

(Draft copy updated 04/2002)

## **TMN documentation plan**

### **1 Scope**

This annex lists all the identified documents (Recommendation/Standards), including those in force (as documented on ITUDOC) and those under development or revision, applicable to the TMN project. Each document is described and classified according to one or more generic classifications, that are related to the TMN methodology. Where a document is dependent on the completion, or at least significant progress of another document within the plan, then this is also indicated. Dates shown are planned dates, however, where a status 4 document does not have a date, one should presume the document to be published.

### **2 Status**

Updated from information available from SG Work Programmes and liaisons to the February 2000 meeting of ITU-T SG4.

### **3 Maintenance of document information**

Review comments and additions to this plan should be sent to the editor for this document. Changes and enhancements should be shown in RED on a copy of the plan. Where a new document is to be added to the plan the full text to complete the table row should, as far as possible, be provided.

#### **Editor**

<b>ITU-T Rapporteur:</b>	Mr. G Caryer The Chestnuts Rose Hill, Grundisburgh, Suffolk, IP13 6TG United Kingdom	Tel: +44 1473 73 8108 Fax: Email: Geoff.Caryer@btinternet.com
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### **4 Notes for completing the table**

#### **4.1 Document status column**

The Document status column is used to identify how advanced the current study is. It captures the current state of completion of the document being described. States are represented as follows:

- 0 Document planned - an actual document does not exist.
- 1 Work underway; a paper available; but full draft text is not yet available.
- 2 Working Party draft text is available (i.e. delayed or temporary document status).
- 3 Draft Recommendation or Standard is available.
- 4 Standard or Recommendation is available (if a future date for publication is shown then it should be taken as an estimated one).
- 5 Standard or Recommendation is available, but a revised version is planned or in progress. In this case the revised version will be separately classified as either 0, 1, 2 or 3 if a document exists, otherwise left blank.

## 4.2 Document classification column

Each Recommendation/Standard is classified by the subject area of contribution it makes. Some documents will provide contributions to multiple areas. For these, all significant areas of contribution are shown in order of the magnitude of that contribution.

The areas are defined and denoted as follows:

- A Architecture;
- C Conformance requirements;
- E TMN management services;
- F Functional requirements and descriptions (protocol independent);
- H Helpful/tutorial information;
- I ISPs or implementation requirements;
- M Messages (specialized CMIP capabilities) (protocol specific);
- N Managed object naming and addressing;
- O Management information models and catalogue;
- P Protocols;
- R Registration procedures and guidelines; and
- S Specification methodologies.

## 4.3 Planned date for publication column

A "planned date for publication" is approximately three months after the final approval of an ITU-T Recommendation. This lapse of time may vary significantly due to factors outside the purview of the ITU-T Sector. The plan date is an estimate although in the case of status "3" may generally represent an accurate position.

## 4.4 Dependency column

This lists all the documents, generally draft Recommendations or Recommendations, that the subject document (i.e. the document in column 1) is dependent on for some aspect of specification. For example all documents, that specify management information are dependent on X.722 (GDMO). Information in the "Dependency" column has not been included in this issue, except for some M-series Recommendations.



Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
G.774.10	14/15	SDH Management of the MS Share Protection Ring (SPR) for the NE view	This Recommendation provides an information model for SDH MS SPRing protection information model	4	O		Kam Lam		
G.874	14/15	Management aspects of the Optical Transport Network Element	This Recommendation provides the management requirements for OTN NE	2	F	2001	Tobey Trygar		
G.874.1	14/15	Optical Transport Network: Protocol Neutral Information Model for NE view	This Recommendation provides the protocol neutral information model for managing OTN NE	1	O				
G.875	14/5	Optical Transport Network: Management Information model for NE view	This Recommendation provides the CMISE information model for managing OTN NE	2	O	2002	Tobey Trygar		

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
G.cemr	14/15	Common Equipment Management Requirements	This Recommendation provides the common management requirements for transport equipments	2	F	2001	Jos Schouten		
G.dcn	14/15	Architecture and Specification of DCN	This Recommendation provides the architecture requirement for an IP-based data communications network	2	A, F	2001	Carmine Daloia		
G.dcm	14/15	Distributed Connection Management	This Recommendation provides the requirements for the distributed connection management for both the UNI and NNI	2	F	2001	Zhi Wei Lin		
G.ndisc	14/15	Automatic Neighbor Discovery in ASON	This Recommendation provides the requirements for automatic neighbor discovery in automatically switched optical network	2	F	2001	Siva Sankaran arayanan		
G.sdisc	14/15	Automatic Service Discovery in ASON	This Recommendation provides the requirements for automatic service discovery in automatically switched optical network	2	F	2001	Siva Sankaran arayanan		
G.otncac	14/15	OTN Connection Admission Control		1	F				
G.otnrtg	14/15	OTN Routing		1	F				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
G.otnlm	14/15	OTN Link Management		1	F				
G.783	9/5	Characteristics of SDH equipment functional blocks		5, 0	F	2000			
G.geq	9/15	General Equipment requirements		2	F	2000			
G.705	9/15	PDH Equipment Requirements		3	F	2000			
G.798	9/15	OTN Equipment requirements		2	F	2001			
G.784	14/15	Synchronous Digital Hierarchy (SDH) Management	This Recommendation defines the management aspects of SDH NE	3	F				
I.752	14/15	Management Aspects of ATM Network Elements	This Recommendation provides the management requirements for the ATM NE	2	F				
G.841	9/15	SDH self healing rings		4	F				
G.842	9/15	SDH ring interworking		4	F				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
G.776.0	5/15	Managed Objects for Signal Processing Network Elements	This Recommendation identifies the information model for the operations and management of Signal Processing Network Elements (SPNE)	4	O	1998	Steven Phillips AT&T	COM T15-RC076, TD 59 (PLEN)	
G.776.02	5/15	Configuration Map Interface Format for DCME		1	O	2000	S. Phillips (AT&T)		
G.776.03	5/15	Configuration Map Report		3	O	2000	M. Lesham	TD 14(Rev.1)	
G.776.04	5/15	Management Architecture for Signal Processing Network Elements		1	A	2000	Steven Phillips AT&T		
G.776.5	5/15	Management Interfaces and Protocols for Signal Processing Network Elements		1	P	2001	Steven Phillips AT&T		
G.776.6	5/15	Managed Services and Functions for DCME		0	E	2001	S. Phillips (AT&T)		





Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
G.852.4	13/4	Enterprise viewpoint for Enhanced subnetwork connection configuration		1	F				
G.852.5	13/4	Enterprise viewpoint for multipoint subnetwork connection configuration		0	F				
G.852.6	13/4	Enterprise viewpoint for trail management (tm)		4	F				
G.852.7	13/4	Enterprise viewpoint for network level alarm management (am)		0	F				
G.852.8	13/4	Enterprise viewpoint for pre provisioned adaptation management (pam)		4	F				
G.852.9	13/4	Enterprise viewpoint for dynamic adaption management (dam)		0	F				
G.852.10	13/4	Enterprise viewpoint for pre provisioned link connection management (plcm)		4	F				
G.852.11	13/4	Enterprise viewpoint for dynamic link connection management (dlcm)		0	F				
G.852.12		Enterprise viewpoint for pre provisioned link management		4	F				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
G.852.13	13/4	Enterprise viewpoint for Dynamic Link management, dlm			F				
G.852.14	13/4	Enterprise viewpoint for protection management			F	2001	Arthur Foster Marconi Communications, UK		
G.852.15	13/4	Enterprise viewpoint for flexible subnetwork connection configuration			F				
G.852.16	13/4	Enterprise viewpoint for route discovery		4	F	2001	Terje Henriksen, Telenor, Norway	COM 4-20 + TD (51 Plen)	
G.852.17	13/4	Enterprise viewpoint for subnetwork connection endpoint exchange (bridge and roll)			F	2001	Andy Walsh, Telcordia, USA		
G.852.18	13/4	Enterprise viewpoint for monitored trail management			F	2001	Terje Henriksen, Telenor, Norway		
G.852.19	13/4	Enterprise viewpoint for partitioned topology management)			F	2001	Terje Henriksen, Telenor		
G.853.1	13/4	Common elements of the information viewpoint for the management of a transport network		5,2	O				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
G.853.2	13/4	Subnetwork connection management information viewpoint		3	O				
G.853.3	13/4	information viewpoint for Topology management		2	O				
G.853.4	13/4	information viewpoint for enhanced subnetwork connection configuration		1	O				
G.853.5	13/4	information viewpoint for multipoint subnetwork connection configuration msc		0	O				
G.853.6	13/4	information viewpoint for trail management		4	O				
G.853.7	13/4	information viewpoint for network level alarm management		0	O				
G.853.8	13/4	information viewpoint for pre-provisioned adaptation management		4	O				
G.853.9	13/4	information viewpoint for dynamic adaptation management		0	O				
G.853.10	13/4	information viewpoint for pre-provisioned link connection management		4	O				
G.853.11	13/4	information viewpoint		0	O				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		for dynamic link management							
G.853.12	13/4	information viewpoint for pre-provisioned link management		4	O	1999	Bernd Zeuner, German Telecom	TD87/4	
G.853.13	13/4	Information viewpoint for Dynamic Link management, dlm			O				
G.853.14	13/4	Information viewpoint for protection management			O	2001	Arthur Foster Marconi Communications, UK		
G.853.15	13/4	Information viewpoint for flexible subnetwork connection configuration			O	2001			
G.853.16	13/4	Information viewpoint for route discovery		4	O	2001	Terje Henriksen, Telenor, Norway	COM 4-2 + TD51 (Plen)	
G.853.17	13/4	Information viewpoint for subnetwork connection endpoint exchange (bridge and roll)			O	2001	Andy Walsh, Telcordia USA		
G.853.18	13/4	Information viewpoint for monitored trail management			O	2001	Terje Henriksen, Telenor, Norway		
G.853.19	13/4	Information viewpoint for partitioned			O	2001	Terje Henriksen,		

