



THALES

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Thales is a leading international electronics and systems group, addressing defence, aerospace and security markets worldwide. The Group employs 68,000 people in 50 countries. Thales Norway AS is one of the largest industrial centres of expertise for military IT and telecommunications in Norway, and the principal supplier of military communication systems to the Norwegian Armed Forces. Drawing on a multinational, highly skilled team of advanced systems integration Experts and R&D resources, the company's products meet the operational requirements of secure and reliable information exchange in tri-service communication networks.

Secure Communications

Thales Norway delivers state-of-the-art cryptographic products for fixed and mobile applications. The company has developed the Cryptel®-IP system including the TCE 621 crypto device and the TCE 671 security management centre. The TCE 671 is used for automatic key generation and distribution, and remote management of the TCE 621. The TCE 621 consists of several variants. Cryptel-IP is defined by NATO as the NATO IP-crypto Equipment NICE, and approved for all NATO security classifications. Cryptel-IP is now in use by NATO and most NATO countries.

Military Message Handling

The XOMail system is an electronic message-handling system for both fixed and mobile applications. Tailored to the message-handling tasks of military organizations, the system offers multilevel security and implements civilian X.400 and X.500 standards, as well as military enhancements defined by NATO. The XOMail system efficiently handles messaging using advanced XO mail clients or Microsoft Outlook clients, and can be integrated with Microsoft Office tools. It can be supplied as a stand alone military message system or as a building block in Command and Control Information System

(CCIS), as well as message gateway for interconnection of message applications with different security accreditations.

Electronic Key Management Systems

eCustodian is an Electronic Key Management System (EKMS) for the planning, generation, storage, distribution and accounting of crypto keys and other crypto material according to NATO standards (AMSG 293).

Compared with traditional manual methods, eCustodian improves security by minimizing the handling of classified red



1. TCE 621/B - 100Mbit IP Crypto Device.

key material, while reducing operational cost through automation of many labor intensive tasks. The capability to distribute keys electronically reduces the use of couriers and results in much faster turn-around times, especially important for supporting dynamic user needs, e.g. in out-of-area operations. Further cost saving is achieved through the automated accounting system, giving a continuously updated view of crypto material status. eCustodian is deployed with several NATO nations and is approved by SECAN for handling NATO key material with any classification, up to and including COSMIC TOP SECRET.

Control & Surveillance

ACEcom is the VCS – Voice (and data-) Communication System – from Thales Norway selected by NATO for the NATO Air Command Control System programme. The first on-site installations started in 2006. The system is unique in its ability to handle all types of narrow and broadband traffic and offers multilevel security communication from each operator position. The system is based on IP-technology in an architecture providing the robustness required for air

traffic management systems. ACEcom has been installed both at military and civilian facilities. Modern IP technology is replacing old-fashioned TDM systems. This creates unique new capabilities for superior networking, improved sharing of resources, lower operational costs and more homogeneous networks supplying both voice and data communication.

Reliable Communication Infrastructure

Thales Norway has a long history in the development and implementation of communication infrastructure to support military operations. The focus is on switching and network management products that offer highly reliable services even with transmission links that have various and unpredictable quality and bandwidth. The range of implementations includes Nationwide Tri-Service infrastructure networks, Wide Area Networks for high mobile Army operations as well as dedicated communication systems for weapon control. This activity is now focused on migration of legacy networks towards requirements for IP services and support of networkcentric warfare and out-of-area operation.

Key References

Thales Norway AS has provided systems and solutions including the following:

- TADKOM Army Tactical Network
 - Cornerstone tactical communication network for the Norwegian Army
- TS9000 Army Tactical Network
 - Principal tactical field communication network for the Swedish Army
- Security systems and cryptographic equipment for the Norwegian Armed Forces
- Security systems to NATO and NATO countries
- Classified military networks for Eastern Europe, the Middle East and the Far East
- Cryptel IP for NATO data networks
- Voice communication system (VCS) for NATO/ACCS
 - Nationwide VCS system for Finnish Air Force military networks for Eastern Europe, the Middle East and the Far East
 - ACS -VCS for Swedish Naval operation centres
- NORGIL - Norwegian Link16 ground infrastructure

