

# Encryption

Crime prevention, terrorism combating, military and paramilitary interventions, as well as civil protection make high demands on the security of your communication equipment. Eavesdropping of confidential information poses a tremendous threat to public authorities and civil or military organizations with security tasks. It must be dealt with by applying suitable security measures.

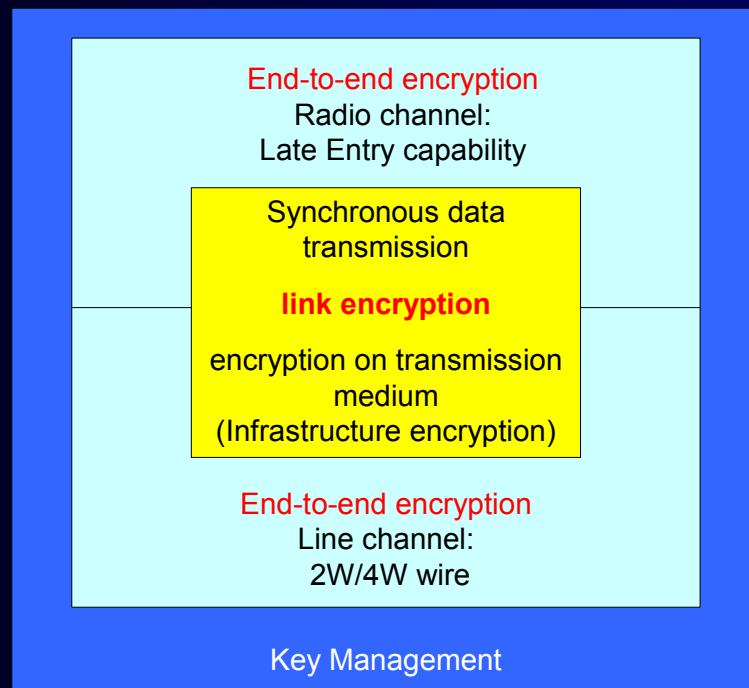
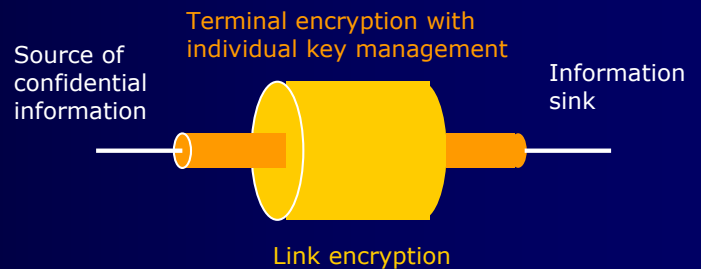
The patented top-secure encryption procedures of TL Consulting GmbH are complying with these requirements with the up most degree of communication security for all kind of

- radio channels
- line/wired channels.

## Multi-layer end-to-end encryption

The encryption concept considers all elements within a communication chain to provide full end-to-end encryption. Our encryption procedures are applicable to

- the communication infrastructure (link encryption, encryption of transmission medium, communication backbone)
- the user terminal equipment (to provide end-to-end encryption with individual key management)



## Security

The patented encryption procedures are based on the "one time pad" theory, which is the only currently known unconditionally secure encryption system. Our proprietary technology addresses the highest security level for customers from government, military, police, public safety to commercial businesses.

## Customer support

TL Consulting GmbH provides outstanding customer service that extends far beyond the sale, including technological assistance for installation, application, key generation and management.

## We have no secrets

TL Consulting GmbH provides full transparency to its customers. We do not offer a black box. Instead we reveal the details of our encryption procedure.

## Custom-made and application-tailored

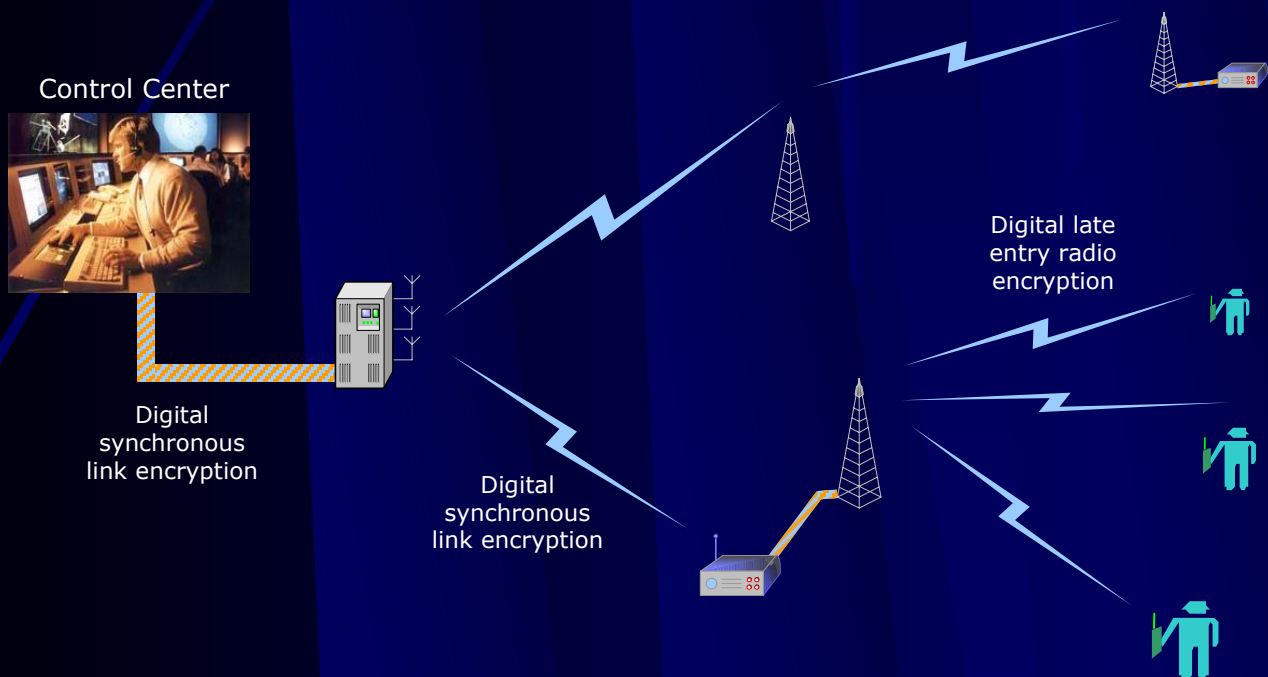
Each procedure is well adapted to the application.

For wired channels we provide sophisticated synchronous transparent encryption procedures.

For voice communication over radio channels we provide

- Very fast synchronization for full late entry capability. No speaker pause is required at begin of message.
- Remote re-keying over the air (OTAR)
- User and terminal ID management
- User and terminal authorization
- Key management
- Remote disabling of terminals
- Flexible group definition

Customer-specific parameters can be adapted in order to obtain a unique customer encryption solution.



Continuous development and improvement is one of our policies – therefore we reserve the right to change specification without notice.