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Software and Systems Engineering
Secretariat: CANADA (SCC)

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**ISO/IEC JTC 1/SC7
ADVISORY GROUP BUSINESS
PLANNING MEETING
Brisbane, 2004-05-09**

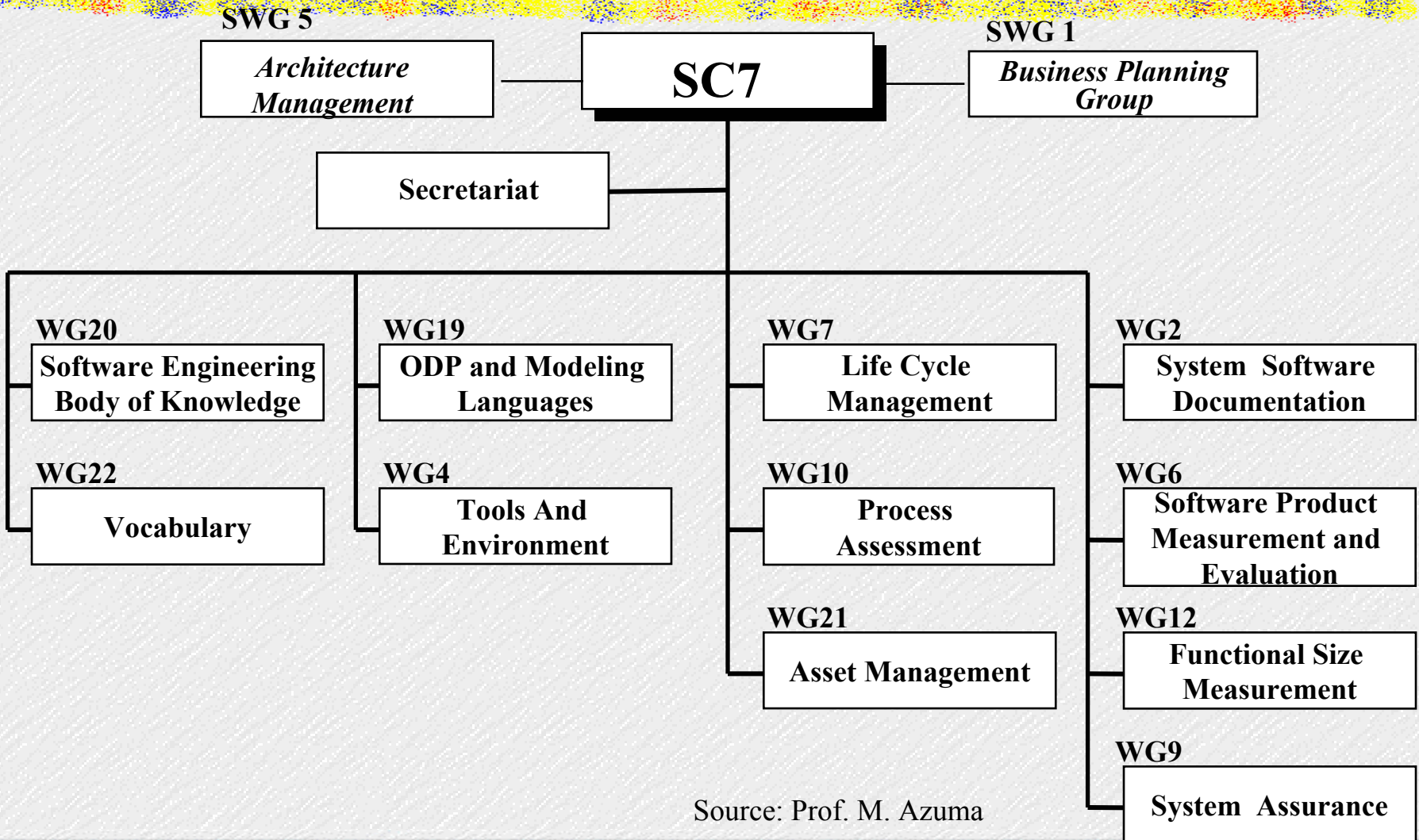
SC7 Secretary Presentation

Part 1: summary of SC7 activities

