#### **WIRELESS BILLING**



Proven Solutions. Powerful Vision.

Wireless CC&B System
ALLTEL Information Services

ALLTELs browser-based CC&B solution includes a fully integrated POS and inventory system; a fast, seamless activation process; powerful customer maintenance tools and flexible rating options.

Contact:
ALLTEL Information Services
One ALLTEL Center
13560 Morris Road
Alpharetta,GA 30004
877-807-1903
telecom-marketing@alltel.com
www.aistelecom.com

#### ARGUS

#### DC POWER SYSTEMS

#### Vista

Argus' Vista is a 7' front access system featuring configurable distribution providing 24VDC/2000A. Extremely versatile, it can be used as a GSM overlay solution.

Contact: Jim Heidemeich Vice President of Sales USA jheidenreich@argus-usa.com

Address: Argus Technologies 3888 Hammer Drive Bellingham, WA 80226 7628V5J 5E5 Phone: 380-671-7054 Fez. 380-380-7098



er गोर्नाम Guep Carpery argusdopower.com

#### **IN-BAND WIRELESS BACKHAUL**

DataNex EMS Wireless Booth:3319

The DataNex in-band wireless backhaul solution enables wireless carriers to minimize interconnect costs and eliminate recurring monthly T1 costs. Ideal for rural areas or highways connecting major cities, DataNex provides wireless datalinks equivalent to up to four T1 wirelines, with more than 15 miles of range without line-of-sight—all while achieving a higher fade margin than traditional microwave solutions.

Contact: EMS Wireless 2850 Colonnades Court Norcross, GA 30071 770-582-0555, ext. 5310 Fax:770-729-0036 cs.wireless@ems-t.com www.emswireless.com

#### **NETWORK DESIGN**



SitePlanner & LANPlanner Wireless Valley Communications,Inc. Booth:5559

Wireless Valley's revolutionary software products greatly simplify all aspects of in-building and campus wireless network design, measurement, optimization, monitoring and asset management.

Contact:
Wireless Valley Communications
2404 Rutland Drive, Suite 700
Austin,TX 78758
512-821-1560
Fax:512-821-1585
sales@wirelessvalley.com
www.wirelessvalley.com

#### **SCREENING / PLATFORMS**



Rooftop Concealment Screening / RapiDeck Equipment Platforms Fibergrate Composite Structures,Inc. Booth:6315

Fibergrate offers turnkey design, engineering, fabrication and installation for your composite rooftop screening applications, as well as all-composite equipment/access platforms and accessories.

Contact:

Fibergrate Composite Structures,Inc. 4285 Kellway Circle, Suite 224 Addison,TX 75001 800-527-4043 Fax:972-250-1530 info@fibergrate.com www.fibergrate.com

#### MICROWAVE RADIOS

NEC Nlite 155 Series NEC America,Inc.,Radio Communications Systems Division Booth:4111.Hall E

NEC's Nlite radios, a family of high-quality, short-haul-access digital microwave relay systems, include models to satisfy both small-to-medium—to-large capacity demands.



Contact: Linda Hallada,Marketing Manager 6555 N. State Highway 161 Irving, TX 75039 214-262-2400 necwave.com

#### CUSTOMIZED WIRELESS SOLUTIONS



Your Total Solution Holley Communications Group, Inc. Booth:1670

Holley Communications provides a wide range of customizable CDMA and GSM wireless solutions as well as a variety of combinations of services to fit customer requirements.

Contact:
Holley Communications Group, Inc.
2140 Lake Park Boulevard, Suite 201
Richardson, TX 75080
972-638-3200
Fax:972-638-3201
marketing@holleycomm.com
www.holleycomm.com

# LBS SOLUTIONS I'M SO THERE.

A-GPS Chip Set & Reference Network GLOBAL LOCATE Booth # 6217

Experience the Art of Location! The Global Locate A-GPS Chip Set can locate your cell phone almost anywhere in the world. And we have the only worldwide reference network today that provides standards-compliant A-GPS.

