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JTC 1 N 5747

BUSINESS PLAN for ISO/IEC JTC 1
The International Technical Committee for Information Technology Standards

Period Covered: June 1998 - January 1999

Submitted by:	Thomas Frost	Chairman
	Lisa Rajchel	Secretariat

1. Management Summary

JTC 1 is a joint technical committee set up by the international standards bodies ISO and IEC, to ensure that JTC 1 shall be the international focal point for the IT standards.

1.1 Statement of Scope

International standardization in the field of Information Technology

Note: Information Technology includes the specification, design and development of systems and tools dealing with the capture, representation, processing, security, transfer, interchange, presentation, management, organization, storage and retrieval of information.

1.2 Project Report

See individual Subcommittee reports

1.3 Cooperation with Other Organizations

JTC 1 makes a concerted effort to work with ISO/IEC TCs as well as industry consortia and forums. There are several mechanisms that are available and have been used to encourage these relationships. These include formal liaisons, collaborative agreements, memorandums of understanding, the fast track process and the PAS process. In addition, JTC 1 Subcommittees maintain formal liaisons with over (TBD) other organizations, such as the IETF. Eight organizations have been approved as PAS Submitters. Collaborative agreements have also been utilized for joint work with the VRML and World Wide Web (W3C) consortia.

2. Period Review

JTC 1 has completed its major reengineering effort which has resulted in an even greater streamlined, business oriented organization. This reorganization has defined and implemented technical directions which include the establishment of new technical committees, including SC 34, Document Description and Processing Languages, and SC 35, User Interfaces.

The new operational tool of Business Teams is proving to be productive. The Electronic Commerce Business Team and the Imaging and Graphics Business Team have successfully completed their work.

The trial of the Publicly Available Specifications (PAS) process ended in December 1998. Based on experiences gained in this trial, JTC 1 has revised this process. The first standard from this process has been approved and others are currently under ballot.

JTC 1 is continuing the implementation of electronic methods of operation. During this period, JTC 1 completed a trial of electronic balloting and all working levels have implemented these methods of operation.

2.1 Market Requirements

From a JTC 1 perspective, the market requirements can only be stated in a generic fashion. Market trends indicate a requirement for standards that can be produced rapidly, with a business-like approach and widely disseminated. As "hot" technologies develop, JTC 1 must be able to accommodate these and produce the international standards. The SC business plans should supplement and support these while providing technology specifics. Major standards bodies are addressing the standardization needs for a seamless, secure global electronic commerce. JTC 1 (its SC's) must be able to analyze these requirements and determine what new projects must be initiated to ensure that these needs are fulfilled. The real determinant of success is the implementation of JTC 1 standards in products.

2.2 Achievements

During the period the following major accomplishments were achieved:

2.2.1 JTC 1 completed processing and forwarded ninety-five (95) standards for publication (See Attachment 1).

2.2.2 JTC 1 agreed upon the composition of a new Technical Direction, Cultural and Linguistic Adaptability and User Interfaces, and approved its future working method at the January 1999 JTC 1 Plenary.

2.2.3 The Business Teams on Electronic Commerce and Imaging and Graphics have successfully completed their work and produced comprehensive reports.

2.2.4 JTC 1 made considerable progress in its strategy for implementing Information Technology. The JTC 1 web site is fully operational with links to SC web sites. All JTC 1 documents with rare exceptions are distributed via the web. JTC 1 performed a trial of electronic balloting and is proceeding with implementation. JTC 1 also investigated electronic collaboration (the use of computing tools across a publicly available network to allow individuals in widely distributed locations and time zones to mutually participate in the development of documents and other standards-related material) and will await further input on the use of this evolving technology. JTC 1 also established a Rapporteur Group to guide the ongoing implementation of IT and established formal representation to ISO/IEC/ITU ITSIG.

2.2.5 JTC 1 reallocated the program of work of Subcommittee 33. As a result, JTC 1 was able to disband this subcommittee.

2.3 Resources

Resource availability and commitment continue to be of concern. However, for projects perceived to be truly market relevant, resources are readily available for the development work. Where a project has a questionable level of resource, other development mechanisms must be considered and the project canceled if appropriate.

3. Next Work Period Focus

For the next period (February 1999 - October 1999) the focus is on continuing to identify and initiate market-relevant projects and meeting delivery dates for standards in progress.

