



National
Certification
Authority

WP.30/GE.1 24th session

Ensuring mutual recognition of electronic signatures

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The task

Ensure e-documents *genuineness (integrity + authenticity)* in cross-border scenarios

Best practice

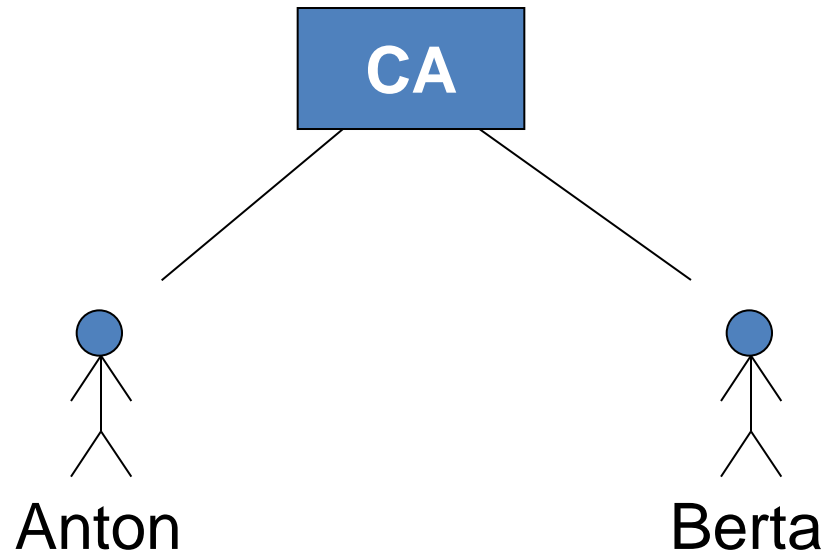
Electronic signature usage (PKI-technology)

