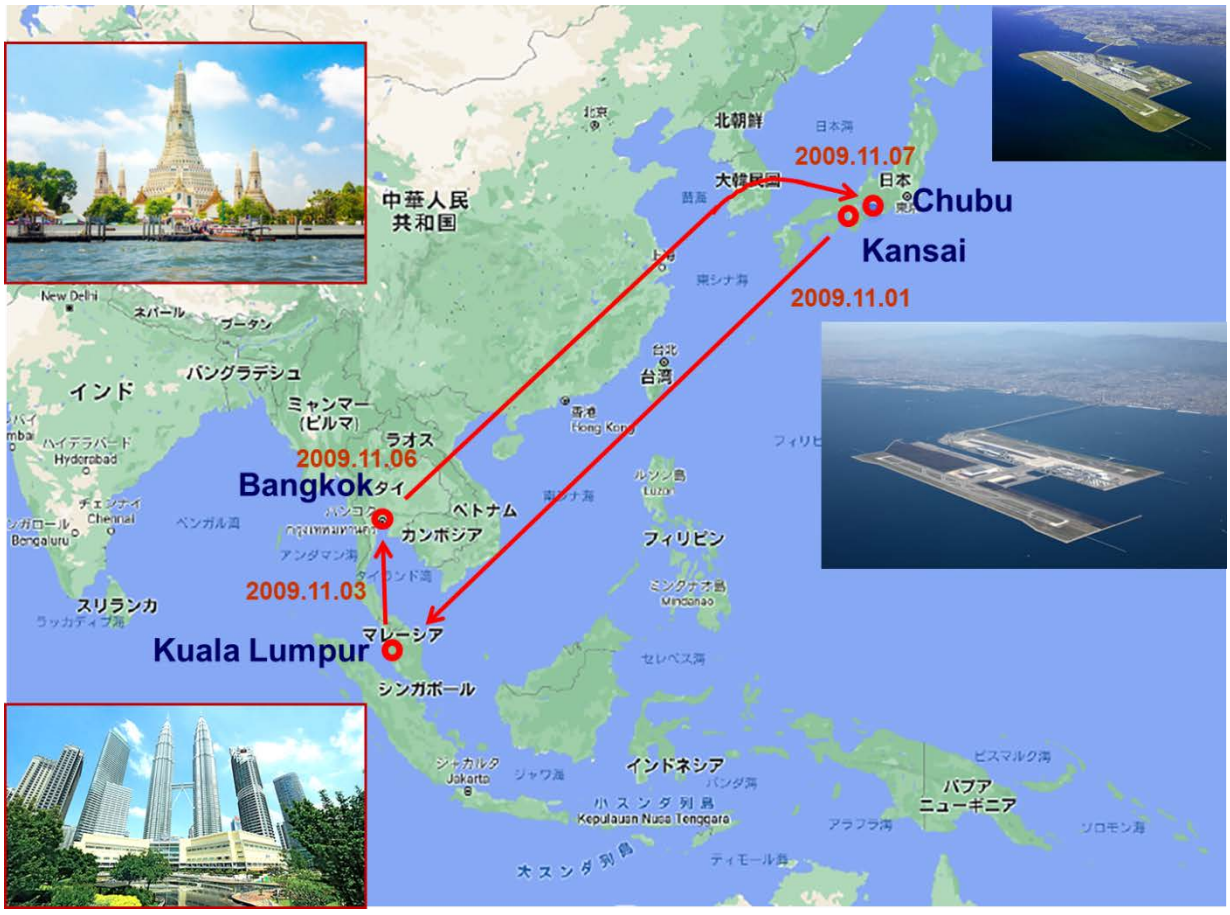
SCM Survey Kuala Lumpur /Bangkok

Schedule: 2009.11.01～11.07
2009.11.01 Kansai ⇒Kuala Lumpur
2009.11.02 09:00-17:00 Survey DENSO Malaysia
2009.11.03 11:00-15:30 Meeting with SIRIM
2009.11.03 Kuala Lumpur ⇒Bangkok
2009.11.04 09:00-17:00 Survey DENSO Thailand, K-LINE
2009.11.04 18:00-19:00 Meeting with NECTEC
2009.11.05 07:00-12:00 Meeting with Chan Wanich
2009.11.06 09:00-17:00 Meeting with TISI, Survey TOSHIBA Logistic
2009.11.06 Bangkok ⇒Chubu (+1)

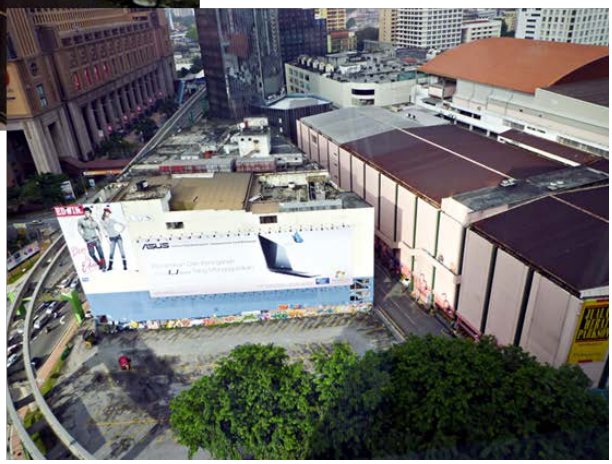
2009 年 11 月 1 日～7 日の日程でクアラルンプールとバンコクを訪問した。訪問の目的は、日本提案（データキャリア利用ガイド、モバイル QR コード）への理解と賛成票獲得、データキャリア利用ガイド作成のための現地調査（通い箱利用状況調査）、および QR コードの普及啓発である。

SIRIM: Standard and Industrial Research Institute of Malaysia
NECTEC: National Electronics and Computer Technology Center
TISI: Thai Industrial Standards Institute ministry of Industry



Parkroyal Kuala Lumpur

PARKROYAL
KUALA LUMPUR
MALAYSIA



2009.11.03 Parkroyalから

JAISA-DM09-045
平成21年10月29日

株式会社デンソーウェーブ

専務取締役　永井　登 殿

社団法人日本自動認識システム協会
専務理事　　高田　敏雄

リターナブル容器へのダイレクトマーキングのマレーシア・タイの調査派遣の依頼

拝啓　貴社ますますご清栄のこととお喜び申し上げます。
平素は，当協会の事業に格別のご協力を賜り，ありがとうございます。
　今回、リターナブル容器へのダイレクトマーキングの国際標準化（ISO規格）推進する一環として、マレーシア・タイ国の調査及び説明して理解を図るため、貴社柴田 彰殿へ次の内容で派遣していただきたく，お願い申し上げます。

敬具

－ 記 －

目的　：　タイやマレーシア国にリターナブル容器へのダイレクトマーキングの国際標準化（ISO規格）推進する一環として、マレーシア・タイ国の調査及び説明して理解を図る。

