

Secure Email

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Overview

- Importance of Email in general
- Why secure Email is a good idea
- Why secure Email is a must
- Ways to secure Email



Importance of email in general

- Email has become an integral part of business
- Email is used as a repository for important information
- Email is perceived as instantaneous and secure



Why secure Email is a good idea

- Email started as a simple tool to exchange information
 - Email often consisted of small amounts of text
 - Email has evolved into a mechanism to send almost anything that can be created electronically (eg. pictures, sounds, documents, faxes ...)
 - Email – by default – still gets transmitted in the clear
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Why secure Email is a must

- Email nowadays often contains confidential information (eg. personal identification, business confidential data, financial information ...)
 - Email can be easily intercepted and listened to by unauthorized 3rd parties
 - Email delivery is not guaranteed to end up at the intended recipient
 - Email is not guaranteed to come from the sender it claims to come from
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Ways to secure Email

- Encryption:
 - Use mail servers which support the TLS extension for SMTP (transparent server to server)
 - Use PGP keys for user to user encryption
 - Use personal certificates for user to user encryption
 - Use automatic encryption appliances (eg. ZIX)
 - Authentication:
 - Use digital signatures
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