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		topology management)					Telenor		
G.854.1	13/4	Management of the Transport Network - computational interfaces for the basic transport network model		3	O				
G.854.3	13/4	Computational viewpoint for Topology management		4	O				
G.854.4	13/4	Computational viewpoint for enhanced subnetwork connection		1	O				
G.854.5	13/4	Computational viewpoint for multipoint subnetwork connection		0	O				
G.854.6	13/4	Computational viewpoint for trail management		4	O				
G.854.7	13/4	Computational viewpoint for network level alarm management		0	O				
G.854.8	13/4	Computational viewpoint for pre-provisioned adaptation management		4	O				
G.854.9	13/4	Computational viewpoint for dynamic adaptation		0	O				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		management							
G.854.10	13/4	Computational viewpoint for pre provisioned link connection management		4	O				
G.854.11	13/4	Computational viewpoint for dynamic link management		0	O				
G.854.12	13/4	Computational viewpoint for pre provisioned link management		4	O				
G.854.13	13/4	Computational viewpoint for Dynamic Link management, dlm			O				
G.854.14	13/4	Computational viewpoint for protection management			O	2001	Arthur Foster Marconi Communications, UK		
G.854.15	13/4	Computational viewpoint for flexible subnetwork connection configuration			O	2001			
G.854.16	13/4	Computational viewpoint for route discovery		4	O	2001	Terje Henriksen, Telenor, Norway	COM 4-3 + TD 51 (Plen)	
G.854.17	13/4	Computational viewpoint for subnetwork connection endpoint			O	2001	Andy Walsh, Telcordia USA		

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		exchange (bridge and roll)							
G.854.18	13/4	Computational viewpoint for monitored trail management				2001	Terje Henriksen, Telenor, Norway		
G.854.19	13/4	Computational viewpoint for partitioned topology management)				2001	Terje Henriksen, Telenor, Norway		
G.855.01	13/4	GDMO library		2	O				
G.ATMRA	23/4	ATM Network level requirements and analysis							
G.SDHRA	23/4	SDH Network level requirements and analysis							
G.803	23/13	Architecture of Transport networks based on SDH	This Recommendation will include a functional model, which will describe in a general way the architecture at transport networks based on SDH, and including the concepts of layering and partitioning. This material is important to SG 4 and SG 15 in defining the network aspects to be accommodated with information models.	5	A, TBD F				
G.831	19/13	Performance and Management capabilities of Transport Network Based on the SDH	This Recommendation will include the management goals of SDH networks and facilities that must be provided within such networks to achieve these goals, but does not concern itself with the structure of the management systems	5	F				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
			themselves. Path set-up performance and monitoring issues will also be included.						
G.805	23/13	Generic functional architecture of transport networks	Functional model that describes transmission networks.	4	A, F				
I.326	23/13	Functional architecture of Transport networks based on ATM	ATM specific aspects of transmission networks.	4	A, F				
G.ATA		Architecture of Transport networks in the access	Access application specific aspects of transport networks.		A, F				
I.731	10/15	Types and general characteristics of ATM equipment		5,1	F				
I.732	10/15	Functional characteristics of ATM equipment		5,1	F				
I.73ip	10/15	IP NE Functions and IP over ATM Mechanisms	This Recommendation provides information about IP NE functionality and IP over ATM mechanisms	1	A,F				
I.751 (G.atmm)	15/5	ATM Management	Q3 interface network element view.	4	F, O				
M.20		Maintenance Philosophy for Telecom networks	This Recommendation describes the maintenance philosophy for telecommunications networks. It also defines network maintenance phases, network supervision capabilities, and bringing into service requirements.	4	F				
M.21		Maintenance Philosophy for Telecast services	This Recommendation describes the maintenance philosophy for telecommunication services. It also defines service maintenance phases, service supervision	4	E				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
			capabilities and bringing into service requirements.						
M.60		TMN Terminology and Definitions	This Recommendation consists primarily of the terms and definitions that are considered essential to the understanding of the maintenance of networks and services.	5, 1	S				
M.560 to M.675 inclusive	2/4	Collection of existing non-TMN network maintenance Recommendations	Study of these Recommendations is associated with migration from a pre-TMN era to a TMN era. The following is an extract from the Q.18/4 workplan (ref. TD 68 JCG-TMN 1) and is associated with each of the existing Recommendations in the workplan: Information regarding TMN management services or management information <i>is to be</i> annexed to the revised Recommendation <i>and</i> will be the kernel to develop new Recommendations on TMN management services and management information. NOTE – The words in italics have been added by the JCG-TMN editor.	5, 0					
M.1400	2/4	Designations for Interconnections among Network Operators	Document reorganization and new title to be submitted to Alternative Approval Process in July 2001.	0	F	2001	P.Levine (Telcordia USA)		
M.1340	3/4	Performance objectives, allocations and limits for international data transmission links and systems, and				2002		published	

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		international leased circuits.							
M.1380	3/4	Bringing-into-service of international leased circuits that are supported by international data transmission systems.				2003		published	
M.1385	3/4	Maintenance of international leased circuits that are supported by international data transmission systems.				2003		published	
M.1301	3/4	General description and operational procedures for International SDH leased circuits				2003		published	
M.2100	3/4	Performance limits for bringing-into-service and maintenance of international PDH paths and multiplex sections				2002		published	
M.2101	3/4	Performance limits for bringing-into-service and maintenance of international SDH paths and multiplex sections				2002		published	
M.2102	3/4	Maintenance thresholds and procedures for recovery mechanisms (protection and restoration) of international SDH VC trails (paths) and multiplex sections				2003		published	
M.2110	3/4	Bringing-into-service procedures for digital				2002		published	

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		networks							
M.2120	3/4	PDH path, section and transmission system and SDH path and multiplex section fault detection and localization procedures				2002		published	
M.2130	3/4	Operational procedures for the maintenance of the transport network				2000		published	
M.2140	3/4	Transport network event correlation				2000		published	
M.2200	3/4	Principles of maintenance and relationship between PDH/SDH, ATM and IP network technology layers				TBD			
M.2201	3/4	Performance objectives, allocations and limits for bringing-into-service and maintenance of international ATM connections				2001		COM 4-24 & TD 89 (PLEN) & WD12 Mar 01	
M.23ip	3/4	Performance objectives, allocations and limits for provisioning and maintenance of IP-based networks				2002		COM 4-?? & WD15 Mar 01	
M.24otn	3/4	Performance objectives, allocations and limits for provisioning and maintenance of the OTN				2003		WD7 & WD17 Mar 01	
M.3208.4	3/4	TMN management services for bringing-into-service and				2002		COM 4-24	