Contact: Global Locate 3190 South Bascom Ave. San Jose, CA 95124 Tel:408-371-0580 Fax:408 371 0584 www.qloballocate.com



#### DRIVE TEST SOLUTIONS



#### All technologies in <u>one</u> simple, reliable package

The ZK DXM SAM measures, logs & displays data on up to six networks and technologies simultaneously: EAMPS, TDMA, GSM / AMR, GPRS, CDMA IS-95/2000 Voice & Data and iDEN. Monitors 800, 850, 900, 1800 & 1900 MHz Networks, with internal options for GPS logging, and CW, PN, DVCC and/or BISC Scanning.

#### Contact:

Kurt Siem 800-TESTCELL (837-8235), x204 408-986-8080, x204

E-mail: kurt@zk.com Web: www.zk.com

Booth 1436

#### DC POWER SOLUTIONS

TDI Demo Truck at CTIA Transistor Devices,Inc. Booth: 933

Transistor devices offers DC power solutions from ten amps to 15,000 amps! Come see what we have to offer.



Contact: Transistor Devices,Inc. 36 Newburgh Road Hackettstown,NJ 07840 908-850-5088 sales@tdipower.com www.tdipower.com

#### INTELLIGENT TRANSPORTATION



Transportation + Wireless = ITS
The Intelligent Transportation Society of
America
Booth:5553

Our private-industry and public-sector members make intelligent transportation systems happen—and they do it through ITS America. Stop by our booth to find out how we can help your organization "plug in" to the ITS market.

Contact: Christine Cook 400 Virginia Avenue, SW, Suite 800 Washington,DC 20024 202-484-4847 ccook@itsa.org www.itsa.org



Logus Microwave offers a complete line of electro-mechanical waveguide and coaxial switches for the RF/microwave industry. Spanning from DC to 65GHz, Logus switches are the number-one choice of uplink, downlink, test and radar system designers.

The Logus reputation in the dual-band, broadband, tri-band and multi-band communication systems area is unsurpassed. When you need the highest reliability coupled with better than competitive pricing, then you need to specify Logus switches.

Once installed, you'll be glad you called!

Contact: 1305 Hill Avenue West Palm Beach,FL 33407-2228 561.842.3550 sales@logus.com Monday, March 17<sup>TH</sup> 2003 Wireless Daily News

#### MOTOROLA UNVEILS WAVE OF MOBILE HANDSETS, APPLICATIONS, EXPERIENCES FOR 2003

This week at CTIA, Motorola is showcasing a wave of new mobile experiences that leverages the strength of its 2002 portfolio while offering compelling new "must-do" experiences and "must-have" designs.

Color is on display with the large screens of Motorola's new line of mobile handsets. Ideal for displaying photos, creating custom photo screensavers or adding images to a visual caller-ID, the large color display on the Motorola V600 allows users to display their own virtual "brag book" full of friends, family and special occasions wherever they are.

Motorola V600 users can snap headshots of their new contacts for use in the visual caller-ID, meaning they'll know which "Bob" is really on the line. Consumers can also use the model V600's advanced Bluetooth technology to share these photo memories quickly and easily.

The new Motorola E310 is designed for those who crave fun. With a color screen, downloadable games, messaging, customized ringtones and compatibility with the Motorola MP3 and FM stereo headset accessories, the product is designed to help users express themselves.

With the new color-screen Motorola C350 series, meanwhile, consumers can change the inside and outside of their phone by downloading wallpaper, ring tones and screen savers and by selecting from various shapes of exterior housings for a seemingly new phone every day.

Users can also shape their own sounds with the installed MotoMixer, making them instant DJs able to download and remix MIDI ring tones with ease.

This week, Motorola is also showcasing the world's first Java + Linux handset, the Motorola A760. The Motorola A760 combines the ideal features of a mobile phone with the capabilities of a personal digital assistant, digital camera, video player, MP3 player, speakerphone, advanced messaging, instant Internet access and Bluetooth wireless technology.

Packed into one compact device with a vivid color touch-screen, the Motorola A760 excels in information management as well as communication services, offering voice, text and entertainment services to help meet the needs of today's multitasking mobile consumer.

