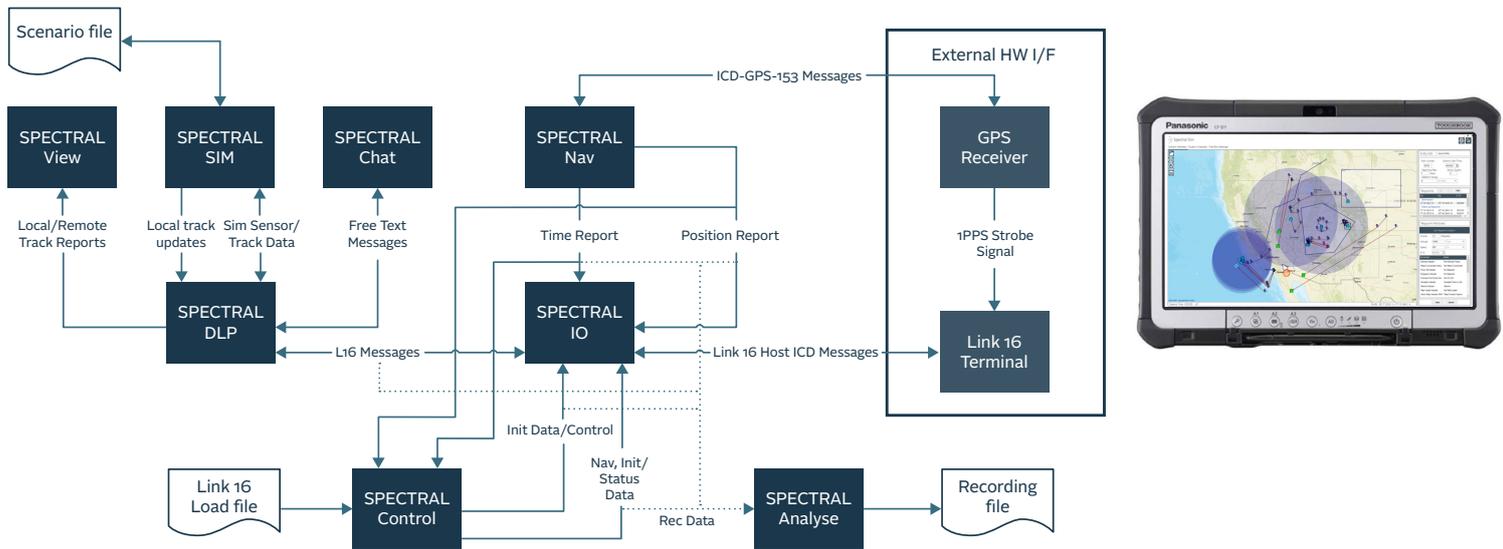




Spectral Link



Spectral Link is a suite of Tactical Data Link (TDL) software applications that provide an affordable, flexible multi-domain Link 16 capability. The applications can be supplied as standalone products or grouped to provide a tailored, integrated solution. In all scenarios, **Spectral Link** runs on Commercial Off-The-Shelf (COTS) Windows-based PCs and hand-held devices; other operating systems, such as Linux, are also supported.

Spectral Link is capable of satisfying the most demanding Link 16 requirements typical of large, multi-sensor platforms such as Maritime Patrol Aircraft. However, the modularity of **Spectral Link**, combined with non-specialist hardware, presents opportunities to deliver Link 16 connectivity to end users that were previously prevented from joining the network due to size, weight, power and cost constraints. In the examples below, **Spectral Link** can be hosted on COTS mission computers, laptops or tablets; message sets can be defined and the modern HMI can be optimised for different screen sizes and resolutions.

- Smaller air platforms (such as DA42 and KA200)
- Land vehicles and deployed ground stations
- Vessels (such as OPVs, Inshore vessels and raiding craft)
- Dismounted personnel

These platforms are ideal candidates for a low cost, lightweight and mobile Link 16-based situational awareness solution which can receive, and contribute to, the Common Operational Picture with airborne and other assets. When operating outside of line-of-sight, Link 16 beyond-line-of-sight connectivity via Joint Range Extension Application Protocol (JREAP) may be required - **Spectral Link** delivers against all of these requirements.

One of the key **Spectral Link** applications is **Spectral IO** which acts as the Link 16 terminal host system. Uniquely, the **Spectral IO-t** variant can translate between legacy and 'Crypto Modernised' Link 16 terminal interfaces to solve the problem of expensive and time-consuming changes to host and combat systems when introducing the new 'modernised' terminals.

