

An Experience in Developing Common Certificate Policy

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As Grid security is based on PKI, a Certification Authority (CA) takes an important role as the trust anchor of all the issued certificates. IGTF (International Grid Trust Federation) claims that every CA must have a CP/CPS (Certificate Policy/Certification Practice Statement) in compliance with the policies of IGTF, and be accredited by the regional PMA.

As far as the CP/CPS follows the RFC 3647, the CP can be described independently from the CPS. CP defines usage policy of certificates, which is in our case generally decided as Grid operations and will not be difficult to standardize.

The authors present here their experiences in developing a common CP for Grid CAs. This CP enables a CA to develop local operation policy within the practice descriptions of CPS, which will be efficiently investigated by the regional PMA.