3.1 Deliverables

- New Work Item Proposals from to address needs identified by the Business Teams (National Bodies and Subcommittees)
- Initiation of operations for new Subcommittees 34 and 35 (SC 34 and SC 35)
- A concentrated public relations and marketing effort for JTC 1 (Chairman, Secretariat, National Bodies and Subcommittees)
- Implementation of electronic balloting (Secretariat and National Bodies)
- Standards as identified in Attachment 2 (Subcommittees)
- Successful transposition of new PAS submissions (National Bodies and PAS Submitters)
- Successful processing of fast-tracked standards (National Bodies and Subcommittees)
- Investigating metrics to evaluate the market relevance of JTC 1's standards (National Bodies and Subcommittees)

3.2 Strategies

Other standards bodies, consortia and forums are also developing Information Technology standards. JTC 1 must effectively produce standards within its scope, attract new work, cooperate with its partnering organizations and collaborate with other organizations, as appropriate, to produce standards to meet the needs of industry and users. JTC 1 has particular value for consortia who decide that their specifications would be more valuable if they were rapidly transposed into formal, international JTC 1 standards. JTC 1 needs to specifically promote the PAS process with its authorized submitters to better assess the value of the PAS process while at the same time producing new international standards.

3.2.1 Risks

If development times within JTC 1 are perceived as too long, potential participants in JTC 1 processes will take their needs to other organizations in an attempt to develop standards in a more timely manner.

3.2.2 Opportunities

In a high technology field, there always exist many new opportunities. JTC 1 must be alert to new technologies ripe for standardization and find the right mechanisms for bringing them into JTC 1.

3.3 Work Program Priorities

JTC 1 should continue to ensure that non-market-relevant projects be dropped from the work program. Work programs should be evaluated regularly by all SCs and action taken to revise and reprioritize the program as appropriate.

Attachment 1

New Standards Published (by ISO Designation)

- ISO/IEC 6523-1 - Structure for the identification of organizations and organization parts -- Part 1: Identification of organization identification schemes
- ISO/IEC 6523-2 - Structure for the identification of organizations and organization parts -- Part 2: Registration of organization identification schemes
- ISO/IEC 7816-1 - Identification cards - Integrated circuit(s) cards with contacts - Part 1: Physical characteristics
- IOS/IEC 7942-3 - Computer graphics and image processing -- Graphical Kernel System (GKS) -- Part 3: Audit trail
- ISO/IEC 7942-4 - Computer graphics and image processing - Graphical Kernel System (GKS) - Part 4: Picture Part archive
- ISO/IEC 8802 - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 12: Demand-Priority access method, physical layer and repeater specifications
- ISO/IEC 8859-4 - 8-bit single-byte coded graphic character sets -- Part 4: Latin alphabet No. 4
- ISO/IEC 8859-13 - 8-bit single-byte coded graphic character sets - Part 13: Latin alphabet No. 7
- ISO/IEC 8859-14 - 8-bit single-byte coded graphic character sets - Part 14: Latin alphabet No. 8 (Celtic)
- ISO/IEC 9314-6 - Fibre Distributed Data Interface (FDDI) - Part 6: Station Management (SMT)
- ISO/IEC 9314-7 - Fibre Distributed Data Interface (FDDI) - Part 7: Physical layer Protocol (PHY-2)
- ISO/IEC 9314-8 - Fibre Distributed Data Interface (FDDI) - Part 8: Media Access Control-2 (MAC-2)
- ISO/IEC 9314-13 - Fibre Distributed Data Interface (FDDI) - Part 13 - Conformance Test Protocol Implementation Conformance Statement (CT-PICS) Proforma
- ISO/IEC 9314-25 - Fibre Distributed Data Interface (FDDI) -- Part 25: Abstract test suite for FDDI - Station Management Conformance Testing (SMT-ATS)
- ISO/IEC 9834-7 - Open Systems Interconnection - Procedures for the operation of OSI Registration Authorities: Assignment of international names for use in specific contexts
- ISO/IEC 10021-10 - Message Handling Systems (MHS) - Part 10: MHS routing
- ISO/IEC 10026-5 - Open Systems Interconnection -- Distributed Transaction Processing -- Part 5: Application context proforma and guidelines when using OSI TP
- ISO/IEC 10118-3 - Security techniques - Hash-functions - Part 3: Dedicated hash-functions
- ISO/IEC 10118-4 - Security techniques - Hash-functions - Part 4: Hash-functions using modular arithmetic
- ISO/IEC 10164-19 - Open Systems Interconnection - Systems Management: Management domain and management policy management function - Part 19:
- ISO/IEC 10164-21 - Open Systems Interconnection - Systems Management: - Part 21:
- ISO/IEC 10373-1 - Identification cards - Test methods - Part 1: General characteristics tests
- ISO/IEC 10373-2 - Identification cards - Test methods - Part 2: Cards with magnetic stripes
- ISO/IEC 10373-5 - Identification cards - Test methods - Part 5: Optical memory cards
- ISO/IEC 10514-2 - Programming languages - Part 2: Generics Modula 2
- ISO/IEC 10514-3 - programming languages - Part 3: Object Oriented Modula 2
- ISO/IEC 10746-1 - Open Distributed Processing - Reference model: Overview - Part 1:
- ISO/IEC 10746-4 - Open Distributed Processing - Reference Model: Architectural semantics - Part 4:
- ISO/IEC 11581-6 - User system interfaces and symbols - Icon symbols and functions - Part 6: Action icons
- ISO/IEC 12087-5 - Computer graphics and image processing - Image Processing and Interchange (IPI) - Functional specification - Part 5: Basis Image Interchange Format (BIIF)
- ISO/IEC 13235 - Open Distributed Processing - Trading function: Specification: Part 1
- ISO/IEC 13235-3 - Open Distributed Processing - Trading Function - Part 3: Provision of Trading Function using OSI Directory service
- ISO/IEC 13236 - Quality of service: Framework
- ISO/IEC 13238-3 - Data Management -- Part 3: IRDS export/import facility
- ISO/IEC 13244 - Open Distributed Management Architecture
- ISO/IEC 13248 -1 - Open Systems Interconnection - The Directory - Protocol Implementation Conformance Statement (PICS) proforma for the Directory Access Protocol - Part 1
- ISO/IEC 13248 -2 - Open Systems Interconnection - The Directory - Protocol Implementation Conformance Statement (PICS) proforma for the Directory System Protocol - Part 2
- ISO/IEC 13248 -3 - Open Systems Interconnection - The Directory - Protocol Implementation Conformance Statement (PICS) proforma for the Directory operational Binding Management Protocol - Part 3
- ISO/IEC 13248 -4 - Open Systems Interconnection - The Directory - Protocol Implementation Conformance Statement (PICS) proforma for the Directory Information Shadowing Protocol - Part 4
- ISO/IEC 13522-6 - Coding of multimedia and hypermedia information - Part 6: Support for enhanced interactive applications