● **Agenda**

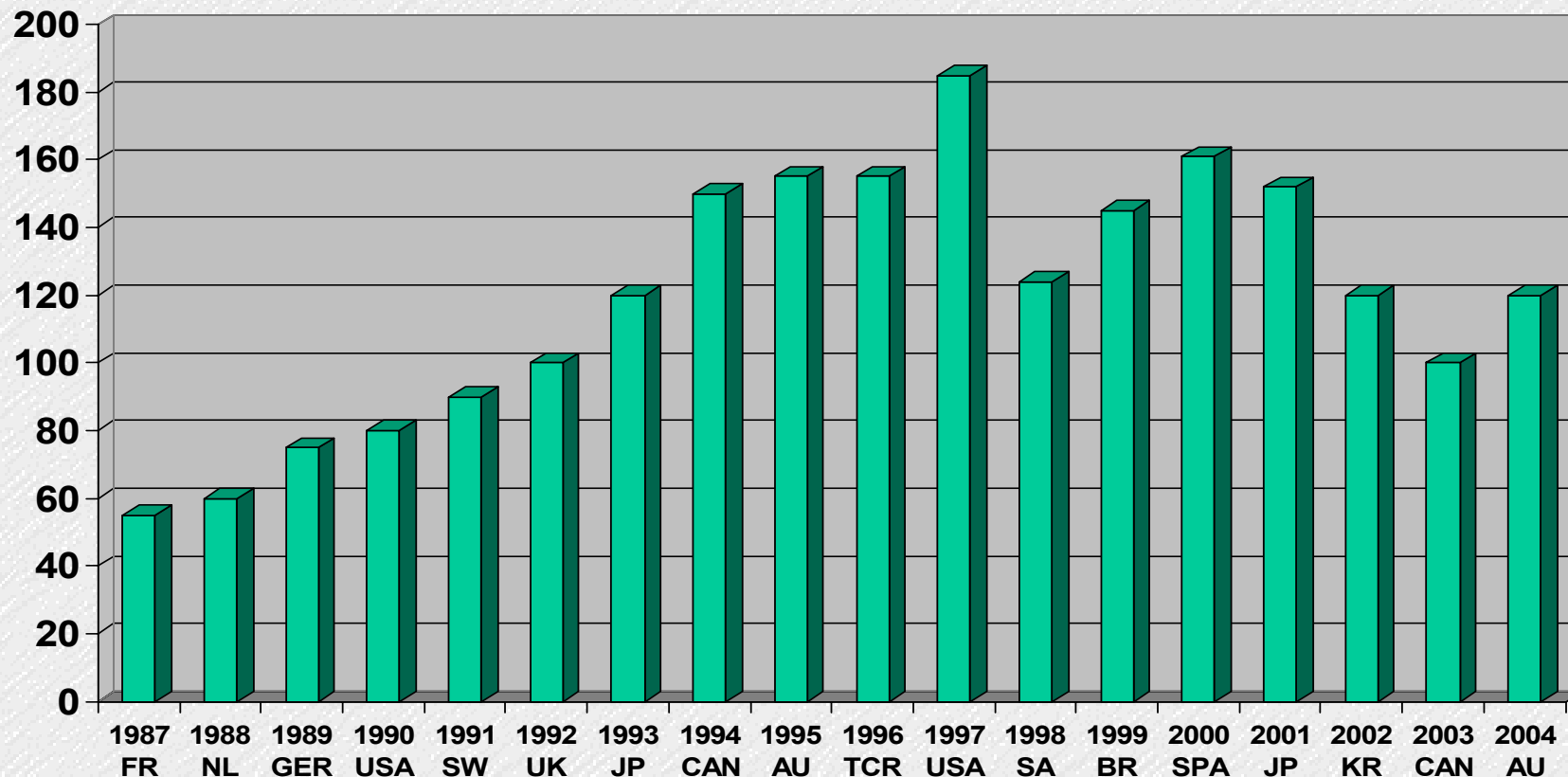
- **SC7 actual structure**
- **Plenary attendance statistics**
- **Published standards**
- **Pending standards**
- **Approved new projects**
- **SC7 production**
- **WGs' load analysis**
- **Maintenance of standards**
- **Secretariat responsibilities and performance**

