

■ ■ VOLCANO 2.6 RELEASE

Siradel is pleased to announce the forthcoming release of **VOLCANO 2.6**, the new version of its suite of propagation models for the wireless industry.

With the advent of wideband technologies (3G, WiMAX, BFWA), and the convergence of telecom and broadcast applications (DVB-T, DVB-H), there is a growing need for **not only accurate but also flexible prediction techniques**, accounting for outdoor but also indoor units, be it indoor Base Stations (e.g. NodeB's) that can interfere with the outdoor network, or indoor User Terminals (Mobile phones, CPE's) belonging to a mobile or point-to-multipoint FWA system (e.g. a WiMAX network).

There is also a growing need for **computation-intensive predictions**, for large networks comprising up to several thousand sites, as well as for optimization applications that rely on multiple runs of the same predictions with different parameters.

VOLCANO 2.6 was designed to address the above industry needs and implements the following **innovative enhancements** :

Features :

- **Clutter-based pre-defined prediction zones**

It is not always mandatory to predict coverage over the entire area surrounding a site.

With **VOLCANO 2.6**, the following actions are made easy :

- analyzing indoor penetration only and thus predicting indoor penetration maps only.
- optimizing a network by focusing on some areas only, and thus running predictions on those areas only.
- running faster predictions by leaving aside less important areas, such as parks or water bodies for example.

- **Wideband outputs**

Predicting the power / delay profile allows one to conduct advanced system analysis, such as delay-spread analysis, angle of arrival simulation etc...

VOLCANO 2.6 gives the user access to log files containing a variety of **wideband outputs** that can be further used for more advanced system-level simulations. Example applications include :

- prediction of angles of departure, which can be used to simulate Smart Antenna systems (useful for **TD-SCDMA**)
- prediction of the downlink orthogonality factor (key to interference simulation in **W-CDMA** based systems)

Patterns can be generated in formats suitable for use with major commercial channel simulators.

- **Handling of indoor transmitters impacting outdoor coverage**

VOLCANO 2.6 can automatically detect whether a site is indoor or outdoor, by checking its coordinates against the geo database. It is up to the user to activate this feature or not.

If active, **VOLCANO 2.6** applies a proprietary algorithm to indoor transmitters and predicts the resulting outdoor coverage. Enhanced interference analyses can subsequently be conducted.

License management utility

Supervising **VOLCANO 2.6** licenses via a dedicated utility definitely facilitates the management of the application and distributed licenses.

The utility, which can be accessed via the Start Menu, gives access to valuable information such as license server status, license count, license usage etc...

Performance

Implementing enhanced algorithms for faster and accurate predictions is one of Siradel's permanent objectives.

Multi-threading and multi-processing are supported by **VOLCANO 2.6** with some platforms, allowing for significant gains in computation time.

Supported Platforms

Volcano is supported by the following tools :

- Asset (Aircom)
- Atoll (Forsk)
- Planet EV (Marconi)
- NetAct Planner (Nokia)
- A9155 v6 (Alcatel)
- I-Planner (Nortel)
- Unet (Huawei)
- TornadoN (Siemens)
- TCP (Ericsson)

Supported Configurations

Licenses can be Standalone, Floating or Floating & Commutable
The application is Terminal Server & Citrix-compatible

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