

On the going project  
Asian Construction IT Data Book

2010.July 5<sup>th</sup>

JACIC

Y.Kawanai

[http://www.jacic.or.jp/acit/databook05\\_e.html](http://www.jacic.or.jp/acit/databook05_e.html)

Data Book - Windows Internet Explorer

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Data Book

## Asia Construction IT Round Table Meeting

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### Asia Construction IT Data Book 2009

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[海外建設工事ライブラリー](#) (国土交通省へリンク)

# Abstract chart is a comparison table

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E3 Comparison Table (Ctrl+T)

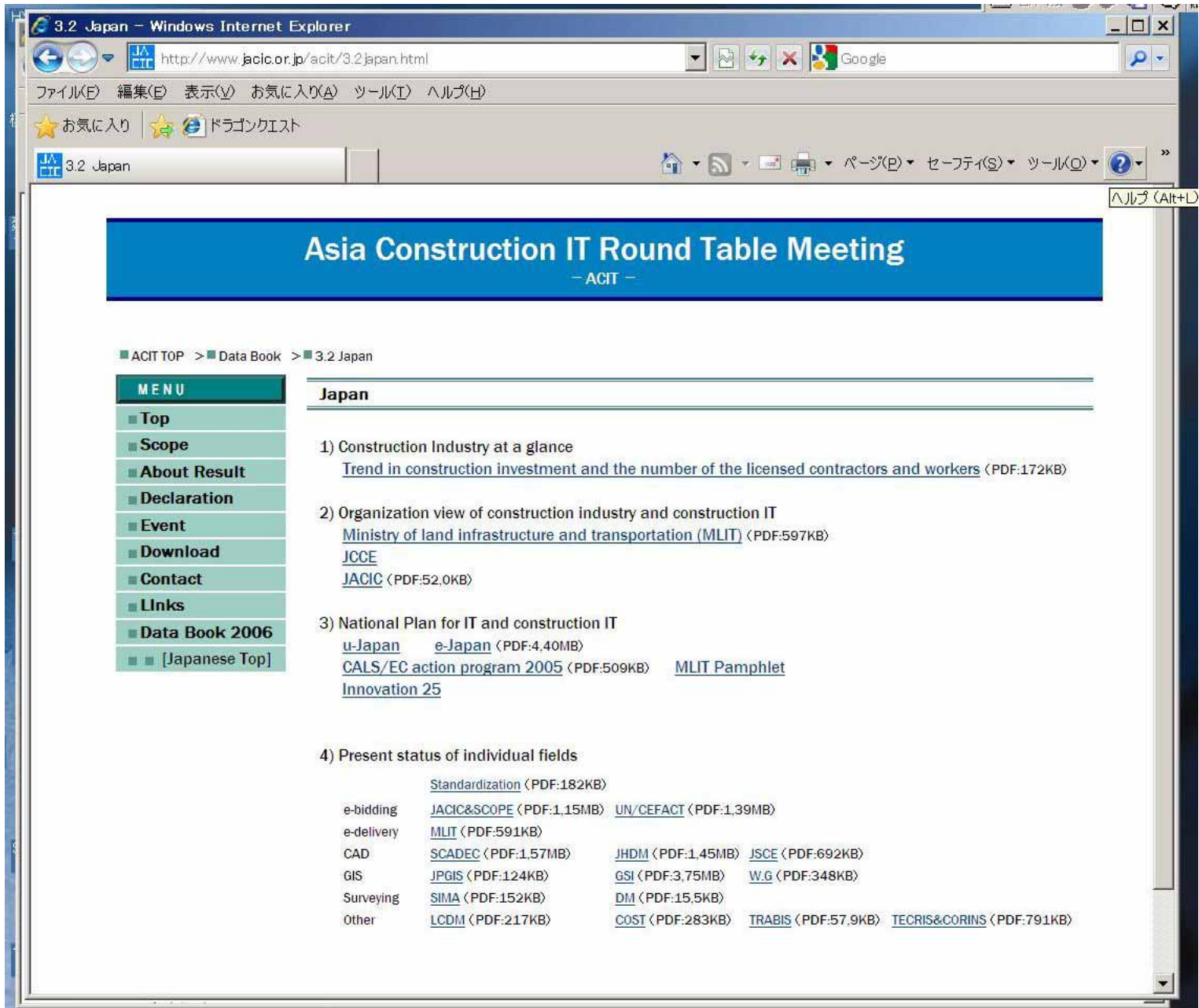
ANNEX B to  
9th Asia Construction IT Round-Table Meeting Minutes  
Comparison Table

Present status: efforts of each country to establish interoperability of data and information systems  
Contents: Each column is expected for the standard and implementation facts.