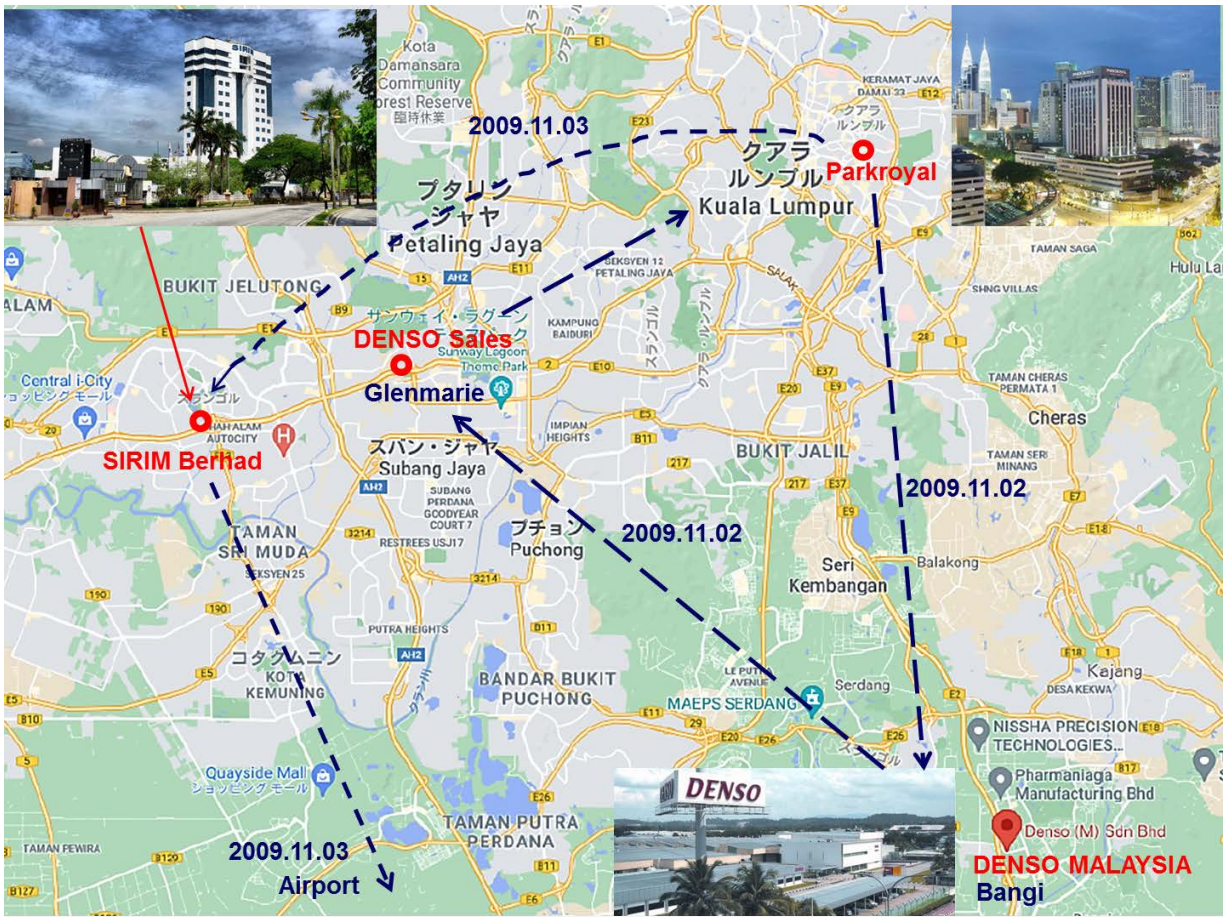
出張先　：　タイとマレーシア国

出張期間　：　２００９年11月１日　～　２００９年11月７日（６泊７日）

経費について：　リターナブル容器へのダイレクトマーキングの国際標準化事業から，旅費の一部負担とします。（負担費用30万円位請負元の査定によります。なお、航空料金と宿泊、日当は別になります。）

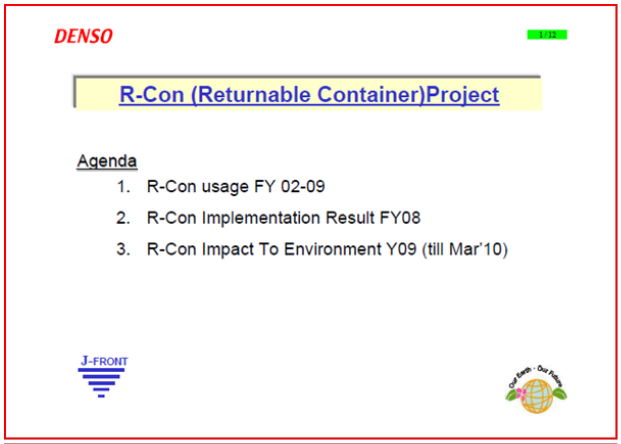
問合せ先　：　〒101-0032　東京都千代田区岩本町１－９－５　ＦＫビル
社団法人日本自動認識システム協会
担当　：　今井　弘　　(hr-imai@jaisa.or.jp,　Tel: 050-8864-1893)

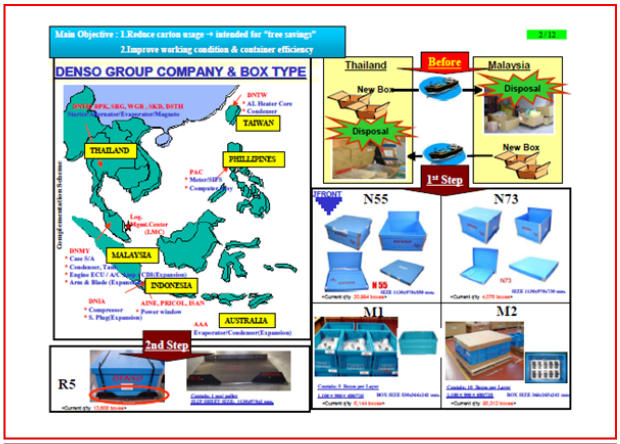
以上

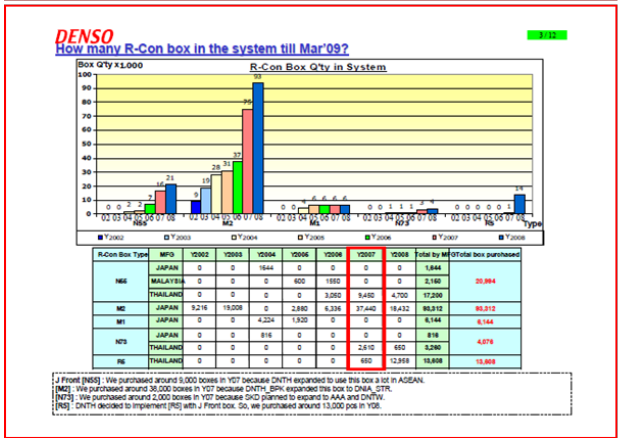


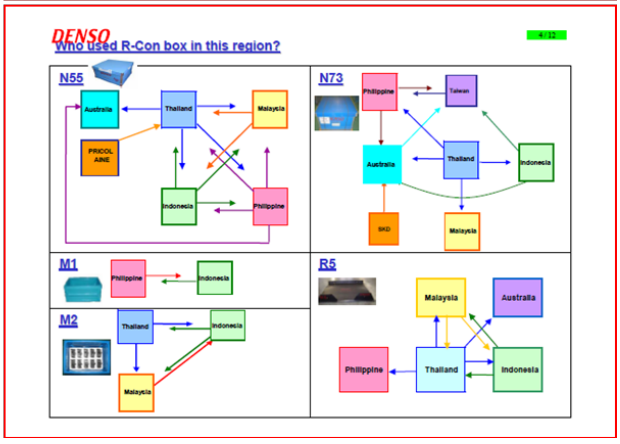
DENSO (MALAYSIA) SDN. BHD.

