Welcome

WORLD PRIVACY AND IDENTITY ASSOCIATION
WPIA – World Privacy and Identity Association

About WPIA

• Associated in Graz, Austria on 10th December 2016

• Mission Statement for everyone to strengthen the personal right to protect confidentiality/privacy as well as the protection of his own identity and integrity

• Operating an accountable and reliable Trusted Service Provider
Universal Declaration of Human Rights

WPIA binds itself to the acceptance of the Universal Declaration of Human Rights to its full extent.

WPIA follows the Guiding Principles on Business and Human Rights.
About me

Reinhard Mutz

Experience in IT since 1986

President of WPIA
All You need is TRUST!

An overview of our path to become the world‘s most Trusted Service Provider
Trusted Service Provider

- Our way to Privacy and Identity
- Electronic digital Certificates are used
  - to replace the handwritten manual signature.
  - to make communications confidential using strong cryptographics.
  - to secure the communication between websites and browsers.
  - to identify the bearer of a certificate.
  - to authenticate the bearer of a certificate in an electronic environment.
A solution must be based on Trust

- Identity

The citizens must have confidence that their data will be received by the addressees fast and reliably. An open and free Internet, the protection of personal data as well as the integrity of interconnected networks are the basis for global prosperity, security and the promotion of human rights.

Austrian Cyber Security Strategy, Vienna 2013, Page 4
A solution must be based on Trust

- Right of Privacy

Privacy is not a commodity that can be sold.
Its utility in various cultural and social settings can differ, but privacy is a human right.

UN World Public Sector Report 2003, Page 105
Global Players in the Market of PKIx

- IETF – Internet Engineering Task Force
  - defining and negotiating standards and protocols
  - RFC 5280
    Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile
  - RFC 6818
    Updates to the Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile
  - RFC 3647
CA/Browser Forum

Baseline Requirements
Certificate Policy
for the
Issuance and Management of
Publicly- Trusted Certificates
Article 1.

Sphere of application*

This Law** applies to any kind of information in the form of a data message used in the context*** of commercial**** activities.
Article 1.
Sphere of application

This Law applies where electronic signatures are used in the context* of commercial** activities. It does not override any rule of law intended for the protection of consumers.
Article 1.
Scope of application

1. This Convention applies to the use of electronic communications in connection with the formation or performance of a contract between parties whose places of business are in different States.
Our Model of Trust

3 Areas

- A technical area
- Human Resources
- An organisational area
Technical Area

• Technical measures against threads and misuse
  - Valid time frames for end entity certificates not longer than 24 months
  - Domain name parsing, e.g. ASCII and UTF8 characters mixed etc.pp.
  - Private key always in the domain of the candidate; will never be transferred to the CA
  - ...

Human Resources

• A Certificate Authority performs 3 different functions
  • RA – Registration Authority
    the user enters all required personal data into a database.
  • VA – Validation Authority
    RA-Agents verify the personal data in a face-to-face meeting on a paperform against an official ID document and against the database.
  • CA – Certificate Authority
    CA uses the personal data to issue a digital certificate.
Human Resources

- RA – Agents are bound by an individual contract to the policies and rules of WPIA
- RA – Agents grant points depending on their personal experience to a candidate
- RA – Agents work voluntarily and cannot be forced to perform a verification
- RA – Agents fulfill several requirements before acting on behalf of the CA
- RA – Agents have passed a test and at least 100 points
# Human Resources

Our Ranking System based on experience

<table>
<thead>
<tr>
<th>Points</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 49</td>
<td>CN := WPIA common user</td>
</tr>
<tr>
<td></td>
<td>SAN := Emailadress</td>
</tr>
<tr>
<td>50 - 99</td>
<td>CN := Personal Data</td>
</tr>
<tr>
<td>100 - MAX</td>
<td>+ may become RA-Agent</td>
</tr>
<tr>
<td></td>
<td>+ may become Organisation Admin</td>
</tr>
<tr>
<td></td>
<td>+ may get code-signing certificates</td>
</tr>
</tbody>
</table>

**RA-Agent must meet a candidate face-to-face!**
Organisational Area

• WPIA is head and center of

• A Servicing and Operating Limited Incorporation
to perform all necessary operations on behalf of WPIA to deploy electronic certificates to the public for free.

• A cooperative incorporation

Tasks are to organize all commercial users to deploy organisation validated (OV) certificates.
Key Factor Transparency

- All source code is published under AGPL
- Test systems are accessible by the public
- All procedures are documented and published

- Arbitration follows strict the rules as layed out in UNCITRAL Model of Arbitration
Thank you!

Visit https://wpia.club

Join WPIA today!
Websites and Links to Documents

Source


Source

Source


Source

Source

IETF
Internet Engineering Task Force

RFC Index
http://www.rfc-editor.org/

CA/B Forum Baseline Requirements
Home of Baseline Requirements
https://cabforum.org/baseline-requirements-documents/