Wireless Broadband
EAST AFRICA

3G • CDMA • Satellite • Wi-Fi • WiMAX

Hilton Hotel, Nairobi, 29 November – 1 December 2006

EVENT GUIDE

"Technologies & strategies to evolve optimised networks"

Held under the auspices of the Kenya Ministry of Information & Communication

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CONFRENCE PROGRAMME

DAY 1, Thursday 30 November 2006

9am   MAIN CONFERENCE OFFICIAL OPENING
Hon Mutahi Kagwe, Minister of Information & Communication, Kenya

9.30am   SESSION 1: STRATEGIC OVERVIEW 1
CHAIR: Sammy Kirui, MD, Telkom Kenya

Wireless Broadband Solutions for Africa
Noel Kirkaldy, Wireless Broadband Director, EMEA, Motorola

3G Broadband Wireless: Roadmap and evolution
Gajinder Vij, Director, Corporate Technical Marketing, Qualcomm, USA
This presentation provides an overview of Qualcomm's wireless vision and the key features and benefits of the 3GPP and 3GPP2 evolution paths. Details are provided on the individual releases of EV-DO (DOrA, Rev B and Rev C) & UMTS (Rel 6, HSPA+ and LTE)

10.30am   REFRESHMENT BREAK

11am   SESSION 1 (continued)

3G implementation in Kenya
Simon Lee, Head of Planning & Engineering, Safaricom, Kenya

WiMAX technologies & solutions
Rene Ververgaert, CTO of Marketing, Huawei Technologies, South Africa

12.15pm   SHOWCASE PRESENTATION: Wireless Internet solutions for the growing African market
Adrian Wheeler, Director of Sales, Europe & Africa, Smartbridges, UK

1pm   **LUNCH BREAK**

2pm   **SESSION 3: CDMA IMPLEMENTATION IN AFRICA**
                 CHAIR: Amir Grinberg, GM, Amiran Communication, Kenya

Cost-effective all-IP CDMA solutions for voice and broadband data
Jack Mar, President CDMA Division, UTStarcom, Canada

3G CDMA Mobile wireless broadband: Applications and Services
Gajinder Vij, Director, Corporate Technical Marketing, Qualcomm, USA
This presentation highlights the market and economic benefits of the EV-DO Rev. A technology. It covers the different applications and services that are possible with Rev. A; Video Telephony (VT), Simultaneous Voice over IP (VoIP) and data, Push to Connect (PTC) or Instant Multi-Media (IMM) and Quality of Service (QoS). The presentation also discusses the different service, system and device considerations for each of these applications and services.

CDMA technologies and solutions
Dr Robert Fang Liangzhou, Director of Strategy & Marketing Department, Huawei Technologies, South Africa

4pm   **REFRESHMENT BREAK**

4.30pm   **SESSION 4: GRASSROOTS ACTION**
                 CHAIR: Aaron Sundsmo, Africa Regional Director, First Voice Africa

Bridging the last mile in Africa
Peter Mwondi, IP Solutions Manager, UUNet Africa

Wireless systems for rural development
Kevit Desai, Director of Engineering, Centurion Systems & ICT Governor, Kenya Private Sector Alliance

The Africa CDMA Forum: Overview of activities and value proposition
Bill Hearmon, Chairman, Africa CDMA Forum

6pm   **NETWORKING COCKTAIL**

DAY 2 - Friday 1 December 2006

9am   SESSION 5: STRATEGIC OVERVIEW 2
CHAIR: Joseph Mucheru, MD Wanachi Online & Chairman,
Telecommunications Service Providers Association of Kenya

The future of wireless communications
Duncan Macphail, Director, TM Training, UK

Satisfying the modern business world with 21st Century networks
Renato Goodfellow, Solutions Manager, Middle East & Africa, BT Global Solutions,
UK

3G Wireless Broadband for Africa: What works best in the African context?
Dr Y. S. Rao, Vice-President, Technology, Engineering Services Group,
Qualcomm, USA
It is expected that the next one billion of mobile telephony users will be of low ARPU
prepaid subscribers from low income countries in Africa and South Asia.. The presentation
looks at highly scalable soft-switches with distributed components using IP core transport
to yield low CAPEX and OPEX solutions, thereby increasing the IRR to the operators.

11am   REFRESHMENT BREAK

11.30am   SESSION 6: ENGINEERING CHALLENGES
CHAIR: Kai Wulff, MD, Kenya Data Networks

3G CDMA – Engineering & Operational Advances: Tips and Tricks
Mullaguru Naidu, Senior Staff Engineer, Engineering Services Group, Qualcomm,
USA
This presentation deals with the performance improvement techniques/solutions that are
being incorporated into CDMA2000 systems for enhancing the capacity, battery life etc.,
and there by providing better quality/grade of service to the subscribers.

