International Telecommunication Union

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Series X

Supplement 7

(02/2009)

SERIES X: DATA NETWORKS, OPEN SYSTEM COMMUNICATIONS AND SECURITY

ITU-T X.1250 series – Supplement on overview of identity management in the context of cybersecurity

ITU-T X-series Recommendations – Supplement 7

Copyright International Telecommunication Union/ITU Telcommunication Sector
Provided by IHS Markit under license with ITU-T
No reproduction or networking permitted without license from IHS
Licensee=/, User=,
Not for Resale,
Full document details: ITU-T SERIES X SUPP 7 2009

ITU-T X-SERIES RECOMMENDATIONS

DATA NETWORKS, OPEN SYSTEM COMMUNICATIONS AND SECURITY

PUBLIC DATA NETWORKS	X.1–X.199
OPEN SYSTEMS INTERCONNECTION	X.200–X.299
INTERWORKING BETWEEN NETWORKS	X.300–X.399
MESSAGE HANDLING SYSTEMS	X.400–X.499
DIRECTORY	X.500–X.599
OSI NETWORKING AND SYSTEM ASPECTS	X.600–X.699
OSI MANAGEMENT	X.700–X.799
SECURITY	X.800–X.849
OSI APPLICATIONS	X.850–X.899
OPEN DISTRIBUTED PROCESSING	X.900–X.999
INFORMATION AND NETWORK SECURITY	
General security aspects	X.1000–X.1029
Network security	X.1030–X.1049
Security management	X.1050–X.1069
Telebiometrics	X.1080–X.1099
SECURE APPLICATIONS AND SERVICES	
Multicast security	X.1100–X.1109
Home network security	X.1110–X.1119
Mobile security	X.1120–X.1139
Web security	X.1140–X.1149
Security protocols	X.1150–X.1159
Peer-to-peer security	X.1160–X.1169
Networked ID security	X.1170–X.1179
IPTV security	X.1180–X.1199
CYBERSPACE SECURITY	
Cybersecurity	X.1200–X.1229
Countering spam	X.1230–X.1249
Identity management	X.1250–X.1279
SECURE APPLICATIONS AND SERVICES	
Emergency communications	X.1300–X.1309
Ubiquitous sensor network security	X.1310–X.1339

For further details, please refer to the list of ITU-T Recommendations.

Copyright International Telecommunication Union/ITU Telcommunication Sector
Provided by IHS Markit under license with ITU-T
No reproduction or networking permitted without license from IHS
Licensee=/, User=,
Not for Resale,
Full document details: ITU-T SERIES X SUPP 7 2009
Documents
Document Sharing Hub

Supplement 7 to ITU-T X-series Recommendations

ITU-T X.1250 series – Supplement on overview of identity management in the context of cybersecurity

Summary

The security of the traditional public circuit switched telephone network (PSTN) has been addressed over many decades of operation. However, the same cannot be said for distributed public packet-switched networks with multiple-service providers, such as the Internet and next generation networks (NGNs). Such networks use one common transport platform for control traffic and for user traffic which, in addition to the possible anonymity of such traffic and the possibility of generating unidirectional traffic, makes such networks vulnerable to misuse. All electronic services (e-services such as e-business, e-commerce, e-health, e-government) are open to attack. This problem can be at least partly addressed by improving confidence in the identity of users, network devices and service providers, so that they can be authenticated, granted appropriate access, and audited. Because identity management provides greater assurance and trust in user, service provider, and network device identities, it improves security by reducing exposure to security risks. This aspect of cybersecurity is something that service providers need to consider at a business and technical level, and that governments need to consider on a national level as part of the national cybersecurity plan.

Source

Supplement 7 to ITU-T X-series Recommendations was agreed on 20 February 2009 by ITU-T Study Group 17 (2009-2012).

--`,,```,,,,````-`-`,,`,,`,`,,`---

Copyright International Telecommunication Union/ITU Telcommunication Sector
Provided by IHS Markit under license with ITU-T
No reproduction or networking permitted without license from IHS

Licensee=/, User=,
Not for Resale,

Full document details: ITU-T SERIES X SUPP 7 2009

Documents
Document Sharing Hub

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications, information and communication technologies (ICTs). The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this publication, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Compliance with this publication is voluntary. However, the publication may contain certain mandatory provisions (to ensure e.g. interoperability or applicability) and compliance with the publication is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the publication is required of any party.

INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this publication may involve the use of a claimed Intellectual Property Right. ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the publication development process.

As of the date of approval of this publication, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this publication. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at http://www.itu.int/ITU-T/ipr/.

© ITU 2009

All rights reserved. No part of this publication may be reproduced, by any means whatsoever, without the prior written permission of ITU.

Documents
Document Sharing Hub
Copyright International Telecommunication Union/ITU Telcommunication Sector
Provided by IHS Markit under license with ITU-T
No reproduction or networking permitted without license from IHS
Licensee=/, User=,
Not for Resale,
Full document details: ITU-T SERIES X SUPP 7 2009

CONTENTS

		Page
1	Scope	1
2	References	1
3	Definitions	1
4	Abbreviations and acronyms	1
5	Conventions	1
6	Importance of IdM to global network infrastructure protection and multi-national coordination for security	1
7	Identity management as an enabler of trusted communication between two entities	1
8	Protection, maintenance, revocation and control of identity data	2
9	"Discovery" of trusted sources of identity data	2
10	Electronic government services (e-government services)	2
11	Regulatory considerations in connection with IdM	2

Documents
Document Sharing Hub
Copyright International Telecommunication Union/ITU Telcommunication Sector
Provided by IHS Markit under license with ITU-T
No reproduction or networking permitted without license from IHS
Licensee=/, User=,
Not for Resale,
Full document details: ITU-T SERIES X SUPP 7 2009