SC7 structure



Source: Prof. M. Azuma

Plenary attendance statistics



Standards published

79

published standards

as of

2004-04-13

Standards published 2003

- **TR 9126-2: Software Engineering Software Product Quality - Part 2: External Quality**
- **ISO/IEC TR 9126-3:2003 Software engineering -- Product quality -- Part 3: Internal metrics**
- **ISO/IEC TR 14143-3:2003 Information technology -- Software measurement -- Functional size measurement -- Part 3: Verification of functional size measurement methods**
- **ISO/IEC 19500-2:2003 Information technology -- Open Distributed Processing -- Part 2: General Inter-ORB Protocol (GIOP)/Internet Inter-ORB Protocol (IIOP)**
- **ISO/IEC TR 19760 Systems engineering -- Guide for ISO/IEC 15288 (System life cycle processes)**
- **ISO/IEC 19761:2003 Software engineering -- COSMIC-FFP -- A functional size measurement method**
- **IS 20926 Software engineering -- IFPUG 4.1 Unadjusted functional size measurement method -- Counting practices manual**

Standards published 2004 (up to now)

- **TR 9126-4: Software Engineering - Product quality - Part 4: Quality In Use Metrics**
- **TR 14143-5: Definition of Functional Size Measurement - Part 5: Determination of Functional Domains for use with Functional Size**
- **IS 90003 – Guidelines for the app. of 9001:2000 to SW**
- **ISO/IEC 15504-2 Software engineering -- Process assessment -- Part 2: Performing an assessment**
- **ISO/IEC 15504-3 Information technology -- Process assessment -- Part 3: Guidance on performing an assessment**
- **ISO/IEC 18019 Software and system engineering -- Guidelines for the design and preparation of user documentation for application software**

Pending standards (1)

● From the 2000 View:

- **15476: Software Engineering - CDIF Semantic Metamodel - Parts 3,4,5**
- **FDIS15909: Software Engineering - High-level Petri Nets - Concepts, Definitions and Graphical Notation**

● From the 2002 View:

- **DIS 19501-1 – UML PAS**
- **DTR 19759 – SWEBOK**
- **DIS 24570 NESMA PAS**

Pending standards (2)

- **Additional projects near completion:**
 - **ISO/IEC FCD 9127 Software engineering -- User documentation and cover information for consumer software packages**
 - **ISO/IEC DTR 9294 Information technology -- Guidelines for the management of software documentation**
 - **ISO/IEC FDIS 15504-4 Software Engineering -- Process Assessment -- Part 4: Guidance on use for Process Improvement and Process Capability Determination**
 - **ISO/IEC FCD 15909-1 Software and systems engineering -- High-level Petri Nets -- Part 1: Concepts, Definitions and Graphical Notation**
 - **ISO/IEC FCD 15940 Information Technology -- Software Engineering -- Environment Services**

Approved New Projects (since the last plenary)

