Technical Specification Group Services and System Aspects   **_TSGS#8(00)0225_**
Meeting #8, Düsseldorf, Germany, 26-28 June 2000

Source:	**SA5 (Telecom Management)**
Title:	**32.101 CR, "Add and Update Correct Normative Reference List" (S5-000292)**
Document for:	**Approval**
Agenda Item:	**6.5.3**

Spec	CR	Phas	Subject	Ca	Versi	Versi	Doc-2nd-Level
32.101	004	R99	Add and Update Correct Normative	F	3.1.1	3.2.0	S5-000292

3GPP TSG-SA5 (Telecom Management)
Meeting #12, Rome, 5–9 June 2000

SA5#12(00)0292

e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST	*Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.*

32.101	CR	**004**	Current Version:	3.1.1

GSM (AA.BB) or 3G (AA.BBB) specification number ↑   *↑ CR number as allocated by MCC support team*

For submission to:	SA#8	for approval	X	strategic		*(for SMG*
list expected approval meeting # here ↑		for information		non-strategic		*use only)*

Form: CR cover sheet, version 2 for 3GPP and SMG   *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: (U)SIM ☐   ME ☐   UTRAN / Radio **X**   Core Network ☐
(at least one should be marked with an X)

Source:	SA5#12		**Date:**	9 June 2000

Subject:	Re-Add and Update Correct Normative Reference List to 32.101

Work item:	32.101 3G Telecom Management principles and high level requirements

Category:	F	Correction	**X**	**Release:**	Phase 2	
	A	Corresponds to a correction in an earlier release			Release 96	
(only one category	B	Addition of feature			Release 97	
shall be marked	C	Functional modification of feature			Release 98	
with an X)	D	Editorial modification			Release 99	**X**
					Release 00	

Reason for change:	1) When 32.101 was published the normative reference list was truncated by MCC (due to specifications not being directly referenced) and many references (e.g. relating to CORBA, FTAM, CMIP and OSI) were lost. This error exists in both the published 3.0.0 and 3.1.1 versions. This CR proposes to re-add and update those missing references. It also proposes to additionally explicitly link many of the references to Normative Annexes A & B (Application and Network Layer Protocols).

Clauses affected:	2.1, Appendix A & Appendix B

Other specs affected:	Other 3G core specifications	☐	→ List of CRs:	
	Other GSM core specifications	☐	→ List of CRs:	
	MS test specifications	☐	→ List of CRs:	
	BSS test specifications	☐	→ List of CRs:	
	O&M specifications	☐	→ List of CRs:	

Other comments:	

2   References

2.1   Normative references

[1]   ITU-T Recommendation M.3010-2000(1996): "Principles for a telecommunications management network".

[2]   Third Generation Partnership Project; Technical Specification Group Services and Systems Aspects: 3G TS 22.101 "Service Principles".

[3]   Third Generation Partnership Project; Technical Specification Group Services and Systems Aspects: 3G TS 32.111   "3G Fault Management".

[4]   IETF RFC 959 File Transfer Protocol (FTP), October 1985, J. Postel, J. Reynolds, ISI. Status: Standard

[5]   IETF RFC 783 Trivial File Transfer Protocol (TFTP) revision 2, June 1981, K.R. Sollins MIT. Status: Unknown

[6]   IETF RFC 1157 A Simple Network Management Protocol (SNMP), May 1990, J. Case, SNMP Research, M. Fedor, Performance Systems International, M. Schoffstall, Performance Systems International, J. Davin, MIT Laboratory for Computer Science. Status: Standard

[7]   IETF RFC2401 Security Architecture for the Internet Protocol, IETF, November 1998.Status: Proposed Standard

[8]   The Object Management Group (OMG) "The Common Object Request Broker: Architecture and Specification", Revision 2.3, June 1999

[9]   ITU-T Q.811-1997: "Lower Layer Protocol Profiles for the Q3 Interface".

[10]   ITU-T Q.812-1997: "Upper Layer Protocol Profiles for the Q3 Interface".

[11]   ITU-T X.650-1996 "Information Technology - Open Systems Interconnection – Basic Reference Model: Naming and Addressing".

[12]   ITU-T X.700-1992: "Management Framework for Open Systems Interconnection (OSI)".

[13]   ISO IS 8571-1:1988: "Information Processing Systems - Open Systems Interconnection - File Transfer, Access and Management - Part 1: General Introduction".

[14]   ISO IS 8571-2:1988: "Information Processing Systems - Open Systems Interconnection - File Transfer, Access and Management - Part 2: Virtual Filestore Definition".

[15]   ISO IS 8571-3:1988: "Information Processing Systems - Open Systems Interconnection - File Transfer, Access and Management - Part 3: File Service Definition".

[16]   ISO IS 8571-4:1988 "Information Processing Systems - Open Systems Interconnection - File Transfer, Access and Management - Part 4: File Protocol Specification".

[17]   ISO/IEC ISP 10607-1:1995: "Information technology - International Standardized Profiles AFTnn - File Transfer, Access and Management - Part 1: Specification of ACSE, Presentation and Session Protocols for the use by FTAM".

[18]   ISO/IEC ISP 10607-2:1995: "Information technology - International Standardized Profiles AFTnn - File Transfer, Access and Management - Part 2: Specification of Document Types, Constraint sets and Syntaxes".

[19]   ISO/IEC ISP 10607-3:1995: "Information technology - International Standardized Profiles AFTnn - File Transfer, Access and Management - Part 3: Specification of AFT 11 Simple File Transfer Service (Unstructured)".