Lot 2, Jalan P/1, Section 13, 43650 Bandar Baru Bangi,
Selangor Darul Ehsan, Malaysia


DENSO
1 / 12
R-Con (Returnable Container)Project
Agenda
1. R-Con usage FY 02-09
2. R-Con Implementation Result FY08
3. R-Con Impact To Environment Y09 (till Mar'10)
J-FRONT


Main Objective : 1.Reduce carton usage → intended for "tree savings"
2.Improve working condition & container efficiency
2 / 12
DENSO GROUP COMPANY & BOX TYPE
THAILAND
TAIWAN
PHILLIPINES
MALAYSIA
INDONESIA
AUSTRALIA
Thailand
Before
Malaysia
New Box
Disposal
Disposal
New Box
1st Step
2nd Step
N55
N73
M1
M2
R5


DENSO
3 / 12
How many R-Con box in the system till Mar'09?
Box Q'ty x1,000
R-Con Box Q'ty in System
N55
M2
M1
N73
R5
Type


DENSO
4 / 12
Who used R-Con box in this region?
N55
N73
M1
R5
M2
Australia
Thailand
Malaysia
Philippine
Indonesia
PRICOL
AINE
Taiwan
SKD


2009.11.02 DNMY BANGI Factory
Denso (Malaysia) Sdn Bhd
Invoice No - 0910487
C/No: 6 - 7


DENSO


NON-REPACK
PARTS


PWC036
MAJXLAD
DNMY03
PWC036
PWC036


949376-0490
210
JK
ZZZ
JB04


MAJXLAD
DNMY03
PWC036
PWC036


MAJXLAD
DNMY03
PORT KELANG
CKD2
郵船航空
49.5


CASE MARK
MA459020-332D6X
PART NO.
96197636-OW161
459020-332D-ES
COUNTRY OF ORIGIN
MALAYSIA
DATE PRODUCED
10/10/09
GROSS WEIGHT
8.9KGS
QTY 024
LINE U105
DENSO MALAYSIA SDN BHD


1769-IQ16 A
1769
016
1769-IQ16


U103
MA459020-21616X


PRODUCTION INSTRUCTION KANBAN
MODEL
RS232C
MA4599230-0990
LINE
L6/L2X
PROD. LOT
30


DENSO


DENSO
EGIONAL RETURNABLE BOX
80 KG
EA
DENSO (MALAYSIA) SDN BHD
MADE IN MALAYSIA


DENSO
EGIONAL RETURNABLE BOX
EA
DENSO (MALAYSIA) SDN BHD
MADE IN MALAYSIA
2009.11.02 DNMY BANGI Warehouse

2009.11.02 DNMY BANGI Delivery Warehouse

2009.11.02 DNMY BANGI Delivery Warehouse

2009.11.02 DNMY Glenmarie Warehouse

2009.11.02 DNMY Glenmarie Warehouse

SIRIM Berhad

SIRIM

1 Persiaran Dato' Menteri, P.O. Box 7035, Section 2,
40700 Shah Alam, Selangor, Malaysia

No	Organisation & Address	Members
Chairman	**SC31 Malaysia**	
1.	**Malaysian Industry-Government Group for High Technology (MIGHT)** MIGHT, Level 6, Block 2, Menara PjH, 62100 Putrajaya	Dr Azmi Hassan Senior Associate
Secretary		
2.	**SIRIM Berhad** Standards Management Department 1, Persiaran Dato' Menteri, Section 2, P.O Box 7035, 40911 Shah Alam, Selangor, Malaysia	Mr. Muhaimin Mat Salleh
Members		
3.	**Universiti Putra Malaysia (UPM)** Jabatan Kejuruteraan Sistem Komputer dan Komunikasi, Fakulti Kejuruteraan, Universiti Putra Malaysia 43400 UPM Serdang, Selangor	P*) Assoc Prof. Dr. Mohd Adzir bin Mahdi A*) Dr. Raja Syamsul Azmir Raja Abdullah
4.	**SIRIM QAS International Sdn Bhd** Seksyen Komunikasi dan Multimedia SIRIM QAS International Sdn Bhd 1, Persiaran Dato' Menteri, Section 2, P.O box 7035, 40911 Shah Alam, Selangor.	P*) Ms. Aida Razana bt Omar A*) Ms. Erdawati bt Mohd Kasrip
5.	**Ministry of Home Affairs** Bahagian Pengurusan Teknologi Maklumat, Kementerian Dalam Negeri, Aras 6, Blok D2, Kompleks D, 62546 Putrajaya.	P*) Mr. Shareh Nordin bin Shareh Ali A*) Ms. Latipah bt Omar
6.	**SIRIM Berhad** Pusat Teknologi Pembuatan Termaju (AMTC) Lot P1 5285 Off Jalan Lebuhraya Puchong-Sungai Besi, 57000 Bukit Jalil, Kuala Lumpur.	(*Re-nomination*)

7.	**MIMOS** MIMOS Berhad Taman Teknologi Malaysia 57000 Kuala Lumpur	P*) Prof. Dr. Masuri Othman
8.	**Universiti Kebangsaan Malaysia (UKM)** Fakulti Kejuruteraan Universiti Kebangsaan Malaysia, 43600 UKM Bangi, Selangor	P*) Prof. Dr. Burhanuddin Yeop Majlis A*) Dr. Hafizah Husain
9.	**Malaysian Administrative Modernisation and Management Planning Unit (MAMPU)** Unit Pemodenan Tadbiran dan Perancangan Pengurusan Malaysia JPM, Aras 5, B1, Kompleks JPM, Pusat Pentadbiran Kerajaan Persekutuan, 62505 PUTRAJAYA.	P*) Mr. Nik Azmin bin Nik Hussain A*) Ms. Noor Haswani Hassan
10.	**Malaysian Communications and Multimedia Commission (MCMC)** Malaysian Communications and Multimedia Commission, Off Persiaran Multimedia, 63000 Cyberjaya, Selangor	P*) Mr. Yow Lock Sen A*) Ms. Siti Azrah Ab. Aziz
11.	**AGILENT Technologies (M) Sdn Bhd** Agilent Technologies Sales (Malaysia) Sdn Bhd Unit 201 Level 2 Uptown 2, 2 Jalan SS21/37 Damansara Uptown, 47400 Petaling Jaya, Selangor	P*) Mr. John Kong Fook Min A*) Mr. Chin Kean Khoong

*P** *permanent member*
*A** *alternate member*

AUTOMATIC IDENTIFICATION AND DATA CAPTURE TECHNIQUES

DISCUSSION ON JTC 1/SC 31 ISSUES

(MALAYSIA AND JAPAN)

3rd November 2009 (Tuesday)

MIGHT, Board Room,
Menara PjH, Putrajaya

Mobile Phone and Data Capture (AIDC) Technology

Japan Automatic Identification System Association
Director of Research and Development Center
Akira Shibata

1. Historical Background

Introduction of Automatic Identification and Data Capture (AIDC) technology may not be feasible unless ICT evolves to become a standard technology widely used in each country. The AIDC is a technology equipped with a specific ability for connecting information on a data carrier included in the target object that is to be scanned and the information accumulated in a database. More precisely, digitalization of information and development of a database required to centrally collect the information will be fairly difficult without an advanced digital (computer) technology. In that regard, the AIDC technology serves as a link between the database and the information obtained in real space.

