

# CAYMAN

## Data Link Operational Systems

**CAYMAN** is a COTS software package for tactical data link implementations. It supports multi-link operations and is available with Link 11, Link 11B and Link 16 interfaces as standard. Additional interfaces (e.g. Link 22) can easily be accommodated through the use of the built in DAMSL (Dictionary and Message Specification Language) database.

As a COTS package, the software functionality is updated regularly to keep **CAYMAN** up to date with the latest version of STANAGs 5511 and 5516. For interoperability purposes the requirements and operation of Link 11 as described in OPSPEC 411.2 and the UK DTDL-SLIRS have also been considered to maximise the ability to interoperate with the entire data link community.

Core functions of **CAYMAN** implemented include:

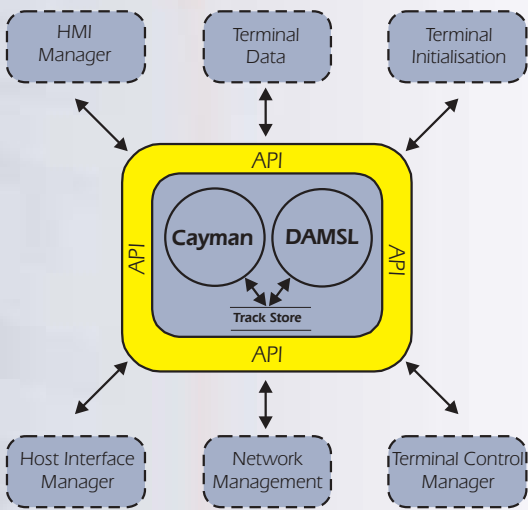
- Initialisation
- System management
- Information management
- Track management
- Surveillance
- Air control
- Weapon control
- Electronic warfare
- Mission management
- Engagement status



**CAYMAN** participates in a tactical data link as an IU (PU and/or JU) and can store and manipulate data on all currently defined entity types namely :

- Air, Surface, Subsurface and Land tracks
- Sonobuoys, Acoustic Contacts and ASW Bearings
- Emergency Points, Special Points, Reference Points  
Lines and Areas
- EW Products, ECM Intercepts, ESM Bearings and Fixes
- Areas Of Probability





**CAYMAN** is a system that has standard well defined Application Process Interfaces (API) that allows it to be readily incorporated with other tactical systems. This allows close integration with the customer's command system through the Host Interface, and the Human Machine Interface. Alternatively, Ael standard HMI systems can be supplied. Similarly, well-defined API's are supplied for the Terminal Interface to the customers selected terminal, such as MIDS or Link 11 DTS.

The built in DAMSL database can be edited offline in line with STANAG updates and DLCPS and provides a run-time library which supports **CAYMAN** in message assembly, disassembly and scheduling.

Extra component modules are also available that provide network management and frequency monitoring. A Terminal Initialisation and Data Preparation Facility is also available.

A built in training facility to provide simulated exercises for asset poor environments; and received data logging and analysis.

In support of the **CAYMAN** product and the components above, Ael offers a full suite of COTS products that can be provided to carry out terminal initialisation, dynamic network management, system test/checkout and interoperability testing.



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