会議は、MIIM に関する SC31 WG6 の設立を目的として行われた。
MIIM：Mobile Item Identification and Management


Gyeongbokgung
景福宮
N Seoul
Tour
Seoul
서울특별시
Seoul
Chung-Ang University
Renaissance
Seoul
Hotel
Korea
Technology
Center


RENAISSANCE
SEOUL HOTEL


Renaissance
Seoul Hotel
RENAISSANCE
SEOUL HOTEL

KATS Korean Agency for Technology and Standards
Ministry of Commerce, Industry & Energy
Republic of Korea

< Attachment 1>

ISO/IEC JTC1/SC31 Ad Hoc SEOUL Meeting

October 30-31, 2007, Renaissance Seoul Hotel

Registration & Hotel Reservation Form

Please complete this form and send it by either E-mail or Fax to:

Eunsook Kim(Ms.) E-mail: eunsook@kats.go.kr Facsimile: + 82 2 507 1924

Please reply by 30th September 2007.

Last Name:	Shibata	First name:	Akira
Organization:	Denso Wave Incorporated		
Address:	Mail stop 1370, 1-1 Syowa-cho,		
City:	Kariya-shi, Aichi-ken	County:	Japan
Tel::	+81-566-61-3824	Fax:	+81-566-25-4741
E-mail address:	akira.shibata@denso-wave.co.jp		
Country of Delegation:	**Japan**	Date of Arrival:	29th October
I will attend: (Please check)	30 Oct(Y), 31 Oct(Y)	Date of Departure:	1st November
Accompanied by	none		
Special requirements	none		

In case of staying in Renaissance Seoul Hotel, complete the following form for your reservation and send me by preferable above e-mail address: eunsook@kats.go.kr

Room type	Single room (Y), Twin room ( )
Check in/out date	Check in date : 29th Oct. 2007 / Check out date 1st Nov. 2007
special requirements:	Smoking room please

one-night rate : **160,000Won** (approximately **$173**) **excluding** service charge(about 11%)

Address : 2, Joongang-dong, Gwachon Gyunggi-do, Rep.of Korea
Telephone : + 82 2 509 7262
Telefax : + 82 2 507 1924
E-mail : jungbo@kats.go.kr
Homepage : http://www.kats.go.kr

RENAISSANCE
SEOUL HOTEL

RENAISSANCE
SEOUL HOTEL
676 Yeoksam-dong Gangnam-gu
Seoul 135-915 Korea

Mobile ORM and RFID for Product Safety

ISO/IEC JTC1 SC31
Mobile Item Identification and Management
Seoul, Korea Oct. 2007

Yoshiki Endo
Ministry of Economy, Trade and Industry

1. Current Issues regarding Product Safety

- Consumer rarely register their information

Circumstances of User Registration (Example)
- Refrigerator (2%)
- Air Conditioner (1%)
- Washing Machine (3%)
- Digital TV (10 – 15%)

- Difficulty of Recall (caused by low-rate registration)

Circumstances of Recall rate (Example)
- TV (44.1%)
- Washing Machine (28.3%)

Manufacturers cannot communicate easily with consumers when consumer electronics caused an accident and needed to repair

1

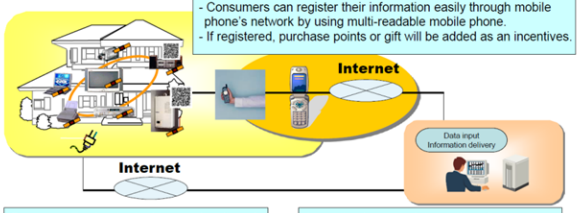
2. Overview about Pilot Project for Product Safety

- Information sharing system will be needed to address some social issues including the product safety.
- Specifically, the pilot project will be conducted to contribute product safety by reading ORM and registering user information through the mobile phone's network.
- As manufacturers' action, it will be expected to grasp products' location and to provide the recall information for their product safety.

2

3. Utilizing QR code and RFID for Product Safety

- QR code or RFID tags will be attached to the product or post card for user registration.
- Consumers can register their information easily through mobile phone's network by using multi-readable mobile phone.
- If registered, purchase points or gift will be added as an incentives.



