BreezeMAX® Extreme 5000

Product Presentation

December 2009
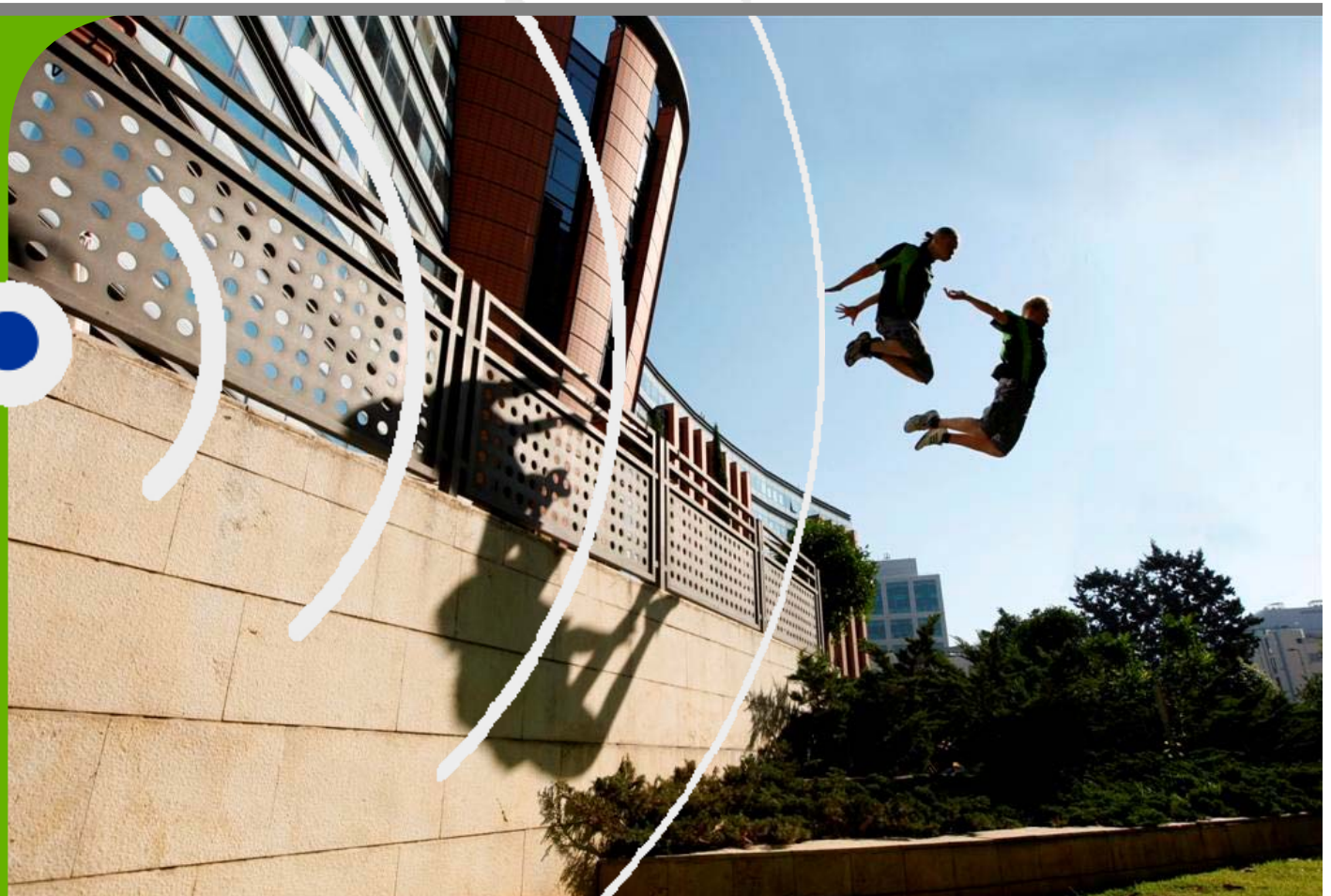
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Scope

- **The Challenge**
- **The Solution**
- **Market and Deployment Scenarios**
- **The Power of Enhanced Radio Systems**
- **Leverage WiMAX 16e QoS**
- **Network Management System**
- **BreezeMAX Extreme Roadmap**
- **Summary**