- ✓ Secure
- ✓ Scalable
- ✓ Widely used



Users in one domain

Anton trusts CA and Berta trusts CA ->
Anton can verify Berta's e-signature

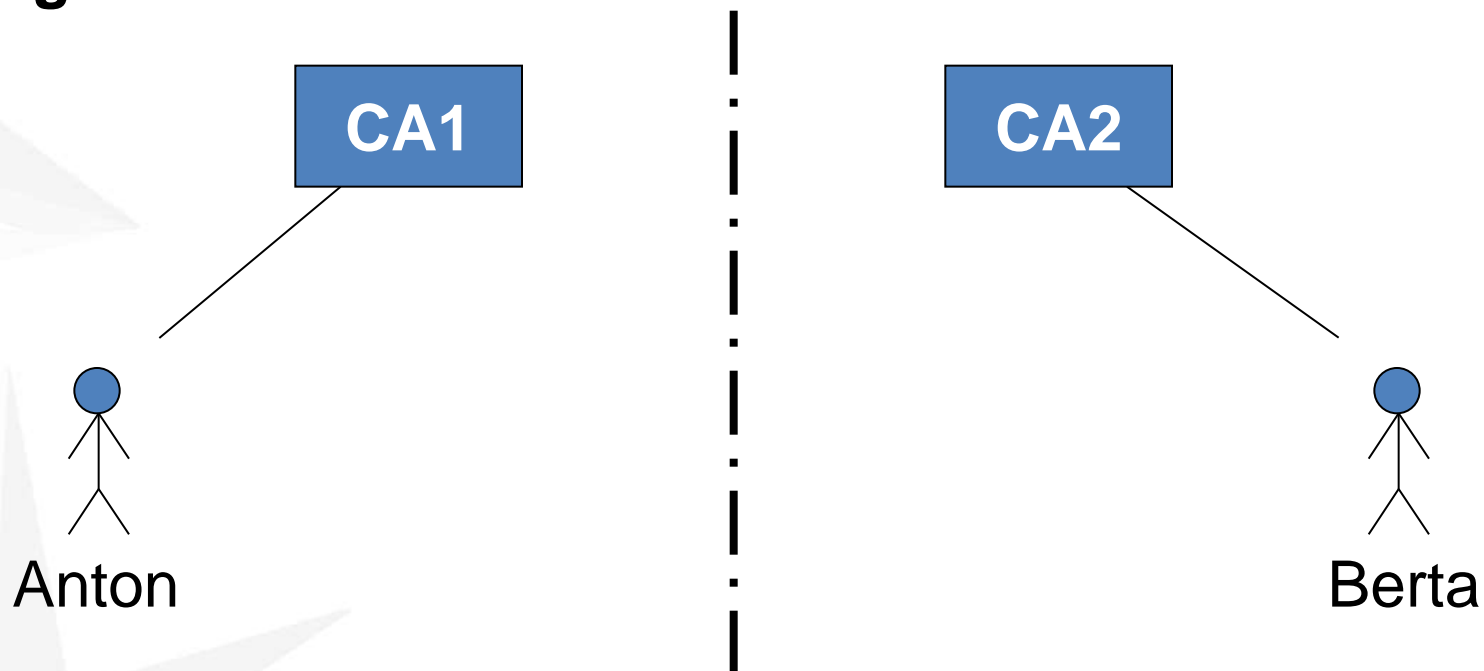


Users in different domains

To verify Berta's e-signature Anton has to:

a) trust CA2

b) be able to technically verify Bertha's electronic signature

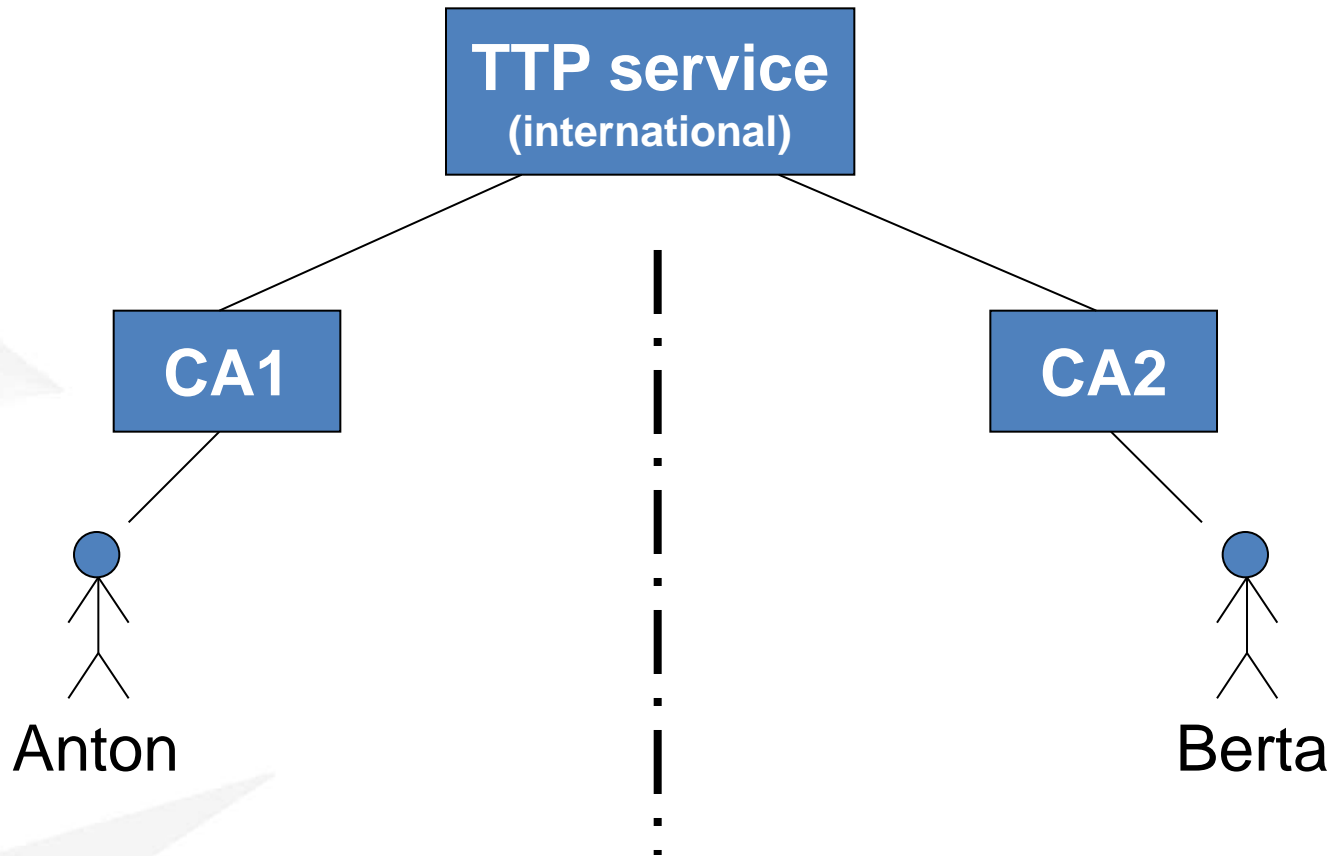


The usage of trusted services of a third party (or TTP services):

