

Current Status of IT Standardization in Thailand

Surayuth Boonmatat

Standards Bureau 2

E-Mail: surayuth@tisi.go.th



Outline

- 1 Introduction
- 2 Participation of TISI in ISO/IEC Activities
- 3 Work Program
- 4 Business Plan
- 5 Conclusion



1. Introduction

- ④ **Standards Development**
- ④ **List of TIS / IT Standards**



1.1 Standards Development

- **National Standards Development**

TISI develops voluntary and mandatory standards according to need of the expansion of trade and the economic growth of the country. Standards are developed in response to the government policy in consumer protection, industrial promotion, and environmental protection as well as natural resource preservation.

1.2 List of TIS/IT Standards

- ๑ **TIS 620-2533** Standard for Thai Character Codes for Computers
- ๒ **TIS 988-2533** Recommendation for Thai Combined Character Codes and Symbols for Line Graphics for dot-matrix Printers
- ๓ **TIS 1074-2535** Standard for 6-Bit Teletype Codes
- ๔ **TIS 1075-2535** Standard for Conversion Between Computer Codes and 6-Bit Teletype Codes
- ๕ **TIS 1099-2535** Standard for Province Identification Codes for Data Interchange
- ๖ **TIS 1111-2535** Standard for Representation of Dates and Times
- ๗ **TIS 820-2538** Layout of Thai Character Keys on Computer Keyboards
- ๘ **TIS 1561-2541** Safety of Information Technology Equipment

1.2 List of TIS/IT Standards

(continued)

- ☞ **TIS 1956-2542** Information Technology Equipment : Radio Disturbance Limits
- ☞ **TIS 1598-2541** Identification Cards-Recording Technique-Part 1: Embossing
- ☞ **TIS 1599-2541** Identification Cards-Recording Technique-Part 2: Magnetic stripe
- ☞ **TIS 1600-2541** Identification Cards-Recording Technique-Part 3: Location of embossed characters on ID-1 cards
- ☞ **TIS 1601-2541** Identification Cards-Recording Technique-Part 4: Location of read-only magnetic tracks-tracks 1 and 2
- ☞ **TIS 1602-2541** Identification Cards-Recording Technique-Part 5: Location of read-write magnetic tracks-tracks 3
- ☞ **TIS 1603-2541** Identification Cards-Recording Technique-Part 6: Magnetic stripe-high coercivity

1.2 List of TIS/IT Standards

(continued)

- ☞ **TIS 1530-2541** Identification Cards-Integrated Circuit(s) Cards with Contacts-Part 1: Physical characteristics
- ☞ **TIS 1531-2543** Identification Cards-Integrated Circuit(s) Cards with Contacts-Part 2: Dimensions and location of the contacts
- ☞ **TIS 1532-2541** Identification Cards-Integrated Circuit(s) Cards with Contacts-Part 3: Electronic signals and transmission protocols
- ☞ **TIS 1533-2541** Identification Cards-Integrated Circuit(s) Cards with Contacts-Part 4: Interindustry commands for interchange
- ☞ **TIS 1562-2541** Identification Cards-Integrated Circuit(s) Cards with Contacts-Part 5: Numbering system and registration procedure for application identifiers

1.2 List of TIS/IT Standards (continued)

- ๒๑ TIS 1540-2541** Identification Cards-Contactless Integrated Circuit(s) Cards-Part 2: Dimensions and location of coupling areas
- ๒๒ TIS 1541-2541** Identification Cards-Contactless Integrated Circuit(s) Cards-Part 3: Electronic signals and reset procedure
- ๒๓ TIS 1563-2541** Identification Cards-Integrated Circuit(s) Cards with Contacts-Part 6: Interindustry data elements
- ๒๔ TIS 1580-2541** Identification Cards-Physical characteristics
- ๒๕ TIS 1581-2541** Identification Cards-Finacial transaction cards
- ๒๖ TIS 1915-2542** Electronic data interchange for administration, commerce and transport (edifact) - Application level syntax rules (syntax version number : 4) - Part 1: Syntax rules common to all parts, together with syntax service directories for eath of the parts

1.2 List of TIS/IT Standards

(continued)