[20]   ITU-T X.710-1997: "Information Technology – Open Systems Interconnection - Common Management Information Service".

[21]   ITU-T X.711-1997: " Information Technology – Open Systems Interconnection - Common Management Information Protocol Specification".

[22]   ITU-T X.25-1996: "Interface between Data Terminal Equipment (DTE) and Data Circuit Terminating (DCE) for Terminals operating in the Packet Mode and connected to Public Data Networks by Dedicated Circuit".

[23]   ISO/IEC ISP 11183-1:1992: "Information technology -- International Standardized Profiles AOM1n.OSI Management – Management Communications -- Part 1: Specification of ACSE, presentation and session protocols for the use by ROSE and CMISE".

[24]   ISO/IEC 9545:1994: "Information Processing Systems - Open Systems Interconnection - Application Layer Structure".

[25]   ITU-T X.200-1994: "Information Technology-Open Systems Interconnection-Basic Reference Model: The Basic Model"

[26]   ITU-T (CCITT) X.208 (1988): "Specification of Abstract Syntax Notation One (ASN.1)".

[27]   ITU-T (CCITT) X.209 (1988): "Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1)".

[28]   ITU-T X.210-1993: "Information Technology-Open Systems Interconnection-Basic Reference Model: Conventions for the definition of OSI Services".

[29]   ITU-T X.211-1995: "Information Technology-Open Systems Interconnection-Physical Service Definition".

[30]   ITU-T X.212-1995: "Information Technology-Open Systems Interconnection-Data link Service Definition".

[31]   ITU-T X.213-1995: "Information Technology-Open Systems Interconnection-Network Service Definition".

[32]   ITU-T X.223-1993: "Use of X.25 to provide the OSI Connection-mode network service for ITU-T applications".

[33]   ITU-T X.214-1995: "Information Technology-Open Systems Interconnection-Transport Service Definition".

[34]   ITU-T X.224-1995: "Information Technology-Open Systems Interconnection-Protocol for providing the connection-mode transport service".

[35]   ITU-T X.215-1995: "Information Technology-Open Systems Interconnection-Session Service Definition".

[36]   ITU-T X.225-1995: "Information Technology-Open Systems Interconnection-Connection-oriented session protocol: Protocol specification".

[37]   ITU-T X.216-1994: "Information Technology-Open Systems Interconnection-Presentation Service Definition".

[38]   ITU-T X.226-1994: "Information Technology-Open Systems Interconnection-Connection-oriented presentation protocol: Protocol specification".

[39]   ITU-T X.217-1995: "Information Technology-Open Systems Interconnection-Service definition for the association control service element".

[40]   ITU-T X.227-1995: "Information Technology-Open Systems Interconnection-Connection-orinted protocol for the association control service element: Protocol specification".

[41]   ITU-T (CCITT) X.219 (1988): "Remote Operations: Model, Notation and Service Definition".

[42]   ITU-T (CCITT) X.229 (1988): "Remote Operations: Protocol Specification".

[43]   ISO/IEC 7776:1995: "Information technology – Telecommunications and information exchange between systems -- High-level data link control procedures - Description of the X.25 LAPB-compatible DTE data link procedures.

[44]   ISO/IEC 8208:1995: "Information technology -- Data communications -- X.25 Packet Layer Protocol for Data Terminal Equipment.

[45]   ISO/IEC 8878:1992: "Information technology -- Telecommunications and information exchange between systems -- Use of X.25 to provide the OSI Connection-mode Network Service.

[46]   IETF RFC 1006, ISO Transport on top of the TCP, Marshall T. Rose, Dwight E. Cass, Northrop Research and Technology Center, May 1987. Status: Standard

[47]   IETF RFC 793, Transmission Control Protocol (TCP) DARPA Internet Program Protocol Specification, Information Sciences Institute, University of Southern California, September 1981. Status: Standard

[48]   IETF RFC 791, Internet Protocol (IP) DARPA Internet Program Protocol Specification, Information Sciences Institute, University of Southern California, September 1981. Status: Standard

[49]   ITU-T X.680-1997: "Information Technology-Abstract Syntax Notation One (ASN.1): Specification of Basic Notation".

2.2   Informative references

[100]   NMF GB910. NMF Telecom Operations Map (Evaluation Release Version 1.1 April 1999).

[101]   3G TS 32.102 "Telecom Management Architecture".

[102]   ITU-T Recommendation M.3013-2000: "Considerations for a telecommunications management network."

[103]   ITU-T X.290-1995: "OSI Conformance Testing Methodology and Framework for Protocol Recommendations for ITU-T Applications – General concepts".

Annex A (normative):
UMTS Management Application Layer Protocols

The valid Management Application Layer Protocols for UMTS are:

- CMIP; (Please see ref [20] & [21]).

    NOTE: Normative references relating to running CMIP over OSI application, presentation and session layers are [9] – [12] and [23] - [42].

- SNMP; (Please see ref [6]).

- CORBA IIOP; (Please see ref [8]).

The valid Application Layer Protocols for Bulk Transfer are:

- FTAM; (Please see ref [13] – [19]).

- ftp; (Please see ref [4]).

- tftp; (Please see ref [5]).

Annex B (normative):
UMTS Management Network Layer Protocols

The valid Network Layer -Protocols for the Management of UMTS are:

- IP; (Please see ref [48].

- X.25; (Please see ref [22])

NOTE 1: IP is the recommended Networking Protocol.

NOTE 2: Normative references relating to ISO Transport over TCP-IP are [46] & [47] and ISO Transport over X.25 are [43]-[45]