- ISO/IEC 13719-4 - Portable Common Tool Environment (PCTE) - Part 4: IDL binding (interface Definition Language)
- ISO/IEC 13813 - Programming languages - Generic packages of real and complex type declarations and basic operations for Ada (including vector and matrix types)
- ISO/IEC 13818-4 - Generic coding of moving pictures and associated audio information - Part 4: Conformance testing
- ISO/IEC 13818-6 - Generic coding of moving pictures and associated audio information - Part 6: Extensions for DSM-CC
- ISO/IEC 14474 - Telecommunications and information exchange between systems - Private Integrated Services Network - Functional requirements for static circuit-mode inter-PINX connections
- ISO/IEC 14478-1 - Computer graphics and image processing -- Presentation Environment for Multimedia Objects (PREMO) -- Part 1: Fundamentals of PREMO
- ISO/IEC 14478-2 - Computer graphics and image processing -- Presentation Environment for Multimedia Objects (PREMO) -- Part 2: Foundation Component
- ISO/IEC 14478-3 - Computer graphics and image processing -- Presentation Environment for Multimedia Objects (PREMO) -- Part 3: Multimedia Systems Services
- ISO/IEC 14478-4 - Computer graphics and image processing -- Presentation Environment for Multimedia Objects (PREMO) -- Part 4: Modelling, rendering and interaction component
- ISO/IEC 14545 - Office equipment -- Method for measuring copying machine productivity
- ISO/IEC 14882 - Programming Language - C++
- ISO/IEC 14888-1 - Security techniques -- Digital signatures with appendix -- Part 1: General
- ISO/IEC 14888-3 - Security techniques -- Digital signatures with appendix -- Part 3: Certificate-based mechanisms
- ISO/IEC 15026 - System and software integrity levels
- ISO/IEC 15718 - Data interchange on 8 mm wide magnetic tape cartridge - Helical scan recording - HH-1 format
- ISO/IEC 15757 - Data interchange on 8 mm wide magnetic tape cartridge - Helical scan recording - DA-2 format
- ISO/IEC 15771 - Telecommunications and information exchange between systems - Private Integrated Services Network - Specification, functional model and information flows - Common information additional network feature
- ISO/IEC 15772 - Telecommunications and information exchange between systems - Private Integrated Services Network - Inter-exchange signalling protocol - Common information additional network feature
- ISO/IEC 15773 - Telecommunications and information exchange between systems - Broadband Private Integrated Services Network - Inter-exchange signaling protocol - Transit counter additional network feature
- ISO/IEC 15802-3 - Telecommunications and information exchange between systems - Local and metropolitan area networks - Common specifications - Part 3: Media Access Control (MAC) Bridges
- ISO/IEC 15898 - Data interchange on 356 mm optical disk cartridges - WORM, using phase change technology - Capacity: 14,8 Gbytes and 25 Gbytes per cartridge
- ISO/IEC 15899 - Telecommunications and information exchange between systems - Broadband Private Integrated Services Network - Service description - Broadband connection oriented bearer services
- ISO/IEC 15991 - Telecommunications and information exchange between systems - Private Integrated Services Network - Specification, functional model and information flows - Call priority interruption and call priority interruption protection supplementary services
- ISO/IEC 15992 - Telecommunications and information exchange between systems Private Integrated Services Network - Inter-exchange signalling protocol - Call priority interruption and call priority interruption protection supplementary services
- ISO/IEC 16262 - ECMAScript language specification

