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Madrid 4, 5 y 6 de noviembre 2009
conferencia internacional
de autoridades de protección
de datos y privacidad

Madrid, 4, 5 et 6 novembre 2009
conférence internationale
des commissaires à la protection
des données et de la vie privée

Madrid, 4th, 5th and 6th, november 2009
international conference
of data protection
and privacy commissioners



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

Panel 5 “Privacy by Design”

The role of Standardisation Today is Tomorrow

Prof. Dr. Kai Rannenberg

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

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Why Privacy by design?

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

- The alternative is:



Why Privacy by design?

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

- The alternative is:

Privacy by disaster



Why Privacy by design?

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

- The earlier requirements are considered ...
- ...the easier
 - They can be fulfilled
 - Fulfilment can be assessed



Why Standardisation (in the field of Privacy) ?

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

- To find global answers in an interconnected world
- To mutually learn from experiences and best practices
- To support the respective (self-) regulation in the light of current challenges
- To overcome the “Privacy is exotic/expensive” prejudice



Standardisation and Privacy by Design

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

- „Today is tomorrow“
- Make the tomorrow of Privacy visible today
- Influences from
 - Other regions of the world and their
 - Cultural backgrounds
 - Changes in society
 - New technologies
 - New application areas



WG 5 Identity Management & Privacy Technologies Programme of Work

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

Frameworks & Architectures

- A Framework for Identity Management (ISO/IEC 24760, CD)
- Privacy Framework (ISO/IEC 29100, CD)
- Privacy Reference Architecture (ISO/IEC 29101, WD)
- A Framework for Access Management (ISO/IEC 29146, WD)

Protection Concepts

- Biometric template protection (ISO/IEC 24745, CD)
- Requirements on relative anonymity with identity escrow – model for authentication and authorization using group signatures (ISO/IEC 29191, WD)

Guidance on Context and Assessment

- Authentication Context for Biometrics (ISO/IEC 24761, IS)
- Entity Authentication Assurance (ISO/IEC 29115 / ITU-T X.eaa, WD)
- Privacy Capability Maturity Model (ISO/IEC 29190, NP)



WG 5 Identity Management & Privacy Technologies Liaisons and collaboration

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

- With organizations and committees dealing with specific requirements and guidelines for services and applications, e.g.:
 - JTC 1/SC 17/WG 4 Integrated circuit card with contacts
 - JTC 1/SC 17/WG 11 Application of biometrics to cards and personal identification
 - JTC 1/SC 37 Biometrics
 - ISO TC 68/SC 2 Financial Services Security
 - ISO TC 204/WG 1 Intelligent Transport Systems Architecture
 - ISO TC 215/WG 4 and WG 5 Health Informatics Security and Health Cards

 - ITU-T SG 13 Future networks including mobile and NGN
 - ITU-T SG 17 Security
 - ITU-T JCA Identity Management

 - The International Conference of Data Protection and Privacy Commissioners
 - FIDIS (Future of Identity in the Information Society)
 - Liberty Alliance
 - PICOS (Privacy in Community Services)
 - PrimeLife



Thank you very much for your interest

- Further reading
 - www.jtc1sc27.din.de/en
 - SD6 Glossary of IT Security Terminology
 - SD7 Catalogue of SC 27 Standards & Projects



