

Self-audit: Belarusian Grid CA

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UIIP NASB

- Belarusian Grid CA was established and is operated by the State scientific organization "United Institute of Informatics Problems of the National Academy of Sciences of Belarus" (UIIP NASB).
- UIIP NASB is the leading organization in Belarus on fundamental and applied research in information technologies:
CAD/CAM/CAE systems, applied mathematics, high performance parallel computing, bioinformatics and medical informatics, digital cartographic systems, Space informatics, grid and cloud technologies. The institute provides research and education networking in Belarus.

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Grid projects participation:

- Project of the Union State of Russia and Belarus “SKIF-GRID” (2007-2010)
- BalticGrid-II (2008-2010)
- EGI-InSPIRE (2010-2014)

Other membership and participation:

- TERENA
- GN3

Future grid and cloud projects participation:

- Several projects of the Union State of Russia and Belarus are being prepared (2012-...)

Belarusian Grid CA

- Top level Certification Authority to provide PKI services for R&D communities in Belarus.
- Reviewed and blessed for accreditation by Dr. Jens Jensen et al.
- Accredited by EUGridPMA since April 2009. The corresponding trust anchor is published in the IGTF Distribution.
- Website: *ca.grid.by*
- CP/CPS structure: RFC 3647

Stats and Facts

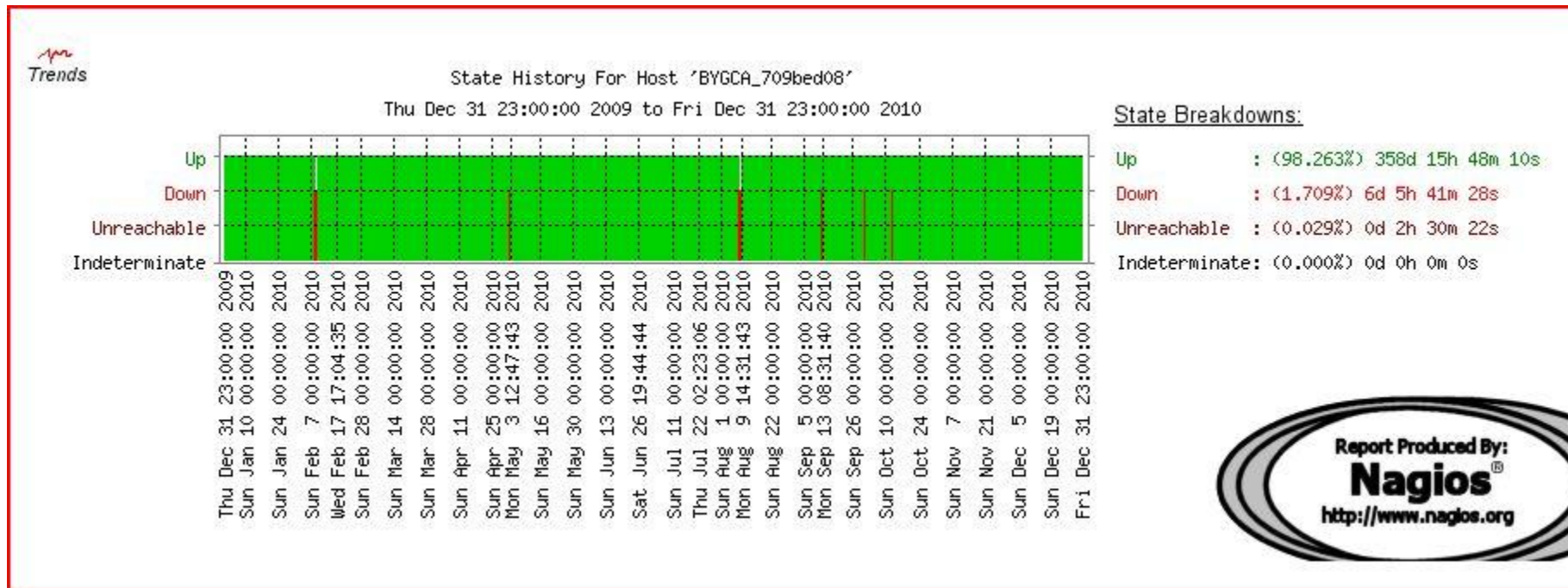
- Driven by EJBCA software
- Root certificate validity: **14 October 2028**
- Number of RAs:
 - maximum: **3**
 - now: **1** (RA at the CA)

Stats and Facts

- Unique subscribers (natural persons): **138**
- Valid user certificates: **78**
- Valid host and service certificates: **85**
- Certificates issued altogether for the lifetime of the CA: **430** ($\sim 3\%$ of them were revoked)

Stats and Facts

- More than 98% of uptime since accreditation. The main reason for downtime is a scheduled power cut.



Audit

Date of auditing:

- **5-9 September 2011**

Document used:

- **GFD-I.169 v1.1 (Oct.28, 2010)**

Overview:

- **64 As**
- **0 Bs**
- **0 Cs**
- **0 Ds**
- **3 Xs**

Issues identified by self-audit

Pros

- BYGCA's CP/CPS in a good shape because it was properly scrutinized in due time. No major changes needed. Minor changes may be made in near future (e.g. upon getting to TACAR).

Issues identified by self-audit

Cons

- Operations can (and should) be improved.
- Not all downtimes were announced to the relying parties.
- Some CRLs were issued less than 7 days before the stated next update time in the latest-issued CRL. Though there was no expired CRLs.
- Some RA to CA communications were unencrypted. It caused no security risk, but CP/CPS must be followed strictly.

Issues identified by self-audit

Latest auditing checklist offered at GFD-I.169 contains some incorrect references to section numbers of CP/CPS according to RFC3647 , e.g. checklist items 28-30.

Thank you!

Any questions?