Revisions Published (by ISO Designation)

- ISO/IEC 2382-8 - Vocabulary - Part 8: Security
- ISO/IEC 8473-1 - Open Systems Interconnection - protocol for providing the connectionless-mode network service: Protocol specification - Part 1
- ISO/IEC 8802-5 - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 5: Token ring access method and physical layer specifications
- ISO/IEC 8859-2 - 8-bit single-byte coded graphic character sets - Part 2: Latin alphabet No. 2
- ISO/IEC 8859-3 - 8-bit single-byte coded graphic character sets - Part 2: Latin alphabet No. 3
- ISO/IEC 8859-5 - 8-bit single-byte coded graphic character sets - Part 5
- ISO/IEC 8859-6 - 8-bit single-byte coded graphic character sets - Part 6: Latin/Arabic alphabet
- ISO/IEC 8859-8 - 8-bit single-byte coded graphic character sets - Part 8: Latin/Hebrew alphabet
- ISO/IEC 8859-9 - 8-bit single-byte coded graphic character sets - Part 2: Latin alphabet No. 5
- ISO/IEC 9496 - CCITT high level language (CHILL)

- ISO/IEC 9595 - Open Systems Interconnection - Common management information service
- ISO/IEC 9596-1 - Open Systems Interconnection - Common management information protocol - Part 1: Specification
- ISO/IEC 9646-3 - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: the Tree and Tabular Combined Notation (TTCN)
- ISO/IEC 9798-3 - Security techniques - Entity authentication - Part 3: Mechanisms using digital signature techniques
- ISO/IEC 9804 - Open Systems Interconnection - Service Definition for the Commitment, Concurrency and Recovery service element
- ISO/IEC 9805-1 - Open Systems Interconnection - Protocol for the Commitment, Concurrency and Recovery service element: Protocol specification - Part 1
- ISO/IEC 9834-3 - Open Systems Interconnection - Procedures for the operation of OSI Registration Authorities - Registration of values of RH-name-tree components for joint ISO and ITU-T use - Part 3
- ISO/IEC 10026-1 - Open Systems Interconnection - Distributed Transaction Processing - Part 1: OSI TP Model
- ISO/IEC 10026-2 - Open Systems Interconnection - Distributed Transaction Processing - Part 2: OSI TP Service
- ISO/IEC 10026-3 - Open Systems Interconnection - Distributed Transaction Processing - part 3: Protocol Specification
- ISO/IEC 10040 - Open Systems Interconnection - Systems management overview
- ISO/IEC 10173 - telecommunications and information exchange between systems - Interface connector and contact assignments for ISDN primary rate access connector located at reference points S and T
- ISO/IEC 10733 - Elements of management information related to the OSI Network Layer
- ISO/IEC 10737 - Elements of management information related to the OSI Transport Layer
- ISO/IEC 11571 - Telecommunication and information exchange between systems - Private Integrated Services Networks - Addressing
- ISO/IEC 13719-1 - Portable Common Tool Environment (PCTE) - Part 1: Abstract Notation
- ISO/IEC 13719-2 - Portable Common Tool Environment (PCTE) - Part 2: C programming language
- ISO/IEC 13719-3 - Portable Common Tool Environment (PCTE) - Part 3: Ada programming language binding
- ISO/IEC 13863 - Telecommunications and information exchange between systems - Private Integrated Services Network - Specification, functional model and information flows - Path replacement additional network feature
- ISO/IEC 13874 - Telecommunications and information exchange between systems - Private Integrated Services Network - Inter-exchange signalling protocol - Path replacement additional network feature

