

# Obtaining QuoVadis certificates from SWITCH

Products and Procedures



# SWITCH

Serving Swiss Universities

Kaspar Brand

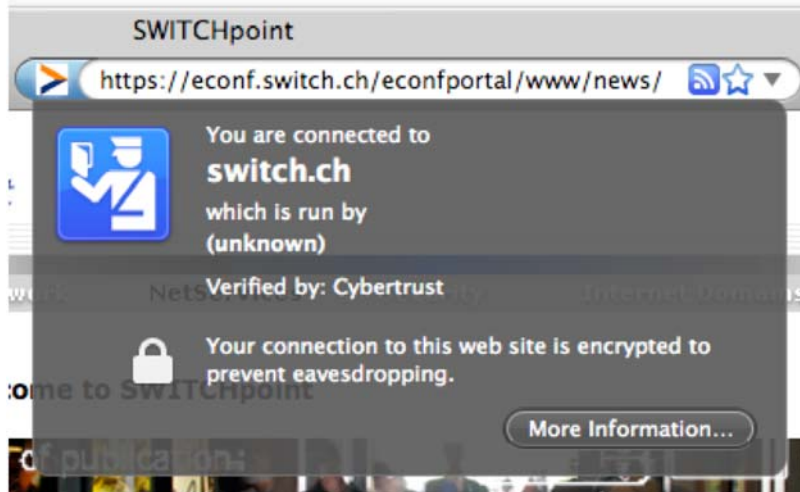
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# Available types of certificates

- Business SSL
  - available with 1-, 2- or 3-year validity
  - for generic SSL/TLS enabled applications: Web servers (HTTP), directory servers (LDAP), Mail servers (IMAP, POP, SMTP), AAI (Shibboleth), RADIUS servers, ...
  - certificate extensions etc. almost identical to current SCS/GlobalSign certificates
- Extended Validation (EV) SSL
  - available with 1- or 2-year validity
  - recommended in particular for Web sites for “human” visitors, and where sensitive data is transmitted (e.g. IdP login page, HR admin database or similar)