WG 5

Identity Management & Privacy Technologies

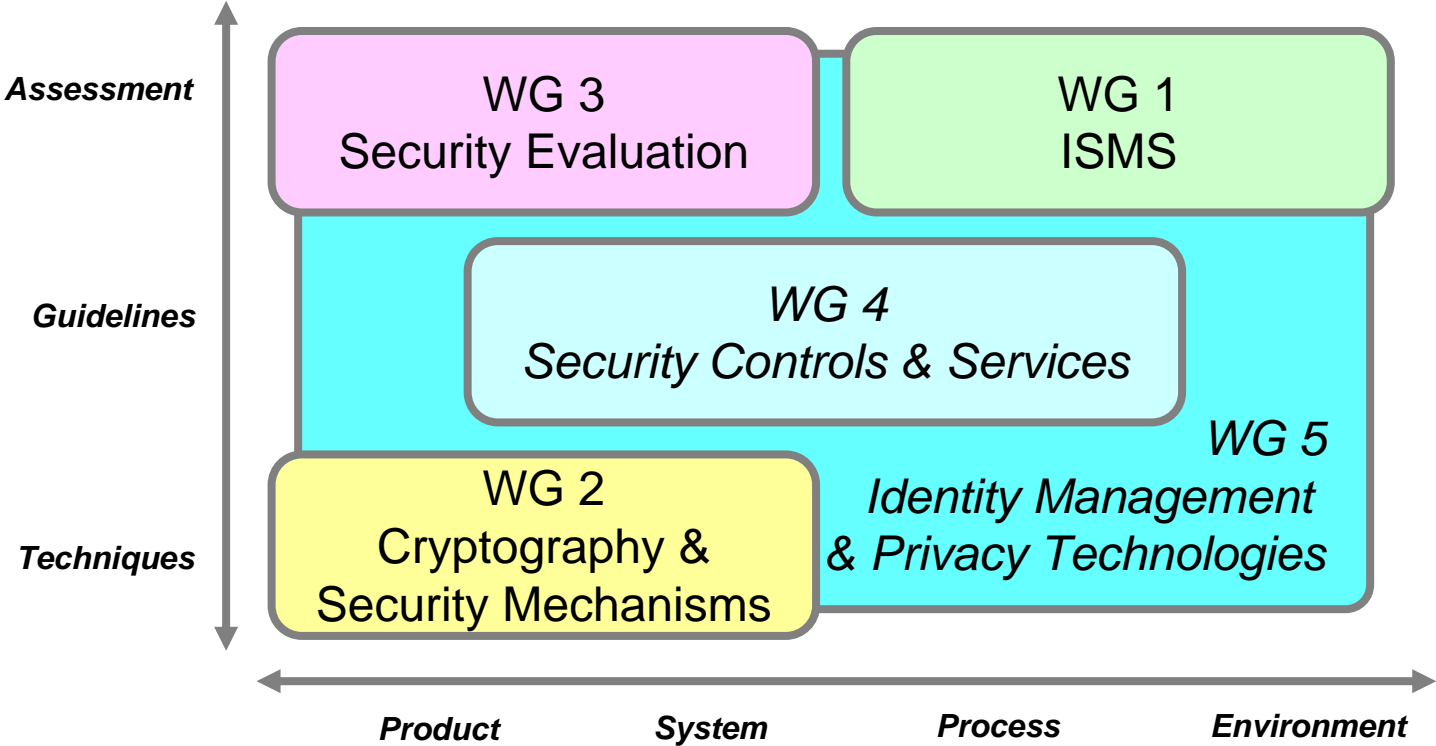
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Backup



WGs within ISO/IEC JTC 1/SC 27 – IT Security Techniques

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





WG 5 Identity Management & Privacy Technologies History

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

October 2003

JTC 1 Plenary established

- JTC 1 Study Group on Privacy Technologies (SGPT)
- for one year period of time (until October 2004) to identify standardization needs

October 2004

JTC 1 Plenary resolved to

- disband SGPT
- assign to SC 27 further activities in the Privacy Technologies area such as
 - a further inventory
 - a report back to the November 2006 JTC 1 Plenary



WG 5 Identity Management & Privacy Technologies History

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

SC 27 activities (in response to JTC 1's request from October 2004)

- **October 2004**
 - Study Period on Identity Management established
- **May 2005**
 - Study Period on Privacy established
 - New Work Item Proposal: **A framework for identity management (ISO/IEC 24760)**
- **May 2006**
 - **New Working Group 5 on Identity Management and Privacy Technologies** established
 - **Two new Work Item Proposals**
 - **A privacy framework (ISO/IEC 29100)**
 - **A privacy reference architecture (ISO/IEC 29101)**



Why Privacy Technologies in ISO/IEC JTC 1/SC 27/WG 5?

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

- ISO/IEC JTC 1 is **truly global**.
- SC 27 „Security techniques“ has **experience** with related technologies.
- Relation between Privacy and Security is **close, complex, and delicate**.
- SC 27 already had
 - An **initial pool of Privacy experts** and enthusiasts.
 - Responsibility for very **Privacy relevant topics, e.g. Identity Management**



Identity Management (IdM)

2 sides of a medal

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

- **Organisations** aim to sort out

- User Accounts in different IT systems
- Authentication
- Rights management
- Access control

- **Unified identities**

help to

- ease administration
- manage customer relations

- **Identity management systems**

- ease single-sign-on by unify accounts
- solve the problems of multiple passwords

- **People** live their life

- in different roles (professional, private, volunteer)
- using different identities (pseudonyms): email accounts, SIM cards, eBay trade names, chat names, 2ndLife names, ...)

