

HTZ warfare

the most comprehensive radio planning solution for
electronic warfare and tactical communications



HTZ warfare overview

HTZ warfare features a comprehensive set of radio planning capabilities that enables the design and optimization of military communication networks for frequencies ranging from a few kHz up to 450GHz. Unique electronic warfare and tactical communications functions allow accurate simulation of battlefield communications for advanced mission planning.

HTZ warfare is developed for and used worldwide by:

- C4ISR: Computerized Command, Control, Communications, Intelligence, Surveillance, Reconnaissance services
- Armed forces (Air, Navy, Land)
- Police, emergency, border patrol and security services
- Military spectrum regulators
- MODs
- Tactical communications
- Military equipment makers

Main functions of HTZ warfare

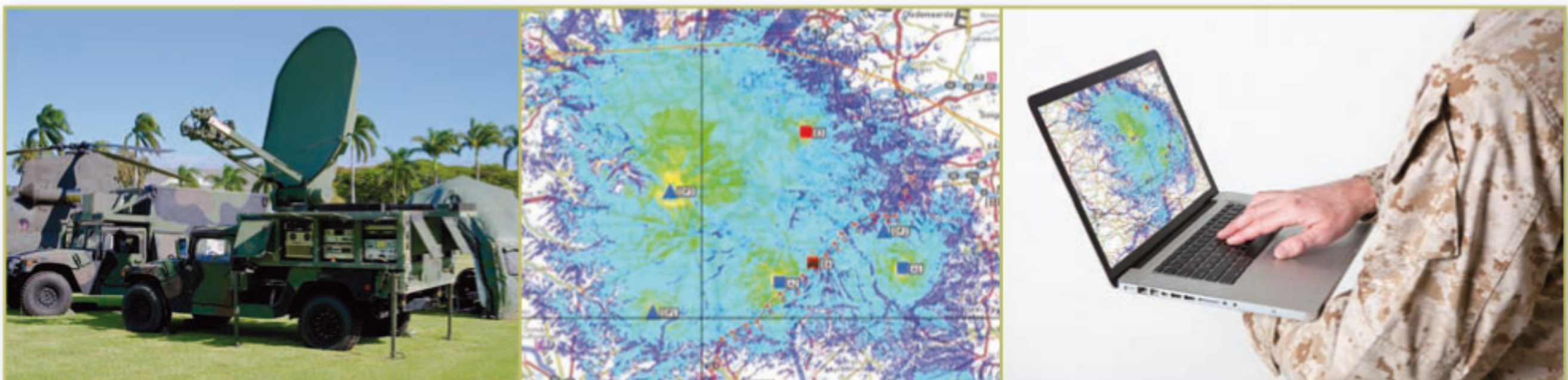
Radio planning

- Network coverage calculation
- Interference analysis
- Automated frequency planning
- Spectrum management
- Network optimization
- Civilian technologies
- Co-existence management
- Aeronautical capabilities
- Digital cartography
- Google Earth export
- Online access to worldwide maps
- Frequency from a few kHz up to 450GHz
- Interoperability with SQL and XML databases



Electronic warfare

- Battlefield communications modeling
- On-The-Move capabilities
- Radars
- Satellites
- Microwave links
- Jammers
- Direction finders
- Interception
- UAV, MLAT calculations
- PMR and trunked radio systems



HTZ warfare comes as an “all-in-one” solution covering the full radio spectrum and all radio technologies. It is provided with worldwide cartographic database including digital terrain model, clutter and image layers.

Battlefield communications modeling

HTZ warfare allows the modeling of battlefield communications in any environment (land forces, air forces, navy), taking into account accurate cartographic data and supporting a comprehensive range of communication equipment type (radars, Tx/Rx, jammers, direction finders) that can be split into allied, enemy and neutral networks. Paths and trajectories can be simulated for ground vehicles, aircrafts, UAV's, ships as well as troops for advanced mission planning.