Consumer Electronics that have a function of connectable to internet will be available to distribute the update software, as well as a remote maintenance (using PLC).

According to products' condition (failure, deterioration, software bug), manufacturers can provide an appropriate information to consumers.

3

KATS

Korean Agency for Technology and Standards
Ministry of Commerce, Industry & Energy
Republic of Korea

Logistic Information

1st ISO/IEC JTC1/SC31 Ad Hoc Meeting for Mobile Item Management

October 30 - 31, 2007

Seoul, Korea

*Hosted by **KATS***

(Korean Agency for Technology and Standards)

KATS, the national body of Korea, welcomes the JTC1/SC31 Ad Hoc Meeting in Seoul, Korea.

MEETING Schedule

30 October 2007	**09:00h to 12:00h**	**MIIM Ad Hoc – Full session**
	13:30h to 16:30h	**MIIM Ad Hoc – Full session**
31 October 2007	**09:00h to 12:00h**	**MIIM Ad Hoc – Full session**
	13:30h to 16:30h	**MIIM Ad Hoc – Full session**

MEETING PLACE

Renaissance Seoul Hotel
#676 Yeoksam-dong Gangnam-gu, Seoul, Korea 134-915
Phone: +82 2 555 0501, Fax: +82 2 553 8118
http://www.renaissancehotels.com/selrn

MEETING HOST AND CONTACT POINT

The meeting is hosted by Korean Agency for Technology and Standards (KATS) which is the Korean national body of ISO/IEC.

Meeting Coordinator
Ms. Eunsook Kim, KATS
Phone: +82 2 509 7264
Fax: +82 2 507 1924
E-mail: **eunsook@kats.go.kr**

AGENDA

1. **Opening of the Meeting (09:00 h)**.....Mr. Craig K. Harmon

2. **Welcome by the Host**.....**Representative from Korea**

3. **Roll Call of Participants** .....Mr. Se Won Oh

   3.1. Apologies: Rick Schuessler

4. **Remarks by Chairman**.....Mr. Craig K. Harmon

   4.1. Comments from ISO/IEC JTC 1/SC 31 .....Mr. Craig K. Harmon
   4.1.1. New SC 31 Secretariat – Ray Delnicki

   4.2. Appointment of Drafting Committee .....Mr. Craig K. Harmon
   Mr. Sprague Ackley, Mr. Josef Preishuber-pfluegl, Mr. Mikael Hjalmarson

5. **Adoption of Agenda**.....MIIMn0038 - Mr. Craig K. Harmon

6. **Review of Terms of Reference** .....31n2305 and MIIMn0033 (j1n8804 – Resolution 19)

7. **Presentations from member bodies** .....

   7.1. Korean view on Mobile RFID — MIIMn0026 – Mr.Yong-Woon Kim
   7.2. Japan view on Mobile ORM — MIIMn0031 & MIIMn0032 – Mr. Hiroyuki Fukuoka (KDDI)
   7.3. Sweden view on Mobile RFID — MIIMn0029 – Mr. Mikael Hjalmarson

8. **Provisional areas of work (prospects, trends, and analysis on MIIM, mobile RFID service cases, mobile ORM service cases, pilot projects and technology analysis.)** .....

   8.1. Mobile RFID Trial Services - SK Telecom — MIIMn0042
   8.2. Contributions
   - 8.2.1. "Mobile RFID in Europe" by Mr. Josef Preishuber-pfluegl, CISC [20 mins expected] — MIIMn0036
   - 8.2.2. Air Interface protocol for Mobile RFID [30 mins expected] Mr. Chan-Won Park – MIIMn0012 & MIIMn0013
   - 8.2.3. Data Interface between phone and interrogator for Mobile RFID [10 mins expected] Mr. Seunghyup Ryoo — MIIMn0014 & MIIMn0043
   - 8.2.4. Mobile RFID application interface for Mobile RFID services [10 mins expected] Ms. Marie Kim — MIIMn0015 & MIIMn0044
   - 8.2.5. RFID ODS(object directory service) for Mobile RFID services [10 mins expected] Mr. Seung Jai Yi — MIIMn0016
   - 8.2.6. ID scheme and encoding format for Mobile RFID services [10 mins expected] Mr. Jun Seob Lee — MIIMn0017
   - 8.2.7. Multiple ID resolution service for Mobile RFID services [10 mins expected] Mr. Jun Seob Lee — MIIMn0018
   - 8.2.8. Service broker for Mobile RFID services [10 mins expected] Mr. Sangkeun Yoo — MIIMn0019