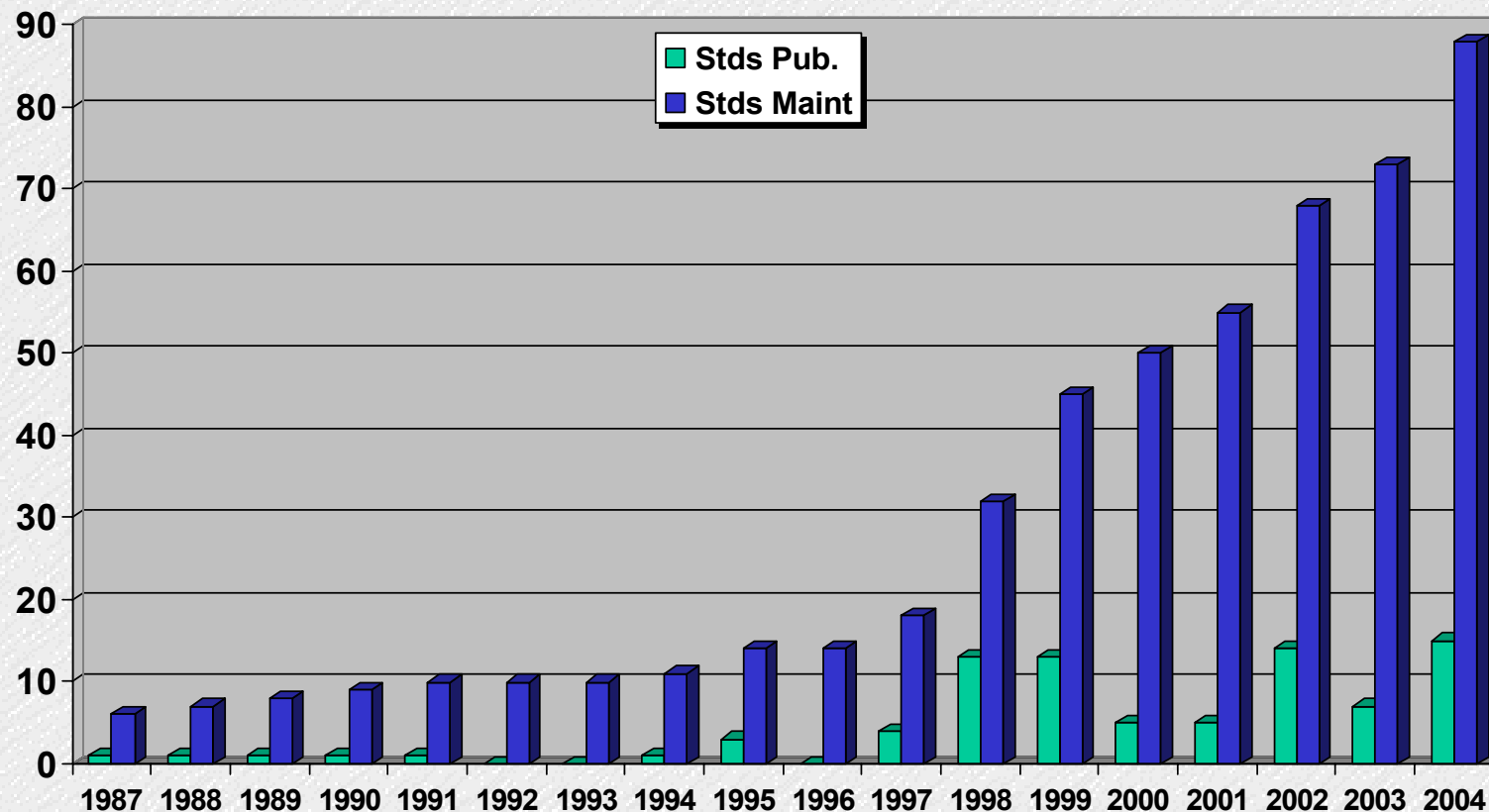
- **FDIS15909: Software Engineering - High-level Petri Nets - Concepts, Definitions and Graphical Notation**
- **15476: Software Engineering - CDIF Semantic Metamodel - Parts 3,4,5**
- **Information Technology – Requirements Engineering Tool (Study group – resolution 664)**
- **Systems and Software Engineering - Vocabulary**
- **ISO/IEC 15288 and ISO/IEC 12207 harmonization.**
- **Information Technology – Software Measurement – Functional size measurement – Part 6: Guide for use of ISO/IEC 14143 series and related international Standards.**
- **Revision of Software Engineering – Software Life Cycle Processes— Maintenance ISO/IEC 14764**
- **ISO/IEC 16085 - Software Engineering – Software Life Cycle Processes— Risk Management**
- **revision of TR14471-1999 Software Engineering - Guidelines for the adoption of CASE tools.**
- **revision of IS14102-1995 Information Technology - Guideline for the evaluation and selection of CASE Tools**

New Projects (under consideration)

- **Transfer of IEC/TC56 Project 61720: Guide to techniques and tools for achieving confidence in software (Resolution 675)**
- **Revision and fast track of IEEE 1220 (Resolution 676)**
- **Revision and fast track of EIA 632 (Resolution 676)**
- **Revision of ISO/IEC 14102 (Resolution 677)**
- **Revision of ISO/IEC 14143-1:1998 (Resolution 678)**
- **Maintenance project for the use of ITU-T Rec. X.901-3|ISO/IEC 10746 Parts 1-3, Reference Model for Open Distributed Processing (Resolution 679)**
- **Fast Track of IEEE Std 2001**
- **Fast Track of ANSI NCITS 354-2001**

SC7 Production (est.)