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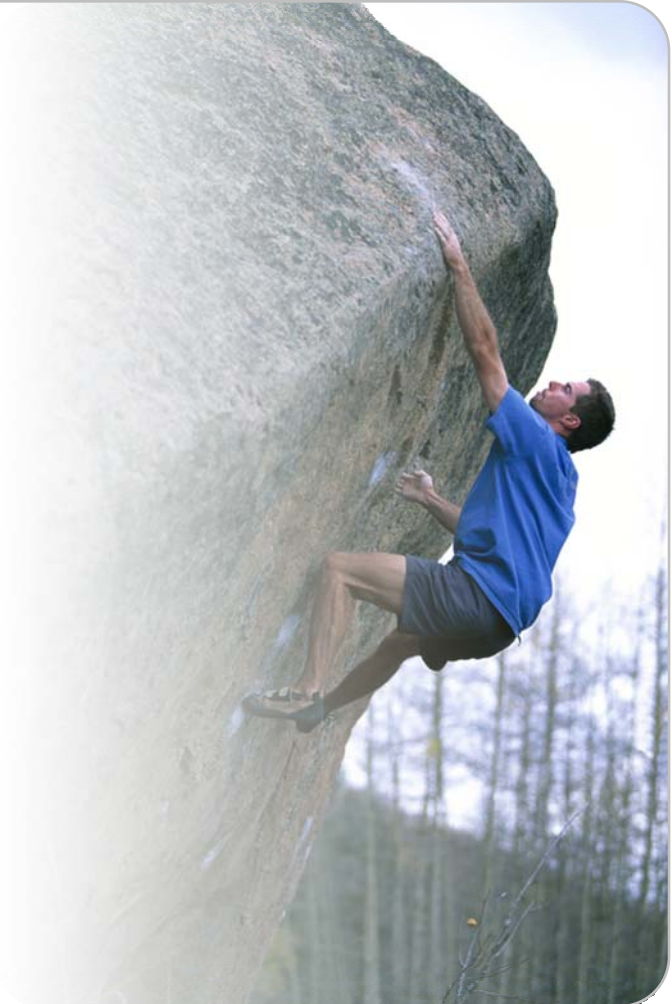Your Open WiMAX Choice

The Challenge

The Challenge

To provide cost-effective data, voice and video connectivity in urban and rural areas

While:

- **Minimizing CAPEX and OPEX**

- **Easily and quickly overcoming geographical deployment challenges**

- **Providing ubiquitous service**

- **Sustaining a manageable high end service**

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Wired Solution Challenges

- **Availability of wires in desired location**

- **New wire rollout ➔ high deployment costs (CAPEX)**

- **Leased line ➔ high operation costs (OPEX)**

- **Limited flexibility for changes and expansion**

- **Limited scalability**

- **No ad hoc capability**

The Need for Wireless

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Wireless Solution Benefits

- **Cost-effective**

- **Flexible and scalable**

- **High-capacity**

- **Robust**

- **Mobile**

- **Ad hoc capabilities**

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The Wireless License-exempt Solution

Advantages

- **Reduced OPEX**
- **Enables avoiding expensive and long term frequency auction**

Challenges

- **Frequency is shared by independent users**
- **Requires advanced interference mitigation techniques**

The Need for an Extreme Solution

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The Solution

First WiMAX 16e in 5 GHz

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BreezeMAX Extreme

First WiMAX™ 16e solution for 5 GHz market

BreezeMAX Extreme is designed to complement existing 5 GHz product offering

Complementary Solution: BreezeMAX Wi²

Wi²

BreezeACCESS® VL

AU-BST

AU-SA

SU-3 / SU-6 / SU-54 / SU-V

SU-3L / SU-6L / SU-12L

BreezeACCESS EZ

EZ-AU

EZ-SU

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BreezeMAX Extreme 5000 Meets the Challenge

Carrier-class
WiMAX 16e is now a reality for 5 GHz license-exempt market

All Outdoor
All-in-one, all outdoor solution for profitable up & go services

WiMAX 16e Quality-of-Service
For enhanced and swift delivery of triple-play services

Interference Resistant
Powerful interference mitigation techniques overcoming obstacles

Broadband Anywhere
Efficient delivery of broadband applications to any environment

Carrier Class | **All Outdoor** | **WiMAX QoS** | **Interference Resistant** | **Broadband Anywhere**

Carrier-Class
WiMAX 16e is now a reality for 5 GHz license-exempt market

All Outdoor
All-in-one, all outdoor solution for profitable up & go services

WiMAX 16e Quality-of-Service
For enhanced and swift delivery of triple-play services

Interference Resistant
Powerful interference mitigation techniques overcoming obstacles

Broadband Anywhere
Efficient delivery of broadband applications to any environment

BreezeMAX Extreme Meets the Challenge: Carrier-class

Carrier Class | All Outdoor | WiMAX QoS | Interference Resistant | Broadband Anywhere

Carrier-class WiMAX 16e is now a reality for 5 GHz license-exempt market

- Bringing state-of-the-art standardized technology to license-exempt markets

- Supporting interoperability and certification and complying with WiMAX Forum® guidelines

- Enabling ecosystems to benefit from WiMAX 16e economy-of-scale

- Offering environment friendly products

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BreezeMAX Extreme Meets the Challenge:
All Outdoor

Carrier Class	**All Outdoor**	WiMAX QoS	Interference Resistant	Broadband Anywhere