- **X.842 Information technology – Security techniques – Guidelines for the use and management of trusted third party services**
- **Electronic identification and trust services (eIDAS)**
- **Documents on TTP within the framework of Eurasian Economic Union, such as IISFMT (Integrated Information System of Foreign and Mutual Trade**

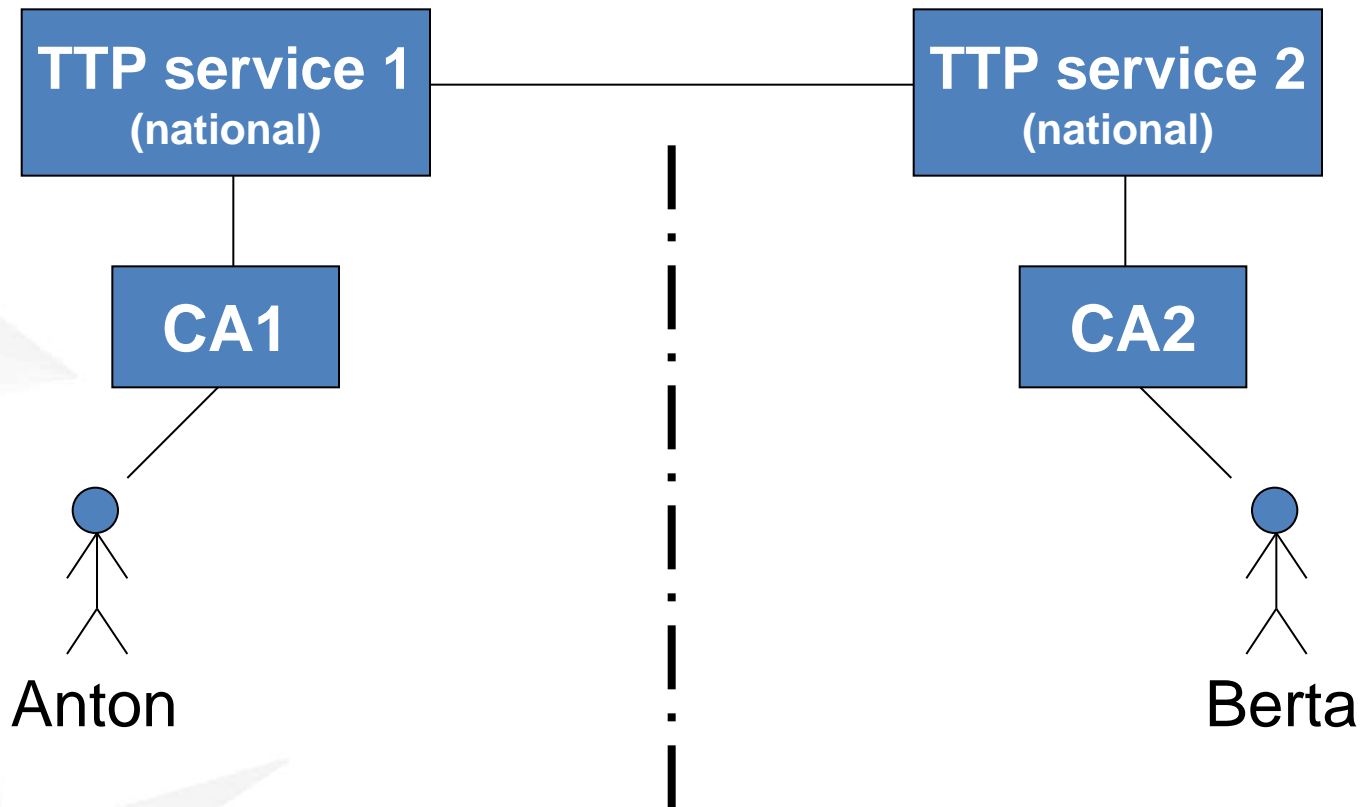
TTP services architecture

Single TTP service



TTP services architecture

Single TTP service per country



Usage in eTIR framework



VS



- ✓ **Alignment with frameworks on eIDAS and/or IISFMT**
- ✓ **Reusability, further development / extension**
- ✗ **Much time to become operational**

- ✓ **Adopted for specific requirements of eTIR**
- ✓ **Reasonable implementation period**
- ✗ **Another local solution**

Questions?

Lets ensure trusted trans-boundary electronic interaction!



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