Subcommittee Deliverables

SC 2

- IS publication of ISO/IEC_10646-1/Amd 17: CJK Unified Ideographs Extension
- IS publication of ISO/IEC_10646-1/Amd 18: Symbols and Others
- IS publication of ISO/IEC_10646-1/Amd 21: Sinhala
- IS publication of ISO/IEC_8859 Part 15: Latin 9
- IS publication of ISO/IEC_8859 Part 15: Latin 9

SC 6

- Initiate standardization of Virtual LAN protocols to enable QoS in LANs.
- Completion of 100 Mbps CSMA/CD standard and initiation of 1Gbps CSMA/CD standard.
- Completion of Wireless Terminal Mobility for ISDN private networks.
- Continued development of ECTS/ECTP providing reliable multicast and QoS negotiation.
- Initiate standardization in PISN internet telephony interactions.
- Complete amendments to MHS/Directory/ASN.1.

SC 7

The following, have a high probability of being completed before the end of 1999:

- DTR 15504-5: Software Engineering - Process Assessment Part 5: An Assessment Model And Indicator Guidance.
- FCD 14598-2: Software Engineering - Product Evaluation - Part 2: Planning and management.
- FCD 9126-1 Software Engineering - Quality characteristics and metrics - Part 1: Quality characteristics and sub-characteristics.
- FCD 14598-3: Software Engineering - Product evaluation - Part 3: Process for developers.
- FCD 15474-1: Software Engineering - CDIF Framework - Part 1: Overview.
- FCD 15474-2: Software Engineering - CDIF Framework - Part 2: Modeling and Extensibility
- FCD 15475-1 Software Engineering - CDIF Transfer Format - Part 1: General Rules for Syntaxes and Encodings.
- FCD 15475-2: Software Engineering - CDIF Data Definition and Interchange - Transfer Format - Part 2: Syntax SYNTAX.1
- FCD 15475-3: Software Engineering - CDIF Transfer Format - Part 3: Encoding ENCODING.1
- FCD 15476-1: Software Engineering - CDIF Semantic Metamodel - Part 1: Foundation
- FCD 15476-2: Software Engineering - CDIF Semantic Metamodel - Part 2: Common
- FCD 15476-4: Software Engineering - CDIF Semantic Meta-model - Part 4: Data Models.
- FCD 15476-5: Software Engineering - CDIF Semantic Meta-model - Part 5: Data Flow Models.
- FCD15910 Software Engineering - User Documentation Process.
- FCD 15437: Information technology - Enhancements to LOTOS (E-LOTOS)
- FCD15909 Software Engineering - High-level Petri Nets - Concepts, Definitions and

Graphical Notation.

- FCD 9126-1.2 Software Engineering - Product quality - Part 1: Quality model.
- FCD 14753 - Information Technology - Open Distributed Processing - Interface references and Binding.
- FCD 14764: Software Engineering - Software Maintenance.
- FCD 14752 - Information Technology - Open Distributed Processing - Protocol support for computational interactions.

SC 11

- 3,81 mm magnetic tape cartridges
DDS-4 DIS July 1999
- 8mm magnetic tape cartridges
AIT-2 DIS December 1999
DA-3 DIS December 1999
- 12,7 mm magnetic tape cartridges
Magstar DIS January 1999
DLT-6 DIS December 1999

SC 17

WD	CD	FCD	FDIS	IS
7812-1	7501-1	7816-9	7816-10	7816-2
7812-2	7501-2	10373-4		7816-7
14443-4	7501-3	10536-1		7816-8
15693-4	7810) or all 3 parts	11693		10373-1
	7811) of 15457	11694-1		10373-2
	7813	11694-2		10373-5
	10373-3	14443-2		10536-4
	10373-6	14443-3		14443-1
	10373-7	15693-2		15693-1
	10536-4			
	15457-1) or 7810			
	15457-2) and			
	15457-3) 7811			
	15693-3			

SC 22

- **Ada:** Publication of DIS 13813 and DIS 13814 on Ada packages;
- **Ada:** Circulation and approval of FDIS 15291 ballot on Ada Semantic Interface Specification;
- **Ada:** Circulation of PDTR 15942 ballot on Guidance for the Use of Ada in High Integrity Systems;
- **Ada:** Circulation of NP ballot on Ada Conformity Assessment; if NP approved, circulation of CD registration and ballot;
- **APL:** Forwarding of final text for publication of IS 13751 on Extended APL;
- **APL:** Circulation of PDAM Registration ballots on Character Repertoire amendments to IS 8485 on APL and DIS 13751 on Extended APL;
- **C:** Resolution of comments on the CD ballot on the revision to IS 9899 on C and circulation of an FCD ballot;
- **C++:** Conclusion of FDIS 14882 ballot and forwarding of final text for publication;
- **COBOL:** Circulation of FCD ballot on revision to IS 1989:1985, COBOL;

