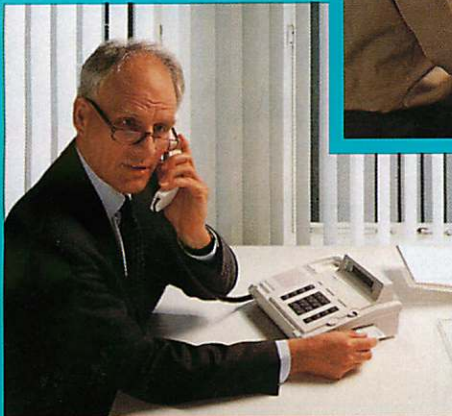
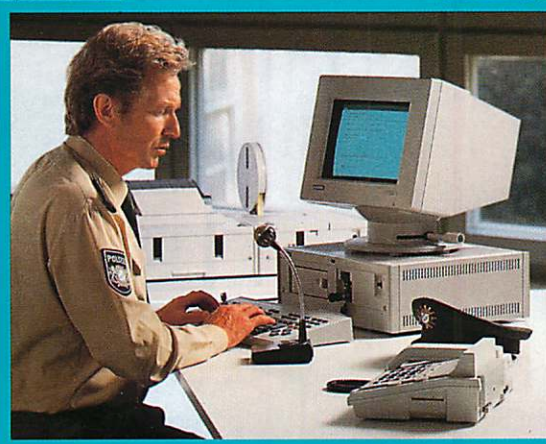


SIEMENS



Encryption Equipments from Siemens –

Synthesizing Confidentiality and Convenience

Secure Communications



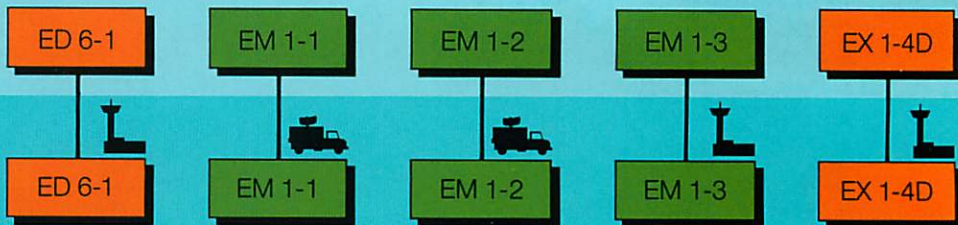
High-quality encryption equipment in advanced technology for any application

Industry

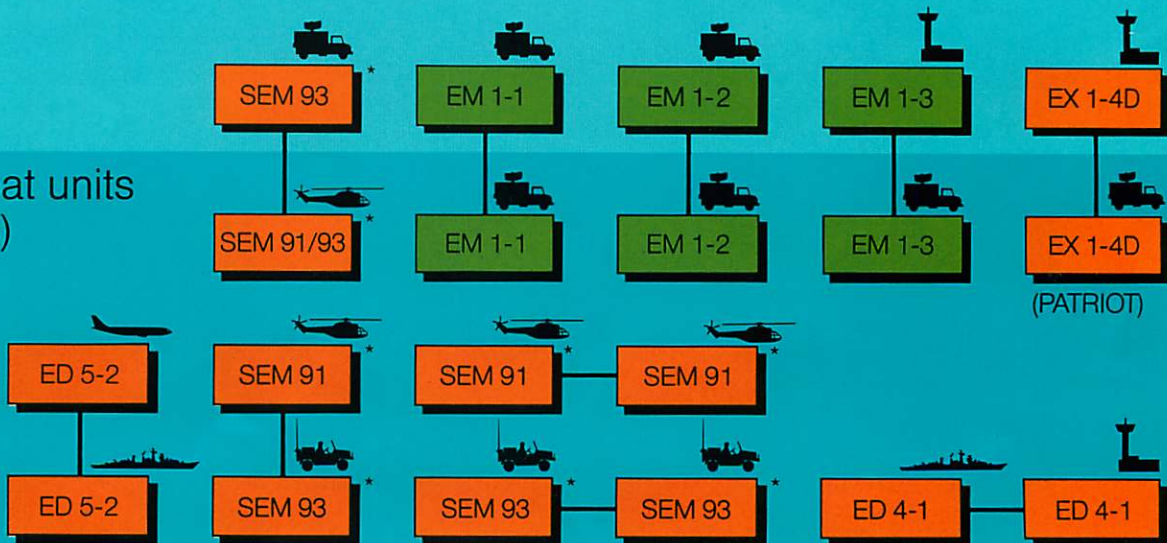
Ministries,
public departments



Command staffs
(strategic units)