The A760 handset is designed to offer a rich end-user mobile experience based on the open-source OS. Motorola's leadership in Java technology, coupled with the Linux OS, arms mobile de velop-

ers with an increased freedom to create new Java applications—from games to productivity tools—for smart devices like the A760

Motorola's Java-applications leadership ensures that consumers have the power to add new games, advanced game levels and applications to their handsets with easy over-the-air downloads. This technology satisfies users' need to personalize their handsets with specific applications, while simultaneously providing customers an additional revenue channel.

Motorola's mobile experience for consumers is enhanced by the everincreasing catalog of Java technology-based mobile applications developed through Motorola's newly launched MotoCoder program for developers. MotoCoder is designed to support developers and promote innovative open-standards application development.

For more information, visit www.motorola.com/developers/wireless.

## ARGUS TECHNOLOGIES INTRODUCES FRONT-ACCESSIBLE 'ALL-IN-ONE' WIRELESS POWER SOLUTION

Argus Technologies, a designer and manufacturer of DC power solutions for the telecommunications industry, is showcasing Vista, an "all-in-one" wireless power solution, at booth 5031.

"The Vista family is the best combination of power, efficiency and convenience we can offer our customers," says Jim Heidenreich, Vice President of Sales for Argus USA.

"Vista is designed to be completely front-accessible, with distribution that provides outstanding system flexibility. Customers can expand this system incrementally to meet current and future network application requirements."

The Vista boasts an industry-leading system controller with field-proven components that supply 24VDC/2000 amps of power.

#### **About Argus Technologies**

Argus Technologies, a member of the Alpha group of companies, specializes in the design and manufacture of DC power solutions for the telecommunications industry.

Argus' product line includes

10–10,000 amp DC power systems and enclosures, wireless plants, Pathfinder rectifiers, DC to DC converters, and system controllers featuring remote and local monitoring. Service is available though a network of dedicated local centers worldwide. Argus also offers services such as EF&I, training, 24/7 technical support (on- and offline) and e-solutions.

For more information, call Sandra Monroe, Marketing Specialist, at 604-436-5900, e-mail smonroe@argus.ca, visit www.argusdcpower.com or stop by booth 5031.



Unclear growth expectations, scarce real estate, zoning red tape, and negative public perceptions towards traditional towers: It's part of life for wireless carriers.

Respond to customer demands for always-available service with a network architecture that cost effectively increases capacity.

ADC's Digivance™ product family helps carriers digitize and revolutionize wireless networks. Find out how to reduce or eliminate dead zones in the network. Visit ADC, at Vanu Inc.'s CTIA booth (No. 4620), download details at <a href="https://www.adc.com/promotions/newyearsrevolution/index.jsp">www.adc.com/promotions/newyearsrevolution/index.jsp</a>, or call 1.800.366.3891 for information.





# Empowering Mobile Networks To Reach Optimal Performance

Corporate Headquarters 2 Cromwell Irvine, CA 92618-1816 USA voice: +1 949 599 7400 fax: +1 949 599 1415 www.comarco.com

©2003 Comarco. All rights reserved.

Asia / Pacific Singapore +65 487 6002 asia@comarco.com Latin America Mexico City +52 5 55 511 0880 latinamerica@comarco.com SwissQual AG Gewerbestrasse 2 CH-4528 Zuchwil Switzerland www.swissqual.com Phone:+41 32 685 0830 Fax: +41 32 685 0831



Visit Ekahau at CTIA Wireless 2003 Booth #3811!

#### Location, location, location...



## Add value to your Wi-Fiadd location!



#### Ekahau Positioning Engine™

Adds location info to your Wi-Fi, pinpointing 802.11-enabled laptops and PDAs, with an average accuracy of 3.5 ft. This enables location-sensitive applications in healthcare, warehousing and hotspots for pushing location-sensitive content to nurses and physicians, using PDAs as location-sensitive visitor guides in museums and exhibitions, tracking corporate wireless users for security, asset management and better network optimization.

#### Ekahau Site Survey™

The ultimate site survey tool helps system integrators to optimize the Wi-Fi access point locations for improved network throughput and quality of service. The Ekahau Site Survey visualizes the site survey results with special multi-color maps, and finds the overlapping 802.11 channels per each site location.

Ekahau, Inc. is the industry leader in indoor positioning in 802.11-based local area networks. For a free 30-day evaluation copy of Ekahau Positioning Engine, please visit <a href="https://www.ekahau.com/forum">www.ekahau.com/forum</a> or call 1-866-4EKAHAU.

