

JPC - JTIDS Portable Capability

The JPC is a fielded system developed by Ael to meet the demanding operational needs of monitoring and actively managing JTIDS/MIDS Link 16 networks.

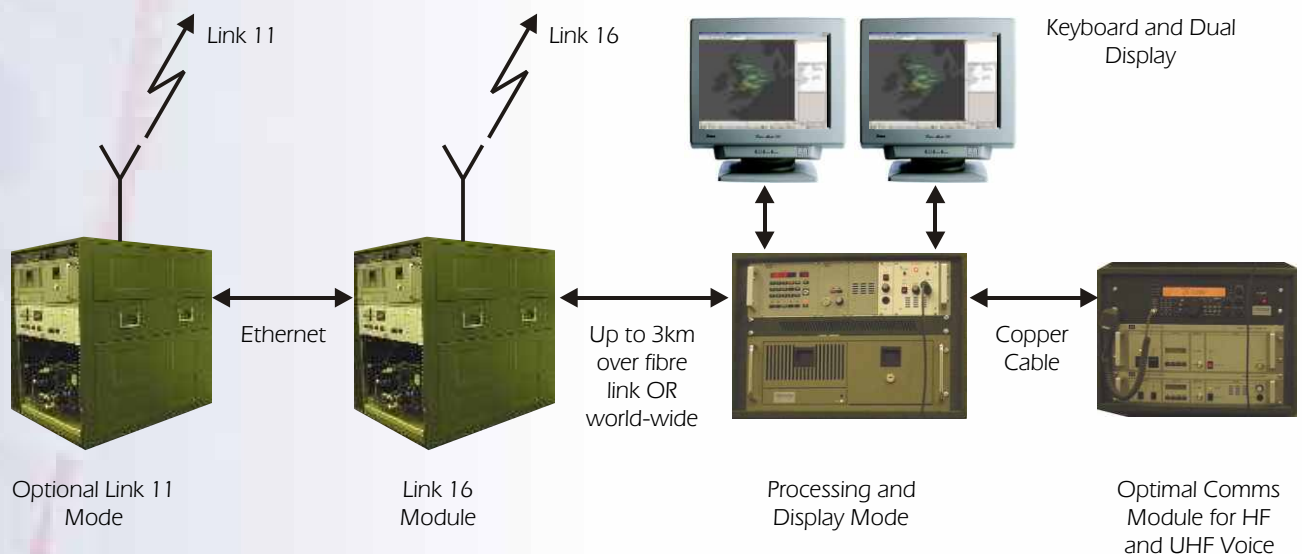
JPC hardware is designed to be modular, utilising either a single rack housing a Low Volume JTIDS Terminal or a double rack housing a Class 2 Terminal. The Link 16 Terminal Module is controlled by the Remote Processing and Display Module which can be located up to 3km away over a fibre optic cable or may be located anywhere world-wide if encrypted modem communications is employed. Secure JTIDS voice may also be utilised from the Remote Processing and Display Module over these distances.

An optional, separate Communications Module houses a UHF radio and an HF radio. This is also controlled by the Remote Processing and Display Module and may be located up to 100m away.

Growth potential is provided to accommodate a Link 11 module, which is co-located with the Link 16 Terminal Module, and has the same remoting capabilities.

Each type of module is packaged as a stand-alone, rugged unit and includes air cooling where required. All modules are man portable. Front and back panels allow the contained equipment to be fully protected during transit. The equipment can be readily installed in a vehicle and is air transportable.

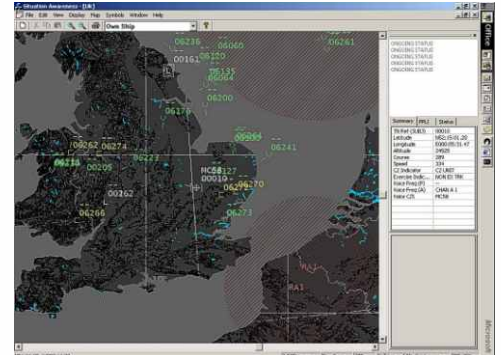
The Processing and Display module hosts Ael's Link 16 network monitoring and management software ATLAS. This provides all the tools required for JTIDS Network Managers to dynamically assess and manipulate the network to improve the network performance, to detect any network violations and finally to review and record how well the network performed.



ATLAS features:

Real-time Situation Awareness Display of air, surface, subsurface and ground picture with:

- Complete world map
- Topographical data
- TACAN/DME points
- JU and surveillance picture
- Track Label/Tote information summary

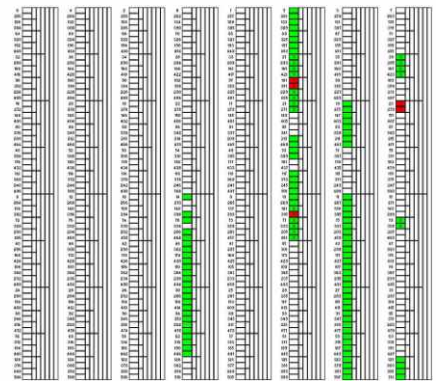


Network Connectivity Monitoring with:

- Actual Connectivity Display
- Theoretical Connectivity Display
- Pseudo Connectivity Display allowing "what if" changes to be made
- Automated generation of J-Series messages to change connectivity

Timeslot Management with:

- Graphical manipulation of network timeslot structure
- Graphical display of timeslot allocations
- Complete network violation checks for created timeslots

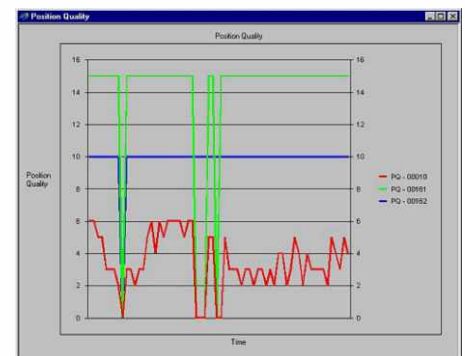


Network Monitoring including real-time monitoring of:

- Network performance/usage
- Timeslot utilisation
- Network/CAA/FAA violations (e.g. detection of illegal transmissions/TSDFs)
- Man-readable datalink message display

Post operation analysis including:

- Complete record and replay capability
- Network performance summary
- Violation summary
- Network summary data provided as Microsoft Excel



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