Overview of ORM for Mobile in Japan

JTC1/SC31 Japan

&

Corporate Marketing Division
NTT DoCoMo, Inc.

KDDI R&D Labs. Inc.
KDDI Corporation

Product & Service Development Div.
SoftBank Mobile Corp.

Outline

- ORM Technology Review
- ORM-Capable Mobile Handsets in Japan
- ORM Applications Overview
- Popular ORM Applications & Services in Japan
- Summary

ORM Technology Review : Barcode and 2D Code

■ Barcode

UPC, EAN, JAN, and many other types and standards

■ Typical 2D Codes and their features

		QR Code	PDF417	DataMatrix	Maxi Code
Developer(country)		DENSO(Japan)	Symbol Technologies (USA)	RVSI Acuity CiMatrix (USA)	UPS (USA)
Type		Matrix	Stacked Bar Code	Matrix	Matrix
Data capacity	Numeric	7,089	2,710	3,116	138
	Alphanumeric	4,296	1,850	2,355	93
	Binary	2,953	1,018	1,556	
	Kanji	1,817	554	778	
Main features		Large capacity, small printout size High speed scan	Large capacity	Small printout size	High speed scan
Main usages		All categories	OA	FA	Logistics
Standardization		AIM International JIS ISO	AIM International ISO	AIM International ISO	AIM International ISO

Source: DENSO WAVE INCORPORATED

What is QR Code?

QR Code is a kind of 2-D (two-dimensional) symbology developed by Denso Wave and released in 1994 with the primary aim of being symbol that is "easily interpreted by scanner equipment."

- **Approved as AIMI Standard in '97 and ISO/IEC Standard in '00.**
- **Adapted as an industry-wide standard code by AIAG, JAMA and JTA.**
- **High readability by a reader is pursued.**
- **Advantages of all 2D symbols are integrated in the QR code.**
  - ◆ Large data capacity
  - ◆ High density
  - ◆ High-speed reading
  - ◆ Omni-directional reading
  - ◆ Error correction capability
- **Special characters (*Kanji*, etc.) besides alphanumeric are supported.**

Source: DENSO WAVE INCORPORATED

Designing The Future KDDI

Japanese Cases and Trials for Mobile RFID

Technology Development Center
KDDI R&D Laboratories Inc.

Outline

KDDI R&D LABS

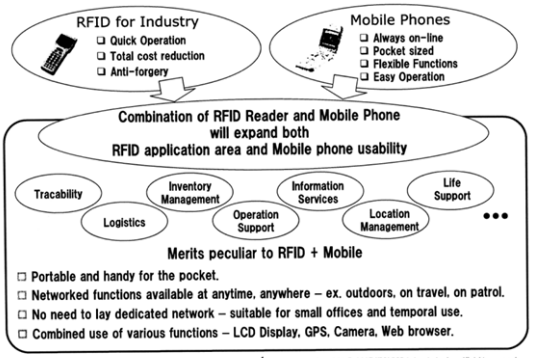
- Overview of "RFID + Mobile"
- Mobile RFID Prototypes and Products
  ... Development Status in KDDI
- Cases for Business and Industry Solutions
- Trials for Consumers Services
- Issues for Popularization of Mobile RFID

Designing The Future KDDI

Overview of "RFID + Mobile"

Why RFID + Mobile ?

KDDI R&D LABS



Merits peculiar to RFID + Mobile

- ☐ Portable and handy for the pocket.
- ☐ Networked functions available at anytime, anywhere – ex. outdoors, on travel, on patrol.
- ☐ No need to lay dedicated network – suitable for small offices and temporal use.
- ☐ Combined use of various functions – LCD Display, GPS, Camera, Web browser.

