

NETWORK SECURITY



XOmail ACP 127 Gateway

Connecting legacy systems with STANAG 4406 systems



XOmail ACP 127 Gateway

Characteristics

The ACP 127 Gateway provides interoperability with legacy ACP 127 systems, and allows step-wise deployment of a modern STANAG 4406 system. The Gateway is designed according to STANAG 4406 Annex D, extended with automated functions that greatly reduce the need for manual interactions. The XOmail ACP 127 Gateway can be provided as a standalone product, or integrated with an existing XOmail MMTA.

AUTOMATIC FORMATTING

The Gateway provides automatic syntax checking of all ACP 127 Format Lines. Errors are flagged to the Traffic Operator, and the operator can verify the syntax before releasing the message. All common message formats (Plaindress, Codress, SVC, ASVC) are supported.

FLASH HANDLING

Outgoing Flash messages automatically interrupts lower priority messages. Flash receipts are automatically generated, and alarms are generated if an expected flash receipt is not received.

AUTOMATIC CHANNEL PROCEDURES

Common operations such as opening and closing the channel, performing Channel Checks, acknowledging Flash messages, and handling Open/Same Number, are handled automatically. A number of message and transmission instructions are handled automatically.

SECTIONING

Long messages are automatically divided into pages and sections. On reception, page marks are stripped, and sections are assembled into complete messages.

SECURITY LABELS

The Gateway automatically handles ACP 127 security labels, using (and checking) both the FL4 and FL12 labels.

MONITORING

Real-time monitoring can be activated for incoming and/or outgoing traffic. The traffic can be saved to file for later inspection.

CHANNEL LISTS

All sent and received ACP 127 messages are logged in Channel Lists, giving the Traffic Operator powerful tools for monitoring the traffic flow and taking action in case problems are detected.

ASVC TEMPLATES

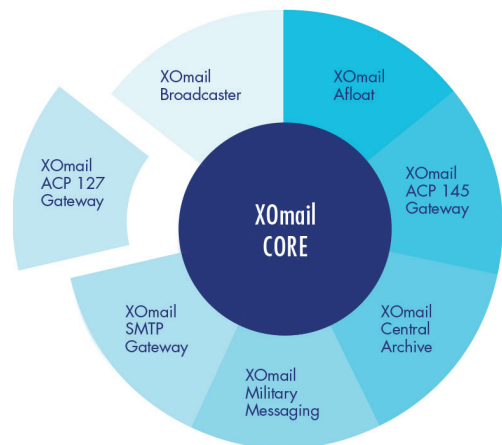
The Traffic Operator can send ASVCs by selecting from a set of built-in templates. The operator can also create additional templates for commonly occurring cases.

ROUTING LINE PROCESSING

The routing line is automatically built from the message addresses, with automatic segregation. The Gateway supports the AIG/DUAL variant of the Routing Line.

KEY FEATURES

- Automatic format conversion, including to/from 5-bit codes
- Automatic procedure handling, handling most messages without human intervention
- Powerful Traffic Operator functions for messages requiring manual handling
- Connects AIFS and national TAREs to modern STANAG 4406 systems
- Allows step-wise upgrade of legacy networks to STANAG 4406
- Directory and management integrated with the XOmail Product Family
- Highly configurable to adapt to the characteristics of existing systems



7 components with a common core