All-in-one, all outdoor solution for profitable up & go services

- **Enabling reduced CAPEX and OPEX for low cost of ownership and fast ROI**

- **Offering an all-in-one solution by integrating base station, antenna, ASN-GW and GPS receiver**

- **Supporting a fully outdoor and easy to deploy solution**

- **Enabling flexible installations on communication towers, rooftops and street light poles with diverse power feeding as well as backhaul and antenna options**

- **Providing a range of models to meet various deployment needs: single sector or dual sector for maximized capacity or coverage**

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Carrier Class	All Outdoor	WiMAX QoS	Interference Resistant	Broadband Anywhere

Leverage WiMAX 16e QoS for enhanced and swift delivery of triple play services

- Benefit from inherent WiMAX QoS to simultaneously support multiple applications using service differentiation

- Support real time triple-play (voice, video) and non real-time applications simultaneously

- Extend your application offering to businesses, residential access and carrier of carriers over same radio access network

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BreezeMAX Extreme Meets the Challenge: Interference Resistant

Carrier Class	All Outdoor	WiMAX QoS	**Interference Resistant**	Broadband Anywhere

Powerful interference mitigation techniques for overcoming obstacles

- **Intensifying Mobile WiMAX 16e to better-fit license-exempt deployments**

- **MIMO A/B*, STC and MRC advanced antenna techniques in both base station and CPE**

- **HARQ: state-of-the-art error correction coding techniques**

- **Best non-line-of-sight with SOFDMA and up to 1024 FFT size**

- **Support for Dynamic Frequency Selection (DFS) and Dynamic Channel Selection* (DCS)**

* In future release

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BreezeMAX Extreme Meets the Challenge: Broadband Anywhere

| Carrier Class | All Outdoor | WiMAX QoS | Interference Resistant | Broadband Anywhere |

Designed to fit: efficient delivery of broadband applications to any environment

- **Superior sector capacity and coverage for best implementation of fixed, nomadic and mobile applications in rural and urban deployments**

- **Supporting multiple applications such as voice, Internet access, video surveillance, data access, public safety and enterprises**

- **Providing optional single or dual* sector support to maximize on capacity or coverage**

- **Offering flexibility: start with what you need and grow-as-you-go**

- **Maintaining low entry price options**

- **Featuring a small footprint**

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BreezeMAX Extreme 5000 Specification Highlights

	Base Station	CPE
Standard	WiMAX 802.16e Wave 2 compliant	
Model	Single or dual* sector	Outdoor, MIMO
Channel Bandwidth	5, 10, 20 (2x10)* MHz	5,10 MHz
Max Tx Power	21dBm	20dBm
Power Consumption	Up to 57W	Up to 16.5W
Diversity	2x2, MIMO A/B*, MRC	2 Rx, 1 Tx
Bands	4.9 - 5.35 GHz, 5.47 - 5.95 GHz	4.9 - 5.95 GHz
Dimensions	51 x 28 x 15 cm, 11 kg (mounting: + 5 kg)	23 x 23 x 6.3 cm, 2 kg
Installer Aid	Advanced Spectrum Analyzer and DCS (Dynamic Channel Selection)*	Freq. Scan, Best AU, Preferred AU, SAU
DFS	EN 301 893 v1.5.1, FCC	
ASN-GW	Integrated or external	
Networking	IPCS, ETHCS	
Security	AES WiMAX 16e	
Authentication	AAA centralized over RADIUS Local provisioning (SU MAC-based, fixed network)	

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Market and Deployment Scenarios

Market Needs

WISPs

- **Provide premium broadband access and voice services**
- **Extend telecommunications and broadband services to smaller satellite townships and residents**
- **Quickly satisfy demand for high capacity**

Enterprises

- **Build self-owned Intranet infrastructure across buildings and towns**
- **Replace E1/T1 links cost-effectively**
- **Back-up communications for faster disaster recovery**

Municipalities

- **Connect public safety and community buildings with access and voice services for better inter-agency collaboration**
- **Increase public safety with remote video surveillance monitoring**
- **Connect schools and universities**

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Wide Range of Applications

Access

Public Safety

Business Applications

Remote Office

Utilities

Mining

Fleet Management

Meter Reading

Emergency Services

Municipality Applications

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CURRENT APPLICATIONS

Access

- Quality of Service enabling additional services
- Capacity: designed for high occupancy
  - Scheduled, multiple access protocol
- Ease-of-use: centralized provisioning and management

Business

- Diverse services and deployment scenarios:
  - Combined Eth.CS and IP.CS services
  - QoS with diverse classifiers
- Security: AES encryption, keys generated per session by AAA
- Enhanced ROI: carrier of carrier

Remote Office

- Centralized provisioning: nomadicity
- Access anywhere (potential ROI - roaming)
- Improved efficiency, reach, and service

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BreezeMAX Extreme 5000:
A Network That Works for You (2)

