



Smart Gateway (ES-SG1)

Smart Gateway is a seamless network entity optimizing and controlling military communication, including data-link to/from ground

ES-SG1 allows to use any standard network equipment and, in the same time, to meet strict time-critical/mission-critical requirements.

Adding **ES-SG1** to a "civilian" network will transform it to a "military" network.

ES-SG1 may be implemented as an embedded software component on one of the application machines residing at a communication junction, or as a stand-alone hardware component.



ES-SG1 Features

- Transparent for other network entities.
- Inspects the traffic that crosses it, intervenes the data flow and applies services to the data.
 - Detects network events (e.g. source/destination addresses, pre-defined message sequences and pre-defined data patterns.)
 - Calls a user-defined service routine upon detection of designated network events.
 - Provides additional services upon detection of network events.
 - Special retransmission
 - Redirection of selected traffic to one or several destinations
 - Address resolutions
 - Protocol conversion
 - Bandwidth management
 - Prioritization
 - Special Signaling
 - Alarms
- The ES-SG1 will recover automatically after a communication loss.

Applications

- Bandwidth Management
- Detection of Network Events
- Network Traffic Inspection
- Network Traffic Redirection
- Address Resolutions
- Protocol Conversion
- Special Signaling
- Prioritization
- Quality of Service
- Proxy ARP
- Encryption

ES-SG1 Specifications:

Physical Interfaces: Two 10/100/1000 Ethernet connections

- Logical Interfaces: Maintenance input/output interface is used for loading service tables to the ES-SG1, command and status control. On-line and off-line maintenance are allowed.
- ES-SG1 internal interface is used for communication between two ES-SG1 units (if applicable.)