- **Differentiated identities**

help to

- protect
 - privacy, especially anonymity
 - personal security/safety
- enable reputation building at the same time

- **Identity management systems**

- support users using role based identities
- help to present the “right” identity in the right context



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WG 5 Identity Management & Privacy Technologies Scope

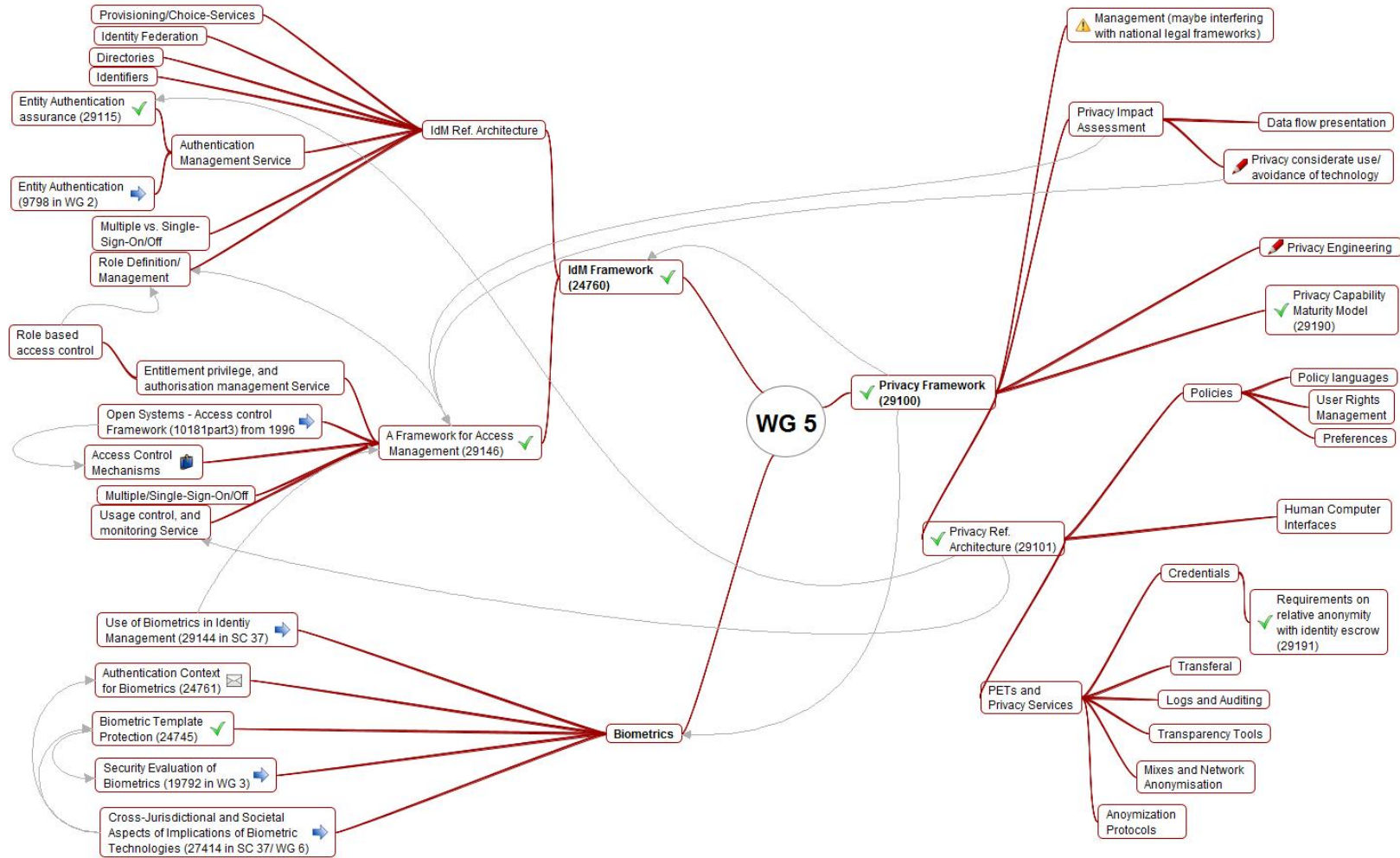
ISO/IEC JTC 1/SC 27/WG 5 Identity Management & Privacy Technologies

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



WG 5 Identity Management & Privacy Technologies Roadmap

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



From the Resolution on Development of International Standards:

- “The Conference wishes to support the development of effective and universally accepted international privacy standards and will make available to ISO its expertise for the development of such standards; and
- The Conference calls on its members to consider potential mechanisms for effecting liaison with ISO on behalf of the Conference.”



Collaboration between the Conference and ISO/IEC JTC 1/SC 27/WG 5 on Development of International Standards

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

1. “ISO/IEC JTC 1/SC 27/WG 5 **welcomes the interest in and support of the International Conference** of Data Protection and Privacy Commissioners for the development of international standards, as expressed in their resolution on the Development of International Standards, released at the 29th International Conference, held in Montreal, Canada 26 – 28 September 2007; and
2. ISO/IEC JTC 1/SC 27/WG 5 also **welcomes the active participation** of several NB Data Protection and Privacy Commissioners in the standardisation conducted in WG 5.”

The **next important step** in promoting a **closer working relationship** between WG 5 and the International Conference would be the **appointment of a liaison officer** from the **Conference**.