PLANNED APPLICATIONS

Video / Public Safety

- **Leveraging 16e QoS for video reliability**
- **Enhanced performance**
  - Video centric service profile
  - Optimized video delivery
- **Multicast, broadcast and unicast**

Municipality **Fleet Mgmt.**

- **16e separates between access and service**
  - Ability to lease part of access network to local vendors
- **QoS for diverse municipality services**
  - Inter-building connectivity, remote office, video surveillance, first responders, fleet management

Mobility

- **True vehicular mobility powered by 16e**
- **5 GHz suits vehicular mobility**
  - First responders, trains, buses, watercraft
- **Special subscriber under development**

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Adam Internet, Australia

Customer Type	**Internet Service Provider**
Country / Region	**Australia**
URL	**http://www.adam.com.au**
Application	**Broadband services for residential and business customers**

The Result

- ☐ **Rated within top-ten ISPs in Australia, serving over 80,000 DSL subscribers**

- ☐ **Deploying WiMAX 16e in 5 GHz spectrum**

- ☐ **Part of the Australian Government's Broadband Guarantee Program (BGP)**

- ☐ **Targeting 55,000 underserved customers metropolitan Adelaide (across 5000 square km)**
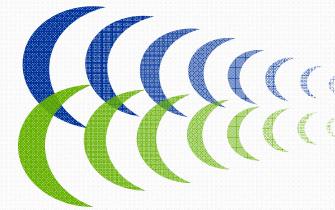
Greg Hick's, Chairman of Adam Internet

"…WiMAX offers a high-capacity network that is quick to deploy and very economical to operate. The excellent performance results of BreezeMAX Extreme 5000 coupled with its compact flexible outdoor design configuration enables us to significantly reduce our upfront network investment and accelerate our return on investment.."

MIMO Single Sector Model

MIMO Single Sector 2x2

BreezeMAX Extreme 5000

- **Superior performance utilizing 2nd order diversity**
- **Maximal sector capacity (MIMO B)***
- **Maximal sector coverage (MIMO A)**
- **Supports 5, 10, 20**(10+10)* **MHz per sector**
- **Max UDP Capacity:**
  - **MIMO A: 27 Mbps (10 MHz), 54 Mbps (20 MHz)**
  - **MIMO B: 32 Mbps (10 MHz), 65 Mbps (20 MHz)**
- **Integrated or external antenna**

Urban

Best Fit for

- **High-capacity driven deployments**
  - **Urban**
  - **Video**
- **NLOS conditions**

* In future release

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SISO Single Sector Model

SISO Single Sector 1x1

- **Single sector**

- **Supports 5, 10, 20(10+10)* MHz per sector**

- **Integrated or external antenna**

- **Max UDP sector capacity**
  - **5 MHz: 13 Mbps**
  - **10 MHz: 27 Mbps**
  - **20 MHz: 54 Mbps**

Suburban/Rural

BreezeMAX Extreme 5000
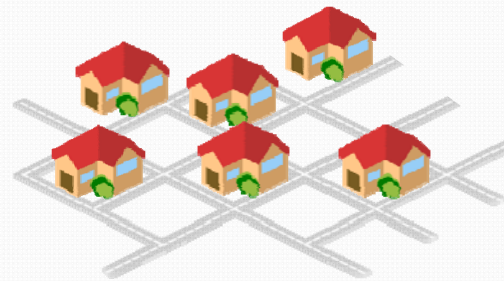
Best Fit for

- **Capacity-driven deployments**
  - **Suburban**
  - **Rural**

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SISO Dual Sector Model*

SISO Dual Sector 1x1*

- **Dual sector served by a single unit**
  - Full functional sectors, enabling reduced CAPEX and OPEX
- **Up to 10 MHz per sector**
- **Max UDP sector capacity**
  - 5 MHz: 13 Mbps
  - 10 MHz: 27 Mbps
- **External antenna only**