(No new NWI assumed - exclude dependability, include PAS)



WG Current Load Analysis

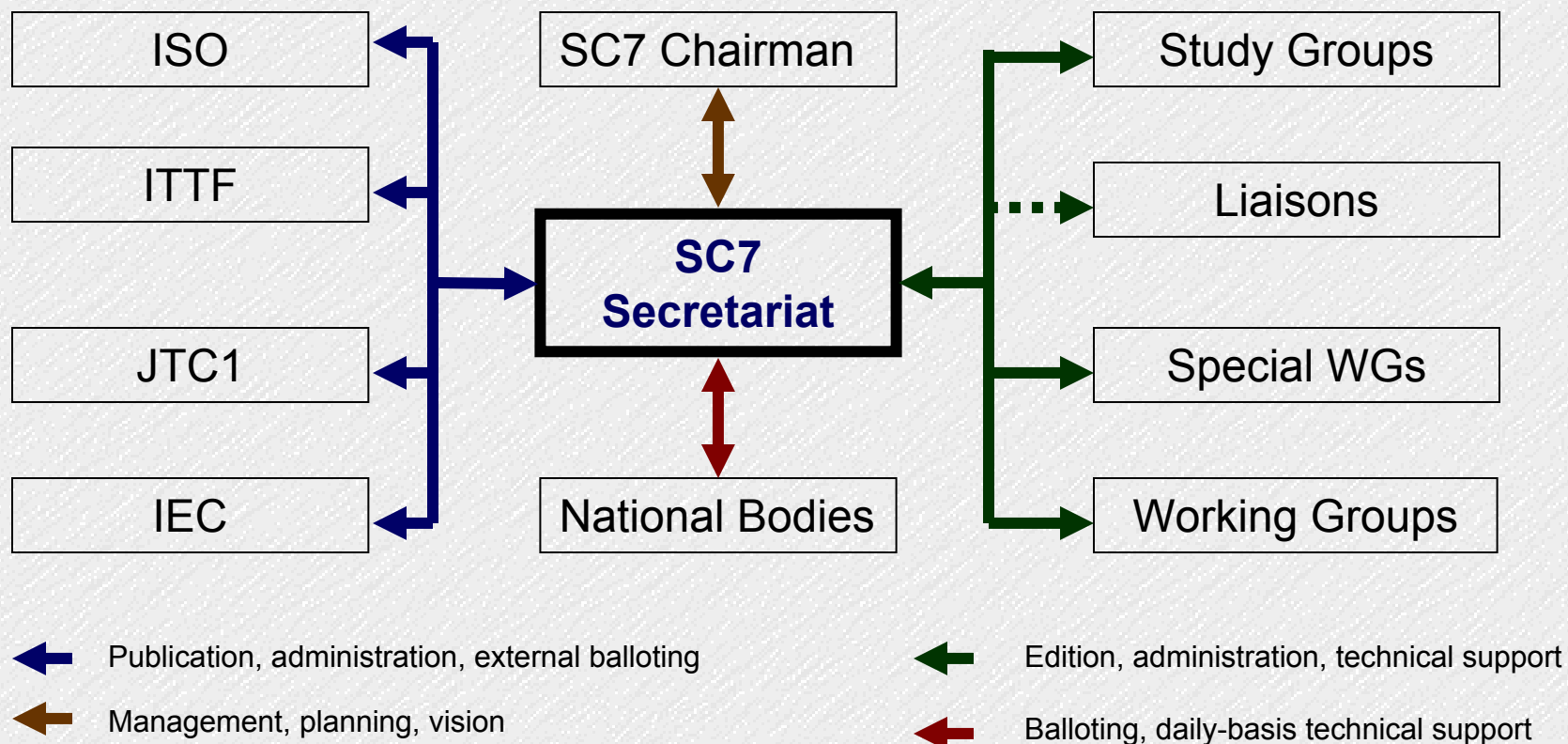
Working Group	Current Projects	NWI current or planned	Current PAS&FS	Active at the end of 2004 (projected)	Comments
2	3			0	
4	4			2	
6	5			4	
7	2	3	1	3	Revision and harmonization of 12207 and 15288
9	1		1	2	
10	2	1		1	Study Group
12	1	1		2	
19	2		1	2	
20	1			0	
21	1			1	
22	1			1	