	China	Hong-Kong	Taiwan	Japan	Korea	Singapore
8 CAD/product model	No standards on CAD have been developed. The current effort is towards the IFC standard which is product data based. The effort is based on a sub-project in the fifth-five-year research project sponsored by the Ministry of Science and Technology. Autocad dominant for drawing, de facto standard. standard software by C&S(BS) (state-owned company). More than 90% harmonization with international standard. Efforts are supported by Chinese gov. Exchange are made with BNS.	A working group has been established in 2003 to investigate the possibility of using IFC as the Hong Kong standard for CAD data exchange. A draft document has been produced in 2005 and a number of experiments have been conducted to test the usability of the standard. It is possible that the draft will soon become a standard for HK.	No standard on CAD drawings has been developed. The DWG format from AutoDesk is still the de facto standard in the construction industry for exchanging CAD information although there has been an awareness of IFC and B1N development recently. A standard in XML format, named Engineering Drawing Metadata Exchange Standard, has been developed by Public Construction Commission, Executive Yuan, for exchanging CAD Drawings' Metadata.	SIF is developed as Japanese standards for CAD data exchange for e-delivery. SIF stands for SCADEx data Exchange Format, where SCADEx is for "Standard CAD data Exchange Format in Japanese Construction Field". Present version is 2.0 and conformant to ISO10303 STEP/AP202. Ver. 3.0 is still in the experimental stage. Several projects for establishing standard product models are being pursued by private/public organizations. Examples include JDM (product model development (such as Bridge, Road) under IAI/IFC Model consistency) Efforts of harmonization are being made by JSCE. Hierarchical structure of the product models will help the future model harmonization.	KOSDIC was developed for CAD data exchange, e-delivery and long-term preservation. KOSDIC means "Korea Standard of Drawing Information in Construction". KOSDIC was developed considering ISO 10303 AP202 and IAI IFC model. KOSDIC has been developed as national electronic delivery standard for CAD data. The format is compliant to ISO10303 AP202. Korea Infrastructure and Safety Technology Corp. and various public organizations are adopting KOSDIC as delivery format. Extended projects: IFC 2D extensions, prototype system of 3D, 4D models. ISO 10303 AP 241 Project is lead by Korea. AP241 MD(Working Draft) has been submitted.	The Construction Industry IT Standard Committee tracks, adopts and promotes industry-specific IT standards. The information brought to the whole IT building project CITE develops as that are aligned with international other industry specific standards. IFC for Information Exchange in the CC are developed.
9 GIS	A draft standard has been developed for the specification of Urban GIS. It is intended to be used in the system for digital city. Committee in Geomatic Center cover the all the ministries. Next 5 yr plan of standard development (Urban Univ.) Transfer data format: W: SOTS V3 based on ISO, OGC. 3 formats, digital linear graph (DLG), DDM digital ortho image, DEM they are used by surveying companies. BNS, NRS, NCS, Service interfaces based on OGC.	No standard has been developed	No standard on GIS data exchange has been developed. Arc/INFO and MapInfo are two most widely used GIS software tools in Taiwan and their data are interoperable with each other.	Japan is developing JIS (Japan Industrial Standards) for GIS based on ISO 15924 (Geographic Information Specifications), a profile of JIS and ISO for practical use. Cabinet secretariat organize NG for interoperability of GIS data among the ministries. Japanese central gov. determines its own exchange standards, but it fails to cover the entire fields, and not all software can handle them. The profile is developed to	In OPS survey, RINEX(Receiver Independent Exchange Format) is widely accepted. RTKML format is generally used in other surveying field.	The Land Data Hub, Ministry of GIS data in Geomatic Spatial I
10 Surveying	No standards on surveying has been developed.		No standard has been developed for surveying data exchange.	[EXAMPLE] SIAA format proposed by Japanese Surveying Companies is widely accepted as default standard.	MOI(National Geographic Information Institute)recently established developed MOI format for digital map exchange and MOI(National Image Exchange) format for image map exchange. Need more input on the association with ISO or OGC, international efforts on standardization.	Subsidiary of Cadastral Survey Forecast JASCI text format, re Surveyor Directive available. Land authority website, Sub-Certified Plan (CP) for cadastre in dat format.
11 e-bidding	No standards on e-procurement and e-bidding have been developed, as far as e-procurement is concerned, the environment is not ripe yet. as far as e-bidding is concerned, dedicated systems have been developed in some municipalities and provinces and are being used for bidding, but it is confined to specifying of bidding information and application of bidding. There is still long way to go towards e-bidding.	The Works Bureau, which is a statutory organization of Hong Kong has developed a Works Project Information Standard (WPIS) which has been gradually implemented in all public works in Hong Kong. The standard has been implemented by a set of XML based e-force and are available online for project participants to upload and download project information.	XML-based data exchange standards have been developed by Public Construction Commission (PCC). Executive Yuan for government procurement mainly in areas of e-tender management and common-supply purchase order management. e-Procurement system and electronic Common-Supply Purchase Order system have been developed, respectively, for both tendering and bidding of public construction projects and for government purchase items with advance contract.	JACI and KOSPE jointly develop a core system for e-bidding for public organizations. They proposed the underlying standards for e-bidding to UN/CEFACT and the proposed standards were accepted as an international standard in 2006. P.C. refer TBCE website for UN/CEFACT documentation.	The electronic procurement is running by Public Procurement Service under the Ministry of Commerce, Industry and Energy. In order to run the electronic procurement, Public Procurement Service developed the e-procurement system. Government e-procurement system. The electronic procurement in the construction field is also managed in the KOSPE system. The ISP project was carried out by KICT as a part of Construction IALS/ES projects. In Korea, all of the government ordered Procurement and Bidding are through single unified system controlled by the Office of Supply. The Office of Supply developed e-Procurement and bidding system based on UN/CEFACT.	Ge-BIZ is an integrated, end-to-end system that allows government access procurement opportunities and allows suppliers to Singapore government electronic allow public sector officers to of procurement activities. Ge-BIZ large Singapore government initiatives. Ge-BIZ may not be conformant UN/CEFACT. need more info.
12 e-delivery	No standards on e-delivery have been developed. Few effort has been devoted on this aspect because its merits have not been recognized.	The Works Bureau is in the process of developing a Works Project Communication Platform (WPIC). The WPIC will use the data standard set in Works Project Information Standard (WPIS) as the basis for the system development. The WPIC is expected to be ready soon.	No standards on e-delivery have been developed. Electronic Government Procurement Gazette has been provided by Public Construction Commission, Executive Yuan, as an e-delivery service.	[EXAMPLE] Standard format for e-delivery are established by Ministry of Land, Infrastructure and Transport for their own use. The Ministry is promoting the standard format to local governments.	Construction Electronic Document standard was developed. Ministry of Construction and Transport published Standard format for e-delivery for MOCT's regional office on 2006. The Ministry is promoting MOCT's standard format for e-delivery to Construction company. Many public corporations use their own standard format for e-delivery. KOSDIC is the e-Delivery standard for construction drawings. XML based electronic document standard has been developed for delivery/exchange of	CO-RENET (Construction and Real Business) online-based system is professional to submit/provide and documents to regulatory authority within a secure environment. The protected documents for whole covering processing plans and disbursement of planning approvals, but approach, structural plans approval

