
**Information technology — Security
techniques — Telebiometric
authentication framework using
biometric hardware security module**

*Technologies de l'information — Techniques de sécurité —
Infrastructure d'authentification télébiométrique utilisant un module
de sécurité matériel biométrique*

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ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

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This document was prepared by ISO/IEC JTC 1, *Information technology, SC 27, IT Security techniques*, in collaboration with ITU-T. The identical text is published as ITU-T X.1085 (10/2016).

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**INTERNATIONAL STANDARD ISO/IEC 17922
RECOMMENDATION ITU-T X.1085****Information technology – Security techniques – Telebiometric authentication framework using
biometric hardware security module****Summary**

Recommendation ITU-T X.1085 | ISO/IEC 17992 describes a telebiometric authentication scheme using biometric hardware security module (BHSM) for the telebiometric authentication of proving owner of ITU-T X.509 certificate registered individual at registration authority (RA). This Recommendation | International Standard provides the requirements for deploying the BHSM scheme to securely operate the telebiometric authentication under PKI environments. The scheme focuses on providing how to assure the telebiometric authentication with biometric techniques and hardware security module and it also suggests ASN.1 standard format for including the proposed scheme in ITU-T X.509 framework when telebiometric authentication and ITU-T X.509 certificate are combined to prove the owner of the certificate.

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History

Edition	Recommendation	Approval	Study Group	Unique ID*
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Keywords

Biometric hardware security module, BHSM, ITU-T X.509 certificate, ISO/IEC 24761, pseudonymous identifier, PSID, public key infrastructure, PKI, telebiometric authentication.

* To access the Recommendation, type the URL <http://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID. For example, <http://handle.itu.int/11.1002/1000/11830-en>.

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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.

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CONTENTS

	<i>Page</i>
1 Scope	1
2 Normative references.....	1
2.1 Identical Recommendations International Standards	1
2.2 Paired Recommendations International Standards equivalent in technical content.....	2
2.3 Additional references	2
3 Definitions	2
3.1 Terms defined in this Recommendation International Standard.....	2
3.2 Terms defined in other International Standards	2
4 Abbreviations	3
5 Symbols and terminology.....	3
6 Biometric hardware security module for telebiometric authentication.....	3
6.1 Additional feature of BHSM to the HSM.....	3
6.2 General scenario for use of the BHSM.....	4
6.3 Telebiometric authentication using the BHSM	4
7 Telebiometric authentication with biometric hardware security module.....	5
7.1 General.....	5
7.2 Enrolment procedures	5
7.3 Telebiometric authentication processes.....	7
8 BHSM based telebiometric authentication procedures.....	9
8.1 PSID generation and ITU-T X.509 certificate	9
8.2 BHSM based telebiometric authentication process	10
8.3 ASN.1 type for the encrypted PSID	10
Annex A – PSID and related information.....	11
A.1 General	11
A.2 Encrypted PSID requesting an ITU-T X.509 certificate	11
A.3 ASN.1 for PSID	11
Annex B – Procedures for inserting PSID using PKCS #10 with modification	13
Bibliography	14