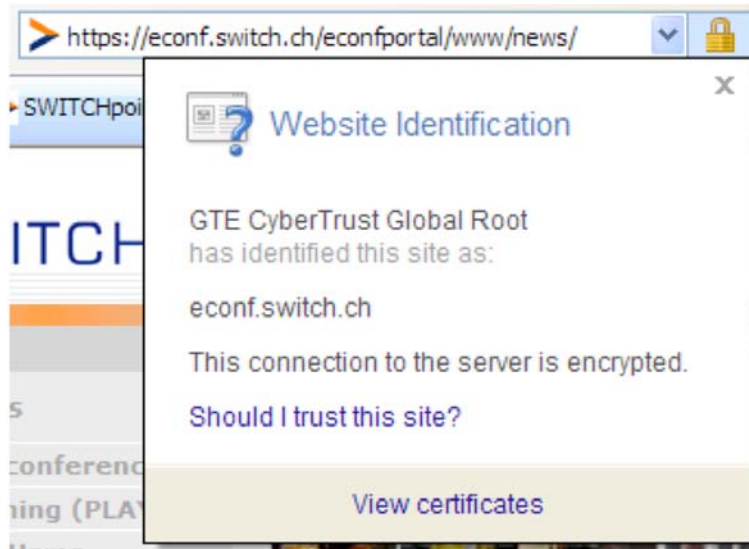
# “Standard” (OV) SSL vs. EV SSL

Firefox 3.0

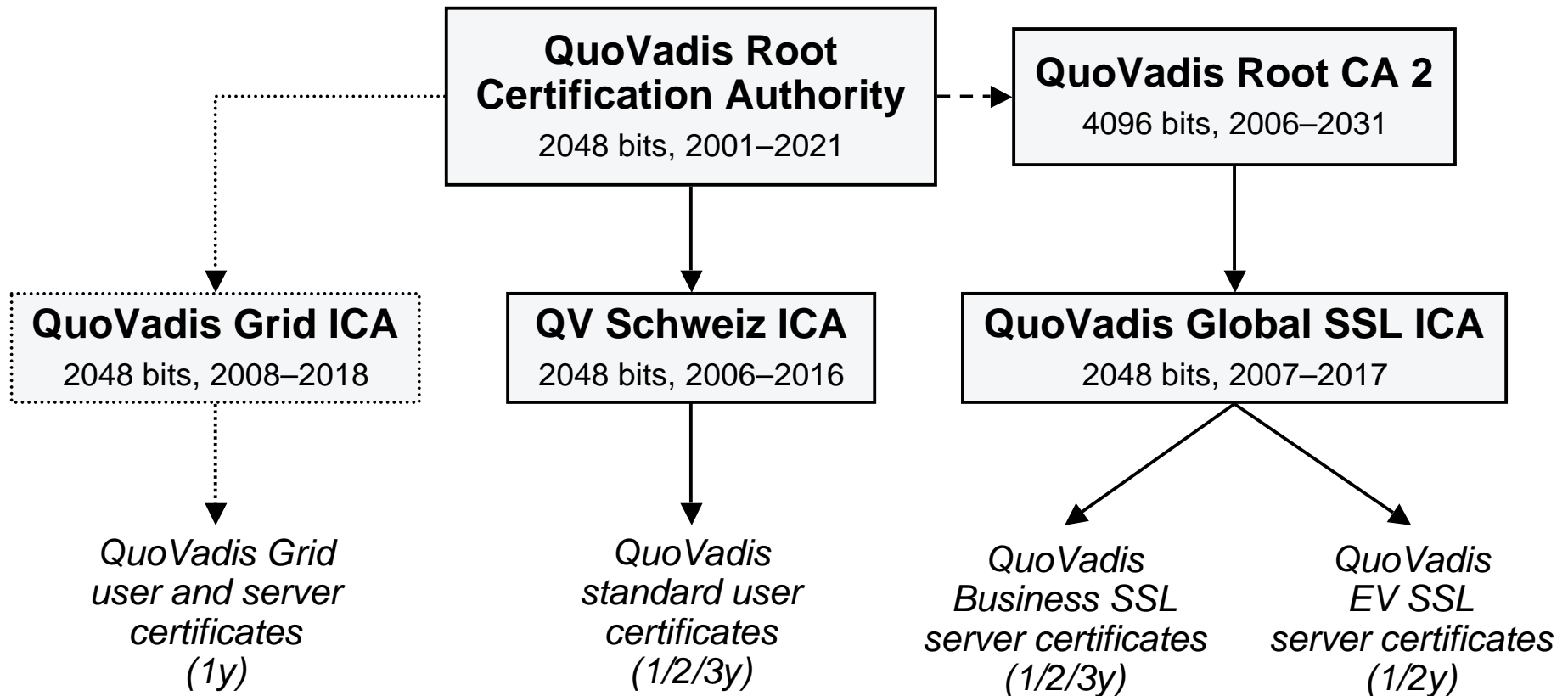


- provides certificates for use in client and server applications

Internet Explorer 7



# The QuoVadis CA certificate hierarchy



# QuoVadis root certificate preinstallation

- Operating systems
  - Microsoft Windows (XP and later)
  - Apple OS/X (10.2/Jaguar and later) and iPhone OS (2.0 and later)
  - RIM Blackberry OS (4.x and later)
- Applications
  - Mozilla NSS based browsers (Firefox 1.0.2 and later, Seamonkey, Camino, ...), mail clients (Thunderbird 1.0.2 and later, Evolution, ...)
  - Opera (9.26 and later)
  - KDE/Konqueror (3.5.6 and later)
- Not (yet?) in
  - Java runtime environments (Sun JRE, most notably)
  - Windows Mobile or Symbian based phones

# Enrollment procedure for QV certificates

- 1) Sysadmin generates key pair and creates CSR
- 2) Sysadmin submits CSR through SWITCH Web form
- 3) Certificate approver (“admin contact”) receives a challenge e-mail and confirms request
- 4) SWITCH RA verifies confirmation message
- 5) EV SSL certificates only: SWITCH RA goes through additional validation steps (as required by the EV Guidelines)
- 6) SWITCH RA operator issues certificate through Trust/Link SSL
- 7) Sysadmin receives e-mail message with certificate download instructions

## Next steps – timeline

- Paperwork: updated SWITCHpki forms
  - to be published on the SWITCHpki Web site next week
  - still the same set (three 1-page forms: RA agreement, proxy form, DNS domain list)
  - will have to be resubmitted for EV SSL certificate requests (but not for Business SSL)
- QuoVadis Trust/Link SSL 2.0
  - test version for SWITCH available by 15 October (according to QuoVadis' current statements)
  - beta testing for SWITCH customers to start shortly thereafter
  - end of beta test period by 15 November, at the latest