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# Asia Construction IT Round Table Meeting

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## Japan

### 1) Construction Industry at a glance

[Trend in construction investment and the number of the licensed contractors and workers](#) (PDF:172KB)

### 2) Organization view of construction industry and construction IT

[Ministry of land infrastructure and transportation \(MLIT\)](#) (PDF:597KB)

[JCCE](#)

[JACIC](#) (PDF:52.0KB)

### 3) National Plan for IT and construction IT

[u-Japan](#)   [e-Japan](#) (PDF:4.40MB)

[CALS/EC action program 2005](#) (PDF:509KB)   [MLIT Pamphlet](#)

[Innovation 25](#)

### 4) Present status of individual fields

[Standardization](#) (PDF:182KB)

e-bidding   [JACIC&SCOPE](#) (PDF:1.15MB)   [UN/CEFACT](#) (PDF:1.39MB)

e-delivery   [MLIT](#) (PDF:591KB)

CAD   [SCADEC](#) (PDF:1.57MB)   [JHDM](#) (PDF:1.45MB)   [JSCE](#) (PDF:692KB)

GIS   [JPGIS](#) (PDF:124KB)   [GSI](#) (PDF:3.75MB)   [W.G](#) (PDF:348KB)

Surveying   [SIMA](#) (PDF:152KB)   [DM](#) (PDF:15.5KB)

Other   [LCDM](#) (PDF:217KB)   [COSI](#) (PDF:283KB)   [TRABIS](#) (PDF:57.9KB)   [TECRIS&CORINS](#) (PDF:791KB)

I will show it in the site.

[http://www.jacic.or.jp/acit/databook05\\_e.html](http://www.jacic.or.jp/acit/databook05_e.html)

## summary

- The Data Book is a **library** of each country's status in the field of construction information. The items are CAD, GIS, e-bidding, e-delivery etc.
- It has been **revised every time** at the Meeting by the participants.
- It is the result of the **exchange** at this Meeting, and I believe it is one of the **fruit** of this Meeting, too.

- The Data Book has been developed little by little every time.

- In this time also, I would like to improve this Data Book with your cooperations.

And so,

# The task during this Meeting

- For the representative of 3 CJK and Singapore, to revise each frame words.
- For the representative of the new comer, Philippines and Thailand, to fill each blank, general status or standard name, system names.