- **Fortran:** Circulation of FCD ballot on revision to IS 1539-2, Fortran Part 2, Varying Length Character Strings;
- **Fortran:** Conclusion of FDIS 1539-3 ballot on Fortran Part 3, Conditional Compilation in Fortran and forwarding of final text for publication;
- **Fortran:** Publication of TR 15580, Type 2 Technical Report on Floating Point Exception Handling in Fortran;
- **Fortran:** Publication of TR 15581, Type 2 Technical Report on Enhanced Data Type Facilities in Fortran;
- **Internationalization:** Resolution of comments on Final CD 14651 ballot on International String Ordering and circulation of another FCD ballot;
- **Internationalization:** Resolution of comments on FCD 14652 ballot on Specification of Cultural Conventions and determination of need for another FCD ballot;
- **Internationalization:** Circulation of ballots for registration and CD 15435 on Internationalization API;
- **Language Independent:** Circulation of another CD ballot on Part 2 of IS 10967 on Language Independent Arithmetic: Elementary Numerical Functions;
- **Language Independent:** Circulation of DTR 14369 ballot on Language Independent Service Specifications (LISS);
- **Modula-2:** Publication of IS 10514 Part 2, Generics in Modula-2;
- **Modula-2:** Publication of IS 10514 Part 3, Object-oriented Modula-2;
- **M[UMPS]:** Forwarding of final text for publication of revision of IS 11756 on M[UMPS];
- **M[UMPS]:** Forwarding of final text for publication of IS 15851 ballot for Open MUMPS Interconnect;
- **M[UMPS]:** Forwarding of final text for publication of IS 15852 ballot for M Windowing API;
- **POSIX:** Forwarding of final text for publication of AM 4 to POSIX Part 1, IS 9945-1, on Protocol Independent Interfaces;
- **POSIX:** Circulation of ballot on PDAM 8 to POSIX Part 1, IS 9945-1, for realtime extensions;
- **POSIX:** Circulation of PDAM 2 ballot on additional utilities for IS 9945-2, Shell and Utilities for POSIX;
- **POSIX:** Forwarding of final text for publication of Part 3 to IS 15068, POSIX System Administration: User & Group Account Management;
- **POSIX:** Circulation of CD ballot on Part 4 to IS 15068 POSIX System Administration: Printing Interfaces;
- **POSIX:** Circulation of FDIS ballot for revision of IS 13210 on Requirements and Guidelines for Test Methods Specifications and Test Method Implementations for Measuring Conformance to POSIX Standards;
- **POSIX:** Forwarding of final text for publication of IS 14515-2, Test Methods for Measuring Conformance to POSIX - Part 2: Shell and Utilities;
- **POSIX:** Completion of FPDISP ballot and circulation of FDISP 15287.01 ballot on POSIX Supercomputing Applications Environment Profile;
- **POSIX:** Completion of FPDISP ballot and circulation of FDISP 15287.02 ballot on POSIX Real Time Application Support Profile;
- **Prolog:** Conclusion of Final CD Ballot on Part 2 of IS 13211 on Prolog and circulation of FDIS 13211-2;
- **Z Notation:** Circulation of a revised CD 13568 ballot on Z Notation.

SC 23

- IS publication of ISO/IEC.16448 : 120mm DVD-ROM (FTP)
- IS publication of ISO/IEC 16449 : 80mm DVD-ROM (FTP)

SC 24

Standard	Deliverable	Date
VRML 14772-1 Am 1	FCD	04/99
VRML 14772 Part 2 EAI	FCD	03/99
PNG 15948	IS	05/99
Registration Procedures 9973	Corrigenda; new class	03/99
CGM Republication 8632	IS	04/99
Imaging & Graphics Business Team	Final Report	01/99

SC 25

Not yet available

SC 26

A complete listing of the Projects and published Standards from JTC1/SC26 is now available on the "Work Items" page of the JTC1/SC26 Web site - URL:

<http://www.jnetcom.jeida.or.jp/members/jtc1sc26/>

The three approved Standards in process plus the Revision, as cited above are finally expected to be published during the beginning of the next Report Period, followed somewhat later by the two approved Fast Track standards.

It is not possible to specify other deliverables at this time. That subject will be addressed in the next JTC1/SC26 Report to JTC1.