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		maintenance of leased circuits and digital networks							
O.171	5/4	Jitter and wander measuring equipment for digital systems which are based on the Synchronous Digital hierarchy (SDH)	This Recommendation specifies instrumentation that is used to generate and measure jitter and wander in digital systems based on the SDH. Measurement requirements for both SDH line interfaces and SDH tributary interfaces operating at PDH bit rates are addressed in this Recommendation	4	F	2001	Dan Wolaver		
M.3101	3/4, 15/4	TMN Management information model for international telephone type circuit maintenance			O				
M.1380	8/4	Bringing-into-service of international leased circuits	Provides BIS procedures for international PDH leased circuits carried over PDH or SDH transport networks	5	F				
M.1385	8/4	Maintenance of international leased circuits	Provides Maintenance procedures for international PDH leased circuits carried over PDH or SDH transport networks	5	F				
M.13sdh	8/4	International synchronous digital leased circuits	Describes SDH and mixed PDH/SDH international leased circuits , BIS and Maintenance procedures	5	F				
M.13atm	8/4	BIS and Maintenance procedures for ATM		1	F	2002	Peter Hockett (TTC)		
M>13ip	8/4	BIS and Maintenance procedures for IP		1	F	2002	Peter Hockett (TTC)		
M.2140	9/4	Transport network		3	F				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		event correlation							
M.1520	9/4	Standardized Information Exchange between administrations	This Recommendation provides principles for the standardized exchange of information, defining a technique to be used for this purpose. This Recommendation is meant to be in the pre-TMN environment in order to adapt it to a structure applicable to the TMN. NOTE – To be extended in order to cover administrations' requirements on exchange of information via a pre-X interface (short/mid-term interface), to prepare a working basis for all activities related to the development of a standard X interface.	5, 0	F				
M.1530	9/4	Network maintenance Information		5, 4	F				
M.1532	9/4	Network Maintenance Service Performance Agreement (MSPA)		5	F				
M.1535	9/4	Principles for maintenance information to be exchanged at customer contact point (MICC)		5	F				
M.1537	9/4	Definition of maintenance information to be exchanged at the customer contact point (MICC)		5	F		A Neri (Telecom Italia)		
M.1539	9/4	Management of the grade of network		5	F		A Ner (Telecom	TD84 (GEN)	

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		maintenance services at the Maintenance Service Customer Contact point (MSCC)					Italia)		
M.3000	7/4	Overview of TMN Recommendations	This Recommendation lists the total series of M.3000 Recommendations on TMN and guides the reader to the appropriate material. A list is given of other standard documents that may have an impact in this area. A brief explanation of the TMN and its interaction with the rest of the telecommunications network is given.	4	H				
M.3010	7/4	Principles for a Telecommunications Management Network	General Principles for planning operating and maintaining a TMN. Uses OSI management concepts, including managed objects, manager/agent etc., a clarification of the role of mediation, a functional hierarchy and additional text on the X interface.  NOTE 1 – Revision process includes the splitting into more than one document (See also M.3013)	4	A				
M.30103	7/4	Considerations for a Telecommunications Management Network	result of a splitting of M.3010	4	A				
M.3016	7/4	TMN security overview		4	H				
M.3020	6/4	TMN Interface Specification Methodology	This Recommendation is one of a series of Recommendations on the Telecommunications Management Network (TMN). It describes a methodology for describing	4	S				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
			functional and protocol specifications for TMN interfaces. Emphasis is placed on multiple applications of the methodology and the reuse of previous results to build the specifications.						
M.302guidelines	6/4	TMN Methodology - Guidelines	Guidelines on the use of notations in support of TMN Interface Specification methodology	0	S	2002			
M.3100	12/4	Generic Network Element Information Model <sup>1</sup>	Contains generic managed object and attribute definitions, object inheritance, name binding (containment). It is intended to provide a guide to other ITU-T Study Groups developing network information models for specific equipment technologies.  NOTE 1 – Enhancements to include: network/service level viewpoints, generic protection model, expansion to accommodate switching, IN, B-ISDN/ATM and PDH.  NOTE 2 – Q.2/4 input to include F interface related management information.	5, 1	O	2002			
M.3100 corr 1	12/4	Correction of defects		4	O				
M.3100 corr 2	12/4	Correction of defects		4	O	2001	Knut Johannesen (Telenor)	COM 4-5 +TD 69 (Plen)	
M.3100 corr	12/4	Correction of defects		4	O	2001	Knut		

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
3							Johannessen (Telenor)		
M.3100 Amd 1	12/4	Enhancements of M.3100		4	O				
M.3100 Amd 2	12/4	Enhancements of M.3100		4	O				
M.3100 Amd 3	12/4	Enhancement of M.3100	(Alarm Report Control)	4	O	2001	Tammy Ferris	COM 4-4 TD 67 (Plen)	
M.3100 Amd 4	12/4	Enhancement of M.3100	Bridge and roll cross connection functionality	3	O	2002			
M.3101 (M.mocs)	12/4	M.3100 TMN Managed Object Conformance Statements	Specifies the conformance statements and a proforma for M.3100. This document may be used by ISP and other profile developers, who can use the proforma.	5, 1	C	TBD	Knut Johannessen (Telenor)		
M.3101 Amd 1	12/4	Enhancements of M.3101			C				
M.3101 Amd 2	12/4	Enhancements of M.3101			C				
M.3101 Amd 3	12/4	Enhancements of M.3101	Paired with M.3100 Amd 3						
M.3101 Amd 4	12/4	Enhancements of M.3101	Paired with M.3100 Amd 3						
M.3108.1	12/4	Generic Network Information Model - Service Level View			O				
M.3108.1 Cor 1	12/4	Generic Network Information Model - Service Level View		4	O	2001	Moshe Rozenblit (Telcordia USA)	COM 4-6 +TD 69 (plen)	
M.3108.2	12/4	GNIM - Connection		4					

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		Management							
M.3108.2 Corr1	12/4	GNIM - Connection Management		4		2001	Tobey Trygar (Telcordia USA)	COM 4-9	
M.3108.3	12/4	GNIM - VPN Management		4		2001	Qui Feng, Qui XueSong (BUPT China)	COM 4-7	
M.3120	12/4	CORBA Generic Network and NE Level Information Model		4	O	2001	Kam Lam	TD 75 (GEN) + TD 20, 21 (Plen)	
M.3120 Amd 1	12/4	Enhanced Protection model			O	2002			
M.3120 Amd 2	12/4	Bridge and roll cross connect functionality			O	2002			
M.3120.1	12/4	Course grained CORBA/IDL version of M.3100			O	2002			
M.3120.1 Amd 1	12/4	Enhanced Protection model			O	2002			
M.3120.1 Amd 2	12/4	Bridge and roll cross connect functionality			O	2002			
M.312x (series)	12/4	CORBA Object Conformance statements paired with M.3120 series			C	2002			
M.31xx	3/4 15/4	TMN Management Information Model for international telephone type circuit maintenance			O				
M.3180	15/4	Catalogue of TMN	Comprises a catalogue of TMN	5, 0	O				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		Management Information	managed object classes with a reference to the location of full object class description. The inclusion of attributes, name bindings, conditional packages is for further study.  NOTE – Enhancements to include: JCG guidelines for object identifier assignment.						
M.3200	15/4	TMN Management Services	Lists the TMN application services with a short prose description of each, plus appendices with example application services containing service description, components, and functions required.	5,0	E	TBD			
M.3201.1	¾, 15/4	TMN Management Service for International telephone type circuit maintenance			E	2001			
M.3204.1	15/4	TMN management service for IN		0	E				
M.3205.1	21/4	TMN management service for Common Channel Signalling Systems		2	E				
M.3207.1	7/4	TMN management services for B-ISDN	This Recommendation defines the TMN management services for the maintenance of the B-ISDN.	4	E				
M.3208.1	15/4	TMN management service for dedicated and reconfigurable circuit: customer		4	E				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		administration and maintenance management							
M.3208.1 Cor 1	15/4			4					
M.3208.2	15/4	Requirements for connection management of reconfigurable leased circuit service		2	E				
M.3208.3	15/4	Trequirements for VPN Management		4	E				
M.3208.4	9/4	Requirements for test capability of leased circuit services		0	E	2001	Peter Hockett (TTC UK)		
M.3210.1	16/4	Security management for IMT2000		4	E	2001		COM 4-10 + TD14r1 (Plen)	
M.3210.imtacc	24/4	Accounting Management for IMT2000		3	E	2002			
M.3211.1	7/4/4	TMN Management services in support of the maintenance of the ISDN Access	This Recommendation defines the TMN management services for the maintenance of the ISDN access.	4	E				M.3602, M.3603, M.3630, M.3660
M.3300	16/4	TMN Capabilities at the F Interface	Provides an overview of the TMN management capabilities presented for human-machine information	4	F				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
			and/or intervention. It also describes the human-machine supporting functions in the five OSI management categories and the management capabilities from a TMN management services perspective.						
M.3400	15/4	TMN Management Functions	TMN management functions are specified in this Recommendation and provide both the generic and specialized functionalities needed for all telecommunications activities (identified at this time) such as circuit testing, alarm surveillance, traffic management, etc.  NOTE – Enhancements to include: inclusion of accounting management; align structure with GDMF template; modification and elaboration, import section 7 of M.3200 into M.3400.	4	F				
M.3320	9/4	Requirements for the X interface	This Recommendation defines requirements for the X interface. It will maintain information on the X interface not available in other Recommendations describing aspects of the X interface.	5,1	F	2002			
M.32tml	9/4					2002			SG 16
M.332x series	Q9/4	Generic X interface requirement docs							
M.xinfo	9/4	Identification of information to be exchanged at the X interface	This Recommendation identifies the information to be exchanged via the X interface for different access cases, in support of the TMN management services and functions as defined in ITU-T Recs. M.3400.	1	F	2002			

