

See  
how it works!

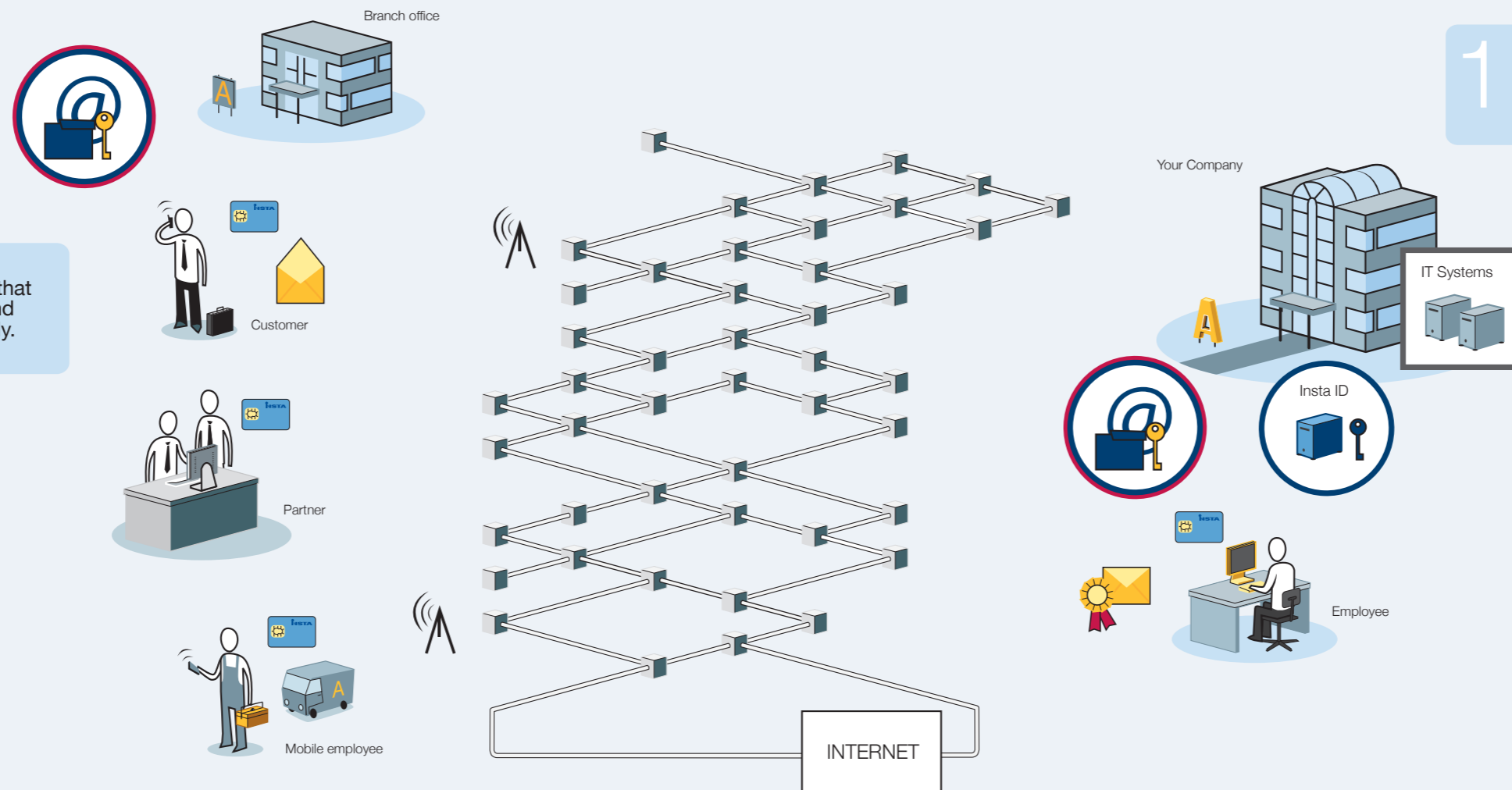


# Insta Email Security

for ensuring secure communication



# Insta Email Security – enabling secure communication



1. Insta Email Security solution provides a quick and easy way to implement secure communication channels.

2. Insta Email Security ensures that every employee, customer and partner can use email securely.

## BENEFITS OF THE SOLUTION

- Enables a quick secure communication method: a certificate can be enrolled and taken into use immediately
- The same certificates can also be used in other corporate security solutions
- No need for separate software licences
- Ease of use: certificate use is embedded into the email application and is extremely simple to use

**The Insta Email Security solution provides a quick and easy way to implement secure communication channels. The Insta Email Security solution is a universal solution for email security. Our email security solution utilizes existing tools and methods and there is no need for any additional software licences.**

The most common way for organizations to exchange information today is by using emails. With this fast and easy way to communicate, security is often left aside even though no sensitive data should be exchanged via emails to outside organizations. Lack of email security also means that many business benefits that could be gained are not used and more costly methods still apply.