Looking back the history of data carriers (linear symbols, two-dimensional symbols, RFID, biometrics and ID cards), they met their first turning point around 1985. To start with, Intel Corporation developed an early type of CPU, which is a backbone of computer system, the CPU "4040" in 1971, and then "8080" (8 bits) in 1978, "80286" (16 bits) in 1982 and "80386" (32 bits) in 1985, respectively. In the history of computer world, a major breakthrough came in 1981 when IBM released its personal computer called "IBM PC". It is widely recognized that this IBM PC used Microsoft's MS-DOS for its operating system. Thereafter, a drastic increase in the capacity of information in the database triggered a rapid expansion of AIDC applications.

The second turning point of data carrier was the mid 1990s. In 1992, URL (Uniform Resource Locator), HTML (HyperText Markup Language) and HTTP (HyperText Transfer Protocol) were developed and collectively termed as "WWW (World Wide Web). Following that, in 1995, Microsoft developed the "Internet Explore" web browser and opened it together with Windows95 to the public free of charge. This was a beginning of another era, marking a new way of data carrier applications attributed to a wide spread use of Internet communications networks.

Then, the third turning point came in the mid 2000s when new applications ideally suitable for mobile phones were developed. Integration of QR Code and its reader/writer in a mobile phone began in 2003, which was followed by the implementation of IC card in 2005 and then a TV feature (multi-media), or so-called One-Segment broadcasting in Japan, in 2006. By using a mobile phone as a personal tool, a new kind of business strategy from

Research & Development on Standard Approval

Standardization of 2D Symbol Direct Marking on Product/Part and Automatic Reading Technique

Progress Report 2003

Japan Automatic Identification Systems Association

CHAPTER 1. GENERAL

1. Outline of Promotion Business

The importance of product traceability has been widely discussed in these days. Information required for the product traceability is used to prove quality traceability for ISO9000, to promote reuse and recycling, and to control dangerous material and environmental pollutant. Many possible data media, such as linear/two-dimensional (2D) symbols and RFID, can be attached to each product. When the information must be kept semi-permanently with low cost, two-dimensional (2D) symbol directly marked on the product is most suitable.

Compared to linear symbol, 2D symbol can encode more data and can be printed on a smaller space. In the manufacturing industry, 2D symbol encoding various information on each product is printed on the paper or aluminum label/slip and then attached to the product or its package to achieve integration of product and information.

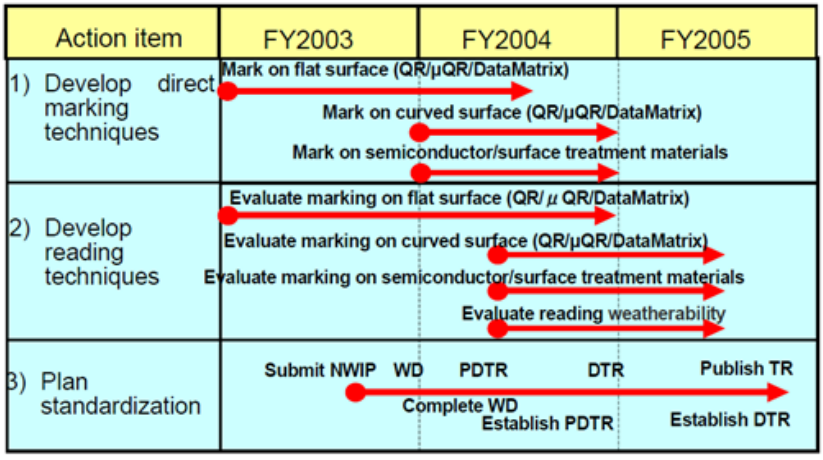
However, the integration of product and information is not completely perfect, because the label is sometimes peeled off and lost or replaced on purpose, and reading error occurs due to dirty or torn label. To solve these problems, early introduction of direct marking on the product is strongly expected.

Although the products subject to direct marking are made of various materials, such as metal and plastic, and there are wide variety of marking methods, such as laser marking and dot peening, no standard on marking and reading techniques has been established. Now the standardization of direct marking is our urgent task.

In order to complete the above task, we select materials, make samples using four types of marking methods, evaluate the quality of each sample, make recommendation for each marking method based on the result of quality evaluation. As a result, we prepare the draft of international standard covering the principle of each marking method, important point for implementation, recommendation on the range of materials acceptable for each marking method, recommended wavelength and incidence angle of the lighting unit, marking grade, etc, and submit it to ISO/IEC JTC1 SC31 for approval.

This project is closely correlated with the technique to print linear/2D symbols on paper. Therefore, compliance to the international standard on print quality of paper labels must be considered.

2. Schedule



DENSO WAVE 1

Global Logistics Platform using Data Carrier

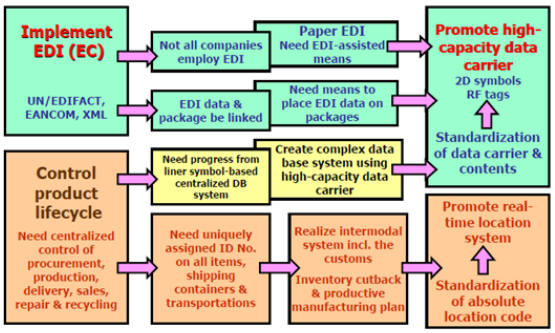
DENSO WAVE INCORPORATED
Akira Shibata

 2008-03-30

DENSO WAVE 2

Fundamental Thoughts of SCM Advancement

SCM: Supply Chain Management



 2008-03-30

DENSO WAVE 3

Goal : Real Time Cargo Tracking System

Anywhere in the world! All freight cargos!

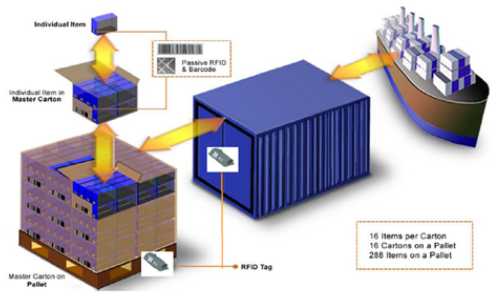
Lads, Dads & Granddads

Real Time Locating Systems

 2008-03-30

DENSO WAVE 4

Goal : Visualization of Supply Chain



Visualization of entire SCM is important to improve the efficiency of SCM.
Data Carriers (ex.RFID) plays a critical role.