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
M.QoS	9/4	Requirements for QoS/SLA management over the TMN X interface		0	F	2001	Mr. Maekawa		
M.IEPS	9/4	Requirements for Priority services for Critical Communications		0	F	2001	H Folts		
M.hcpn	10/4	Integrated Management of Hybrid Ccct/Packet IP Networks				2001			
	23/4	ATM Network Level requirements and analysis							
	23/4	ATM Network Level Information Model using CORBA/IDL							
	23/4	SDH/SONET Network Level requirements and analysis							
	23/4	SDH/SONET Network level Information Model using CORBA/IDL							
M.3600	7/4	Principles for Management of ISDN	This Recommendation provides the management principles and architecture of the ISDN. Management functions and their relationships are defined in detail.	4	A, F				
M.3602	7/4	Application of Maintenance principles to ISDN Subscriber Installations	This Recommendation defines physical layer maintenance functions used to maintain ISDN subscriber installations.	4	A, F				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
M.3603	7/4	Application of Maintenance Principles to ISDN Basic Rate Access	This Recommendation defines capabilities and functions used by the network to maintain the physical layer of ISDN <b>basic</b> rate access.	4	A, F				
M.3604	7/4	Application of Maintenance Principles to ISDN Primary Rate Access	This Recommendation defines capabilities and functions used by the network to maintain the physical layer of the ISDN <b>primary</b> rate access.	4	A, F				
M.3605	7/4	Application of Maintenance Principles to Static Multiplexed ISDN Basic Rate Access	This Recommendation defines capabilities and functions used by the network to maintain static multiplexed ISDN <b>basic</b> rate access.	4	A, F				
M.3610	7/4	Principles for applying the TMN concepts to the management of B-ISDN	This Recommendation defines the B-ISDN management concepts for the maintenance aspects of fault, performance and configuration management of B-ISDN. The relationship between B-ISDN and the TMN is defined.	4	A				M.3010, I.610
M.3611	7/4	Management of the B-ISDN ATM layer using the TMN	This Recommendation describes the maintenance aspects of the TMN managing the B-ISDN ATM layer.	4	F				I.610, X.737, X.745
M.3640	7/4	Management of D-channel Data Link and Network Layer	This Recommendation contains a prosaic description of the management aspects of the data link and network layers of the access to ISDNs. It also defines managed objects by using OSI management principles.	4	F				
M.3641	7/4	Management Information Model for the management of the D-channel Data	This Recommendation provides the information model for the Q3 maintenance of the D-channel.	4	O, N				Q.822

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		Link and Network Layer							
M.3621	7/4	Integrated Management of ISDN customer access	This Recommendation defines the correlation of failures between the three layers of ISDN access.	4	E				M.3602, M.3603, M.3640
M.3650	7/4	Network Performance Management for ISDN	This Recommendation defines the means for a network provider to obtain information and take appropriate action about the performance of ISDN calls.	3	F, O				I.350, Q.822
M.36xx	7/4	X interface requirements for ATM performance management			E				
M.4100	7/4	Maintenance of Common Channel SS No. 7	Maintenance of SS No. 7. NOTE – Extension from the viewpoint of TMN requirements is planned (source TD 68 JCG-TMN 2). It is presumed this is a Revision over the Revision published in 1993.	4					
M.4110	7/4	Inter Administration on Common Channel SS No. 7	Inter Administration Agreement on SS No. 7. NOTE – Extension from the viewpoint if TMN requirements are planned (source TD 68 JCG-TMN 2). It is presumed this is a revision over the revision published in 1993.	4					
Q.65		Stage 2 of the Method for Characterization of Services Accessed from an ISDN terminal via the ISDN		4	S				
Q.66		Stage 2 of the method for the Characterization of	Recommendation Q.65 describes the "general" stage 2 method for the characterization of ISDN services.	3	S				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		management services accessed from an ISDN terminal via the ISDN	This Recommendation (Q.66) describes the additional tasks required for the characterization of the management services accessed from an ISDN terminal via the ISDN.						
Q.68		Methodology direction in developing management services		4	S				
Q.513		Exchange Interfaces for OAM	Provides an overview of TMN interfaces relevant to switching and signalling.	4					
Q.750	2/11	Operations, maintenance and administration part of SS No. 7 - Management overview	Provides an introduction to the SS No. 7 management series of Recommendations, and also includes an architecture which is based on the OSI management model.	4	A				
Q.751.1	2/11	Network element management information model for the message transfer part	Contains the definitions for SS No. 7 managed objects for the message transfer part (MTP) together with associated measurements and also for MRVT (MTP Route Verification Test)..	4 (Implementors' Guide available)	O				
Q.751.2	2/11	SCCP Managed Objects	Contains the definitions for SS No. 7 managed objects for SCCP (Signalling Connection Control Part) together with associated measurements	4' (Implementors' Guide available)	O				
Q.751.3	2/11	Managed Objects for MTP Accounting	Contains the definitions for SS No. 7 managed objects for MTP accounting and objects common to MTP and SCCP accounting.	4 (Implementors' Guide available)	O				
Q.751.4	2/11	Managed Objects for SCCP Accounting	Contains the definitions for SS No. 7 managed objects for SCCP accounting	4	O				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
Q.752	2/11	SS No. 7 Monitoring and Measurements	This is an updated version of the old Q.791 on the same subject.	4 (Implementors' Guide available)	F				
Q.753	2/11	SS No. 7 Management Functions MRVT, SRVT and CVT and definition of the OMASE-user	This document is essentially part of a restructured Q.795 (OMAP) containing network routing management information such as MTP routing verification test (MRVT).	4 (Implementors' Guide available)	F				
Q.754	2/11	SS No. 7 Management Application Service Elements Definitions for MRVT, SRVT and CVT	This text contains the remainder of the old Q.795, but with some extensions. The existing version is updated to bring it into line with the latest CMIP and CMIS standards.	4 (Implementors' Guide available)	M	post 2000	R. A. Adams Lucent UK		
Q.755.1	2/11	SS No. 7 Management Protocol Testers, MTP protocol tester	Contains the definition of the MTP Protocol Tester	4	P				
Q.755.2	2/11	SS No. 7 Management Protocol Testers, TCAP Test Responder	Contains the definition of the TCAP Test Responder	4	P				
Q.2751.1	2/11	B-ISDN Signalling AAL Managed Objects - Extension of Q.751.1 for SAAL signalling links	Contains additions to Q.751.1 for definitions of SAAL signalling links, including specific error definitions also valid for Q.751.1	4 (Implementors' Guide available)	O		C. Suerbaum Siemens, Germany		
Q.810		Switching and Signalling Management Information Model	This Recommendation will outline the network information model for switching and signalling systems.	3	O				
Q.811	18/4	Lower Layer Protocols for the Q3 interface	This Recommendation specifies the layer 1-3 protocols for the Q3 interface. The addition of layer 4 to this Recommendation is under	5,1	P	2002			

