DATA COMMUNICATIONS LTD
www.dcl.mu

WiMAX 802.16e Technology

And

Enterprise Resource Planning

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by

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27 Nov 2008

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Summary

o **Brief Overview of DCL.**

o **The Wimax challenge:**

    o R&D & history.

    o Some features and benefits of 802.16e.

    o (The) Future.

o **DCL's ERP:**

    o Evolution of DCL ERP.

    o Main areas.

    o Features.

    o Benefits.

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DCL Overview

o **DCL** Incorporated in 1997.

o   A private-owned limited company formed by individual professionals.

o   A Turnkey Solutions Provider acting as :

    o *Internet Service Provider (ISP).*

    o *International Long Distance (ILD) Telephony Operator.*

    o *Networking, Hardware & Software provider.*

o   **DCL**'s mission is to be the country's most preferred provider of complete solutions in the ICT sector, acting at all times as partners to our clients to whom we provide state-of-the-art products and services.

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DCL's History

o 1997 : Incorporation of **DCL**.

o 1997 : Representation of **UNISYS** within the region.

o 1998 onwards : Major player in IT Equipment and Peripherals.

o 1999 : 1st E-commerce Platform in Mauritius (***myEldo.com***).

o 2001 : 1st Independent ISP in Mauritius (***Smartnet***).

o 2002 : 1st to launch **Wireless Hotspot** technology in Mauritius.

o 2002 : DCL becomes an **HP** Business Partner.

o 2004 : 1st Independent Telephony Provider In Mauritius (***Easicall***).

o 2008 : First WiMAX 802.16e chipset in the world!

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The Wimax 802.16e challenge - R&D - History

o Started over 3 years ago when discussions about mobile Wimax.

o Only started at the IEEE level.

o R&D 'troop' made up of highly qualified professionals.

o Designed in collaboration with **Wimax Communications UK**.

o First successful lab tests made in Q1 of 2008.

o Chipset Technology was built up from scratch.

o Has already deposited over 10 patents.

o 1st network deployment and field test in Mauritius (Q1 2009).

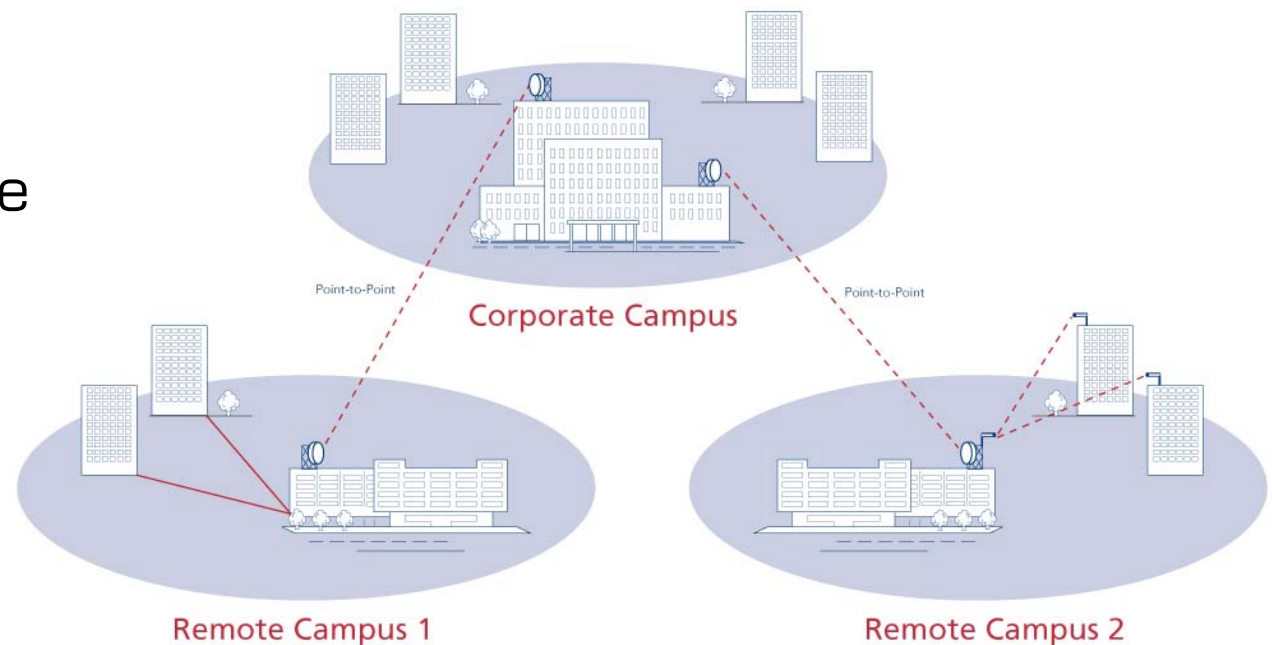o 1st lot of services expected by Q2 2009.