- ၂၅ TIS 1916-2542 Electronic data interchange for administration, commerce and transport (edifact) - Application level syntax rules (syntax version number : 4) - Part 2: Syntax rules specific to batch EDI
- ၂၆ TIS 1917-2542 Electronic data interchange for administration, commerce and transport (edifact) - Application level syntax rules (syntax version number : 4) - Part 3: Syntax rules specific to interactive EDI
- ၂၇ TIS 1918-2542 Electronic data interchange for administration, commerce and transport (edifact) - Application level syntax rules (syntax version number : 4) - Part 4: Syntax and service report message for batch EDI (message type-contrl)
- ၂၈ TIS 1919-2542 Electronic data interchange for administration, commerce and transport (edifact) - Application level syntax rules (syntax version number : 4) - Part 8: Associated data in EDI

1.2 List of TIS/IT Standards

(continued)

- ๓๑ **TIS 1976-2543** Electronic data interchange for administration, commerce and transport (edifact) - application level syntax rules (syntax version number :4) Part 5 : security rules for batch edi (authenticity, integrity and non-repudiation of origin)
- ๓๒ **TIS 1977-2543** Electronic data interchange for administration, commerce and transport (edifact) - application level syntax rules (syntax version number :4) Part 6 : secure authentication and acknowledgement message (message type-autack)
- ๓๓ **TIS 1978-2543** Electronic data interchange for administration, commerce and transport (edifact) - application level syntax rules

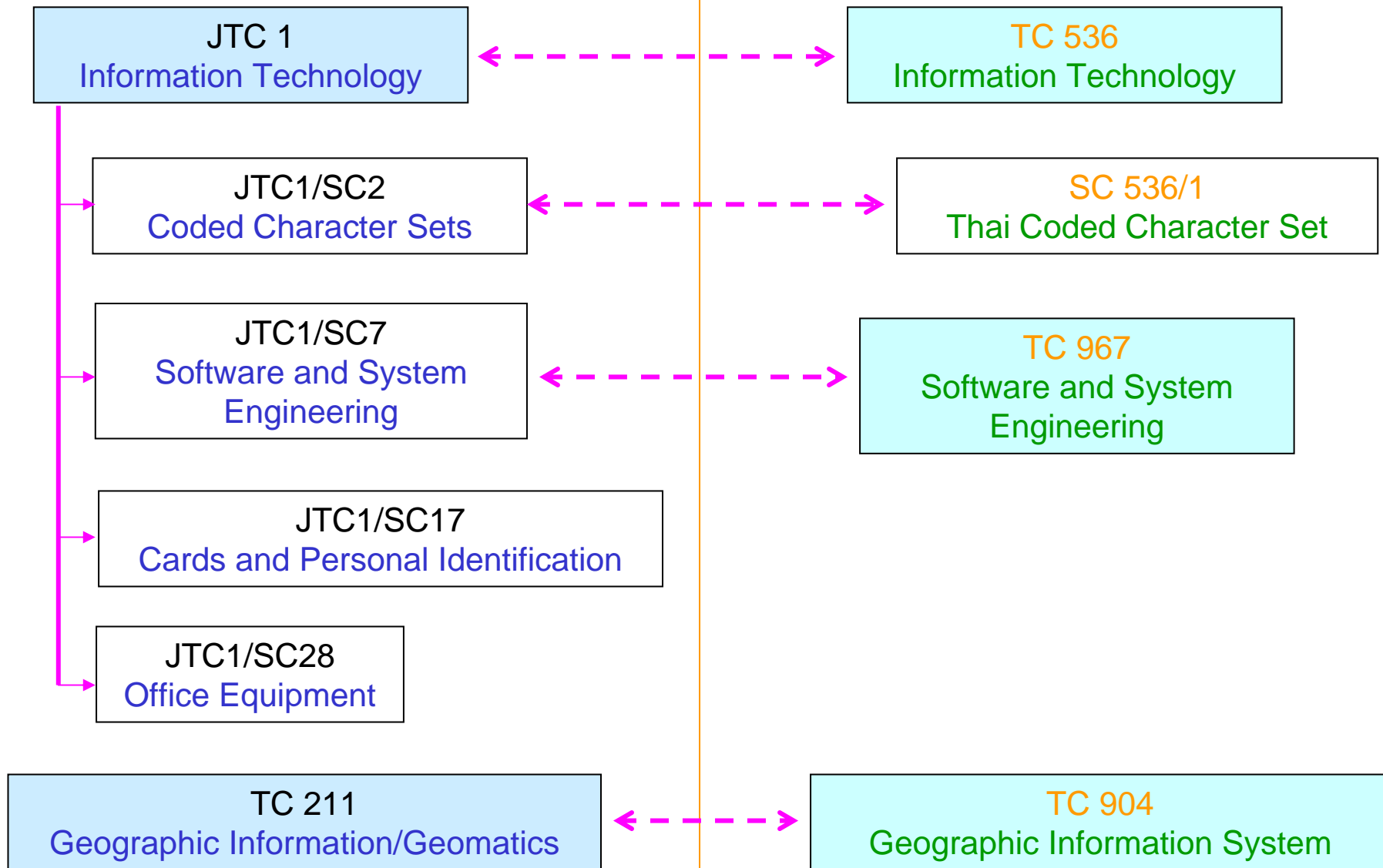
2. Participation of TISI in ISO/IEC Activities

