I-JOCCS

Integrated - Joint Operational Command and Control Services

The provision of a situational awareness picture integrated with a seamless Command and Control (C2) solution is a force multiplier for homeland defence, crisis management and conflict resolution. In addition modern conflict increasingly require national forces to act as part of a coalition. These exacting requirements are delivered by the Northrop Grumman I-JOCCS capability.

I-JOCCS offers a high quality, secure and user friendly solution with high levels of interoperability with other coalition forces including UK/US. The capability provides for both fixed site installations and deployed forces. Cross-domain security enables the integration of Non-Government Organisation (NGO) and Other Government Department (OGD) systems.

Developed under the UK MOD Architecture Framework (MODAF) the flexibility of the I-JOCCS architecture enables the specific needs of the customer to be delivered in a timely manner. I-JOCCS makes full use of COTS products, this combined with our 'in-house' engineering expertise enables integration with legacy process and systems. The extensible architecture allows third-party applications to be incorporated to deliver mission specific services.

I-JOCCS is scalable to meet the full range of deployment options from Infantry Section to large scale Joint Force deployments. The capability offers Blue Force Tracking, Track Management, Communications, Data Correlation, Intelligence Collation, Geographic Displays, Picture Presentation, Decision Aids and Planning Tools.

I-JOCCS incorporates a number of technologies that support, and can be exploited within, a Service Oriented Architecture (SOA), for example:

• OGC Compliant Web Mapping Services;
• Web Portal;
• Messaging infrastructure;
• Federated identity management and security.

Building on these services the I-JOCCS product roadmap is strongly focused towards an SOA which will allow I-JOCCS to integrate into or underpin the wider SOA enterprise. This family of technologies is known as I-SOAF.

I-SOAF is based on Open Standards and will scale from a small footprint embedded deployment to a large Enterprise Service Bus (ESB).

Northrop Grumman provides I-JOCCS as a capability which includes more than equipment provision. Our Team provide training, modelling/simulation, logistic/maintenance support, infrastructure support and doctrine development.
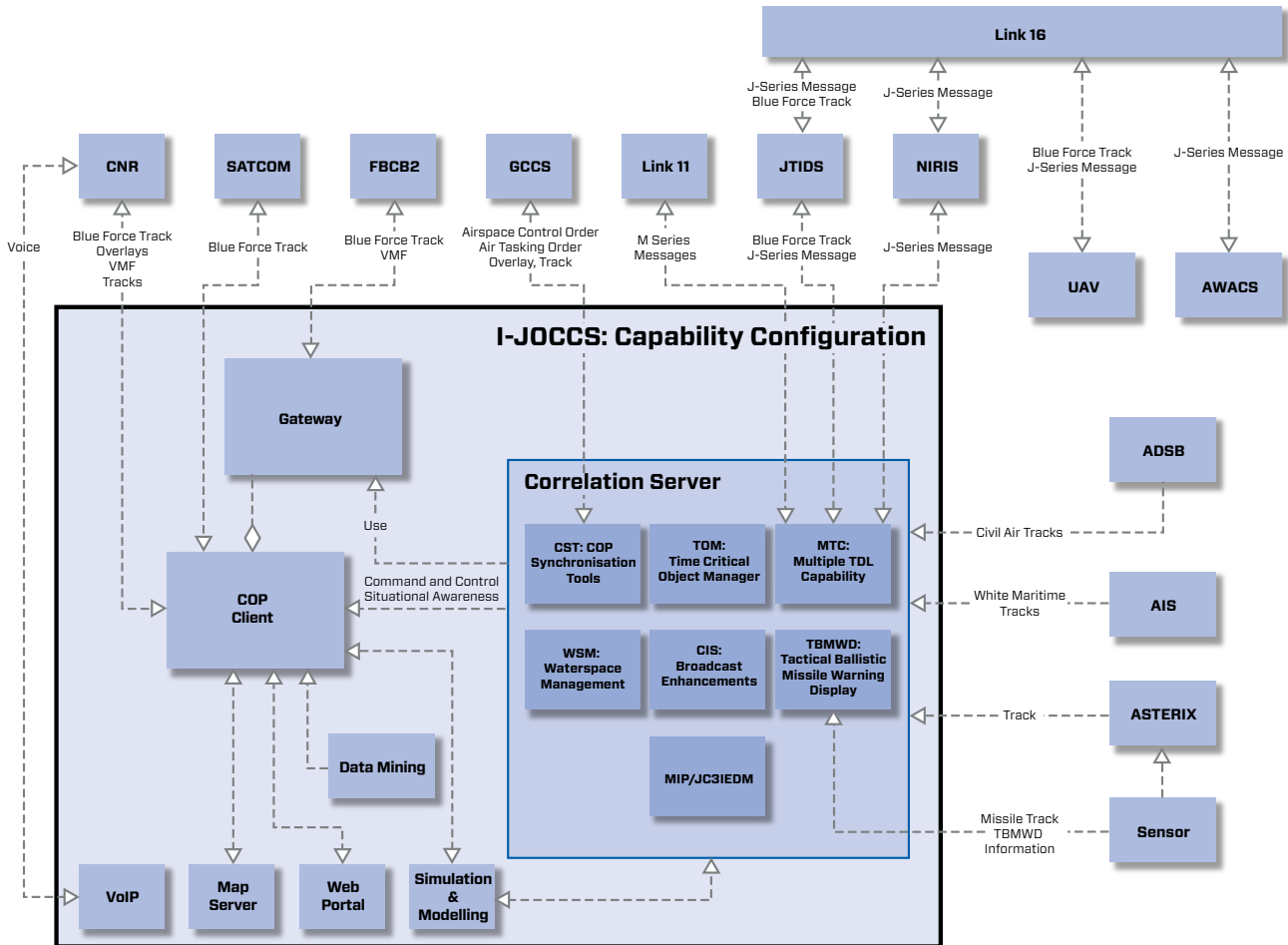
Features

- Cost-effective solution for the delivery of integrated situational awareness and C2
- Core systems in service with 40 nations including UK/US
- Low cost through-life sustainment
- Systems of Systems Architecture (SOSA) developed in MODAF
- Future proof', extensible and flexible architecture

Benefits

- Robust, battle proven capability supporting J1 to J9 staff functions
- Information from multiple sources combined into a single Common Operating Picture (COP)
- Improved sharing of intelligence and planning throughout the battlespace
- Intuitive Human Machine Interface (HMI)
- Interoperable with principle Allied/Coalition force systems

Systems view

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