Wireless Daily News Monday, March 17™ 2003 29

#### ADC, VANU SHOWCASE SOFTWARE-DEFINED RADIO SOLUTION FOR WIRELESS INFRASTRUCTURE

ADC has partnered with Vanu, Inc. to demonstrate a software-defined radio (SDR) at booth 4620. This solution combines Vanu Software Radio technology with ADC's Digivance radio-over-fiber system to create an SDR solution for the wireless infrastructure.

"The adoption of flexible signal processing and RF system components results in lower capital and operating costs," says Andrew Beard, COO of Vanu, Inc. "This architecture accommodates seamless network evolution, relying on installed radiating points to deliver a blend of current and future RF services where and when they're needed."

ADC's wireless roadmap ensures that today's architecture generates revenue now, while adapting to future demands by using base station hotels and a digital platform. Today, Digivance LRCS enables radio capacity to be centralized at a convenient location and distributed to small remote units to provide service within

buildings, cities and beyond.

This product digitally transports RF signals from base transceiver stations (BTS) to remote locations inside buildings, urban canyons or tunnels. The digital format also accommodates future technologies as they are developed and deployed to meet user demands on the network.

Vanu Software Radio uses advanced engineering techniques to implement all the signal processing for wireless communications systems in software, making it configurable and adaptable to any type of wireless platform. The software's portability allows Vanu Software Radio to quickly move the software onto new processors, taking advantage of the faster processing speeds.

As processor speed increases, the cost of Vanu Software Radio base stations

decreases. Wireless operators will no longer need to upgrade their hardware regularly in order to keep pace with newly released technologies and standards.

"Our approach places the remote transceiver at radiating points in the network, allowing all signal processing to be done at the host end," says Gary Spedaliere, Director of Wireless Products for ADC.

"The result is that with base station hotels installed today, carriers can deliver the coverage and capacity their customers demand right now. In addition, carriers can easily deploy future technologies as they become available, because the digital RF transport is in place."

For more information, visit www.adc.com and www.vanu.com or stop by booth 4620.

### SOMERA DEMONSTRATES ASSET MANAGEMENT SOLUTIONS TO REDUCE OPERATIONAL COSTS

You've probably just walked through the show floor amazed at some of the new technologies. But what may be even more amazing is figuring out how you can deploy this technology when your capital budget has likely been cut by 10, 20, or even 50 percent.

Now, the question is often not how to buy new equipment but how to stretch capital budgets and get more use out of the assets already available in the network by managing them in a new way.

First, chances are you have a tremendous amount of cash tied up in

under-utilized assets and excess inventories sitting idle on your balance sheet. You can either continue to depreciate these assets or seek out channels in which to dispose of these assets.

Somera is a company with various consignment, purchase and exchange programs designed to address this very problem. By implementing one of these strategies, the financial return gained can be applied toward the purchase of equipment and services needed to run your network efficiently and cost-effectively.

Another emerging strategy is the use of redeployed equipment as part of the network management and build-out strategy. A common misnomer is that redeployed equipment is necessarily "used" or outdated. Although it is likely that the equipment has been successfully used in a previous network application, "redeployed" also refers to "new in the box" equipment that may have been acquired from surplus or unwanted equipment inventories.

When used in conjunction with new equipment, redeployed equipment can reduce the overall cost of network operations. A redeployed solution can be customized and configured to your specific requirements and tested and fully warranted to perform to original specifications. So if you're looking for a proven alternative to a new-only solution that

meets your budget and network needs, redeployed may be the answer for you.

Somera is an industry leader in supporting the asset management strategies described above. These solutions are particularly important as operators seek to reduce capital expenditures, lower operating costs and unlock under-utilized equipment assets on their balance sheet.

Somera's equipment and services offerings provide the value, quality and reliability necessary to help telecom operators address these important issues. The company has developed an impressive base of over 1,100 customers worldwide, including industry leaders from each segment of the telecommunications market.

For more information, call 805-681-3325, visit www.somera.com or stop by Somera's booth.