Spectral SIM is a TDL simulation application which allows simulated TDL tracks and data to be released to the TDL network to enhance training in live, virtual and constructive scenarios.

Both **Spectral IO-t** and **Spectral SIM** are available as standalone products or as part of an integrated solution.

Exploiting Agile software methodology, **Spectral Link** is resilient against 'stove-piping' and provides the ability to harness new technology and integrate with third party sensors and mission systems.



Spectral Link

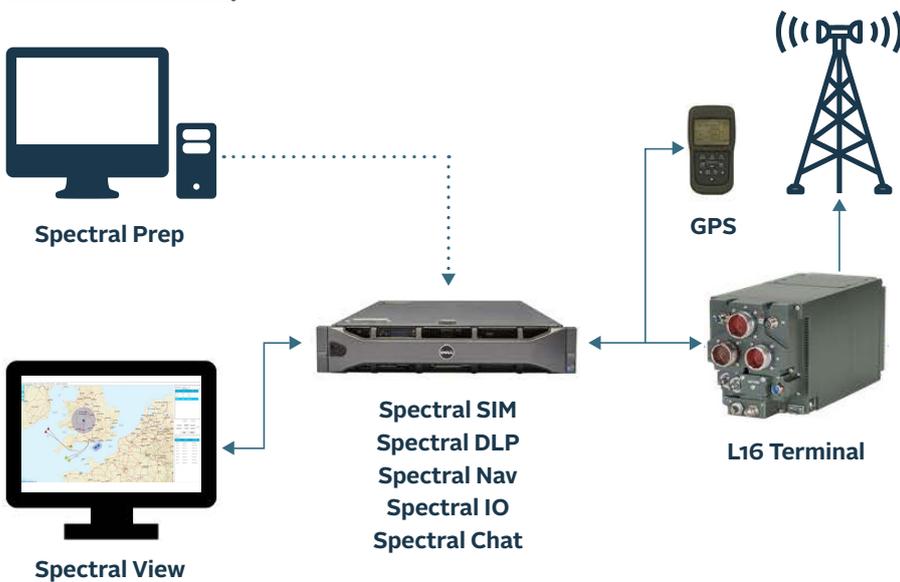
Platform TDL System Software

Meta

MISSION DATA



A SPECTRAL LINK INTEGRATED LINK 16 SYSTEM



SPECTRAL INCLUDES THE FOLLOWING APPLICATIONS:

- Spectral IO** - Link 16 terminal host
- Spectral IO-t** - Link 16 terminal translator
- Spectral View** - Situational Awareness HMI and processor
- Spectral SIM** - Scenario Generator
- Spectral Chat** - Free Text Messaging Module
- Spectral Nav** - GPS Navigation module
- Spectral DLP** - Datalink processor and track database
- Spectral Analyse** - Data recording and playback module
- Spectral Control** - Link 16 Terminal controller
- Spectral Prep** - Link 16 Initialisation Data Preparation Facility

HERITAGE

From its inception in 2020, **Spectral Link** is under continuous development and improvement by Meta Mission Data's TDL team which, with extensive operational, software development and systems engineering experience across all TDLs, is able to tailor the system specifically to customer needs. MMD's TDL expertise is recognised internationally; MMD architected the UK MOD's technical approach to its Link 16 Sustainment (Modernisation) programme, and has delivered TDL products and services to over 10 other nations.

COMPLIANCE

For Link 16, Spectral Link is compliant to MIL-STD 6016/ATDLP 5.16, ATDLP 1.75 and MIL-STD-3011/ATDLP 5.18. standards. MMD is accredited with ISO 9001:2015 and ISO 27001:2013 Quality Management and Information Security certification.

END-TO-END SOLUTION

Meta Mission Data (MMD) can provide a complete end-to-end TDL solution: from the initial requirements capture and scoping phase; provision of the TDL terminals and ancillaries; through to platform installation, certification and commissioning (with the support of third parties where required).

MMD's TDL solutions are fully assured via our in-house capabilities. Our test, evaluation, verification and validation service (Spectral Test) guarantees compliance with the relevant TDL interoperability technical and operational standards. Similarly, our Mission Assurance methodology assures information security and mission data integrity.

MMD also offers a full suite of training options as well as operational, logistic and through-life support including obsolescence management and technology roadmap.

To support the operational delivery of the capability, MMD has additional software tools for automating network planning (**Spectral Plan**) and the process of producing and validating tasking messages (**Spectral Task**).

FOR MORE INFORMATION ON OUR SPECTRAL PRODUCTS AND SERVICES, PLEASE CONTACT:

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