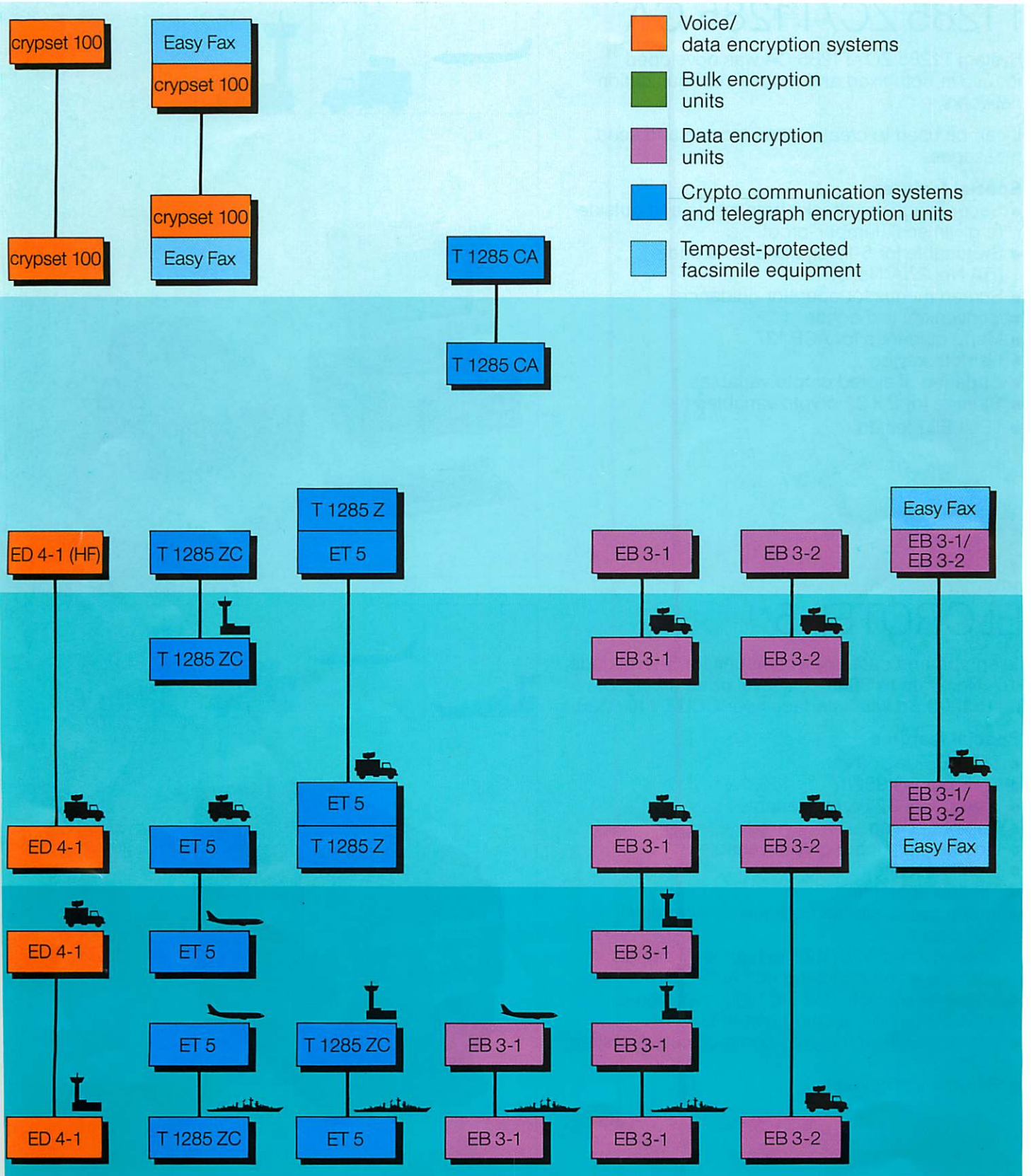


Mobile combat units
(tactical units)



*Only crypto module

- High-level crypto security due to the use of advanced cryptographic processes
- Compliance with TEMPEST requirements
- Easy to operate
- Storage capacity for many crypto variables
- BITE for short repair times



Voice/ data encryption units

cryptset 100

cryptset 100 is a telephone for confidential communication.

It allows the authorized user in the telephone network to talk in both crypto and unencrypted mode.