BreezeMAX Extreme 5000
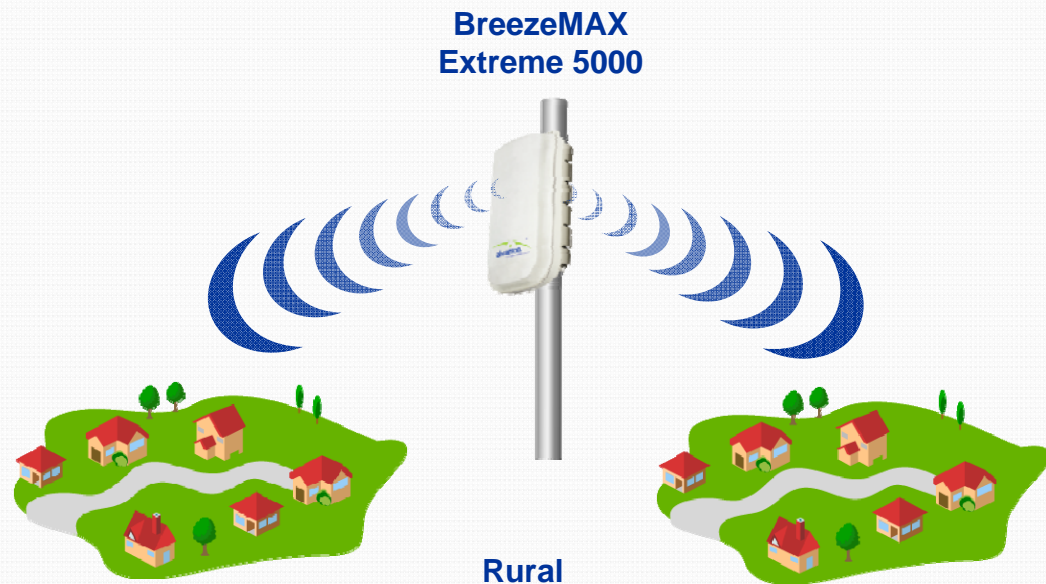
Rural

Best Fit for

- **Coverage-driven deployments with lower capacity requirements**
  - **Rural**

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Best Fit for Deployment Needs

- **Wide range of models**
- **Multiple models can coexist in a single deployment**
- **Maximized deployment efficiency**

Swift ROI
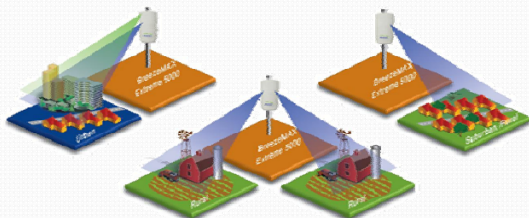
![alvarion — Your Open WiMAX Choice]

BreezeMAX Extreme 5000
The Power of Enhanced Radio System

Extreme Radio System

Built for best fit and ease-of-use

Above standard capabilities

WiMAX 16e

Advanced radio technology

Fact	Benefit
WAN Protocol	**WAN (Wide Area Network) protocol** Designed for large scale, broadband outdoor delivery
FFT size of 2048 / 1024 / 512	**Improves interference mitigation and better overcomes multipath, rich sub-channelization capabilities**
ACM	**Adaptive code and modulation maximize bandwidth utilization per SNR** ● Modulations QPSK, QAM16, QAM64 ● Forward Error Correction based on Convolutional-Turbo-Code: 1/2, 2/3, 3/4, 5/6
OFDMA	**Multiple access OFDM for better resource allocation and sector performance** Intensifying scheduling with two dimension (time and frequency)
SOFDMA	**Scalable OFDMA** Using sub-channel structures that scale with bandwidth, providing enhanced protection against multipath and Doppler shift
Enhanced sub-channelization	**Supporting several permutation schemes** (Adjacent sub carrier, distributed sub carrier) optimizing performance under various scenarios
HARQ	**Hybrid Automatic Repeat Request** Reliable data transmission at the PHY level combined with Forward Error Correction significantly improves each burst detection probability

Powerful Interference Mitigation Techniques

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WiMAX 802.16e Facts and Benefits

Fact	Benefit
MAPs repetition	**Enhance interference mitigation** For scheduled protocol in noisy environments
Advanced antenna techniques	**MRRC, STC, MIMO A and MIMO B;** Increases data throughput and link range without additional bandwidth or transmit power
Open standardized protocol	Clear reference points and interfaces enabling interoperability
Mobility	Inherently supports mobile applications using same infrastructure
Standard management scheme	TR-69 based CPE management scheme

Powerful Interference Mitigation Techniques

MIMO A

MIMO A (Diversity)

- **Base station transmits same data over two transmission paths**
- **Transmissions are coded in time and space**
- **2nd order diversity is featured in downlink**

MIMO Matrix A
Space Time Block Coding (STBC)

Tx (a)	Sym0	-Sym1*

Data Stream A

Data Stream A

Tx (b)	Sym1	Sym0*
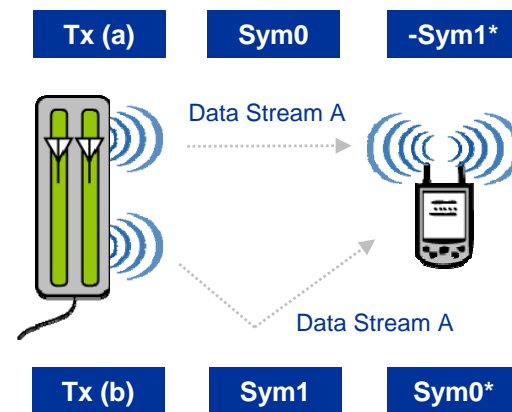
Benefits:

- **Increased coverage due to redundant and parallel paths**
- **Less re-transmission on cell edge with multiple path**

