Identity Management and Privacy Technologies

9th ETSI Security Workshop

Sophia-Antipolise

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Vice-Convenor WG 5
WG 5 Identity Management & Privacy Technologies

Agenda

- WG 5 within SC 27
- A bit of history pre WG 5
- Scope of WG 5
- WG 5 project overview
- ISO standards development processes
- An example for the approach of WG 5
- Projects in detail
- WG 5 Standing Documents
- Liaison organisations
- Meeting schedule
WG 1 ISMS

WG 3 Security Evaluation

WG 4 Security Controls & Services

WG 2 Cryptography & Security Mechanisms

WG 5 Identity Management & Privacy Technologies

Techniques

Guidelines

Assessment

Product System Process Environment
WG 5 Identity Management & Privacy Technologies

Scope

- Development and maintenance of standards and guidelines addressing security aspects of
  - Identity management
  - Biometrics and
  - Privacy
Frameworks & Architectures

- A Framework for Identity Management (ISO/IEC 24760, IS, CD, WD)
- Privacy Framework (ISO/IEC 29100, IS)
- Privacy Architecture Framework (ISO/IEC 29101, IS)
- Entity Authentication Assurance Framework (ISO/IEC 29115, IS)
- A Framework for Access Management (ISO/IEC 29146, CD)
- Telebiometric authentication framework using biometric hardware security module (ITU-T X.1085 | ISO/IEC 17922, WD) (formerly X.bhsm)

Protection Concepts

- Biometric information protection (ISO/IEC 24745, IS)
- Requirements for partially anonymous, partially unlinkable authentication (ISO/IEC 29191, IS)

Guidance on Context and Assessment

- Authentication Context for Biometrics (ISO/IEC 24761, IS)
- Privacy Capability Assessment Model (ISO/IEC 29190, CD/DIS)
- Code of practice for PII protection in public clouds acting as PII processors (ISO/IEC 27018, DIS)
- Identity Proofing (ISO/IEC 29003, WD)
- Privacy impact assessment – Methodology (ISO/IEC 29134, WD)
- Code of practice for the protection of personally identifiable information (ISO/IEC 29151, WD)
Frameworks & Architectures

- A Framework for Identity Management (ISO/IEC 24760)
  - Part 1: Terminology and concepts (IS, freely available)
  - Part 2: Reference framework and requirements (CD)
  - Part 3: Practice (WD)
- Privacy Framework (ISO/IEC 29100, IS)
- Privacy Architecture Framework (ISO/IEC 29101, IS)
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Study Periods

- Privacy Impact Assessment
- Security evaluation of anti-spoofing techniques for biometrics (together with WG 3)
- Age Verification
Standing Documents

- WG 5 Roadmap (WG 5 SD1)
- Privacy References List (WG 5 SD2) (public)
- Harmonized Vocabulary Effort (WG 5 SD3)
- Standards Privacy Assessment (SPA) (WG 5 SD4)
WG 5 Identity Management & Privacy Technologies Roadmap

ISO/IEC JTC 1/SC 27/WG 5 Identity Management & Privacy Technologies
WG 5 Identity Management & Privacy Technologies

Privacy/PII standards in SC 27/WG 5 and elsewhere

Framework

Terminology and principles
- 29100 Freely available?
Privacy references list
- SD2 Freely available

Management

Privacy impact assessment
- 29134 Risks
Privacy capability maturity model
- 29190 Maturity levels

ICT system architecture
- 29101 ICT components
Requirements
- 29191 Partially anonymous / partially unlinkable

Technology

Information security controls
- 27002 Controls
Cloud controls
- 27018
PII controls
- 29151

Support

Standards privacy assessment
- SD4 Freely available

WG 5 project
other project
With organizations and committees dealing with specific requirements and guidelines for services and applications, e.g.:

- ISO/IEC JTC 1
- ISO

- CEN
- ETSI
- ITU-T

Further organisations with specific application needs and/or expertise:

- JTC 1/SC 17/WG 4
  - Integrated circuit card with contacts
- JTC 1/SC 37
  - Biometrics
- JTC 1/SC 38
  - Distributed application platforms and services (DAPS)
- ISO TC 215/WG 4
  - Health Informatics Security
- CEN TC 225
  - AIDC Technologies
- ITU-T SG 13
  - Future networks including mobile and NGN
- ITU-T SG 17
  - Security
- ITU-T JCA Cloud
  - Cloud Computing Privacy Aspects
WG 5 Identity Management & Privacy Technologies
Liaisons and collaboration

- ABC4Trust
- Article 29 Working Party of Data Protection Authorities in the European Union
- Cloud Security Alliance (CSA)
- ENISA (European Network and Information Security Agency)
- EUDCA (European Data Centre Association)
- FIDIS (Future of Identity in the Information Society)
- Kantara Initiative (succeeding Liberty Alliance)
- PICOS (Privacy in Community Services)
- The International Conference of Data Protection and Privacy Commissioners
2014-04-07 – 2014-04-11 Hong Kong: WG 5 Meeting


2014-10-20 – 2014-10-24 Mexico City (Mexico): WG 5 Meeting

2015-05-04 – 2015-05-08 Sarawak (Malaysia): WG 5 Meeting


2015-10-26 – 2013-10-30 Jaipur (India): WG 5 Meeting
WG 5 Identity Management & Privacy Technologies
Further Reading

- www.jtc1sc27.din.de/en
  - SD6 Glossary of IT Security Terminology
  - SD7 Catalogue of SC 27 Standards & Projects
  - WG 5/SD2 Privacy Documents References List
- www.iso.org/obp/ui
  - ISO Online Browsing Platform (OBP)
Thank you very much for your attention and interest.