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
			study. Additional revisions and alignment with ISPs are under study.						
Q.812	18/4	Upper Layer Protocol Profiles for the Q3 Interface	This Recommendation specifies the upper layer protocols for the Q3 interface. Revision to align with ISP's is under study.	5,1	P	2002			
Q.812 Add1	18/4	X interface protocol for the service management layer: CORBA		4	P				
Q.812 Add2	18/4	Guidance on using allomorphic management		4	P				
Q.812 Add3	18/4	X interface protocol for the service management layer: ED/EDIFACT		4	P				
Q.812 Add4	18/4	Changes to Q.812 to incorporate Q.813			P	2000+			
Q.813	18/4	STASE-ROSE		4	P				
Q.814	18/4	Interactive agent protocol for ED/EDIFACT		4	P				
Q.815	18/4	Security module for whole message protection		4	P				
Q.816	18/4	CORBA based TMN Services		4	P	2001	Keith Alan and Lakshmi Raman	TD 25 (Plen)	
Q.816 Amd 1	18/4	TMN Guidelines for defining course grained CORBA Managed Objects			P	2001			
Q.817	18/4	TMN PKI-Digital			P	2001			

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		Certificates and certificate revocation lists profiles							
Q.81auth	17/4	TMN security service: authentication			P	2000+			
Q.817	17/4	TMN PKI-Digital Certificates and Certificate Revocation Lists Profiles		4	P	2001		TD 78 (Plen)	
Q.821	19/4	Stages 2 and 3 Description for the Q3 Interface Alarm Surveillance	This Recommendation describes messages and associated support objects for the Q3 interface. Alarm surveillance is the initial functional area specified.	4	M				
Q.821-CORBA	19/4	Alarm management applying CORBA paradigm				2001			
Q.822	19/4	Stages 1, 2 and 3 description for the Q3 Interface - Performance Management	This Recommendation specifies Stages 1, 2 and 3 specifications in support of Performance Management. It includes the specification of support objects and management messages.	4	M				
Q.822-CORBA	19/4	Performance Monitoring applying the CORBA paradigm				2001			
Q.823	19/4	Traffic Management	This Recommendation I specifies traffic management managed objects and messages for use at the Q3 interface between the OS and NEs.  NOTE – The first version will include the model for the surveillance and controls applicable to circuit switches. SG 11 Plan for a traffic	2	F, M				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
			information model for ATM based on Q.823. Requirements requested from SG 2.						
Q.824.0	19/4	Customer Administration: Common Part	Stages 2 and 3 description for the Q3 interface.	4	O				
Q.824.1	19/4	Customer Administration: ISDN Basic and Primary Rate Bearer Services	Stages 2 and 3 description for the Q3 interface.	4	O				
Q.824.2	19/4	Customer Administration: ISDN Supplementary Services	Stages 2 and 3 description for the Q3 interface.	4	O				
Q.824.3	19/4	Customer Administration: ISDN Optional User Facilities	Stages 2 and 3 description for the Q3 interface.	4	O				
Q.824.4	19/4	Customer Administration: ISDN Teleservices	Stages 2 and 3 description for the Q3 interface.	4	O				
Q.824.5	21/4	Customer Administration: V5 Access Network	Stages 2 and 3 Description for the Q3 interface.	4	O				
Q.824.5 Corr 1	21/4			4					
Q.825	19/4	Call detail recording		3	O				
Q.826	19/4	Stage 2 and Stage 3 Functional Specification of Call Routing Information Management of the Operations System/Network Element Interface		4	O				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
Q.824.6	21/4	Broadband configuration management		4	O				
Q.824.7	14/4	Enhanced broadband switch management		4	O				
Q.831	14/4	Fault and performance management of V5 interface			O	2001		COM 4-21	
Q.831 Corr1	14/4					2001			
Q.831.1	14/4	Access management for V5		4	O				
Q.832.1	14/4	VB5.1 management		4	O				
Q.832.1Corr1	14/4	VB5.1 management		4	O	2001		COM 4-22	
Q.832.2	14/4	VB5.2 management		4	O				
Q.832.3	14/4	VB5 Co-ordination		4	O	2001		COM 4-13	
Q.833.1	14/4	Management of Broadband Access Network transport: Part 1 - ADSL	CMIP	4	O	2001		COM 4-14	
Q.833.2	14/4	Management of Broadband Access Network transport: Part 1 - ADSL	Other						
Q.834.1	14/4	Management of Broadband Access Networks Fibre/Hybrid	Protocol Neutral	3	O	2001		D15 + TD 23 (Plen)	
Q.834.2	14/4	Management of Broadband Access Networks Fibre/Hybrid	CMIP	3		2001		D16 + TD 24 (Plen)	
Q.834.3	14/4	Management of	CORBA	4		2001		COM 4-23	

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		Broadband Access Networks Fibre/Hybrid							
Q.835	14/4	Line and line circuit test management of ISDN and analogue customer access		4	O				
Q.835 orr 1	14/4					2001			
Q.836.1	14/4	ATM Management Co-ordination				2002			
Q.837.1	14/4	S(H)DSL Management				2002			
Q.ip21	14/4	Access IP and IP over ATM				2002			
I.751	14/4	ATM Management of NE view		5,1		2001			
Q.1831.1	14/4	SSF/SCF IN Management		4	O				
Q.940	19/4	ISDN user-network interface protocols for management - General aspects	High level view of ISDN user-network interface architecture and functionality.	4	A				
Q.941	19/4	ISDN user-network interface protocol profiles for management		4					
Q.942	19/4	Service Profile Verification and Management	The Recommendation defines managed objects and messages in support of service profile verification and management (SPV/SPM) at the ISDN user-network interface and customer administration at the Q3 interface. As defined by M.3660 SPV/SPM are optional management services	1	M				

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			provided by the network over ISDN user-network interfaces to allow some real-time capabilities to be accessed by the customer or operator.						
Q.1400		Architecture Framework for the Development of Signalling and OA&M protocols using OSI concepts		4	P				
V.58	4/14	Management information model for V-series modems		4	O				
V.im		Managed object template for V-series modems			N				
X.160	5/7	Architecture for Customer Network Management for Public Data Networks		4	A, P				
X.161	5/7	Definition of Customer Network Management Services for Public Data Networks		5	F, E				
X.161 Am 1	5/7								
X.162	5/7	Definition of Management Information for Customer Network Management		4	O				
X.162 Am 1	5/7	Definition of Management Information for Customer Network Management -		4					

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
		Amendment 1							
X.162 Am 2	5/7	Definition of Management Information for Customer Network Management - Amendment 2							
X.163	5/7	Definition of Management Information for Customer Network Management Service for PDN to be used with the CNMe Interface							
X.mo	5/7	Managed object definition for data networks other than X.25			O				
X.nnma	5/7	Network-to-network management architecture			A				
X.nnmi	5/7	Network-to-network management information			O				
x.nnms	5/7	Network-to-network management services			E				
X.208 ISO/IEC 8824 (1988)		ASN.1 Basic Notation	This Recommendation will remain in force in addition to the 1994 version. Associated encoding contained in X.209 (1988), which also remains in force. NOTE – See X.680 for the 1994 version.	4	S				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
X.217 ISO/IEC 8649		Service Definition for ACSE		4	P				
X.227		Protocol Specification for ACSE		4	P				
X.282	10/7	Data link layer management information		4	O				
X.283 ISO/IEC 10733	10/7?	Elements of Management Information related to OSI Network Layer Standards		4	O				
X.284 ISO/IEC 10737	10/7?	Elements of Management Information related to OSI Transport Layer Standards		4	O				
X.290 ISO/IEC 9646-1		Conformance Testing Framework		4	C				
X.292 ISO/IEC 9646-3		TTCN		4	T				
X.370		Transfer of Internetwork Management Information	Studies of the requirements for internetwork management, relationship to the customer network management service, application of OSI systems management (X.700-series) and TMN (M.3000-series).	4	M, O, P				Recs.: X.160, X.161, X.162
X.460	14/7	Management functions for MHS	This Recommendation uses TMN principles to organize and specify management functions for MHS.	4					
X.660 ISO/IEC		Registration procedures	Registration procedures for the allocation of OBJECT IDENTIFIER	5, 3	R				