SC 27

- ISO/IEC 9797-1: Message authentication codes (MACs)- Part 1: Mechanisms using a block cipher
- ISO/IEC 9798-2: Entity authentication - Part 2: Mechanisms using symmetric encipherment algorithms (2nd edition)
- ISO/IEC 10118-4: hash functions - Part 4: Hash-functions using modular arithmetic
- ISO/IEC 14888-1: Digital signatures with appendix - Part 1: General
- ISO/IEC 14888-2: Digital signatures with appendix - Part 2: identity-based mechanisms
- ISO/IEC 14888-3: Digital signatures with appendix - Part 3: Certificate-based mechanisms
- ISO/IEC 15408-1: Evaluation criteria for IT Security - Part 1: Introduction and general model

SC 28

- ISO/IEC 10561 - Method for measuring throughput -- Class 1 and Class 2 printers (Revision of ISO/IEC 10561:1991) - The final text was processed by ITTF
- ISO/IEC 14545 - Methods for measuring copying machines productivity - The final text was processed by ITTF
- ISO/IEC DIS 13660 - Measurement of image quality attributes for hardcopy output – Binary monochrome text and graphic images - The final text is ready for publication.
- ISO/IEC DIS 14473 Information technology -- Minimum information to be specified for Image Scanners - The final text was processed by ITTF
- ISO/IEC DIS 15404 - Facsimile equipment - The Ballot Resolution Process was completed, and the final text is ready for publication
- ISO/IEC DIS 15775 - Test chart for colour copying machines – Realisation and application The Ballot Resolution Process was completed, and the final text is ready for publication

The following table reflects the program priorities, as approved by the SC28 plenary of Buzios, Brazil. In view of the developments thereafter, as well as of the points made above, it may be necessary to review these priorities, and, in fact, all of the SC strategies, in Yokohama.

	Future Projects and Priorities	Project/ Study	Project Editor	Reference
1	Color Performance Profiles	P	Many Olds	N320
2	Color Devices' Test Chart			
2.1	Method for specifying image reproduction	P	Klaus Richter	N323
2.2	Method for optimizing image reproduction	P	Klaus Richter	N322
3	Image Quality Items			
3.1	Image Quality Measurement	S	Paul Spencer	N315
3.2	Banding	S	Paul Spencer	N316
4	IS 13660 Addendum (calibration)	P	Many Olds	N319
5	Reuse of Office Equipment	P	John Flannery / Jean Baronas	
6	Extension of 14473-2 – Minimum information about specification on Image Scanners	P	Wolfram Buchroth	N318
7	Office Equipment applicable for electronic commerce and payment	S	To be appointed	
8	Print Quality Requirements for Machine Readable Franking Marks	P	Claude Zeller (Cooperation with SC31)	N323

SC 29

- JTC 1.29.14 (15444) JPEG 2000 Image Coding System
It is expected to deliver a new still image coding standard which has a functionality to provide a fine granularity for coded image quality by using a proportional amount of information. This coding standard will be the next generation of JPEG which is widely used on the Internet world and implemented in digital cameras.
- JTC 1.29.13.01.01 (14496-1/AMD 1) Coding of audio-visual objects -- Part 1: Systems Amendment 1: Systems extensions
JTC 1.29.13.02.01 (14496-2/AMD 1) Coding of audio-visual objects -- Part 2: Visual Amendment 1: Visual extensions
JTC 1.29.13.03.01 (14496-3/AMD 1) Coding of audio-visual objects -- Part 3: Audio Amendment 1: Audio extensions
JTC 1.29.13.04.01 (14496-4/AMD 1) Coding of audio-visual objects -- Part 4: Conformance testing Amendment 1: Extensions to MPEG-4 conformance testing
JTC 1.29.13.05.01 (14496-5/AMD 1) Coding of audio-visual objects -- Part 5: Reference software Amendment 1: Reference software extensions
JTC 1.29.13.06.01 (14496-6/AMD 1) Coding of audio-visual objects -- Part 6: DSM-CC Multimedia Integration Framework (DMIF) Amendment 1: DMIF extensions
These series of extensions for 14496 (MPEG-4) will provide additional functionalities and capabilities to manipulate coded audio-visual objects in a scene.
- JTC 1.29.15 (15938) Multimedia content description interface
It is a new work item called MPEG-7 to provide a method for quickly and efficiently searching for various types of multimedia material interesting to the user. Moreover, MPEG-7 is not only enables this type of search, but also enables filtering. Thus, MPEG-7 will support both push and pull applications.
- JTC 1.29.14 (15444) JPEG 2000 Image Coding System CD in 1999-03