Special features

- Port for encrypted data and facsimile (FAX) transmission
- Key card / key card reader for authorizing the user in a closed user group
- A new session key generated for each call
- Can store 50 call numbers with text



ELCROVOX 1-4D*)

Fixed cryptotelephone with 2 high-convenience facilities

Special features

- Personal key card for the user
- 2 different vocoder principles
- 2 different crypto algorithms
- TEMPEST tested
- Prepared for KDC operation
- FAX operation
- Full- or half-duplex operation
- More than 40 storage locations for crypto variables
- Over 60 call numbers can be stored



ELCRODAT 6-1*)

Fixed ISDN high-convenience cryptotelephone (64 kbit/s)

Special features

- Personal key card for the user
- Telecom approval to Guideline 1TR6
- Prepared for KDC operation
- FAX operation
- Full-duplex operation
- Transmission speed 64 kbit/s
- Data interface 9600 bit/s, V.24/V.28
64 kbit/s, X.21
- Storage locations for 32 crypto variables



ELCRODAT 4-1*)

Mobile cryptotelephone for military service in shelters, vehicles and aircraft.

Special features

- For HF/VHF/UHF radio links as well as line links
- Transmission speed 2.4 kbit/s
- Storage locations for 8 crypto variables
- Voice and data operation
- LPC-10 vocoder
- Remote control unit
- Relay station operation
- With FEC facility and HF modem



ELCRODAT 5-2*)

Mobile encryption unit for military service in shelters, vehicles and ships.

Special features

- For VHF/UHF radio links
- Transmission speed 16 kbit/s
- Storage locations for 8 crypto variables
- Data interface per CCITT V.24/V.28
EIA RS-232-C
- Voice and data operation
- Remote control unit
- With FEC facility



Crypto communication system Telegraph encryption unit

T1285 ZC/T1285 CA

System T1285 ZC/T1285 CA was developed for use in both fixed and mobile communication networks.

It can be used to create, store, receive and send messages.

Special features

- Security against attacks from inside and outside (e.g. viruses), tamper-proof
- Switchable for 5-level and 8-level code (ITA No. 2/IA No. 5)
- Screen menus for operator guidance
- Convenient text editor
- Menu guidance for ACP 127
- Remote keying
- Updating of stored crypto variables
- Storage for 2 x 32 crypto variables
- TEMPEST tested



ELCROTEL 5*)

Telegraph and data encryption unit for 5-level code (ITA No. 2) up to 200 Bd, 8-level code (IA No. 5) up to 1200 Bd with interfaces per CCITT V.10/V.28.

Special features

- TEMPEST tested
- BITE per VG 95287
- Storage for 32 crypto variables
- Remote keying
- Updating of stored crypto variables
- Mobile service
- Off-line operation
- Interactive operation from the data terminal equipment
- Conversion of V.10/V.28 to high level signals possible using matching unit APO
- Conversion of V.10/V.28 to high level signals possible using matching unit APU
- Interoperable with crypto communication system T1285 ZC
- Remote control unit



Bulk encryption units

Data encryption units

ELCROMUX 1*)

Fully automatic bulk encryption units for military service in fixed and mobile networks.

ELCROMUX 1-1 with optical interface
transmission code CMI

ELCROMUX 1-2 with EUROCOM interface
transmission code AMI

ELCROMUX 1-3 with CCITT interface
transmission code HDB3

Special features

- TEMPEST tested
- Transmission speed 2,048 Mbit/s
- Storage locations for 32 crypto variables
- Updating of stored crypto variables



ELCROBIT 3-1*)

ELCROBIT 3-2*)

ELCROBIT 3-1

Procedure-independent data encryption unit for transmission speeds up to 64 kbit/s.

Possible applications on dedicated circuits, in switched networks and on radio links.

Data interface per CCITT V.24/V.10, RS-232-C Mil STD 188-114.

Special features

- TEMPEST tested
- Data input asynchronous (EB 3-1 only) or synchronous
- Mobile service
- Remote keying
- Updating of stored crypto variables
- Storage for 32 crypto variables

ELCROBIT 3-2

Procedure-dependent data encryption unit
Dialing through-connected via interfaces per CCITT X.21/V.25 bis, otherwise as ELCROBIT 3-1



TEMPEST-protected facsimile equipment

Key input devices

Easy Fax 9100 E

- Compatible with facsimile equipment
 - in CCITT Group 3 which have been modified for the strategic operating mode
 - conforming to STANAG 5000 type 1 in the modes COMP and COMP with FEC
- Transmission speed dependent on external clock source: from 2400 to 16000 bit/s
- Developed in accordance with NACSIM 5100A
- Data interface in accordance with RS-232-C



Key input devices*)

KEV 1 Crypto net Control Device for decentralized generation and distribution of crypto variables for encryption units

KSP 1 Key Transfer Device for electronically storing up to 32 crypto variables

KLL 1 Key Tape Reader for 8-level punched tape (8-bit code/IA No. 5)



*) These units were developed jointly with ANT Nachrichtentechnik GmbH, Backnang

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Siemens Aktiengesellschaft