 2008-03-30

SC31/WG6 Cedar Rapids Meeting 1/10

Implementation guidance for Optically Readable Media (ORM) reader incorporated in a mobile device and ORM displayed on mobile device

2009. 5. 19.
Hiromitsu Takai

2/10

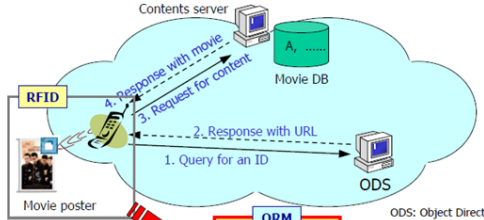
Summary of Presentation

1. Position of mobile ORM within WG6
2. Progress of ORM mobile applications
3. Problems in implementing ORM and required standardization
4. Outline of projected NP
5. Proposed table of contents

3/10

1. Position of mobile ORM within WG6

Mobile RFID service reference model (based on MIIMn0026)



ODS: Object Directory Service

Benefits of ORM
- Issuing cost is inexpensive
- Recognition software is widely used in mobile device

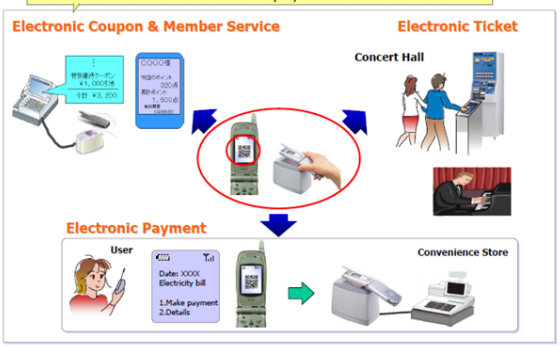
ORM that has made progress in Japan is expanding to global market

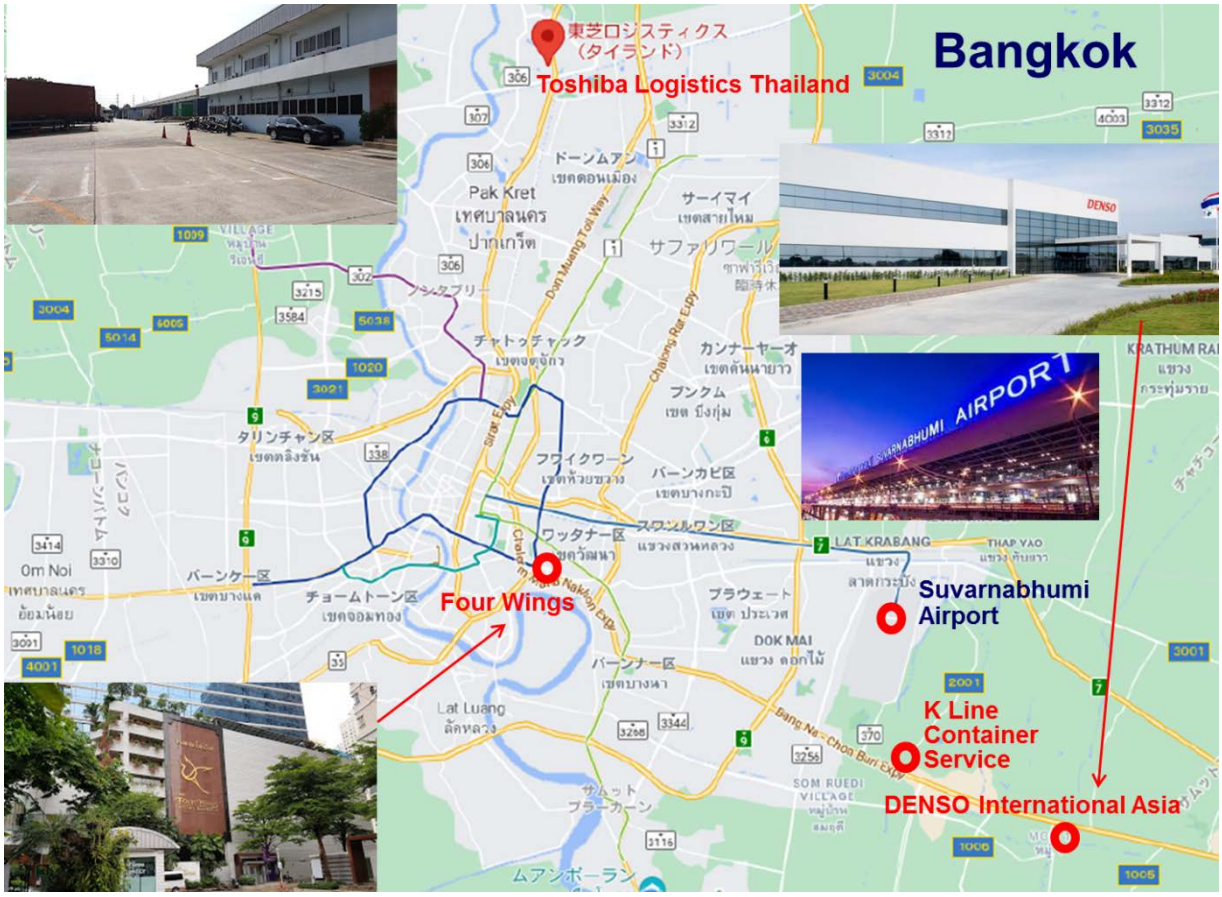
1) Reading application
- Obtain ID information by reading an ORM
- Download data from the contents server