QuickTime™ and a TIFF (Uncompressed) decompressor are needed to see this picture.

Resolutions adopted at the 1st Meeting of the ISO/IEC JTC 1/SC 31 MIIM Ad Hoc 30-31 October 2007 in Seoul, Korea

RESOLUTION 1 – Terms of Reference for future work on MIIM

The MIIM Ad Hoc recommends to JTC 1/SC 31 the following Terms of Reference for future work within JTC 1/SC 31 for Mobile Item Identification and Management:

Scope

The work on Mobile item identification and management should be conducted within a new Working Group of JTC 1/SC 31, entitled ISO/IEC JTC 1/SC 31/WG 6 – *Mobile Item Identification and Management (MIIM).*

The scope of SC 31/WG 6 should be "Standardization of automatic identification and data collection techniques that are anticipated to be connected to wired or wireless networks. Excluded is the work of JTC 1/SC 31/WG 1, JTC 1/SC 31/WG 4, JTC 1/SC 31/WG 5, and JTC 1/SC 6."

Liaisons

SC 31/WG 6 seeks liaisons with

- JTC 1/SC 31/WG 1
- JTC 1/SC 31/WG 2
- JTC 1/SC 31/WG 3
- JTC 1/SC 31/WG 4
- JTC 1/SC 31/WG 5
- JTC 1/SC 31/WG 3/SG 1
- JTC 1/SC 6
- JTC 1/SC 27
- ITU-T JCA-NID
- ITU-T SG 16
- ITU-T SG 17
- ITU-R
- IEEE
- IETF
- ETSI

Convener

The JTC 1/SC 31 Ad Hoc on MIIM recommends Mr. Craig K. Harmon as convener of SC 31/WG 6

Secretary

The JTC 1/SC 31 Ad Hoc on MIIM recommends Mr. Se Won Oh_as secretary of SC 31/WG 6

— Unanimous

Convener, JTC 1/SC 31 Ad Hoc – MIIM, Q.E.D. Systems, 3963 Highlands Lane, SE, Cedar Rapids, IA 52403,-2140
(V): +1 319/364-0212 • (M): +1 319/533-8092 • (E): craig.harmon@qed.org

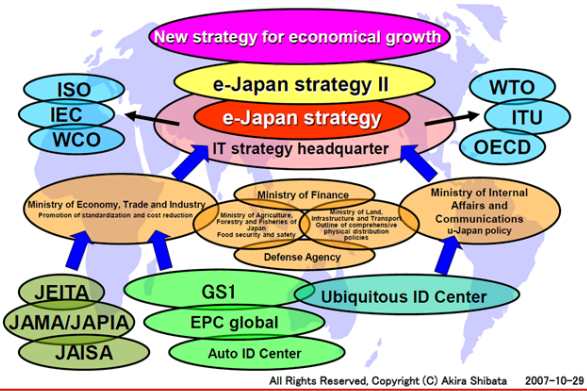
DENSO WAVE
1

Current situation of RFID in Japan

Akira Shibata
ISO/IEC JTC1 SC31
JAPAN Committee Chairman

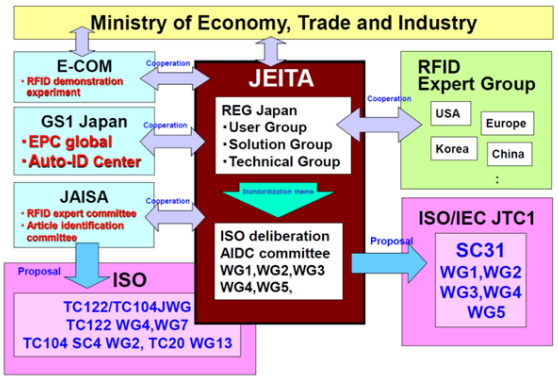
DENSO WAVE
2

Environment of RFID in Japan



DENSO WAVE
3

Positioning of JEITA



DENSO WAVE
4

Introduction of JEITA

Japan Electronics Information Technology Industries Association

KDDI プレゼンテーション

METI プレゼンテーション