Wireless Technology – Wimax 802.16e

o Higher throughput per node over long distance (50 Mbps – 4 miles).

o Wireless alternative to high capacity DSL (well over 20 times faster than what exists today; ~ 50 Mbps per node).

o Portable connectivity.

o Data and Telecommunications services:

    o Mobile Telephony (similar to a cell phone).

    o Broadband Internet.

    o TV and streaming media.

    o HDTV video content.

Application Technology	Does the technology support this application?		
	Fixed	Nomadic	Mobile
IEEE 802.16-2004 (Fixed WiMAX)	Yes	Yes	No
IEEE 802.16e-2005 (Mobile WiMAX)	Yes	Yes	Yes

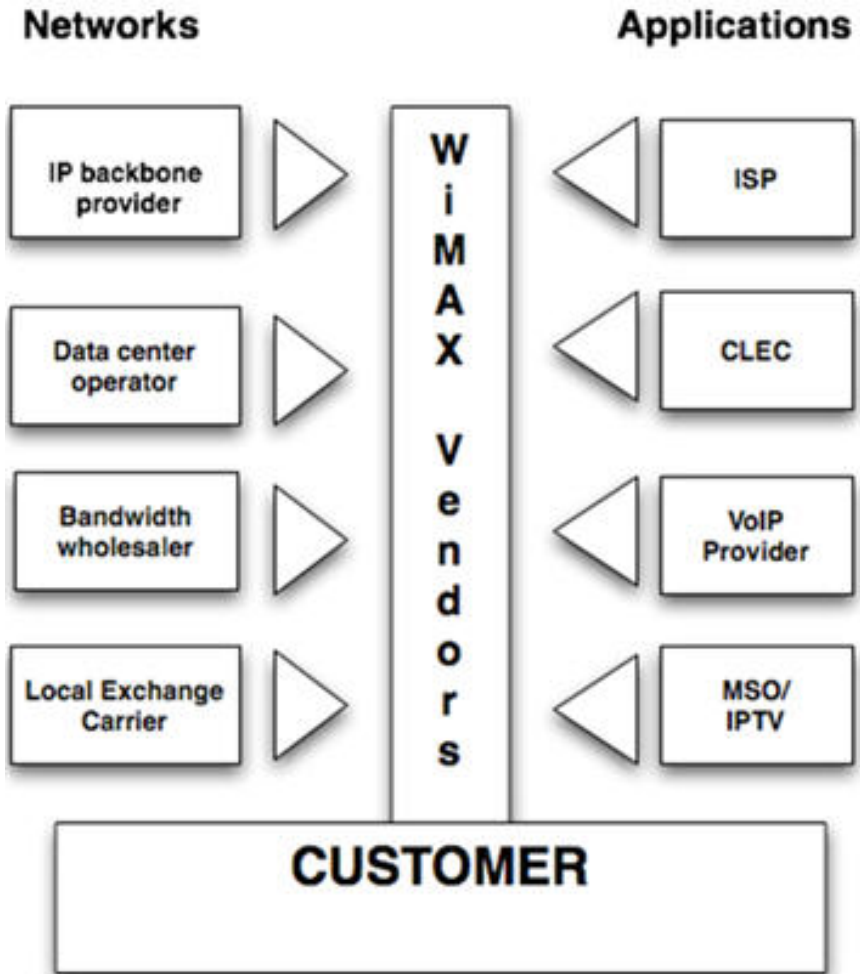o Communications medium for 4G services.

The Wimax Network

Point-to-Point and Multipoint deployment of service

o Diagram illustrates example of Private WAN.

o Connectivity is made through high capacity wireless links.

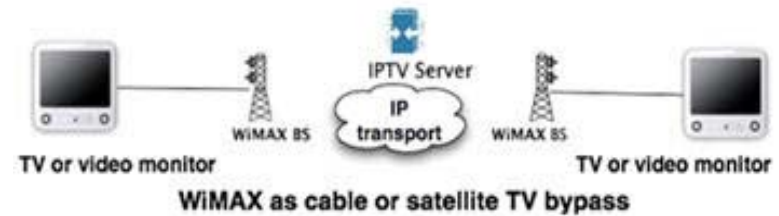o Establishes IP connectivity throughout the network structure.