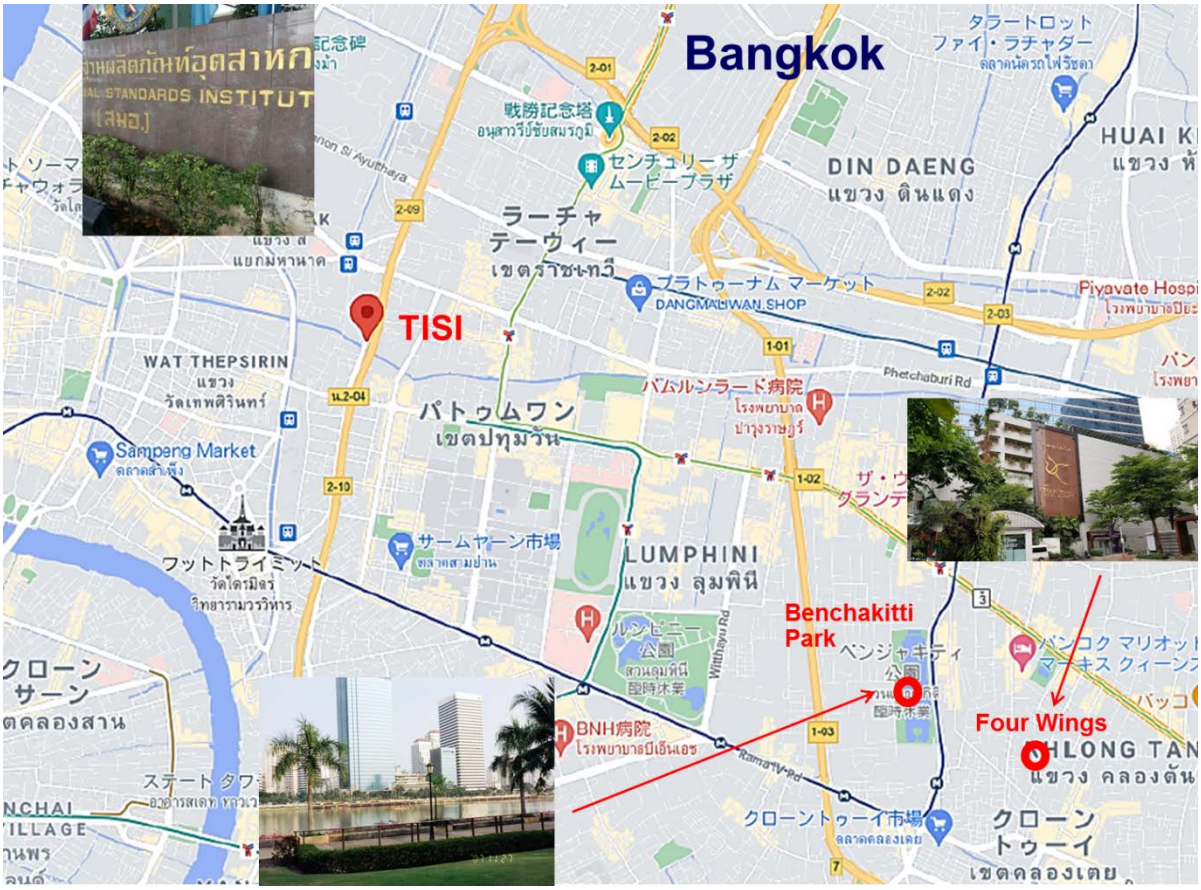
4/10

1. Position of mobile ORM within WG6 (continued)

2) Display application
Indicate an ORM on the mobile display to use it as data media.




Bangkok
東芝ロジスティクス
(タイランド)
Toshiba Logistics Thailand
Four Wings
Suvarnabhumi
Airport
K Line
Container
Service
DENSO International Asia
DENSO
SUVARNABHUMI AIRPORT


Bangkok
TISI
Four Wings
Benchakitti
Park
WAT THEPSIRIN
Sampeng Market
LUMPHINI
DIN DAENG
Phetchaburi Rd
Rama IV Rd


โรงแรมโฟร์วิงส์
กรุงเทพฯ
THE
FOUR WINGS
HOTEL BANGKOK


The Four Wings Hotel Bangkok


ELEGANCE AND COMFORT
THE FOUR WINGS HOTEL BANGKOK
THANK YOU
FOR HAVING BEEN
WITH US


THE FOUR WINGS HOTEL BANGKOK
Welcome to
The Four Wings Hotel, Bangkok
We are pleased to offer
SHIBATA, AKIRA MR.
(Guest Name)
1033
(Room Number)
Length of stay: 3 - 6 NOV 09


THE FOUR WINGS HOTEL BANGKOK
40 SUKHUMVIT RD. 26 KLONGTOEY BANGKOK 10110 THAILAND
Tel : 0-2260-2100 (64 LINES) Fax : 0-2260-2300
Phrom Pong Skytrain Station
www.fourwingshotel.com
e-mail : info@fourwingshotel.com, reservation@fourwingshotel.com
โรงแรมโฟร์วิงส์ กรุงเทพฯ
40 ถนนสุขุมวิท ซอย 26 คลองเตย กรุงเทพฯ 10110
Without difficulty, please keep this card and show the reverse side to your taxi-driver
ELEGANCE AND COMFORT

Agenda

Date		Time	Agenda	Place	Attendee
4/11/09	Wed	10:30-12:00	Internal meeting DNWA and DSTH	DSTH (Communication Area)	DNWA DSTH DNSI
		~~16:00-17:30~~ 17:00 ~ 18:00	NECTEC meeting	NECTEC	DNWA NECTEC DNSI
		~~18:00-20:00~~ 19:00 ~ 21:00	NECTEC & Chanwanich CEO (Mr. Marachai)	Siam City Hotel	DNWA Chanwanich DNSI NECTEC DSTH
5/11/09	Thur	10:00-12:00	Chan Wanich meeting (Thai QR Code) **Content** -Auto ID technology movement by Mr. Shibata -Thai QR Code Specification by Dr. Chaichana -Show Thai QR Code demo by Mr. Hirata -Provide Thai QR Code generating software and scanner supporting ThaiQR code by Mr. Hirata	Chan Wanich	DENSO NECTEC Chanwanich
		14:00-16:00	- DIAT Meeting	DSTH	DNWA ~~PCC~~
6/11/09	Fri	Whole day	-Market research for JAISA project	JAISA	Only Shibata-san
		11:00-12:00	-SATO Thailand Meeting	SATO	SATO DSTH DNWA
		14:00-15:00	-SIMAT Meeting	SIMAT	SIMAT DSTH DNWA
		16:00-17:00	-ACS meeting	ACS	ACS DSTH DNWA

DENSO INTERNATIONAL ASIA CO., LTD

888 Moo 1, Bangna-Trad Km. 27.5,T. Bangbo, A. Bangbo, Samutprakarn 10560, Thailand

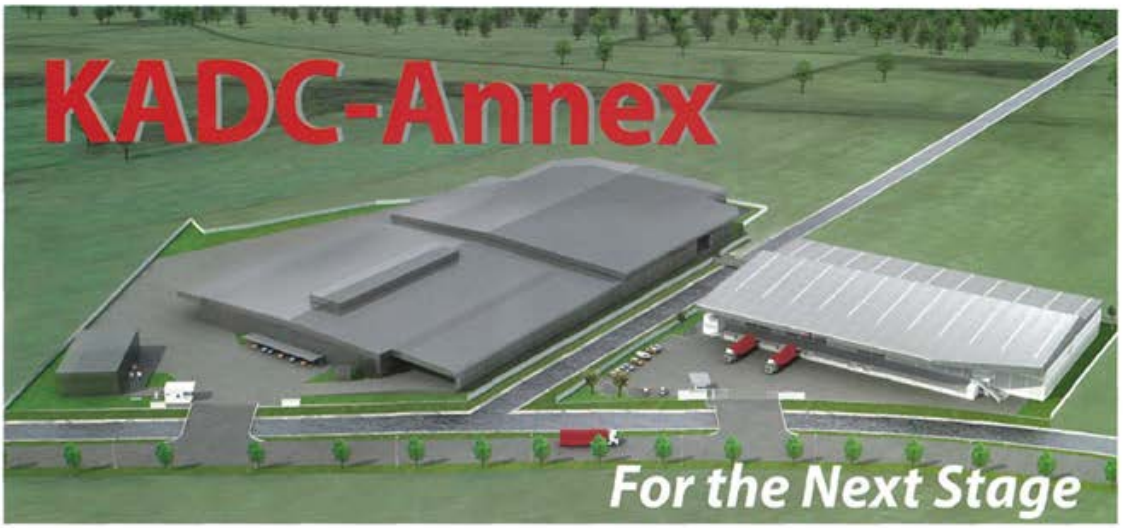
2009.11.04

DENSO INTERNATIONAL ASIA CO., LTD

K Line Container Service Thailand

2009.11.04

33 Moo 9, Km. 18 Bangna-Trad,
Bangchaloang Bangplee,
amutprakarn 10540, Thailand



K Line Amata Nakorn Distribution Center (KADC) has scaled up to cater for more valuable needs of our customers by adding the 3rd warehouse, called "Annex". Annex with 6,600m2 capacity is located neighboring with the existing warehouses and connected with them by bridge to ensure a smooth operation and effective inventory management. Annex is equipped with high standard warehouse facilities such as IP-camera which enable us to monitor the inside and the outside of the warehouse through the Web on real time basis.

