

TranSON Overview

Transaction Security in Open Networks

TranSON is a software-based IT security solution designed to encrypt lines for non-secure networks and has been certified by the German "Bundesamt für Sicherheit in der Informationstechnik" (federal agency for IT security) as "E3 high".

Many enterprises have to enable access to their intranet resources from the Internet and vice versa. Mobile users as well as external corporate divisions need access across network boundaries. These requirements are met by setting up TranSON components. It is thus possible to connect physically separate users to intranet applications via a non-secure public network. ■■All accesses are encoded transparently for the user ensuring a maximum of security and communication partners are identified using digital IDs.



Secure Communication Technologies

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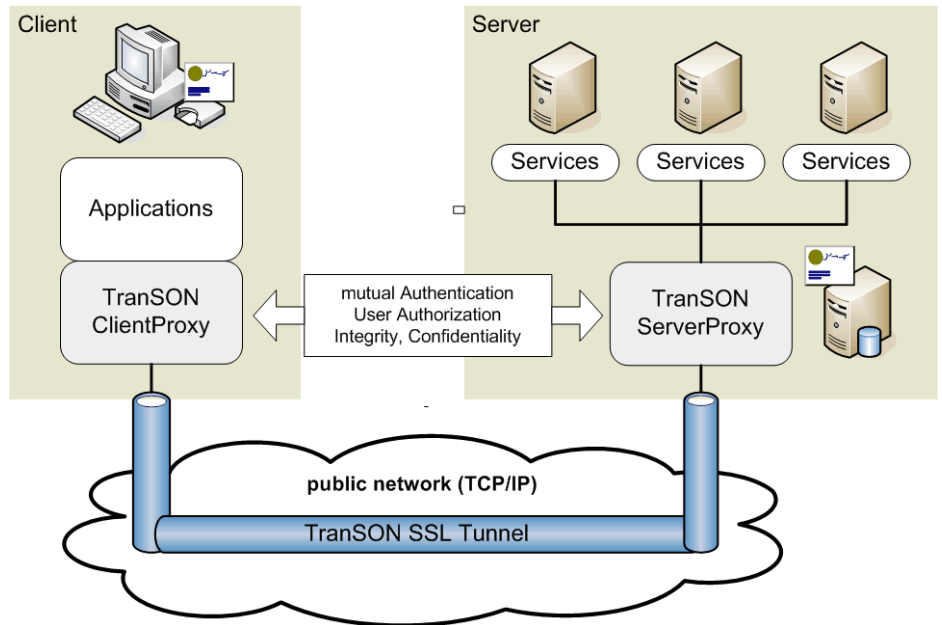
System overview

TranSON is the product name of a security solution of the Siemens AG and means Transaction Security in Open Networks. The security functionality is divided into two categories, transfer-security and installation security.

Certification

The security product TranSON from Siemens was granted the certificate "ITSEC E3 high" by the German BSI (Bundesamt für Sicherheit in der Informationstechnik – Federal agency for IT security). This rating certifies that the software offers the highest "mechanism strength" for guarding against manipulation during data transmission. Thus network access protected by TranSON offers maximum transmission reliability in open networks.

Many installations need to enable access to their intranet-resources from the internet and vice versa. These boundaries between public and private network are usually separated and secured through firewalls. Mobile users and external departments need access to the resources over firewalls. These requirements are met by installing a virtual private network (VPN) with TranSON components to connect partially separated secure areas over an insecure public net. The TranSON with its modular and scalable concept, offers a wide range of application areas in today's and tomorrow's client-server communication.



Architecture

The architecture graphics show a standard solution to secure company's resources within the internal network. With this solution all TCP/IP based business processes (client-server applications) that are exchanging information connection-based can be secured. The connection of the client is done with a TLS-based TranSON Client Proxy. Through the TranSON Server Proxy, application servers, Internet services and databases are separated from the insecure internet. The layer between the insecure net and the application servers is also referred to as a system-wide security middle-ware.

The secure part marks an environment that is protected physically and only accessible to authorized persons. The CA that is separated from the network produces the crypto-graphical key material and records the user-specific information on a Personal Security Environment (PSE) that in turn is protected through a PIN. Only with the proper PSE and PIN, the user is able to authenticate himself or herself against the system.

Only after a connection request of the client to an application on the server-side, a secure channel between the TranSON Client Proxy and the TranSON Server Proxy is established. According to the answer from the authorization server and after the confirmation of the Audit Server that the logging is functioning, the Server Proxy directs the connection request to the application server.