MIMO B*

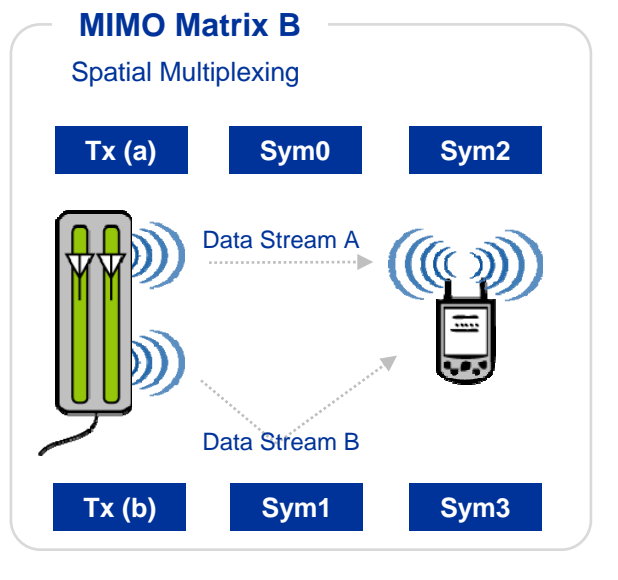## MIMO B (Capacity)

- **Base station transmits two different data streams over same channel**

- **Same number of sub-carriers, twice as many QAM symbols to MAP interleaving**

MIMO Matrix B

Spatial Multiplexing

| Tx (a) | Sym0 | Sym2 |

Data Stream A

Data Stream B

| Tx (b) | Sym1 | Sym3 |

Benefits:

- **Increased capacity due to reuse of bandwidth channel**

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Capacity

MIMO Matrix B 2x2
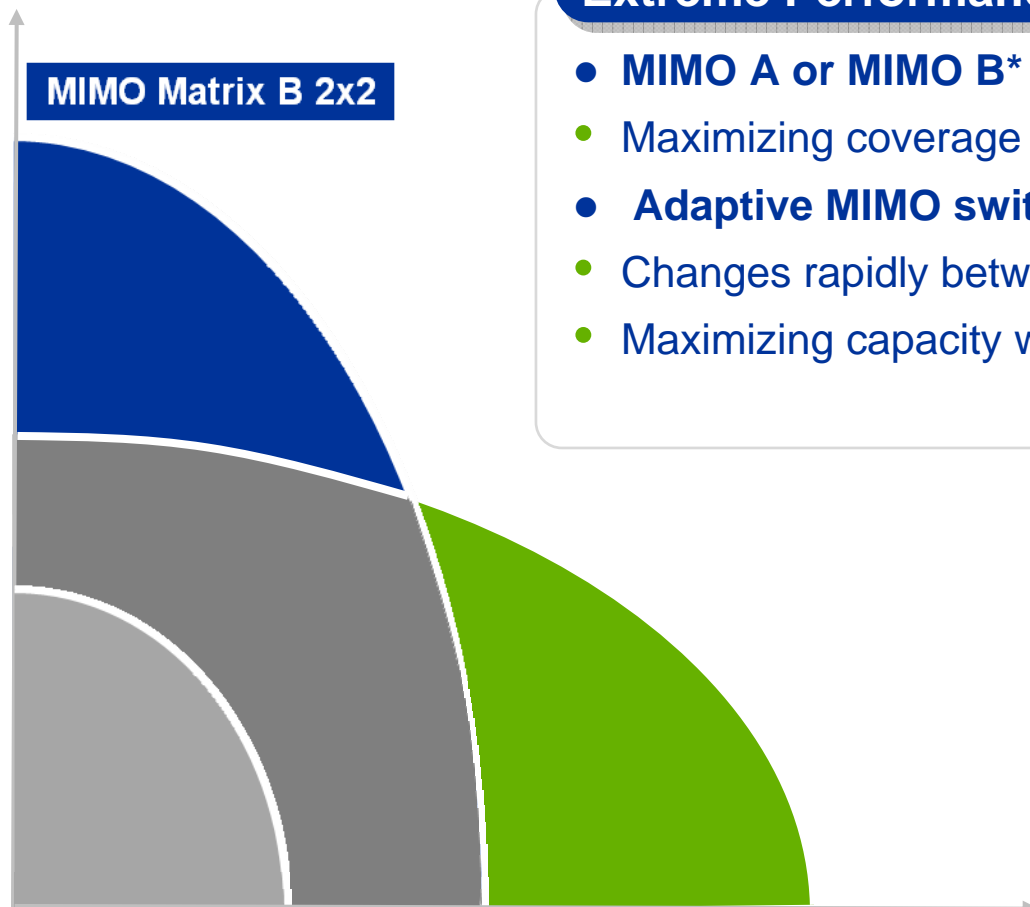
Ref: SISO 1x1

MIMO Matrix A 2x2 (Rx Diversity)

