

## The Vietnam International Communications Summit & Expo 2007 (Vietnam Comm 07)

---

*Press Release*

**CellTREK**

### **Radio Network Planning and Optimization for Next Generation Technologies.**

GSM/GPRS/EGPRS	IS-95	Mobile WiMax
WCDMA/HSDPA	cdma2000/EV-DO Rev.A	DMB/TRS

#### **Features**

CellTREK provides the following advanced features for your benefits.

- Next Generation Radio Communication Systems Support: Radio network planning and optimization for next generation radio communication systems such as Mobile WiMax and DMB are supported. Functions to load and analyze drive-test data are also supported so as to support the optimization of the radio networks.
- Monte Carlo Simulation for cdma2000, WCDMA and HSDPA: CellTREK generates snapshots of a WCDMA network and analyzes the performance from the results of snapshots carried out. Monte Carlo Simulation takes the effect of various factors into consideration such as location-dependent soft handoff gain and power constraints of links, which are not included in a static calculation.
- Data Rate Coverage for GPRS, EGPRS and Mobile WiMax: CellTREK provides data rate coverage for GPRS, EGPRS and Mobile WiMax systems for which Monte Carlo Simulation is not supported.
- 3D Ray-Tracing and 3D Viewer: A fast computation algorithm for full 3D ray tracing is available for indoor propagation as well as outdoor propagation. The 3D viewer of CellTREK can show the analysis results of full 3D Ray-Tracing very well.
- Automatic Frequency Planning for GSM: CellTREK provides automatic frequency planning function that enables frequency planning without human intervention.

#### **Analysis Modules for Various Wireless Systems**

CellTREK supports analyses of various wireless systems including GSM, cdma2000 EV-DO, CDMA (IS-95A/B), WCDMA(UMTS), cdma2000, Mobile WiMax, DMB, Flash OFDM and I-Burst.

- GSM: Frequency Planning, Best Server, Total Received Power, Total Interference and Worst Interferer
- CDMA (IS-95 A/B): Pilot, Forward  $E_c/I_t$ , Reverse  $E_b/N_o$ , Best Server and Handoff region
- WCDMA (UMTS FDD): CPICH  $E_c/I_t$ , DPCH  $E_c/I_t(E_b/N_o)$ , Best Server and Handoff region
- cdma2000 1x, 1x EV-DO: Aggregate  $E_c/I_o$ , PICH  $E_c/I_t$ , FCH  $E_c/I_t(E_b/N_o)$ , Best Server and Handoff region
- Mobile WiMax: Total Received Power, RSSI, Best Server, SNR and Data Rates
- Flash OFDM: Total Received Power, RSSI, Best Server, SNR and Data Rates
- I-Burst: Total Received Power, RSSI, Best Server, SNR and Data Rates
- DMB: RSSI, SNR, etc.

## Track Records

CellTREK has proven track records in successfully supporting wireless network planning. Leading telecommunication companies are using CellTREK.

- GSM Network Planning by NTC (2003~2007)
- WCDMA Network Planning by KTF (2001~2007)
- CDMA2000 1X EV-DO Network Planning by KDDI (2002~2007)
- CDMA2000 1X EV-DO Network Optimization by HITACHI (2006~2007)
- CDMA2000 1X EV-DO Network Optimization by SCOMMTECH (2006~2007)
- Mobile WiMax Wireless Network Planning and Optimization by KT (2004~2007)
- Flash OFDM Broadband Wireless Network Planning by KT (2003~2004)
- TRS(iDEN) Optimization by KT Powertel (2000~2007)

For more information please visit us: [www.celltrek.com](http://www.celltrek.com)