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9834-1			values as well as other name forms (e.g. AE and AP Titles).						
X.680 ISO/IEC 8824-1: 1995		ASN.1: Basic Notation Specification of Basic Notation		4	S				
Amendment 1 to X.680 ISO/IEC 8824-1: 1995		ASN1.1: Rules of extensibility		4	S				
X.681 ISO/IEC 8824-2: 1994		ASN.1: Information Object Specification		4	S				
Amendment 1 to X.681 ISO/IEC 8824-2: 1994		ASN.1: Rules of Extensibility		4	S				
X.682 ISO/IEC 8823-3: 1995		ASN.1: Parameterization of ASN.1 specifications		4	S				
X.690 ISO/IEC 8825-1: 1995		ASN.1: Encoding Rules		4	P				
X.700 ISO/IEC 7498-4	17/4	Management Framework	Describes the general organization of OSI management from the perspective of managing OSI protocol stacks.	4	A				
X.701 ISO/IEC 10040	17/4	Systems Management Overview	Provides an overview to the family of systems management standards and outlines the relationships between the documents. It	4	A				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
			establishes the model for manager to managed system interaction, managed objects, systems management functional units and application context.						
Amendment 1 to X.701 ISO/IEC 10040	17/4	Management Knowledge Function	Makes explicit that standardized management knowledge (e.g. managed object classes supported by an Agent) can be made available as managed objects.	4	A				
Amendment 2 to X.701 ISO/IEC 10040	17/4	Management Domains	Provides additional definitions, which are required for management domains, management policy and associated aspects. Management domains and policy are key structuring concepts to ensure the "management environment" can be partitioned to support the practical needs for managed networks and services. An architectural model is included, which shows how the management domains, policy and rules are related to administrative aspects and managed objects.	3	A				
X.701 corr 4					A				
X.702 ISO/IEC 11587	17/4	Application Context for Systems Management with OSI Transaction Processing	This defines the use of CMIS services with OSI transaction processing for management interactions requiring for example synchronization of multiple CMIS requests with provision for commitment, rollback and recovery.	4	P				
X.703	17/4	Open Distributed Management Architecture	Extends on an evolutionary basis the manager - agent architecture in Recommendation X.701. Uses ODP concepts and notation such as	2	A				

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			viewpoints.						
X.703 Amd 1	17/4	ODMA - support using ODP IDL and ODP functions		4	A			COM4 36	
X.710 ISO/IEC 9595 (1991)	17/4	Common Management Information Service Definition	Defines the management services provided to a management information service user.	4	P				
X.711 ISO/IEC 9596-1 (1991)	17/4	Common Management Information Protocol Specification	Specifies the protocol (using ASN.1) to support the common management information service, the protocol to be carried by Association Control Service (ACSE) in support of CMIS and the use of underlying presentation layer services.	4	P				
X.711 Corr 1	17/4			4	P				
X.711 Corr 2	17/4		Use of ASN.1 1997	4	P				
X.712 ISO/IEC 9596-2	17/4	PICS Proforma for X.711		4	C				
X.712 Corr 3	17/4			4	C				
X.720 ISO/IEC 10165-1	17/4	Systems Management Information Model	Defines the structure of a managed object, the generic aspects of operations and notifications pertaining to managed objects, the use of inheritance for managed object class relationships, managed object naming and containment organization of managed objects into a tree structure.	4	O				

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Amendment 1 to X.720 ISO/IEC 10165-1	17/4	Generalization of terms	Covers the generalization of terms so that these terms and concepts can be reused in the General Relationship Model (X.725). It is intended that the generalization in terms does not change the semantics in the Management Information Model (X.720). The general approach for the specified terms (characteristic, inheritance, hierarchy, multiple inheritance and specialization) is to remove the term "managed object class" and use the more general term "class". It is beneficial if the general relationship model does not have different terminology for the same general concepts as the management information model.	4	S				
X.721 ISO/IEC 10165-2	17/4	Definition of Management Information	Provides a library of management information pertaining to the currently approved set of systems management function documents. Information is partitioned into managed object class definitions, attribute types and attribute syntax. Later function documents (such as Test Management [X.745]) will include this information in the body of their documents instead of using a single library document.	4	O				
X.721 Amm	17/4	State Model extensions for Life cycle states		4	C			COM 4-15	
X.721 Corr 3	17/4	DMI corrigenda		3					
X.721 Corr	17/4		Use of ASN.1 1997	4					

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
4									
X.722 ISO/IEC 10165-4	17/4	Guidelines for the Definition of Managed Objects	Defines the notational method to be used for specifying management information, using the concept of template structures, and provides a registration structure for systems management beneath the joint CCITT-ISO/IEC object identifier node.	4	S				
Amendment 1 to X.722 ISO/IEC 10165-4	17/4	extension to include Set by create	Modifies the GDMO Package template to allow for the explicit specification of the Set By Create property. This Amendment will ensure that Rec. X.722 is consistent with Rec. X.721, which states the Create request is permitted to specify an explicit value for individual attributes. This change will permit the automatic generation of MOCS because currently the "behaviour" definitions need to be studied to determine the Create capability specified. In addition this Amendment extends the registration clause (6.4) to include the application context for transaction processing with systems management and extends the registration arc for the general relationship model.	4	S				
Amendment 2 to X.722 ISO/IEC 10165-4	17/4	Guidelines for Production of Equivalent ASN.1:1990 and ASN.1:1994 Modules	Provides detailed guidance on use of ASN.1:1994.	2	S				
Amendment 3 to X.722 ISO/IEC	17/4	Guidelines for the use of "Z" in describing the Behaviour of	Provides the guidelines on using Z.	2	S				

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10165-4		Managed Objects							
X.722 Amend 4	17/4	GDMO extensions for the specification of MO behaviour							
X.722 Amend 5	17/4	GDMO - use of SDL							
X.722 Corr 2	17/4		Use of ASN.1 1997	4					
X.723 ISO/IEC 10165-5	17/4	Generic Management Information	Specifies managed objects and other management information applicable to more than one OSI resource. Recommendations specific to a layer may specialize some of these managed objects. Examples include protocol machine managed objects, service access point managed objects etc.	4	O				
X.723 Corr 1	17/4		Use of ASN.1 1997						
X.724 ISO/IEC 10165-6	17/4	Requirements and Guidelines for Implementation Conformance Statement Proformas Associated With Management Information	Requirement and Guidelines for Implementation Conformance Statement Proformas Associated with Management Information. Specifies what is to be stated for management information conformance and provides proformas for use by implementors and profile developers. Proformas included for managed objects, attributes, attribute groups etc.	4	C, S				
Amendment 1 to X.724 ISO/IEC 10165-6	17/4	Manager role conformance	Covers manager role conformance. The current Recommendation is specific to the agent capability. This amendment provides additional tabular representation and prescriptive material for the	3	C, S				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
			manager system. The additional tables can be used for proformas to be completed by procures and or developers in addition to profile developers as an aid to explicit interface specification.						
X.725 ISO/IEC 10156-7	17/4	General Relationship Model	Provides a general model and specification tools for the definition of relationships among managed objects.	4	S				
Now X.287									
X.727	17/4	systems management protocol machine managed objects		3	O				
X.730 ISO/IEC 10164-1	17/4	Object Management Function	Specifies services for the creation and deletion of managed objects and the reporting about the results of these operations and changes to attribute values.	4	F, M				
Amendment 1 to X.730 ISO/IEC 10164-1	17/4	MOCS Proforma	Specifies the conformance statements and a proforma for X.730   ISO/IEC 10164-1. This document may be used by ISP and other profile developers, who can use the proforma.	4	C				
X.731 ISO/IEC 10164-2	17/4	State Management Function	Specifies a generic state transition model and the necessary attributes for managed objects based on the need for administrative control by a manager and the operational states during normal service.	4	F, M				
Amendment 1 to X.731 ISO/IEC 10164-2	17/4	MOCS Proforma	Specifies the conformance statements and a proforma for X.731   ISO/IEC 10164-2. This document may be used by ISP and other profile developers, who can	4	C				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
			use the Proforma.						
Amendment to X.731	17/4	State Model extensions for Life cycle states		4	C			COM 4-15	
X.731 Corr 2	17/4			4				COM 4-16	
X.732 ISO/IEC 10164-3	17/4	Attributes for Representing Relationships	Specifies a model and attributes for maintaining information about and permitting control over the relationships between managed objects based on such relationships as service user, service provider and peer-to-peer.	4	F, M				
Amendment 1 to X.732 ISO/IEC 10164-3	17/4	MOCS Proforma	Specifies the conformance statements and a Proforma for X.732   ISO/IEC 10164-3. This document may be used by ISP and other profile developers, who can use the Proforma.	4	C				
X.733 ISO/IEC 10164-4	17/4	Alarm Reporting Function	Specifies a model, attributes and message structure for alarm reports.	4	F, M				
Amendment 1 to X.733 ISO/IEC 10164-4	17/4	MOCS Proforma	Specifies the conformance statements and a Proforma for X.733   ISO/IEC 10164-4. This document may be used by ISP and other profile developers, who can use the Proforma.	4	C				
X.733 corr x	17/4	Clarification of clear semantics		3					
X.734	17/4	Event Report Management Function	Specifies a model and managed objects for the creation and flow control of event reports including the use of a discriminator, whose discrimination criteria may be remotely configured, to selectively	4	F, M				