In addition to general warehousing services, we offer an integrated logistics service including not only customs brokerage and transportation but also other value added services such as labelling, cargo conditions check and count, sorting and packing, etc.

We are now ready to meet varied needs of customers through our A class quality operation and facilities. We would be greatful if we could support your logistics solutions.

K LINE
K LINE (THAILAND) LTD.

KLTL
Total Logistics


DENSO


DMMI
DNAR
PAC


DENSO

Thai Industrial Standards Institute

2009.11.06

Rama VI Street Bangkok 10400 Thailand

Executives

Mr. Somkid Sangnin
Deputy Secretary-General

Mr. Pairoj Sanyadechakul
Secretary-General

Mr. Chaiyong Krittapholchai
Deputy Secretary-General

Mrs. Pranee Egoramaiphol
Advisor in Standards Development

Mrs. Chatchanee Kunakornkasem
Advisor in Conformity Assessment

Ms. Sasithorn Sunthrarak
Advisor in International Standardization

Mrs. Wanwimon Lowatcharasonti
Advisor in Standardization Promotion

Mr. Nithasn Sirilarpyos
Advisor in Technical Regulations

ABSTRACT of
GUIDELINE FOR DIRECT MARKING

JAISA
Direct Marking Working Group

1. WHAT IS DIRECT MARKING?

(1) Definition of Direct Marking

In this report, "direct marking" is defined as a generic term referring to the techniques and measures to mark a symbol directly on a product (items, parts, and their packages) instead of affixing a label or sticker to the product and to automatically identify the marked symbols.

(2) Marking Technology

Although various direct marking techniques, such as laser marking, dot peen marking, ink jet marking, sandblast marking, and thermal marking, have been developed, we will take up practically used laser marking and dot peen marking in this report.

(3) Marked Symbol

For the purpose of automatic identification, we can mark OCR (Optical Character Recognition), linear, and two-dimensional (2D) symbols on a product. Among these symbols, 2D symbol is more suitable for direct marking, so this report employs 2D symbol as a marked symbol.

(4) Needs

The advancement of information technology has brought dramatic improvements in the information system world. In the logistics industry requiring process/plant/transportation control, information system has been introduced to manage all information on manufacturing to sales consistently. This system is very helpful for manufacturers to carry out their mission to provide better and affordable products to consumers.

Additionally, considering the current situation that environmental problem and effective utilization of resources have been a focus of attention, we should establish lifecycle management system covering reuse/recycling of products as soon as possible. In order to achieve this goal, we have to develop the techniques to attach information to all products in an almost indelible manner and identify such information automatically and then construct information system to give working instructions.

(5) Technological Challenge

Since various products and materials require direct marking (See Table 1 to 4) and we have to choose a marking method from various options, such as laser, dot peen, or inkjet marking, according to the target materials, standardization of marking quality is not an easy task compared to paper labels. However, if there are many direct marking methods exclusively developed by each company, not only multi-sectional and cross-industry use but also shared use will be hampered. Therefore, we must promote standardization of direct marking.

(6) Applications

a) Production control

You can store the information on the product-related process in database under a paperless environment. In this application, the product-related data, such as line name and test data, is automatically recorded and managed as manufacturing history. Generally, the data required for production control is relatively large but marking space is small. When the marking space is small like PCB, two-dimensional symbol, which can encode large amount of data in a small space, is most suitable. As a conventional method, we have marked a symbol on a label affixed to the product. However, this method has been being replaced by direct marking, such as laser marking and silk screening, to eliminate a peeling problem and reduce manpower required to issue and affix symbol labels.

DENSO WAVE 1/10

DENSO WAVE
Mobile QR Project

1. Overview of DENSO WAVE

DENSO WAVE 2/10

DENSO Automobile

Cooling & heating — Auto air conditioner
Electric component — Starter — Oil starter, Ignition system
Radiator — Radiator — Oil cooler
Intelligent Transport System (ITS) — Car navigation & ETC
Filter — Air cleaner — Oil filter
Fuel injection — Electrically controlled fuel infection system (EFI)
Meter — Combination meter

DENSO WAVE Industrial Products (Non automobile)

FA products (robot) — Industrial robot & controller
Auto ID capture devices — Scanner (Bar code & QR Code); Handy terminal (Bar code & QR Code); IC card reader/writer

DENSO WAVE
DENSO WAVE

■Automatic Data Capture Div.
DNWA is a company that develops, sells and services auto ID products. As a pioneer of bar code and QR Code readers, DNWA provides a total solution with the world's most advanced technologies cultivated through DENSO's car electronics.
■Sales in 2008 ¥34 billion

2. Background of QR Code and Concept

DENSO WAVE 3/10

QR Code has been widely used in mobile phones in Japan. For example, it is used as an electronic ticket or as an effective tool to access web sites.

This is attributed to Japan's unique mobile systems (mobile applications using web access) developed by Japan's mobile carriers and the market needs (easy data entry, ticket-less, etc).

Our goal is to promote QR Code with focusing on overseas markets where mobile QR Code has not gain popularity, by promoting standard activities and creating good business models for QR software.