TranSON Highlights

- Security certification: "ITSEC E3 high"
- Single Sign-on
- Authentication of the communication partner: Smart cards (e.g. CardOS), USB tokens username/ password or software-based certificates
- End-to-end encryption to the application
- Interacting authentication, confidentiality, data integrity, authorization and auditing
- Encryption through firewalls and across Proxy Server
- Modular, performant and scalable
- Modules are customizable for customers needs
- Integrated Trustcenter, support for existing PKIs
- Certificates: X.509 v3 certificate, PKCS#12, PEM.
- Applications : Outlook Mapi, Windows Shares, SAP, http, ftp, telnet, ssh, smtp, Citrix ICA, LDAP, PC Anywhere, Oracle and any other TCP-based applications are encryptenable
- Competitive Linux based TranSON appliance available

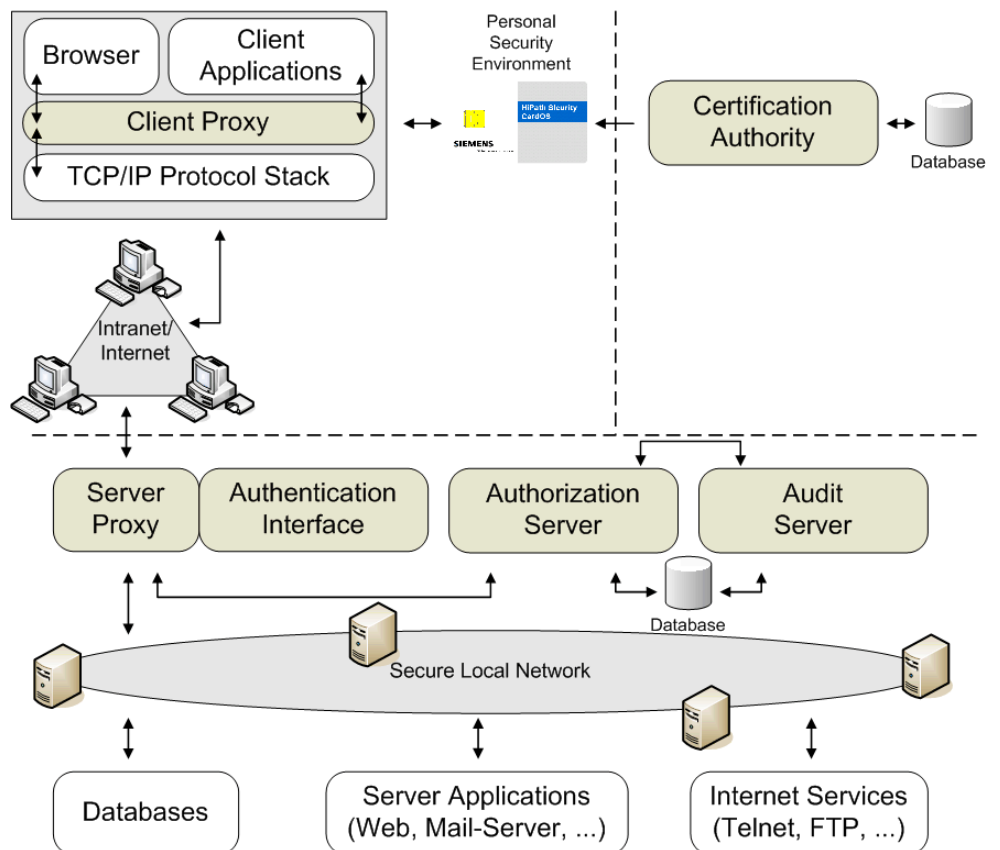


Support

- Windows 98/ME/NT4/2000/XP/2003
- SunSolaris, HP Unix, Linux
- Thin client (FSC FUTRO, Thintune)
- Database oriented auditing (PostgreSQL, Oracle, SQL Server, Access, Adabas,...)
- Access Control (DirX, PostgreSQL, LDAP, Oracle, Access, Adabas,...)

References

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 ...



The Siemens IT security offering for medical or enterprise environments and the public sector comprises products and solutions that provide confidentiality, integrity, reliability and availability of information and data: Smartcard-enabled solutions, identity and access management and network and system security.

We provide own high-technology products as well as global technology partnerships with leading enterprises.

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