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			pick potential event reports for forwarding to a remote system.						
Amendment 1 to X.734 ISO/IEC 10164-5	17/4	MOCS Proforma	Specifies the conformance statements and a proforma for X.734   ISO/IEC 10164-5. This document may be used by ISP and other profile developers, who can use the proforma.	4	C				
Amendment 2 to X.734 ISO/IEC 10164-5	17/4	Amendment 2 to Event Management Function	Covers additions to the Recommendation to cater for enhanced event report management. The principal addition is the ability to flow control event reports when an agent becomes isolated from the manager(s), which the agent is reporting to, or there is congestion that requires certain event reports to be withheld pending a return to a normal traffic state in the network. When the failure has been cleared the agent detects the renewed availability of the manager and will forward event reports, associated with notifications that occurred during the failure period. Notifications that occur during the failure, or congestion period, may be retained or discarded according to a retainment policy. Also notifications can be defined as having priority over other notifications, that occurred earlier, if these are more important.	3	F, M				
X.734 Corry	17/4	Clarification of attribute change		3					
X.735	17/4	Log Control Function	Specifies a model and managed	4	F, M				

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ISO/IEC 10164-6			objects for the creation and administration of log records for managed objects.						
Amendment 1 to X.735 ISO/IEC 10164-6	17/4	MOCS Proforma	Specifies the conformance statements and a proforma for X.735   ISO/IEC 10164-6. This document may be used by ISP and other profile developers, who can use the proforma.	4	C				
X.735 Corr	17/4			4				TD74 (Plen)	
X.736 ISO/IEC 10164-7	14/4	Security Alarm Reporting Function	Specifies a model and a "Security Alarm" for notifying a remote manager about security related events.	4	F, M				
Amendment 1 to X.736 ISO/IEC 10164-7	14/4	MOCS Proforma	Specifies the conformance statements and a proforma for X.736   ISO/IEC 10164-7. This document may be used by ISP and other profile developers, who can use the proforma.	4	C				
X.737 ISO/IEC 10164-14	17/4	Confidence and Diagnostic Test Classes	Specifies a model and attributes for a number of generic tests, such as "loopback" of a communications path, that may be invoked and controlled by the services of Test Management Function [X.745].	4	M				
X.737 Corr1	17/4			3	M				
X.737 Corr2	17/4		Use of ASN.1 1997	4					
X.738 ISO/IEC 10164-13	17/4	Summarization Function	Specifies a model and "scanner" managed objects for "collecting" and analysing data (e.g. for performance purposes) according to some schedule activity. Managed objects are specified in a scanner class structure with analysis algorithm associated with a scanner	4	F, M				

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			subclass definition.						
X.738 Corr 1	17/4			3					
X.738 Corr 2	17/4		Use of ASN.1 1997	4					
Amendment 1 to X.738 ISO/IEC 10164-13	17/4	MOCS Proforma	Specifies the conformance statements and a proforma for X.738   ISO/IEC 10164-13. This document may be used by ISP and other profile developers, who can use the Proforma.	2	C				
Amendment 2 to X.738 ISO/IEC 10164-13	17/4	Enhanced Scanner Objects	Includes additional scanner objects. Scanners are required for such purposes as performance information collection in support of network QoS and related activities. Resources of interest, for example signalling links and call supervision entities, which are represented as managed objects, are scanned according to some criteria such as at some cadence with information of interest being collected at each scan.	2	F, M				
X.739 ISO/IEC 10164-11	17/4	Workload Monitoring Function	Specifies a model and managed objects for monitoring the performance provided by resources (e.g. bit error rates) using the concept of gauges and counters. NOTE – study on "additional metric objects and attributes" is planned.	4	F, M				
Amendment 1 to X.739 ISO/IEC 10164-11	17/4	MOCS Proforma	Specifies the conformance statements and a proforma for X.739   ISO/IEC 10164-11. This document may be used by ISP and other profile developers, who can	1	C				

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			use the Proforma.						
X.739 Corr 1	17/4			3					
X.740 ISO/IEC 10164-8	17/4	Security Audit Trail Function	Specifies a model and managed object for compiling and administering a security audit trail.	4	F, M				
X.740 Corr 3	17/4			3					
X.741 ISO/IEC 10164-9	17/4	Objects and Attributes for Access Control	Specifies a model and managed objects for the creation and administration of access control information for controlling access to managed objects, to attribute granularity as applicable.	4	F, M				
X.741 Corr 2	17/4			4					
X.741 Corr 3	17/4		Use of ASN.1 1997	4					
X.742 ISO/IEC 10164-10	17/4	Accounting Meter Function	Specifies a model and managed objects for the collection of accounting information concerning the use of resources.	4	F, M				
X.742 Amd 1					F, M				
X.742 ISO/IEC 10164-10	17/4	MOCS Proforma	Specifies the conformance statements and a proforma for X.742   ISO/IEC 10164-10. This document may be used by ISP and other profile developers, who can use the proforma.	0	C				
X.742 Corr 2	17/4		Use of ASN.1 1997	4					
X.743 ISO/IEC 10164-	17/4	Time Management Function	Specifies a model, managed objects and algorithm for permitting a system to synchronize an	4	F, M				

Code	Question	Title	Description	Doc. status	Doc. class	Planned date for SG approval quarter / year	Editor	Latest Text	Dependencies
			associated "clock" with "clocks" in other systems such that the accuracy for such things as management time stamps, is known within some probability bound.						
X.743 Corr1	17/4					2001			
X.744 ISO/IEC 10164-	17/4	Software Management Function	Specifies a model and management information for the control and administration of software entities at a remote system.	3	F, M				
X.744 Corr 1	17/4			4	F, M				
X.744 Corr 2	17/4		Use of ASN.1 1997	4					
X.744 Corr 3	17/4			4					
X.744 Corr 4	17/4			4		2001			
X.745 ISO/IEC 10164-12	17/4	Test Management Function	Specifies a model and managed objects for the control and administration of tests invoked on a remote system. Tests are defined to be either "synchronous" reporting a test result in response to an associated test invocation, or "asynchronous" whereby test results may be reported as notifications as test results become available. Tests are defined to be managed object class specific or generic (see also X.737).	3	F, M				
Amendment 1 to X.745 ISO/IEC 10164-12	17/4	MOCS/PICS Proforma	Specifies the conformance statements and a proforma for X.745   ISO/IEC 10164-12. This document may be used by ISP and other profile developers, who can	1	C				

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			use the proforma.						
X.745 corr 1	17/4				C				
X.745 Corr 2	17/4			4	C				
X.745 Corr 3	17/4		Use of ASN.1 1997	4					
X.746 ISO/IEC 10164-15	17/4	Scheduling Function	Specifies a model and managed objects for the creation and administration of activity schedules for management for such things as performance data collection, test application etc. The model permits managed objects to be created for schedule control or for managed object definers to import schedule packages into managed objects requiring to be "scheduled".	4	F				
X.746 Corr 1	17/4			4	F				
X.746 Corr 2	17/4		Use of ASN.1 1997	4					
X.747 ISO/IEC 10164	17/4	General Relationship Function	Specifies a model and management information for defining the relationships between managed objects taking account of the type of relationship, the role each managed object may take in the relationship and the number of managed objects that are configured in an instance of use. Extends the relationship model in X.732.	3	F, M				
X.748 ISO/IEC 10164-	17/4	Response Time Monitoring and Histogram Generation Function	Scope to be agreed. Currently in abeyance.	3	F, M				

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X.749 ISO/IEC 10164-	17/4	Management Domain Management Function	Specifies a model and managed objects for the creation and administration of management domains and association with policy managed objects.	3	F, M				
X.750 ISO/IEC 10164-	17/4	Management Knowledge Management Function	Specifies a model and management information for the determination and administration of management information, such as protocol, functional unit and managed object knowledge, necessary for systems to interwork for management purposes through a common shared knowledge.	3	F, M				
X.750 Add1									
X.750 Corr 1	17/4		Use of ASN.1 1997	4					
X.751 ISO/IEC 10164-	17/4	Changeover Function	Specifies a model and management information for the administration and permissible state transitions for a set of managed objects representing resources operating in a primary and secondary role (i.e. there may be "n" secondaries). The secondary role admits of "hot" or "cold" standby.	4	F, M				
X.751 Corr 1	17/4			4					
X.751 Corr 2	17/4		Use of ASN.1 1997	4					
X.752 ISO/IEC	17/4		NOTE – Enhanced Event Control now being documented as an Amendment to Rec X.734   ISO/IEC 10164-5.						
X.753 ISO/IEC	17/4	Command Sequencer	Provides a means to specify a collection of management operations	2	F, M				

