

Altair Spectrum Management, Radio Coverage & Radar Planning (WRAP)

Product Brief

WRAP applications for defense and mission planning deliver essential tools to meet the frequency and radio network planning requirements for defense forces, regardless of the challenging conditions they face; difficult terrain, electronic warfare threats, radio jamming, co-site interference, and/or eavesdropping.

- + Support for the hierarchical process of military spectrum management
- + Capabilities to plan fixed / mobile radio sites incl. frequency assignment
- + Radar coverage and line-of-sight coverage for optical sensor systems
- + Satellite coverage and analysis of interference and impact of jammers

Altair Differentiators

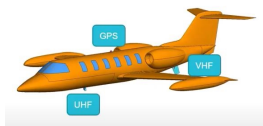
- + Design of radio communication systems, electronic warfare strategies, and radar functions to ensure optimal coverage, performance, and electromagnetic protection.
- + Coordination among military and civilian organizations at national/international levels by managing frequency allocations, allotments, and assignments.
- + Platform accessible through a single unit-based license model giving full access to all technologies within the toolchain.
- + Automatic frequency assignment, with weighted options



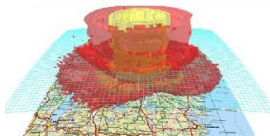
DoD/Federal/Industry Customers Include

- + Defense Forces (Air Force – Army – Navy)
- + Ministries of Defense / Defense Research Setups
- + National Frequency Regulators / Spectrum Agencies
- + Civilian Aerospace / Air Traffic Control Agencies
- + National Railway Operators
- + Public Safety / Cellular Network Operators

Co-site/Collocation Interference



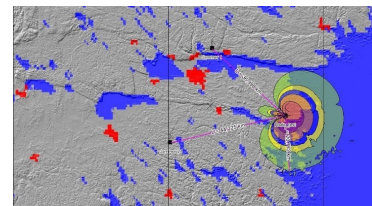
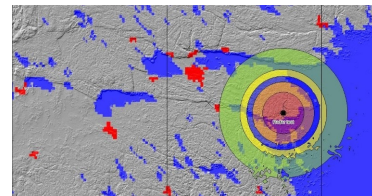
Radar Volume Coverage



DoD Problems Solved

- + Frequency management at central, regional, and command unit levels
- + Radio network planning needs
- + Electronic warfare & radar coverage
- + Analyze the effects of both friendly and hostile jamming
- + Co-site interference assessment
- + Integration with monitoring systems/sensors

Radar coverage without/with impact of jammers





Interested in Learning More?

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