#### QUICKTEST FROM CADEX BRINGS MORE THAN 80% OF 'DEAD' CELL PHONE BATTERIES BACK TO LIFE

Batteries are blamed for most problems with cell phones. To make the customer happy, the battery is replaced—often without testing. The returned batteries are sent to the manufacturer or are discarded, but in fact, most of these presumably faulty batteries can be restored with a battery analyzer.

To this end, Cadex Electronics has developed QuickTest, a program that is capable of checking batteries in only three minutes. QuickTest is built into the Cadex C7200 and C7400 battery analyzers, which also charge, cycle, condition and boost batteries that appear dead due to low discharge.

The Cadex C7400 battery analyzer with QuickTest provides a reliable solution for reducing battery returns. More than 80 percent of returned batteries can subsequently be repaired and returned to the customers.

The patent-pending QuickTest works

on inference technology. Multiple variables are fed to the micro controller, "fuzzified" and processed through parallel logic.

QuickTest uses battery-specific matrices that are obtained with the analyzer's trend learning process. The ability to learn lets the system adapt to new batteries in the field. The matrices are stored in the Cadex SnapLock Battery Adapters, which automatically configure the analyzer to the correct battery setting.

Battery Adapters commonly include the QuickTest matrix at time of purchase. If missing, the matrix can be added in the field by scanning a few batteries with the analyzer's Learn program.

The battery C-Codes can be copied to

other adapters, erased and reentered with a few strokes on the analyzer's keypad. The required charge level to perform QuickTest is 20–90 percent. If outside this range, the analyzer automatically applies a brief charge or discharge, and the service time is prolonged accordingly.

The two-station Cadex C7200 serves storefronts while the four-station C7400 helps with larger projects. Custom Battery Adapters are most practical for servicing common batteries or when trained staff is not available. The universal FlexArm adapter accommodates less-common packs. BatteryShop software allows the analyzer to be controlled from a PC and permits the storage of test results.

#### Global Locate (continued from Page 1)

Right now, Europe and much of Asia, including China, are ahead of North America in recognizing the potential and in implementing LBS to a broad audience. In North America, carriers have been understandably slower to make precise positioning a fundamental proposition in their premium service offerings due to their focus on mandatory E911 deployments. But with help from us, they are moving toward a higher-ROI simultaneous-service model now.

**WDN**: What kinds of services are leading this move?

RL: Various tiers of service can be implemented now. At the lower end, basic consumer-oriented capabilities like Friend Finder are proven. There are also more advanced fast-update solutions such as personal navigation coming in at the higher end of the service model.

These upper-tier, high-update rate services can incorporate maps and pictograms capable of resolving to a very

fine scale, thanks to the powerful MMS platforms now being deployed by carriers. They enable the advanced vehicle navigation systems and similar services now actively sought by consumers, a process that emerged first in Japan and then in some European locations and is now migrating to North America.

One system now being tested in Sweden provides an exciting example of what is coming: it allows basic location tracking using an iPAC that is very conserving of network bandwidth by using map pictograms. This solution is in early testing, but it has been able to take users within 50 meters of their target location starting many miles away. It is very impressive, and not far from commercialization.

**WDN**: Are costs coming down to enable a ubiquitous market?

RL: This situation resembles classic Moore's Law in the semiconductor industry, in that more and more can be delivered for less. Five years ago, for example, the global positioning service capability contemplated today could have cost in the range of \$150 per handset, which rendered it cost-ineffective except perhaps in very high-end communications devices.

Until recently, there has been positioning technology fragmentation that fenced in the industry's application developers, who could not project large-volume launch or demand—too many variations and incompatibilities leaving too much risk. This resulted in deferred product development and artificially raised cost.

Now that the marketplace has adopted A-GPS as the de facto standard, we feel confident in forecasting rapid uptake and application alignment to the needs of a high-demand, ubiquitous market.

WDN: What are the costs now?

RL: Today, that original \$150 per set cost has moved down to the level of a few dollars, below ten percent of the 1999 cost. Global Locate provides both high-tier with fast update solutions for navigation and inexpensive solutions for broad consumer marketable services, such as the

popular Friend Finder.

