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**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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**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	<a href="http://handle.itu.int/11.1002/1000/13060">11.1002/1000/13060</a>

### Keywords

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

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\* 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>.