- ① **Mirror Technical Committees**
- ② **Membership of TISI in ISO/TCs or SCs**
- ③ **Published ISO/IEC standard developed by TISI**



ISO

THAILAND



Membership of TISI in ISO/TCs

• **P-Member** *or SCs*

- JTC 1/SC 2 Coded Character Sets
- JTC 1/SC 7 Software and System Engineering
- JTC 1/SC 28 Office Equipment
- TC 211 Geographic Information/Geomatics

• **O-Member**

- JTC 1 Information Technology
- JTC 1/SC 6 Telecommunications and Information Exchange between systems
- JTC 1/SC 17 Cards and Personal Identification
- JTC 1/SC 22 Programming Languages, Their Environments and System Software Interfaces
- JTC 1/SC 23 Optical Disk Cartridges for Information Interchange
- JTC 1/SC 24 Computer Graphics and Image Processing

Published ISO/IEC standard

developed by TISI

- *Under the scope of JTC 1*
 - ISO/IEC 8859-11: 2001 Information Technology - 8-bit single-byte coded graphic character sets – Part 11: Latin/Thai alphabet



3. Work Program for IT Standardization

Software and System Engineering

- **Software Life Cycle (ISO/IEC 12207)**

Geographic Information System

- **GIS - Reference Model (ISO 19101:2002)**
- **GIS Conformance and Testing**
- **GIS Profiles**
- **GIS Spatial Schema**
- **GIS Temporal Schema**
- **GIS Spatial Referencing by Coordinates**
- **GIS Spatial Referencing by Geographic Identifiers**
- **GIS Metadata**
- **GIS Positioning Services**

4. Business Plan

Office Machines

- Facsimile Equipment

References :

- ISO/IEC 15404-1 Concepts and classification
- ISO/IEC 15404-2 Minimum requirements for document to be transmitted
- ISO/IEC 15404-3 Minimum requirements for received copies

4. *Business Plan (cont'd)*

Software and System Engineering

Year : 2005 - 2007

➤ *Software Quality*

References :

- ISO/IEC 9126-1 Quality Model
- ISO/IEC TR 9126-2 External Metrics
- ISO/IEC TR 9126-3 Internal Metrics
- ISO/IEC TR 9126-4 Quality In Use Metrics
- ISO/IEC 12119 Software packages-Quality requirements and testing

4. *Business Plan (cont'd)*

➤ Software Product Evaluation

References :

- ISO/IEC TR 12182 Categorization of software
- ISO/IEC 14598-1 Software product evaluation-General overview
- ISO/IEC 14598-2 Planning and management
- ISO/IEC 14598-3 Process for developers
- ISO/IEC 14598-4 Process for acquirers
- ISO/IEC 14598-5 Process for evaluators
- ISO/IEC 14598-6 Documentation of evaluation modules

4. *Business Plan (cont'd)*

➤ Software Process Assessment

References :

- ISO/IEC 15504-1 Software process assessment- Concepts and introductory guide
- ISO/IEC 15504-2 Performing an assessment
- ISO/IEC 15504-3 Guidance on performing and assessment
- ISO/IEC 15504-4 Guidance on use for process improvement and process capability determination
- ISO/IEC 15504-5 An assessment model and indicator guidance
- ISO/IEC 15939 Software measurement process
- ISO/IEC 90003 Guidelines for the application of ISO 9001:2000 to computer software

5. Conclusion

Standardization of information technology in Thailand has been in the early stage.

Close cooperation among Asian countries will strengthen our efforts and help us reach common goal for non-English speaking nations demands.