Standards that will come in Maintenance

(with no planned activities yet)

- 8807:1989 – LOTOS
- 11411:1995 Representation of state transition
- TR 12182:1998 – Categorisation of Software
- 13235-1 to 3:1998-x ODP Trading Function
- 14568:1997 – DXL
- ISO/IEC TR 15846:1998 Information technology -- Software life cycle processes -- Configuration Management
- ISO/IEC TR 14759:1999 Software engineering -- Mock up and prototype -- A categorization of software mock up and prototype models and their use
- ISO/IEC 14756:1999 Information technology -- Measurement and rating of performance of computer-based software systems
- ISO 5806:1984 Information processing -- Specification of single-hit decision tables
- ISO 5807:1985 Information processing – Documentation symbols and conventions for data, program and system flowcharts, program network charts and system resources charts
- ISO 6593:1985 Information processing -- Program flow for processing sequential files in terms of record groups
- ISO/IEC 8631:1989 Information technology – Program constructs and conventions for their representation
- ISO 8790:1987 Information processing systems -- Computer system configuration diagram symbols and conventions
- ISO/IEC 14598-1:1999 Information technology -- Software product evaluation -- Part 1: General overview
- ISO/IEC 14598-4:1999 Software engineering – Product evaluation -- Part 4: Process for acquirers

Secretariat responsibilities



Secretariat performance

- **Taken over in October 2003 (by a relative novice)**
- **Only few rules existing and even less obeyed (ex: ISO Directives or comment template)**
- **Between 10.2003 and 05.2004:**
 - **Over 150 documents filtered, circulated and posted**
 - **Hundreds of e-mails received and responded**
 - **Several potentially serious conflicts solved (and some not)**
 - **Some new recommendations proposed and de-facto accepted (ex: WD circulation mechanisms, changes in Web site structure etc.)**
 - **Other recommendations to be presented and proposed**
- **General evaluation: C+. Reasons?**
 - **Novelty of the job**
 - **Missing basic ground rules**
 - **Emerging nature of SC7 working area**

Part 2: Future activities of SC7 secretariat

● **Agenda**

- **Existing regulations, rules and patterns**
- **Voting – formats, discipline, validity**
- **Quality of documents**
- **Study and Ad Hoc Groups**
- **Working with ITTF/ISO**
- **SC7 Web site**
- **SC7 Secretariat availability**

Existing regulations, rules and patterns

- **ISO/IEC JTC1 Directives, 5th edition, Feb 2004**
 - The latest version to be used
 - Should be observed by all editors (not a case now)
- **Excel Comment Template – used in 50-60% of sent comments at best, often without a **vote indication****
- **JTC 1 “2/5 rule”**
 - projects which have **not moved for the last two (2) years** will be automatically cancelled (instead of three years),
 - projects which have **not reached the publication stage after five (5) years** will be automatically cancelled (instead of 7 years)
- **The above three items make the basis for SC7 quality of production and should be automatically observed by all members**

Voting – formats, discipline, validity

- **Vote format**
 - 27 “P” members are able to submit their votes in 35 different formats
- **SC7 Secretariat *would* recommend the following format for documents under edition (CD, FCD etc.) :**

- ◆ E-mail in **.TXT** format only
- ◆ The SUBJECT line of the email to contain:

VOTE N xxxx - title and stage of the document - country name - position

EXAMPLE

Subject: Vote N2983-CD25021-measurement primitives-Canada NO with comments

- ◆ with the attached comments – if required – using the Excel template ONLY, titled as follows

N xxxx - title and stage of the document - country name - Comments

EXAMPLE

N2983-CD25021-measurement primitives-Canada Comments

Voting – formats, discipline, validity

Comments

Balloted document: ISO/IEC JTC 1/SC 7 N2976 CD 25020.2

Vote: **Approve, Disapprove, Abstain**
 (please choose ONE ONLY)

