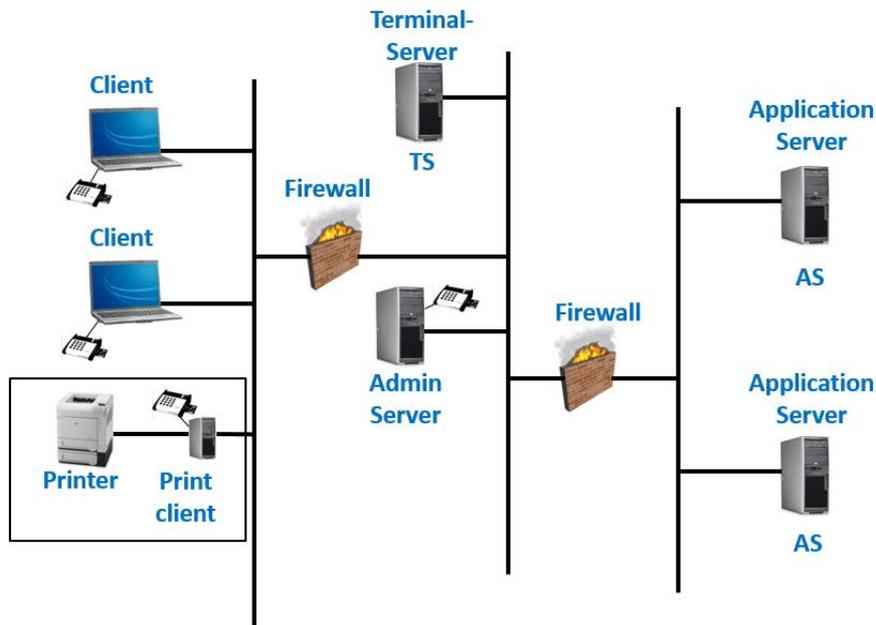*Expisoft* is a Swedish software development company with long experience within IT security for defense and public administration.

# *SITS* - Secure Identification Terminal Server

SITS is an application-independent security system that provides strong authentication of users from a secured and hardened terminal client to a terminal server. It also provides security when users use applications in the terminal server.

The client computers have no hard drive and are started directly from CD-ROM for higher security. The objective is to have a "no-storage" client able to connect to terminal servers in different *SITS* domains with different security levels from the same client.

Identity on the smart card that is used for logging on to SITS is used for further logging to other terminal servers and Linux application servers.

SITS - Secure Identification Terminal Server

- A solution for a secure environment with high demands
- Scalable and flexible
- Simple administration
- Accountability and traceability
- Session protection against takeover and manipulation of data traffic
- Protected printing
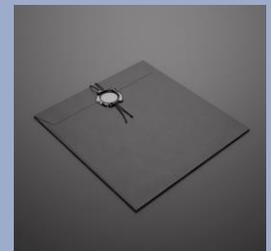
Prevent:
- spoofing (fooling any party to believe that the counterparty is trusted)
- replay attacks
- takeover and manipulation of data traffic

SITS - Secure Identification Terminal Server

A solution for environments with high security demands

The system uses a security feature in the form of a modular package which offers strong mutual authentication between client and server. Only approved certificates are used, i.e. certificates signed with the issuer's private key, which means that both the client and the server can verify the authenticity of the certificate through the issuer's public key.

Scalable and flexible

A *SITS* installation consists of a basic system with clients, one or more terminal servers and at least one domain controller. The basic system can be expanded with more terminal servers and domain controllers.

Simple administration

SITS enables Single Sign-On, possibility to log in to multiple terminals and applications without requiring additional input of credentials. A user only needs to log in once to the system and then access all the applications and services that the user has permission to.

Accountability and traceability

Login is done with a personal smart card that can only be used in high-security card terminals. As a result there is both eligibility and traceability of who performs different management measures.

Session protection

For each *SITS* connection, session protection is used to protect sessions against takeover and manipulation. Session protection of data traffic occurs with a traffic control between client side and server side.
A session key is issued and used to verify that no unauthorized persons gain insight in the data traffic between the client side and the server side.

Protected printing

SITS enables protected printing. Protected prints are handled by a print client that authenticates the user's card certificate against a print server.

SITS solution

- **Application independent**
- **Creates session protection**
- **Strong authentication with smart personal cards**
- **Single-Sign-On**
- **Multi-level login**
- **Secure printing**
- **Resistant to interference**
- **Designed to work in crisis**
- **Future proof**