- JTC 1.29.13.01.01 (14496-1/AMD 1) to JTC 1.29.13.06.01 (14496-6/AMD 1) Coding of audio-visual objects -- Part 1 to Part 6/Amendment 1 CD in 1999-03
- JTC 1.29.15 (15938) Multimedia content description interface WD in 1999-12 JTC 1.29.15 (15938) Multimedia content description interface

SC 31

TITLE	EXPECTED STATUS AS OF 7/99
Bar Coding – Symbology Specification – Code 39	IS
Bar Coding - Symbology Specification – QR Code	FCD completed
Bar Coding - Symbology Specification - Interleaved 2-of-5	IS
Transfer Syntax for High Capacity ADC Media	DIS
Bar Coding - Symbology Specification - Code 128	DIS
Bar Coding - Symbology Specification - EAN/U.P.C.	DIS
Bar Coding - Symbology Identifiers	DIS
Bar Coding - Symbology Specification - PDF417	DIS
Bar Coding - Linear Bar Code Symbol Print Quality	FCD
Data Application Identifiers	DIS
Bar Coding – Digital Imaging and Printing Performance Testing	Committee Draft
Bar Coding - Test Specifications - Bar Code Verifiers: Part 1: Linear Bar Code Verifiers	FCD
Bar Coding - Test Specifications - Bar Code Scanners and Decoders: Part 1: Linear	FCD
Registration Authority for the Unique Identification of Transport Units (License Plate) represented in a Data Carrier	DIS

SC 32

Completion of Parts 1 and 2 of ISO/IEC 11179 is near

14.17.01.00.00

Information technology - Specification and standardization of data elements - Part 1: Framework for the specification and standardization of data elements

ISO/IEC CD 11179-1

Target Dates

FCD 1998.11

FDIS 1999.03

IS 1999.06

Completion of Part 3 of ISO/IEC 13238 is near:

58.03.00.00.00 Information Technology – Data Management Export/Import
Facilities – Part 3: Export/Import Facilities for IRDS
ISO/IEC DIS 13238-3.2

Target date

IS 98.07

The following two projects completed FCD balloting:

14.17.02.00.00 Information Technology - Specification and standardization of data
elements - Part 2: Classification for data elements

ISO/IEC FCD 11179-2

Target Dates

FDIS 1998.09

IS 1998.12

63.00.00.00.00 Information Technology - Conceptual Schema Modelling Facilities
ISO/IEC FCD 14481

Target Dates

FDIS 1999.05

IS 1999.08

The following project is completing FCD balloting:

03.04.03.00.00 Information Technology - Database Language SQL - Part 3: Call-
Level Interface (for SQL 3)

ISO/IEC FCD 9075-3

Target Dates:

FCD 1998.09

FDIS 1999.08

IS 1999.12

Major editing has been completed for the following four projects to complete the FCD processing.

03.04.01.00.00 Information Technology - Database Language SQL - Part 1:
Framework (for SQL 3)

ISO/IEC FCD 9075-1

Target Dates:

FDIS 1999.03

IS 1999.03

03.04.02.00.00 Information Technology - Database Language SQL - Part 2:
Foundation (for SQL 3)

ISO/IEC FCD 9075-2

Target Dates:

FDIS 1999.03

IS 1999.03

03.04.04.00.00

Information Technology - Database Language SQL - Part 4:
Persistent Stored Modules (for SQL 3)

ISO/IEC FCD 9075-4

Target Dates:

FDIS 1999.03

IS 1999.03

03.04.05.00.00

Information Technology - Database Language SQL - Part 5:
Language Bindings (for SQL 3)

ISO/IEC FCD 9075-5

Target Dates:

FDIS 1999.03

IS 1999.03

SC 34

As the SC34 Programme of Work indicates, we have several documents that are intended for completion in the new reporting period that begins with the May 1998 meeting. Amendments to HyTime and Fonts are nearing completion. SC34 needs to provide final text for TR9575-9, as well as for the older, and almost complete standards SMDL and SGML Conformance.

SC 35

- IS publication of ISO/IEC 14754 - Common gestures for pen-based systems
- FDIS for 15411 - Segmented keyboard layouts
- FDIS for 15412 - Keyboard layouts for portable computers
- All documents leading to amendment 1 for ISO/IEC 9995 part 2 and amendment 1 to ISO/IEC 9995 part 3
- IS publication of 11581 - Icon symbols and functions, part 1: Icons - general, part 2: Object icons, part 3: Pointer icons and part 6: action icons
- 1st CDs for 11581 - Icon symbols and functions, part 4: Control icons, and part 5: Tool icons
- CDV for ISO/IEC 13251 - Consolidated graphical symbols for office equipment