

ATAK-MESH

ATAK Software Plugin for DTC MANET Radios

Overview:

The ATAK-Mesh Plugin seamlessly integrates DTC's IP Mesh radios with the ATAK Civilian application, delivering resilient, real-time communications and network awareness directly to the operator's device. Designed for mission-critical environments, it enables users to extend ATAK functionality beyond traditional infrastructure, operating effectively in denied, degraded, or disconnected scenarios.

By bridging tactical radios with the ATAK ecosystem, the plugin provides enhanced situational awareness through live network visibility, signal quality monitoring, and remote radio management. Operators can configure and control their communications network in real time, optimise performance, and rapidly respond to changing RF conditions — all from a single, intuitive interface.

Supporting a range of DTC platforms and tactical smartphone deployments, the ATAK-Mesh Plugin empowers teams with greater operational flexibility, faster decision-making, and improved coordination in the field.



Features and Benefits:

- Full internal Mesh network integration that works with and without enabling CoT
- Local and remote zeroise including a shared black/whitelist
- Ability to overlay data links and signal quality status
- Local and remote spectra analysis, and remote interference display
- Local and remote spectrum scan complete with snapshot facility
- Radio configuration with waveform select

Product Information:

Product Codes

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Requirements

ATAK compatibility	ATAK-CIV-5.0.0 to ATAK-CIV-5.7.0
SDR firmware	v8.4.5 and above

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Location and Connectivity Awareness of Assets

Position and status information for soldiers and assets can be continuously monitored without reliance on external GPS devices. Degradation in connectivity, reduced power levels, or identification of assets critical to network integrity enables proactive intervention, ensuring the network remains resilient and survivable.

Ground Reconnaissance / Sentry Capability

Any soldier or asset on the battlefield can act as a collection node, introducing a new dimension to reconnaissance and information gathering. Collection can be conducted:

- **Directly:** By the individual at a time and location of their choosing via their terminal
- **Remotely:** By tasking forward assets without requiring their active involvement or awareness

GUxV Reconnaissance (Spectrum Sensing)

Radios can be leveraged as sensors to scan large and remote areas, identifying threats, congestion, and contested spectrum environments. When operating in non-silent mode, the system can visualise:

- Relative asset positioning
- Power status
- Predicted throughput

This provides ground controllers and battle captains with actionable insights to support timely and informed decision-making.

Operational Planning

Effective planning requires an understanding of the operational environment, informed by prior spectrum reconnaissance and anticipated throughput performance.

Captured data and screenshots from these activities improve planning accuracy and increase the likelihood of mission success.

Loss or Compromise of Assets

Where an asset is at risk of compromise and poses a threat to mission success, it can be blacklisted and remotely wiped.

This action can be executed immediately or triggered upon the asset reconnecting to the network.

For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email solent.info@domotactical.com

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