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			for "later" activation in a system.						
X.753 Amd 2	17/4	State Management Function - Life Cycle and assignment States				2001		TD36 (4/4)	
X.754	17/4	Enhance Event Control Function	(supersedes X.734 amd 2 and X.721 amd 1)	4		2000		TD40(WP4/4)	
X.770	17/4	ODMA Notifications, selection and dispatch functions		4		2001		COM 4-17	
X.780	17/417/4	CORBA Information Model		5,1		2001	Keith Alan and Lakshmi Raman	TD 26 (Plen)	
X.780 Amd 1	17/4					2001	Keith Alen and Tom Rutt		
X.781	17/4					2001	Qi Feng		
X.790	17/4		This Recommendation will contain generic function concerned with trouble reporting and tracking.	3	F, M				
X.790 Corr 1	17/4			2	F, M				
X.790 Corr 2	17/4				F, M	2001			
Amendment 1 to X.790	17/4	MOCS/PICS Proforma	Specifies the conformance statements and a proforma for X.790. This document may be used by ISP and other profile developers, who can use the proforma.	1	C				
X.791	17/4	Profile	Defines a generic profile for trouble management covering provider trouble report and telecommunications trouble report. It uses the X.790 Implementation	2	C				

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			Conformance Statement (i.e. Amendment 1 to Recommendation X.790) and resolves the optional values in the ICS. It is useful for procurers and developers in support of an explicit interface definition for some application although needs to be extended for such purpose.						
X.792	17/4	Configuration audit support		2					
X.901 ISO/IEC 10746-1	24/7	Basic Reference Model of Open Distributed Processing (ODP): Overview	This Recommendation should contain a motivational view of ODP, giving scope, justification and explanation of key concepts, and outline of the ODP architecture. It should contain explanatory material on how the RM-ODP is intended to be understood and applied by its user, who may include standards writers and architects of ODP systems. It should also contain an enumeration of required areas of standardization expressed in terms of the reference points for conformance identified in Recommendation X.903   ISO/IEC 10746-3.	2	A				
X.902 ISO/IEC 10746-2	24/7	Basic Reference Model of ODP: Descriptive Model	This Recommendation should contain the definition of concepts and analytical framework for normalized description of (arbitrary) distributed processing systems. This should only be to a level of detail sufficient to support Recommendation X.903   ISO/IEC 10746-3 and to establish requirements for new specification techniques.	4	A				

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X.903 ISO/IEC 10746-3	24/7	Basic Reference Model of ODP: Prescriptive Model	This Recommendation should contain the specification of the required characteristics that qualify distributed processing as open, in terms of structural rules, functions and services provided. These are the constraints to which ODP standards must conform. It should use the descriptive techniques from Recommendation X.902   ISO/IEC 10746-2.	4	A				
X.904 ISO/IEC 10746-4	24/7	Basic Reference Model of ODP: Architectural Semantics, specification techniques and formalisms	This Recommendation should contain a formalization of the ODP modelling concepts defined in Recommendation X.902   ISO/IEC 10746-2. The formalization is achieved by interpreting each concept in terms of the constructs of the different standardized formal description techniques.	2	S				
X.950 ISO/IEC Trader	24/7	ODP Trader	This Recommendation should contain a specification of the ODP Trader, as identified and positioned in Recommendation X.903   ISO/IEC 10746-3. It should contain a normative specification of the support of ODP Trader functions and services using the X.500 Directory.		ODP specific				
X.TR   ISO/IEC TR	24/7	Use of formal specification techniques for ODP	This Recommendation should contain an analysis of formal description techniques for use in ODP, assessing their respective strengths and deficiencies. It should also contain some guidelines on the use of assessed FDTs for ODP system design. It uses Recommendation X.904   ISO/IEC		ODP specific				

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			10746-4 as a basis.						
Y.1710	3/13	Requirements for OAM functionality for MPLS networks							
Y.1711	3/13	OAM mechanisms for MPLS networks							
Y.1712	3/13	Protection Switching for MPLS networks							
Z.110									
Z.334		Subscriber Administration		4	F				
Z.335		Routing Administration		4	F				
Z.336		Traffic Measurement Administration		4	F				
Z.337		Network Management Administration		4	F				
Z.351		Data Oriented HMI Specification Part 1: Introduction	This Recommendation defines the purpose, users and terminology of the Data Oriented Human-Machine Interface (HMI) specification technique.  Draft Recommendation in COM X-R 12 contains a more extensive glossary.	4	S				
Z.352		Data Oriented HMI Specification Part 2: Scope, approach and Reference Model	This Recommendation defines an overall development method, a reference model and scope of the HMI. An annex contains guidelines on data design.  Draft Recommendation in COM X-R 12 contains an appendix on the mapping to the TMN functional architecture. Also a graphical notation is used in the guidelines on data design. Annex A of Q.2/10 in	4	S				

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			COMX-R 35 contains draft text on presentation elements.						
Z.400 series									
Z.500 series									
ISO/IEC ISP 11183-1	ISO	Specification of ACSE, Presentation and Session Protocols for use by CMISE and ROSE, Dec. 1992	Specifies the profile for the upper three protocol layers for: Association Control, Presentation and Session protocols in support of network management.	4	I				
ISO/IEC ISP 11183-2	ISO	CMISE/ROSE for AOM12 - Enhanced Management Communications, Dec. 1992	Specifies the profile for CMISE and ROSE application layer protocols. The profile requires the support of all the CMIS services and therefore provides an enhanced communications platform for network management. This includes the filter, multiple object selection, multiple reply and cancel-get functional units in addition to the kernel functional unit.	4	I				
ISO/IEC ISP 11183-3	ISO	CMIS/ROSE for AOM11 - Basic Management Communications, Dec. 1992	This part specifies a second profile for CMISE and ROSE Application layer protocol. The profile only requires the support of the CMIS kernel functional unit and is therefore providing a basic communications platform for network management.	4	I				
ISO/IEC ISP 12060-1	ISO	AOM 211 - General Management Capabilities	Specifies a profile comprised of Object Management (X.730 capability), State Management (X.731 capability), Attributes for Representing Relationships (X.732 capability) and Alarm Reporting	4	I				

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			Function (X.733 capability). The profile is intended for a system implementing fault reporting and configuration management capabilities including creation and deletion of managed objects and retrieval and modification of attributes.						
ISO/IEC ISP 12060-2	ISO	AOM 212 - Alarm Reporting and State Management Capabilities	The profile specifies State Management (X.731 capability) and Alarm Reporting Function (X.733 capability). The profile requires the support of alarm notifications and state change notifications and the ability to retrieve and modify attributes.	4	I				
ISO/IEC ISP 12060-3	ISO	AOM 213 - Alarm Reporting Capabilities	The profile specifies Alarm notification (X.733 capability). The profile is most suitable for a system operating in a manager role with limited functionality.	4	I				
ISO/IEC ISP 12060-4	ISO	AOM 221 - General Event Report Management	The profile specifies the ability to select which notifications are sent by a system and where they are sent to (X.734 capability). An agent must implement at least one event forwarding discriminator (EFD). The ability to create and delete an EFD is included.	4	I				
ISO/IEC ISP 12060-5	ISO	AOM 231 - General Log Control	The profile specifies the implementation requirements for log and record managed objects. The profile specifies the ability to select which notifications, generated locally or remotely, are logged within the system (X.735 capability).	4	I				
ISO/IEC ISP	ISO	AOM 242 - Security	This profile is associated with OSI	4	I				

<b>Code</b>	<b>Question</b>	<b>Title</b>	<b>Description</b>	<b>Doc. status</b>	<b>Doc. class</b>	<b>Planned date for SG approval quarter / year</b>	<b>Editor</b>	<b>Latest Text</b>	<b>Dependencies</b>
12060-6		Management	systems management documents - X.736 and X.740						
ISO/IEC ISP 12060-8	ISO	AOM 253 Performance Management: Summarization	This profile is associated with OSI systems management document - X.738	4	I				