

**SETECS**

Secure Transactions and Electronic Commerce Systems

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SETECS OnePKI™

Global Public-Key Infrastructure

Description

OnePKI™ is a global public-key infrastructure which provides registration and certification functions in local environments and also in a global and open network: creation, issuing, distribution, verification, and revocation of certificates and CRLs. It supports multiple secure network applications: secure Web, secure E-mail, and secure proprietary applications.

Components

1. *Top Level Certification Authority Server – Top/Root CA*, at the top of the certification hierarchy with self-signed certificate;
2. *Policy Certification Authority Server – Policy/Brand CA*, supporting alternative certification policies;
3. *Hierarchy Certification Authority Server – Hierarchy/Geo-political CA*, linking Policy CAs and Local/Bank CAs;
4. *Users Certification Authority Server – Local / Bank CA*, certifying users and application servers in general security environments, and cardholders and merchants in financial security environments;
5. *Registration and certification client* for users and application servers.

Distinguished Features

- Global PKI comprising multiple CA servers and alternative topologies which handles full X.509 v3 certificates with *all certificate extensions* and extended SET certificates with *SET private extensions* for secure payment transactions;
- The system supports alternative configurable *certification policies* and *assurance levels*;
- The system provides easy and transparent handling and strong verification of certificates, based on verification of *certification chains* and use of *CRLs* crossing the CA “bridges”;
- The product is combined with *X.500/LDAP directories* and *smart cards*.

Potential Market and Customers

The product may be used in financial environments (since it supports SET – authorization certificates), in Government agencies and public services organizations (supports scaling and multiple certification policies), and in corporate environments (supports interoperability).

Competitors and Competitive Advantages

There are to some degree equivalent products by major PKI vendors (Verisign, Entrust and Baltimore) and similar small-scale products for single authority environments by some other IT vendors (Microsoft, Netscape, etc). *OnePKI™* is the only PKI system on the market supporting extended SET certificates and scalable to large, global network environments with full certification protocols and easy-to-use user and administrators' interfaces.

Additional Properties

The system is fully compatible and interoperable with other PKI systems in particular fully compliant to the US Government Federal Bridge CA specifications. It may be used in combination with LDAP directories and smart cards. It supports certification functions of the two browsers. The system provides easy to use interfaces for enhancement of applications with certification functions.

About SETECS

SETECS, Inc. develops and licenses Internet security technology products for *Web services* and *mobile applications*. SETECS unique standards based solutions provide simultaneously *protection of network resources* and *trust in network transactions and applications*, effectively eliminating today's most serious and damaging Internet threats such as viruses, spam, hackers, insiders' threats, and intrusions.