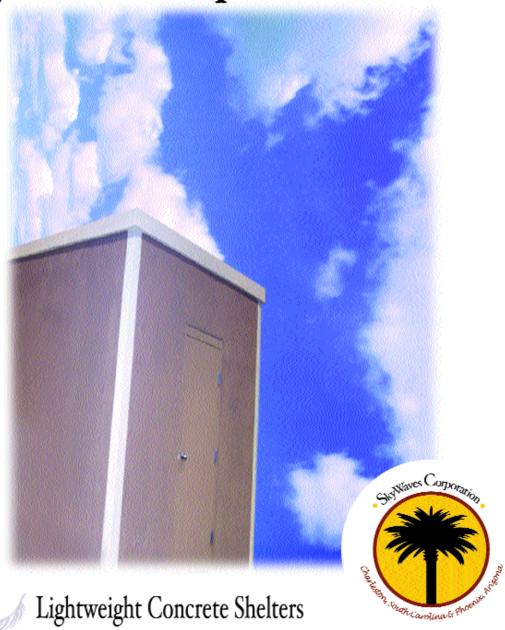
We are focused on serving all the world's leading air interfaces, which, until we undertook our development, were significantly underserved by the available positioning solutions. And we are committed to providing the essential services required to create a cost-effective, ubiquitous capability that draws in all of the important contributors throughout the location-services value chain.

**WDN**: How has Global Locate positioned itself in this sector?

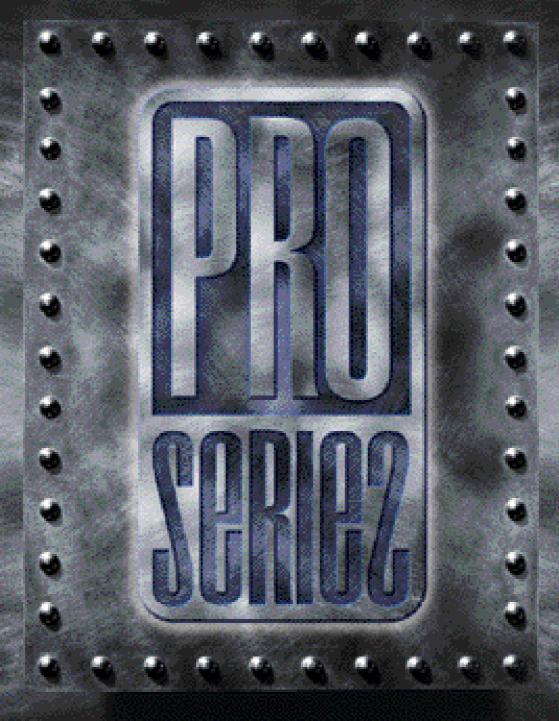
RL: Global Locate has developed a toptier team of experts in wireless signal processing technology, GPS satellite, software and networking capabilities, and is making significant contributions to the user experience in all tiers of service.

These services demand different features but can be delivered from a single platform of the kind that GL has created. We are working closely with the carriers and the service providers, and we understand their timetables and demands.

## SkyWaves Corporation



- No Maintenance (No Caulk, Rubber Seals or Paint)
- Lowers Customer Transportation & Offloading Costs
- 50% Lighter than Industry Precast Concrete (12' x 20' is 25,000 lbs.)
- Seamless Monolithic Construction (Onc Piece Building: No Seams or Joints)
- · Lightweight Concrete Technology makes Larger Shelters Available
- · Over 40 Exterior Color Options Available at No Additional Cost



Stop By Our Booth to See the Next Generation of Wireless Accessories.

Authorized Master Distributor for Genuine Naztech Products

For more information call 1-800-282-0574 or visit www.hypercel.com



**Booth #5576** 



#### **High Definition Mobile. Alarmingly Realistic.**

With the NEC 515 High Definition Mobile, you'll experience graphics so clear and colors so vibrant, you'll swear you're looking at the real thing. And Dwango®'s latest high-graphic Java™ game, Star Diversion™, will make a believer out of you. Star Diversion comes pre-loaded on the 515 and takes full advantage of its dedicated applications processor and enhanced Java by integrating polyphonic sound and vibration feedback for an unparalleled mobile phone game play experience.

Experience it yourself. Visit the NEC booth (Hall E, #4111) for a high definition mobile demonstration.















