

ATDI EXCELLENCE MODEL

ATDI permanent research enables us to provide user-friendly solutions with very high level of accuracy and trustworthy results for critical mission planning and spectrum dominance:

- Cost-effective O&M (software updates, technical support, 24/7 hot line)
- Cost-effective tailored training
- C4ISR assets implementation feasibility studies and technical support
- Customer-specific development
- On-site assistance



HTZ WARFARE IS USED WORLDWIDE BY:

- C4ISR: Computerized Command, Control, Communications, Intelligence, Surveillance, Reconnaissance services
- Ministry of Defenses
- Forces: air, land, navy
- Police, rescue and security services
- Regulators and Frequency Management Offices
- Tactical communication units
- Military hardware integrators

DISCOVER MORE ON OUR PRODUCTS

Visit our website: www.atdi.com

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HTZ WARFARE

AN ADVANCED COMBAT – PROVEN SOLUTION SUPPORTING THE DEFENSE FORCES' REQUIREMENTS FOR:



Optimization and resilience of connected mobile communication networks



Control and optimization of electromagnetic spectrum



Control and optimization of information exchange

WWW.ATDI.COM

HTZ WARFARE IS THE MOST POWERFUL SOFTWARE FOR TELECOM DEFENSE DEDICATED TO FIXED AND MOBILE COMMUNICATION NETWORK PLANNING, SPECTRUM MANAGEMENT, SPECTRUM ENGINEERING AND COMMUNICATION ELECTRONIC WARFARE.



SINCE 1988, HTZ WARFARE PROVIDES A COMPREHENSIVE SET OF FIXED AND MOBILE COMMUNICATION NETWORK PLANNING FEATURES TO DESIGN AND OPTIMIZE MILITARY COMMUNICATION NETWORKS FROM A FEW kHz TO THz.

HTZ warfare is the most advanced radio planning solution for the design and optimization of military communication networks and for modeling battlefield communications and wireless systems including classical and tactical radio, microwave, radars, satellites, drones and UAVs – with allied,

enemy or neutral modes. It enables advanced modeling of the modern electronic warfare battlefield in 2D/3D view (ELINT, COMINT) and offers extensive radio simulation scenarios for interception, direction finding, radio localization, sensor and radar countermeasures.

HTZ WARFARE MULTI-TECHNOLOGIES, ONE SOLUTION

Critical Communications: VHF/UHF, HF, LINK11, LINK16, TETRA, PMR, TETRAPOL, P25, DMR, CDMA, CDMA 2000, TEDS, PR4G, PS-LTE (Public Safety), Tactical broadband, Mesh, Paging...;

Satellite, Earth station;

Microwave-links & Point to Multi-Points;

Aeronautical & UAVs: Communications (Ground To Ground/Ground To Air), Radio Navigation (GP, markers, LOC, MLAT, DME, TACAN, NDB, Markers, GBAS RX, MLS AZ, etc.) and Surveillance systems;

Radars, drones;

Radio-localisation: Direction finders, Interception, MLAT, TDOA, AOA, RSSI, hybrid...;

Jamming;

Broadcast: Analog and digital (FM, AM, LF/MF, TDAB, DAB+, etc.), TV analog and digital (DVB, DVB-T2, ISDB-T, DMR, DVB-S, DVBS2, etc.);

Radio cellular technologies: LTE, LTE Advanced, LTE-M, LTE-R (TDD/FDD), 5G, 5G-NR (FDD/TDD), GSM, GPRS, EDGE, EDGE Evolution PMR, Trunked Radio Systems (TETRA, TETRAPOL, APCO-25, MPT 1327), GSM-R, DCS, CDMA EVDO GPRS, Wi-Fi (802.11a/b/g/ac), WiMax (802.16 a/d/e), UMTS, R99, HSDPA, HSUPA, HSPA+, DB-HSDPA, DC-HSDPA, CDMA 2000 1x, CDMA 200 EV-DO, DCS, MBSFN-LTE, NB-IoT (3GPP), LoRa, SigFox, Smart grid technologies, Mesh networks, WiFi, SCADA...;

HF: Skywave and Groundwave.

ATDI'S ALL-IN-ONE SOLUTION FOR CRITICAL COMMUNICATION NETWORK DEPLOYMENTS, COEXISTENCE STUDIES, FREQUENCY PLANNING AND SURVEILLANCE.

MAIN FEATURES OF HTZ WARFARE:



Efficient deployment of all tactical fixed and mobile networks

Network coverage calculations
Prospective planning
Network coverage analysis
Network optimization
Site searching
Network planning



Electronic warfare command control (C2) functional services

Battlefield communications modeling On-the-move capabilities
Radar (coverage, countermeasures...)
Jamming
Direction finding
Radio localization & Geolocalization
Maps



Spectrum optimization

Frequency coordination
Automatic frequency assignment
Dynamic Spectrum
Electromagnetic compatibility
Frequency sharing



Access to worldwide cartographic library

Import/Export data
Map builder (DTM, Clutter, Buildings, Vectors)
Online map servers WMS/WMTS
Geoportals
Integrated GIS



Deployability compliant with all IT environments

Remote coverage calculations
Access points
Load balancing
Multi-Core
Command line

HTZ warfare's 3D map-based deterministic propagation model can fulfil requirements from a few kHz to THz simultaneously and offers superior prediction reliability in any radio environment (urban, indoor/outdoor). ATDI's virtual machine licensing scheme allows high-speed calculations to be conducted on a powerful remote server from a "zero client" station while complying with organizations' cybersecurity requirements.