NB	No.	Cat	Clause, Sub-clause	Paragraph, Figure, Table	Comment and rationale	Proposed new text
NB	1	GT	6.1		<p>This clause includes requirements which are presented as a subset of requirements in 25030 and 2504n, respectively. Repeating some (but not all) requirements from other standards may cause usability problems. For example, it is possible to comply with 25020 with respect to quality requirements without complying with 25030 since 25030 is not a normative reference. Another problem with the approach is that there may quickly appear inconsistencies between 25020 and 25030 and 2504n when one of them are updated.</p>	<p>Suggested change: Remove requirements in this clause and mare normative references to 25030 and 2504n.</p>

Voting – formats, discipline, validity

● SC7 Secretariat *would* recommend the following format for NWI :

- ◆ E-mail in **.TXT** format only
- ◆ The SUBJECT line of the email to contain:

**VOTE Nxxxx-title and stage of the document-country name-Q1,Q2,Q3,Q4,Q5,Q6
or YES/NO**

EXAMPLE

Subject: Vote N2954-NWI Requirement Engineering Tool Requirements-Canada YYY NNN

- ◆ with the comments inside the e-mail body text, especially if Q1 is NO and Q4 is YES

Voting – formats, discipline, validity

- **Discipline:**
 - 10-15% votes sent “five to midnight”
 - 4-7% votes sent “after midnight”, sometimes with serious delays
 - 10-12% require confirmation of the reception
- **Validity** (a ballot is invalid if less than 50% of votes are cast, so minimum is 14 votes)
 - 2003-2004 voting statistics
 - ◆ min=12, max=22, average=16
 - ◆ 5 ballots below validity level
- **Submission security.** Due to SPAM and viruses please **require confirmation of the reception**

Quality of documents

- **Quality:**
 - From very professional to unacceptable
 - With too differentiated level of English
 - Too often with no regard to ISO Directives
- **To ensure better and stabilized quality of edited documents SC7 Secretariat *would* recommend:**
 - Every WG should have latest version of ISO/IEC JTC1 Directives at hand during documents' edition
 - Every edited document should have at least one native English speaker in editing body
 - The documents should be released to the secretariat only with prior acceptance of the Working Group Convener
- **Please take into account that the circulation of app. 300 documents per year makes impossible for SC7 Secretariat to read all of them.**

Study and Ad Hoc Groups

- **Please remember the following:**
 - **SG or Ad Hoc lives from plenary to plenary**
 - **The only product is the report and the effectiveness of the SG/AH is measured by its quality**
 - **The reports should be submitted to SC7 Secretariat early enough to be published and analyzed *before* plenary**
 - **If the report is accepted during plenary - SG/AH dies**
 - **The report is a *document* that should follow the basic good practices of redaction and editing**
- **There are still SG reports missing (as of 22nd of April 2004)**

Working with ITTF/ISO

- **The common objective – PUBLICATION...**
- **SC7 editors work with ISO editors but..**
 - **There is neither a process nor rules for this cooperation**
 - **There is no visible intent on ISO side to establish such rules**
- **SC7 Secretariat *would* recommend the following:**
 - **Whenever the ISO-SC7 editors' cooperation starts the Secretariat opens the direct communication channel between the parties (to avoid a middleman)**
 - **All info exchange should be executed directly between parties but with Secretariat kept in cc: for the case of situations requiring Secretariat's involvement**

SC7 Web site

- **SC7 Web site evolves continuously**
- **The recent improvements are:**
 - **Enhanced “Ballots” section that contains now also WD circulation option**
 - **More information in “Meetings” section**
- **Next to come:**
 - **“Search” motor**
 - **New sub-section in “Ballots” that will show IEC balloting**
 - **ISO Standard Development Life Cycle (in “Procedures and Forms” section)**
 - ***Possibly a dedicated section for documents that temporarily require the special visibility or treatment***

SC7 Secretariat availability

- **By e-mail**

- secretariat@jtc1-sc7.org

- wsuryn@ele.etsmtl.ca

- **By phone:**

- (+1) 514 396 8652 (École de technologie supérieure)

- **5 days a week with some time for vacations, (mostly in summer) and work (all the rest of the year)**