■ Mobile QR Code reading environments

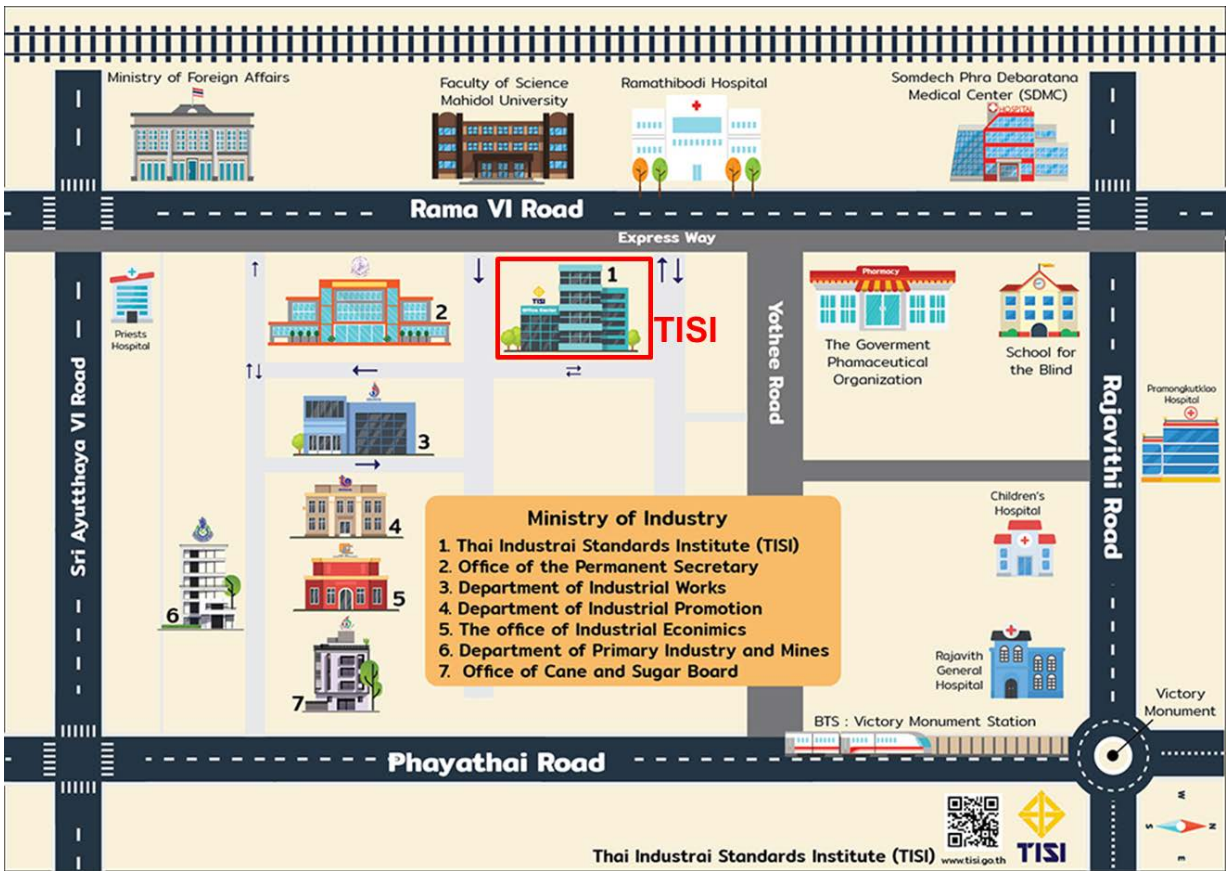
- Rate of mobile phones supporting QR Code reading by Japan's three major mobile carriers
  Up to 93 models out of 99 models, or 94%, support QR Code (as of May 2009)
- Implementation rate and quantity of built-in mobile cameras for overseas markets
  Approx. 50% (770 million units) in 2005 and 70% (1.22 billion units) in 2008.
  It is expected to increase to 80% (1.43 billion units) by 2012.

3. Target Countries

DENSO WAVE 4/10

- ***Australia***, ***China***, ***Singapore*** and ***Korea*** → 1st target is Australia
  * North America is also under consideration.
- Decide to which mobile carrier, manufacturer, application provider and camera module manufacturer to work with.
- The standardization of mobile QR Code (SC31 WG6) is currently in progress. This will give us technological advantage.

The reading standard now under development will be of great help in assuring high readability of QR Code.



Toshiba Logistics Thailand

2009.11.06

144/1.Moo 5, Bangkadi Industrial Park, Tivanon Road, Tambol Bangkadi, AmphurMuang, Pathumthai 2000, Thailand

TOSHIBA
Leading Innovation >>>

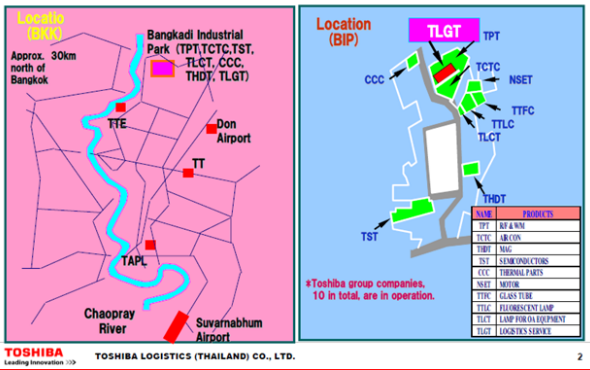
Introduction of

TOSHIBA LOGISTICS (THAILAND) CO.,LTD.

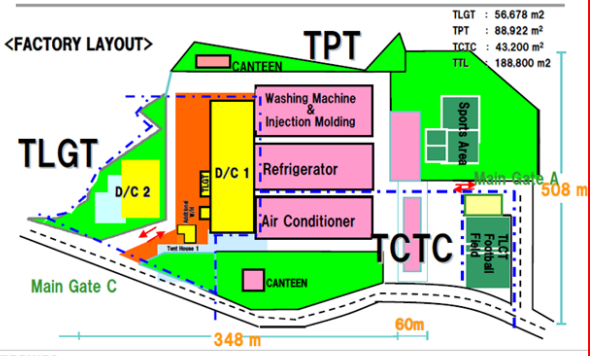
会社概要

1. Company name	TOSHIBA LOGISTICS (THAILAND) CO., LTD. Abb: TLGT
2. Location	Bangkadi Industrial Park, Pathumthani, Thailand (30km north of Bangkok City Center)
3. Established on	FEB.1, 2000
4. Registered Capital	64 Million Baht (100% held by TOSHIBA LOGISTICS CORPORATION)
5. Directors	Mr. Takumi Murai (TLGT) Mr. Makoto Noguchi (Toshiba Logistics Corporation) Mr. Akira Matsuo (Toshiba Logistics Corporation) Mr. Yoshiaki Kawamura (Toshiba Consumer products Thai.) Mr. Tetsuya Isono (Toshiba Corporation)
6. No. of Employee	233 people as of the end of October, 2009 (Incl. 2 Japanese)

ロケーション



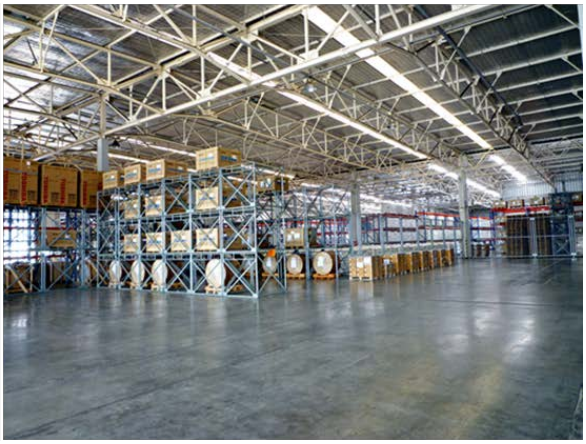
レイアウト




TOSHIBA


MODEL W13VT(6)-SKD
SERIAL NO 062284
REFRIGERATOR
MODEL W13VT(6)-SKD
SERIAL NO 062284
TOSHIBA/TVSBA
MADE IN THAILAND
EXPORT ONLY
NG LÊN
NHÀNG
TỐI ĐA BỐN TẦNG


東芝電気洗濯機
AW-80VG(W)
919097
RG
販売店様用ＰＯＳコード
東芝電気洗濯機
AW-80VG(W)
919097
RG
横積
横倒し




BD22D4
3
BD22D2
2
BD22D1
1


BB1