Tektronix
Enabling Innovation

NETWORK DIAGNOSTICS

Welcome to the first issue of the Tektronix Network Diagnostics Newsletter - providing you information to stay a step ahead of industry developments.

**January 2003
Issue 1**

To get hardcopy data sheets and posters offered below, click the Literature Request Link below.

Read on, and feel free to pass this newsletter along to your colleagues.

In this issue

- Troubleshooting Challenges with CDMA2000 1xEV-DO
- Integrating Data Services into the Core Network
- Expertise in Network Signaling Analysis & Base Station Test Coming To a Venue Near You!
- New Product Supports UMTS R4
- The Path to 4G
- Save Thousands of Dollars on Protocol Test Packages

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Quickly & Accurately Solve Unfamiliar Problems With High Speed Data Rates: Troubleshooting Challenges With CDMA2000 1x EV-DO

Although CDMA2000 1x EV-DO is an incremental change from its CDMA predecessors, it introduces a new "layer" of complexity that CDMA operators have not had to confront before - sharing the data-only channel of the spectrum among concurrent users. In addition to this, there are significant logistical challenges. With limited installation and maintenance resources, operators must send teams to service every BTS site while continuing to support everyday operations and quality control. Thousands of tests over hundreds of base stations add up to a time burden that operators must find ways to minimize. In recent years, a new class of base transceiver station field tool has hit the market, enabling quick, easy and efficient troubleshooting of existing and emerging networks. These instruments are portable, lightweight (under 12 pounds) and have a modular architecture that accepts new software and hardware

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modules, depending on each operator's specific needs. With this class of instrument, an operator can adjust to the specific challenges of emerging networks, such as those based on cdma2000 1x EV-DO, with a simple new option.

Learn More about Tektronix solutions for your troubleshooting challenges or visit the Literature Request link.

▲ back to top

Integrating Data Services into the Core Network

As the wireless world transits to next-generation networks, designers of network equipment and mobile operators face challenges in integrating GSM, GPRS and UMTS services onto the core network. To provide an overview of this complex environment, we're offering a FREE poster for a limited time: "Building the 3rd Generation Mobile Network." This poster illustrates how network services overlay the core and shows the protocols that enable the wireless world.

You can download the pdf file or visit the Literature Request link.

▲ back to top

Expertise in Network Signaling Analysis & Base Station Test Coming To a Venue Near You!

Tektronix will take its Network Diagnostics expertise on the road this February with a Technology Symposium. The latest technology, trends, and testing solutions for mobile wireless networks will be presented in 4 sessions focused on Network Signaling Analysis and Base Station Test, along with an application fair. This free, one-day seminar will travel to 12 cities across the U.S. Seating is strictly limited, so reserve your place now.
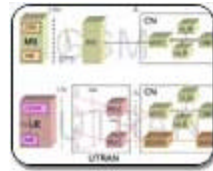

More information and REGISTRATION

▲ back to top

Tektronix Supports Latest UMTS Release, Enabling Developers to Move Forward With Implementation

UMTS Release 4 (R4) is the next step in the migration towards full implementation of third-generation (3G) UMTS networks. In order to meet the requirements of each new release, and to meet delivery deadlines for UMTS elements, mobile equipment manufacturers are challenged to test the compliance of their existing products against the newest specifications; a proven test tool that supports the latest standard is mandatory. Tektronix' K1297-G20 protocol tester Version 2.40 (V2.40) delivers compliance testing of UMTS R4 in a proven, comprehensive tool. More information . To request a datasheet, visit the Literature Request link above.

▲ back to top

The Path to 4G

If you missed our "Path to 4G" Net Seminar, take a look at the archived net seminar . The migration of mobile networks, from digital circuit switched voice through 3G technologies and beyond into flat all-IP networks, is explored by experts in wireless mobile technologies. Topics discussed include:

- **What is 3G?** A description of the umbrella term, a demonstration of the business need for 3G deployment, and an acknowledgment of the risks and challenges involved.
- **How Do We Get There?** A look at the static RAN model in IMT-2000 and a check of the status of the two technology paths in simple terms.
- **The GSM Path.** A consideration of the GPRS/EDGE stepped approach to 3G and an explanation the R'99-to-R4 and the R4-to-R5 transitions in the 3GPP recommendations.
- **The CDMA Path.** A view of IS-856 enhancements to the IS-2000 interface in CDMA2000, illustrating the movement of complexity from the periphery of the network into the base sites.
- **What is 4G?** An explanation of the concept of a blind All-IP network and a rationalization

for the R5 transition.

- **Testing the Network.** Testing challenges that are emerging as the network "flattens" and services are provisioned along an increasingly intelligent network edge.

▲ back to top

ACT NOW and Save Thousands of Dollars on Protocol Test Packages!

Refurbished test equipment offers you an exceptional way to purchase high-performance products at substantial discounts. You'll not only save money, but you'll have complete confidence in the quality of your purchase. We carefully recondition each instrument and provide the same warranty that comes with our new products. Extended service options are also offered. Plus, many of our refurbished instruments are available for immediate delivery. Take advantage of these outstanding values!

▲ back to top

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