BS ISO/IEC 17922:2017

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

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National foreword

This British Standard is the UK implementation of ISO/IEC 17922:2017.

The UK participation in its preparation was entrusted to Technical Committee IST/33/5, Identity Management and Privacy Technologies.

A list of organizations represented on this committee can be obtained on request to its secretary.

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INTERNATIONAL STANDARD

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

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Foreword

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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.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T X.1085	2016-10-14	17	11.1002/1000/13060

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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FOREWORD

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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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