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Network Provision

Wimax 802.16e Usage

o Internet access at any location.
- o fixed or mobile.

o Intra-network Telephony.
- o e.g. free calls between subscribers.

o Video transmission.
- o live video transmission for TV channels + e-learning/conference.

o Mobile data and Telephone.
- o keeping in contact with the network while on the move.

laptop — WiMAX BS — IP transport — WiMAX BS — desk top PC
WiMAX as broadband internet access

WiMAX phone — WiMAX BS — Softswitch / IP transport — WiMAX BS
WiMAX as landline telephone bypass

TV or video monitor — WiMAX BS — IPTV Server / IP transport — WiMAX BS — TV or video monitor
WiMAX as cable or satellite TV bypass

laptop — WiMAX BS — IP transport — WiMAX BS — WiMAX phone
WiMAX as mobile data and cell phone bypass

Some (future) 802.16e Equipment

More and more Wimax ready equipment expected in 2009 as 802.16e chipsets gets out on the market.

Summary

o A single communication platform for all 'IP-enabled' services.

o The Wimax offer will enable private IP connectivity for corporates.

o   Easy accessibility/sharing of data throughout the network.

o   Max. of 50 Mbps bandwidth available for data, telephony, Surveillance, video, and better overall management.

o   Allows new business avenues to include new applications and services (e.g. s*aas*).

o   Enhance productivity & business processes.

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Thank you.

Next to come…

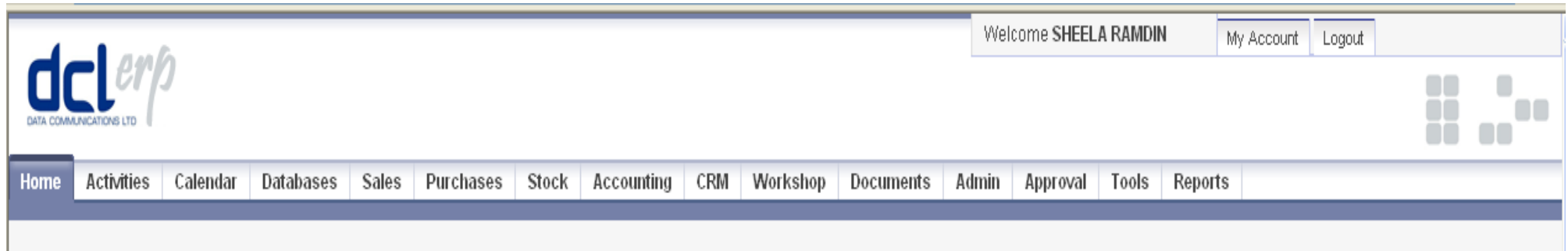## DCL's ERP project

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Evolution of DCL ERP

o 2004 : Development in-house of a CRM for DCL leading to CRM final version 3 in 2006.

o 2007 : Enhancement of the CRM into ERP.

    o Integration of modules into the ERP such as Sales, Purchases, Stock, Inventory, Tender Management...

    o Integration of Project Management (on test).

o 2008: Integration of Financial Accounting e.g. General Ledger, Account Receivable and Account Payable...

o 2009: Integration of the other modules, such as HR Management and Manufacturing...
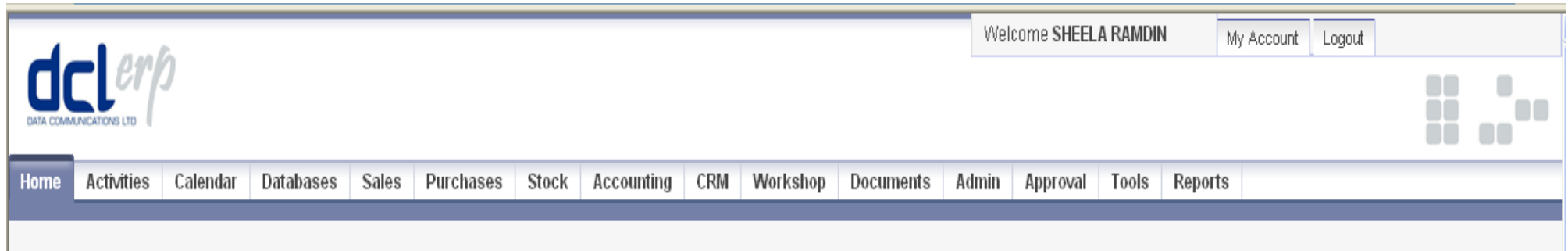
Main areas of DCL ERP

- Account Management
- Supplier Management
- Sales Management
- Document Management
- Customer Service Management
- Reports
- Stock Management and Inventory
- Account Receivable
- General Ledger
- Account Payable

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Structure

o Web-based architecture.

o Browser Independent.

o Database Independent.

o Business Process Driven.

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Benefits

o User Friendly.

o Increase organisational efficiency.

o Better visibility in the process.

o Save operational cost.

o Save time.

Aim

To make an ERP accessible to any business size including SOHO and SME.

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Thank you.

For more information,
contact us on:
info@dclweb.org
or visit our website:
www.dcl.mu

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