Tools for securing emails exist but often for closed environments. Different partnering organizations do not often have similar tools to secure emails, which is what makes securing email traffic complex. Standard and easy-to-use methods are needed to make secure emailing possible globally.

### Solution description

The Insta Email Security solution utilizes PKI (Public Key Infrastructure) methods to create safe way of communicating between an organization and its cooperation network. Insta Email Security is based on Insta ID, where users are given digital certificates that are then taken into use in an organization's existing email system. Emails are secured by digitally signing and encrypting the data with the user certificate.

### Solution components

- Insta Email Security is based on Insta ID and Insta Certifier PKI solutions. The key features include:
- CA (Certificate Authority): creates user credentials, certifies user IDs, archives and publishes user certificates and maintains revocation lists
    - User Directory: for publishing certificates centrally and to Microsoft Active Directory, Novell eDirectory or IBM Tivoli, for example
    - Web-based administration
    - Multi-user control and fine-grained separation of duties
    - Event logging and audit trail
    - Simplified administrator GUIs e.g. for help desks
  - RA (Registration Authority): tool for enrolling certificates and storing them to smart cards, tokens or other certificate stores

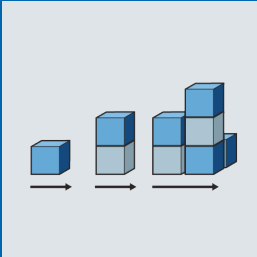
- User certificates for encrypting emails and verifying digital signature
  - Tokens or smart cards for storing user IDs
  - CSP: Offers cryptographic services to applications
  - Smart card readers
- Standard based solution that is compliant with email clients supporting S/MIME protocol

### Technical features

- Solution consists of following components:
- Certificates provided by Insta Service Center or by Insta Certified Partner
  - Certificates can delivered in several ways depending on security and interoperability requirements
    - Software certificates, smart cards, USB tokens

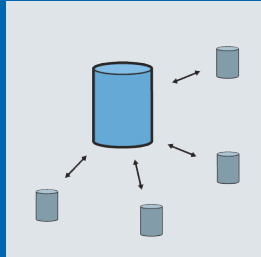
- ### Protocols
- S/MIME protocol
  - SSL/TLS protocol
  - X509v3 certificates
  - PKCS#15 and PKCS#11 smart cards and tokens
  - LDAP

#### Scalability



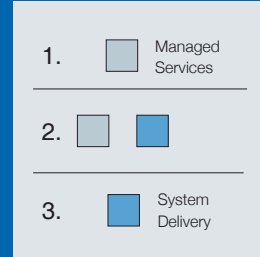
Insta solutions are scalable and modular.

#### Total Management System



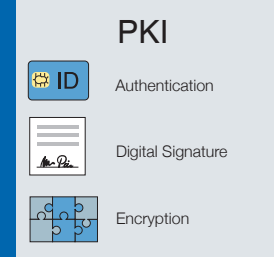
Centralized management increases efficiency in administration.

#### Managed Services



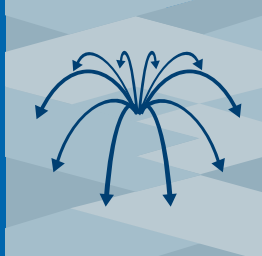
Management solutions can be provided as a managed service or system deployment.

#### Certificate-Based Security



Certificate based security enables strong authentication, digital signature and encryption in the electronic environment.

#### Standards-Based Solutions



All Insta solutions are based on the latest industry standards.

#### Security Standard



Insta Service Center has been awarded the international ISO27001 certificate.

#### Customised Services



Insta will also customise its solutions according to your needs. Contact us at [security@insta.fi](mailto:security@insta.fi).



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Insta DefSec's Security Systems is a global information security specialist developing and supplying networking and information security solutions. We focus on innovative solutions and applications for customers with high quality and security requirements. Our top-level expertise and technology, combined with our certified operating practices, have ensured us an internationally recognized position as one of the leading security companies in the market.