Practical issues for WiMAX network deployment
John Oliver, Alan Dick & Co, UK
> Recent experience
> Pre-Rollout – key steps
> Radio planning
> Associated RF technology
> Cabling
> Quality of installation

**Virtual Transmission Manager (VTM): Advantages compared with Mesh
Technology**
Aaron Nov, AVP Sales, Africa & Amiram Snir, Sales Manager, Africa, Inspiar, Israel
Solutions mainly for MAN Applications, Wireless Internet supplying - Based on the 802.11 B
Standard

The role of Wireless Local Loop operators in delivering universal access

Ian Kabiru, Marketing Director, Popote Wireless, Kenya

1.30pm   LUNCH BREAK

2.30pm   SESSION 7: WiFi DEPLOYMENT IN AFRICA
             CHAIR: Brian Longwe, GM, African ISP Association

WiFi: Making a difference in Africa
Roy Gitahi, GM, Digital Data Communications, Kenya
"It is important to nurture any new ideas and initiatives which can make a difference for Africa." - Wangari Mathaai, Africa's first woman Nobel Laureate. Africa is spoilt for choice from existing and planned wireless technologies from 3G, CDMA, WIMAX and WIFI but the question remains, what is best for Africa? In this race for critical mass subscriber bases, WIFI stands shoulders above the rest.

Deployment of WiFi Hotspots for private & public networks
Eng Julius Kinyua, Assistant Manager, Customer Technical Support, Telkom Kenya

WiFi Security
Solomon Njuguna, System Engineer, Sevenseas Technologies, Kenya

3.30pm   REFRESHMENT BREAK

4.00pm   SESSION 8: REGULATORY CHALLENGES
             CHAIR: Duncan Macphail, Director, TM Training, UK

The regulatory challenges involved in WiMAX deployment
Turhan Muluk, Wireless Standards & Regulations Manager, MEA & Turkey, Intel

The regulation of wireless frequencies in Kenya
Alfred Ambani, Manager, Frequency Planning, Communications Commission of Kenya

PANEL DISCUSSION: Effective regulation for wireless deployment
MODERATOR: Duncan Macphail, Director, TM Training, UK
Participants: Senior Executives of Telecom Operators and Regulators

WORKSHOPS
Wednesday 29 November 2006

WORKSHOP 1: CDMA Implementation
9am - 1pm

Key concepts of CDMA2000 1xEV-DO technology

Dr. Y. S. Rao, Vice President, Engineering Services Group, Qualcomm, USA

The above presentation explains key concepts involved in CDMA2000 1xEV-DO Release 0 and Revision A. It identifies DO system components, enhancements to 1X, differences between 1X and DO on the FL and RL, explains virtual HO, factors affecting throughput, concepts of multi user diversity are explained. Release A enhancements like FL/RL peak data rates, new channels, DRC indices and transmitted packet sizes are also explained. The presentation ends by describing DO network pre-deployment planning issues.

Best practices & lessons learnt on RF engineering and network optimization of CDMA 2000 networks

Mullaguru Naidu, Senior Staff Engineer, Engineering Services Group, Qualcomm, USA

This presentation describes fundamental concepts of CDMA2000 technology, specifies optimum settings on translation parameters on access, search windows and SHO thresholds. It also discusses voice and packet data metrics performance for optimization.

Comparison of mobile broadband wireless systems

Gajinder Vij, Director, Corporate Technical Marketing, Qualcomm, USA

This presentation is a high-level comparison of mobile broadband wireless technologies. The economics of wireless broadband including revenue and cost considerations are discussed. Technology readiness of various technologies is also compared

WORKSHOP 2: Introduction to Wireless Broadband Systems

2pm - 6pm

Gino Mils, Regional Sales Manager for Canopy in Africa, Motorola

This is a free half-day Training Workshop designed to introduce RF concepts, and the MOTOwi4 family of wireless broadband products.

The RF section provides an overview of wireless communications (licensed and unlicensed), RF transmission factors, RF protocols, and conditions that affect RF performance (both physical environment and man-made). Students will learn the RF basics to understand how Canopy equipment delivers reliable, low-interference transmissions.

The MOTOwi4 Products section reviews the Canopy product portfolio, benefits and features, performance specifications, and what Canopy equipment

supports point-to-point or point-to-multipoint networks. Will introduce a variety of resources available to customers on the Canopy website.

To register, log on to:

www.aitecafrica.com