The launch of ATDI Inc.’s Spectrum-E web application is a watershed moment in radio frequency planning and analysis. Spectrum-E adds a new dimension to ATDI’s suite of popular desktop-based applications. As a web application, Spectrum-E offers a new level of cross platform compatibility never available to ATDI customers before. The application can be accessed on a PC, tablet, and even smart phone.

The Spectrum-E web application runs off of RunPropMod, ATDI’s multi-threaded spectrum engineering component. ATDI’s web application can be delivered as a subscription service utilizing ATDI’s cloud services for computational processing, or through a local client-side implementation where the application can be integrated with other systems and legacy tools through scriptable server side and client side interfaces:

- Cloud service: The web application is hosted by ATDI servers or via 3rd party
- Local host: Spectrum-E is installed on a server located with the customer’s IT environment allowing for full customization, complete configuration control, and a secure client to server connection

Spectrum-E complements ATDI legacy tools such as ICS telecom and HTZ warfare by offering a user specific dedicated interface that can communicate with the propagation models offered in those legacy products. The capabilities of the Spectrum-E web application include but are not limited to:

- Quick and simple importation onto a map of the various radio station databases including the Universal Licensing System and Consolidated Database System
- FCC interference and service contour analysis with user-selectable custom contour values
- Simulation of LF-SHF band propagation over 3D terrain and clutter at any resolution:
- Web Map Service (WMS) service that allows communication with public GIS servers to download and view public high resolution imagery for any part of the United States
- TIA TSB-88.C service area reliability degradation analysis for public safety systems (pink equals potentially interfered areas inside victim’s service area)
- TIA TSB-10.F Microwave interference analysis. Point-to-point path profiles using high-resolution cartography
- FCC Part 90 workflow to support narrow-banding and super narrow-banding criteria for performing frequency nomination analysis

ATDI’s Spectrum-E web application can be customized to meet any simulation need relative to spectrum engineering and radio frequency network planning.

For more information, please contact:

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