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OneNET ™
(Security for E–mail and WWW Systems)

Description

OneNET™ is a single security system for both E–mail and Web applications. It provides strong, end–to–end protection of HTML documents, WWW forms, E–mail letters and communication messages. In addition, it provides authentication, authorization, and security administration for users and for administrators of Web servers.

Components

1. *Local Registration Authority* – RA, based on local data base or LDAP/X.500 directory;
2. *Local Certification Authority* – LCA, based on X.509 certification standards;
3. User *security client*, comprising login, registration, and certification modules;
4. Security module for application servers, with the same components as security client;
5. Secure messaging module, at client's and at the server's side based on S/MIME.

Distinguished Features

- Simple and transparent installation, registration and certification of all participants;
- Simple and transparent certificates and key management functions within a single PKI or across multiple cross–certified PKIs, including transparent access to LDAP/X.500 directories;
- End–to–end protection of WWW and E–mail documents in both directions (from sender to the Web / Mail server and back from Web / Mail server to the receiver);
- Supports simultaneously SSL and S/MIME secure messaging protocols,
- Supports all security features and functions of standard browsers, Web servers, and all mailers.

Potential Market and Customers

The product may be used in banks and other financial institutions (for secure financial transactions), in Government, health–care and public services institutions (privacy), and in corporate environments (protection of sensitive documents against insiders' fraud).

Competitors and Competitive Advantages

There are to some degree equivalent products by major PKI vendors (Entrust and Baltimore) and by other security vendors (RSA Security, Spyrus, Secure Methods). *OneNET*™ has competitive advantage of providing end–to–end security of WWW forms returned from the browser to the Web server, signed by senders and enveloped for recipients. Contrary to most of the existing equivalent individual products, it is a single system for security of multiple network applications.

Additional Properties

Clients may use smart cards. The system is interoperable with all other equivalent certification, SSL and secure E–mail systems on the market, so it may be used in multi–vendor environments. It may be customized for different types of secure transactions.