Aerospace simulation and modeling

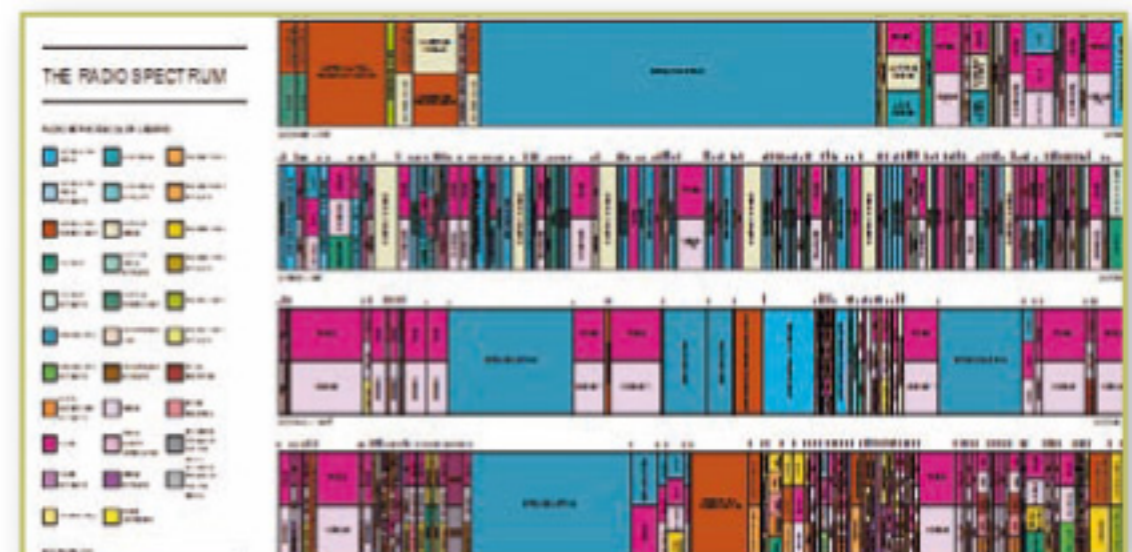
HTZ warfare allows the modeling of mixed ground/air/sea communications, taking into account various technologies that could be interfering with each other. For example HTZ warfare enables the frequency management of congested airport zones including coordination aspects.



RF spectrum management and optimization

HTZ warfare can be used in conjunction with ICS manager for administrative processing and management of the military spectrum:

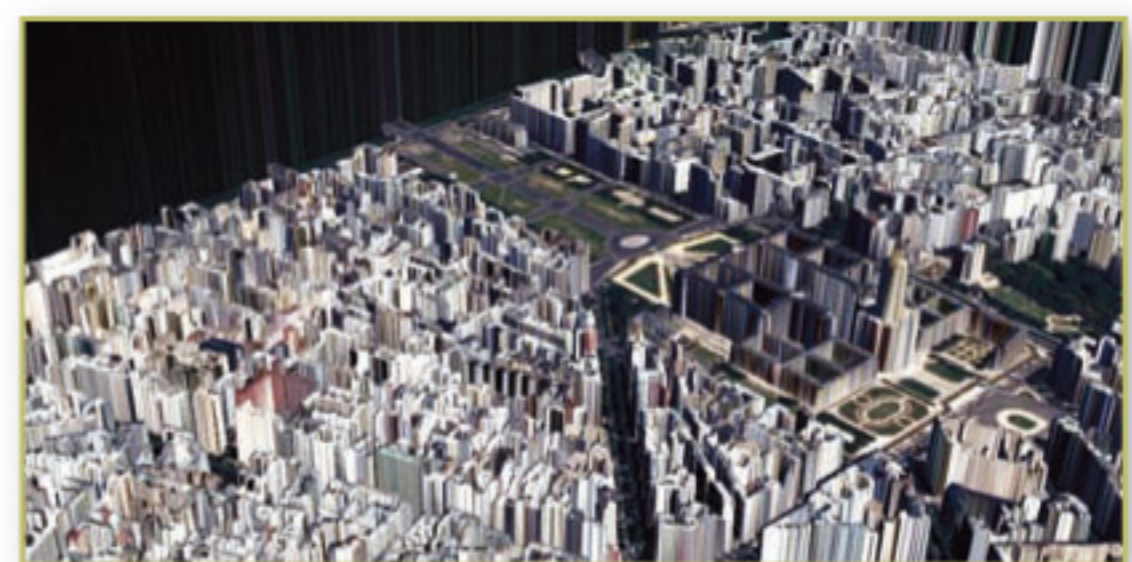
- Spectrum planning
- Technical frequency assignment
- National and international coordination
- Monitoring and control
- Co-existence and EMC analysis



Interoperability and integration

HTZ warfare is interoperable with most formats, data base systems and communication equipments in order to facilitate data import/export in a seamless way:

- Cartographic data and GIS formats
- Specific exchange formats SMADEF-XML, SFAF
- From RDBs (Oracle, SQL, XML, Access) to standard text formats
- Monitoring equipment and field test measurement



Cartographic data

HTZ warfare is provided as an "all-in-one" solution, packaged with ICS map server, ATDI's GIS tool. With ICS map server users can convert their own existing map database from any format. They can also access and download ATDI's worldwide map data. HTZ warfare can handle wide area projects at medium resolution, as well as high resolution projects focusing on dense urban areas including accurate building layers.





ABOUT ATDI

ATDI offers best-in-class radio planning solutions for both civilian and military markets, automated spectrum management systems (ASMS) for regulators, as well as associated consulting services, training and cartographic data.

With more than 20 years of experience and a thousand customers, several offices and a broad network of local partners around the world, ATDI boasts the most comprehensive portfolio of software solutions for spectrum management and radio planning.



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