Coverage

Extreme Performance with MIMO A/B Switching

- **MIMO A or MIMO B* utilization**
- Maximizing coverage or capacity per deployment type
- **Adaptive MIMO switching**
- Changes rapidly between Matrix B and Matrix A
- Maximizing capacity while maintaining connection

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- **Reliable data transmission at PHY level combined with forward error correction**

- **Significantly improves each burst detection probability**

- **Like ARQ, reduces error rate by retransmitting error bursts**

- **<u>Unlike ARQ:</u> stores and combines error bursts rather than discarding them**

Adaptive MIMO Switching, Matrix A (STC) Probability

- No HARQ
- HARQ with 1 retransmission

Probability of using Matrix A (STC)

User percentile from weak to strong
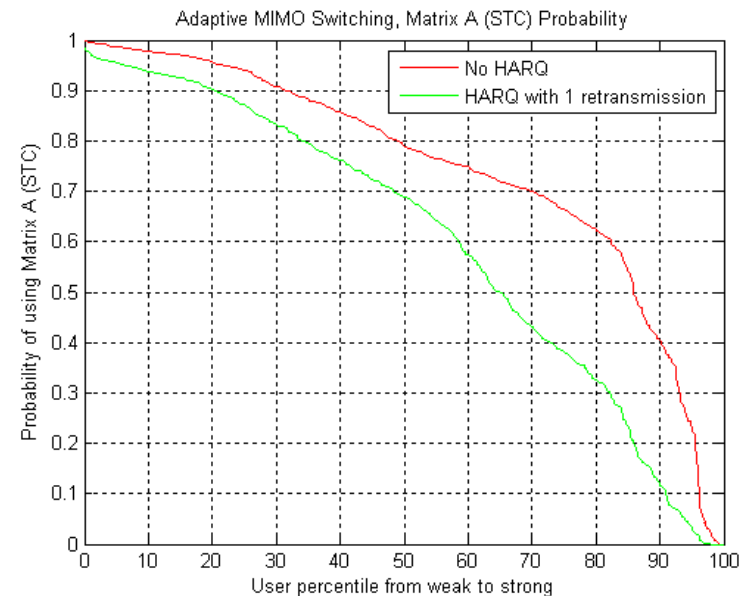
Benefits:

- **Allows an extensive use of matrix B to maximize capacity**

- **Improves performance under interference / fading changes**

Maximum Receive Ratio Combining (MRRC)

- **Combining signals from antennas at each frequency**
- **Improve overall gain, especially in multipath environments**
- **Increase uplink gain**
- **Reduce imbalance between uplink and downlink power budgets**

SNR vs. OFDM Frequency Bin
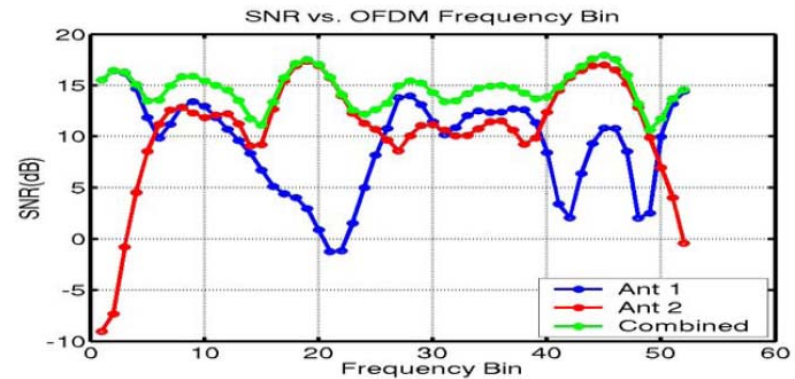
Benefits:

- **Enhanced system gain**
- **increased sector coverage and capacity**
- **Improved business case**

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- **Two dimensional (time and frequency) based scheduling**
- **Dynamic allocation of sub-channels to best fit link budget and capacity demand**
- **Increase SNR and improved modulation rate**
- **Increased flexibility for enhanced throughput and robustness**
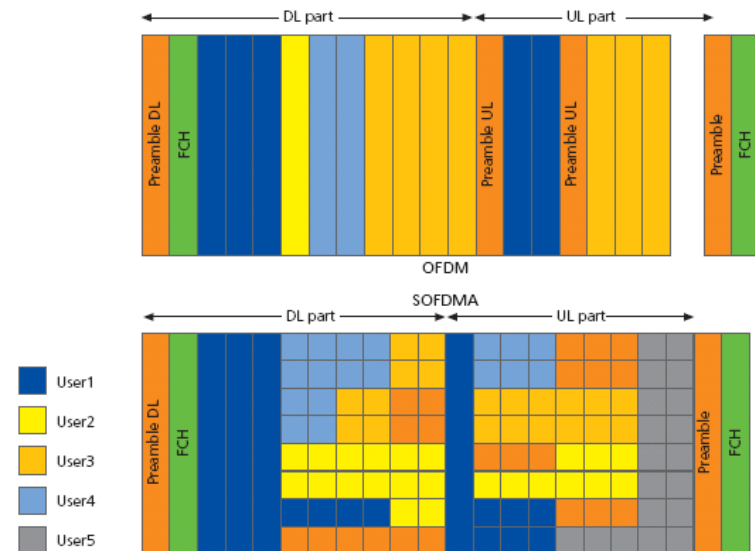
Benefits:

Connect subscriber units (SUs) with relatively poor link conditions

- Increase maximum transmit power of SU by 3, 6, 9 or 12 dBm
- Better bandwidth utilization enabling several SUs to simultaneously share bandwidth
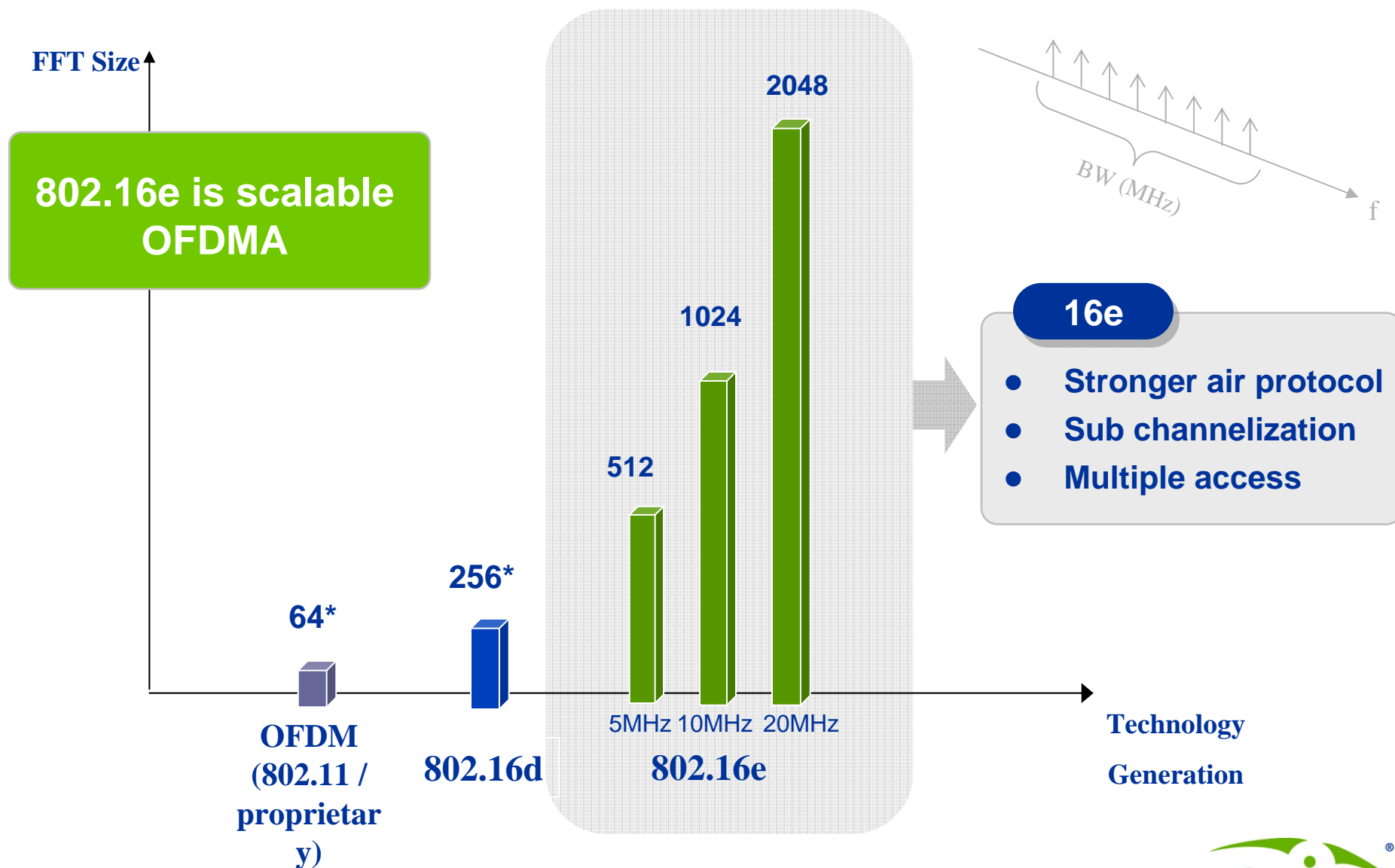
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Scheduled OFDM vs. OFDMA

Frame

Downlink | Uplink

OFDM | BW (Frequency) | MAP

OFDMA | BW (Frequency) | MAP

Time

- **Multiple access**
- **Better uplink SNR ⇨ rate**
- **Better ability to meet demand**
- **Better utilization of the air**
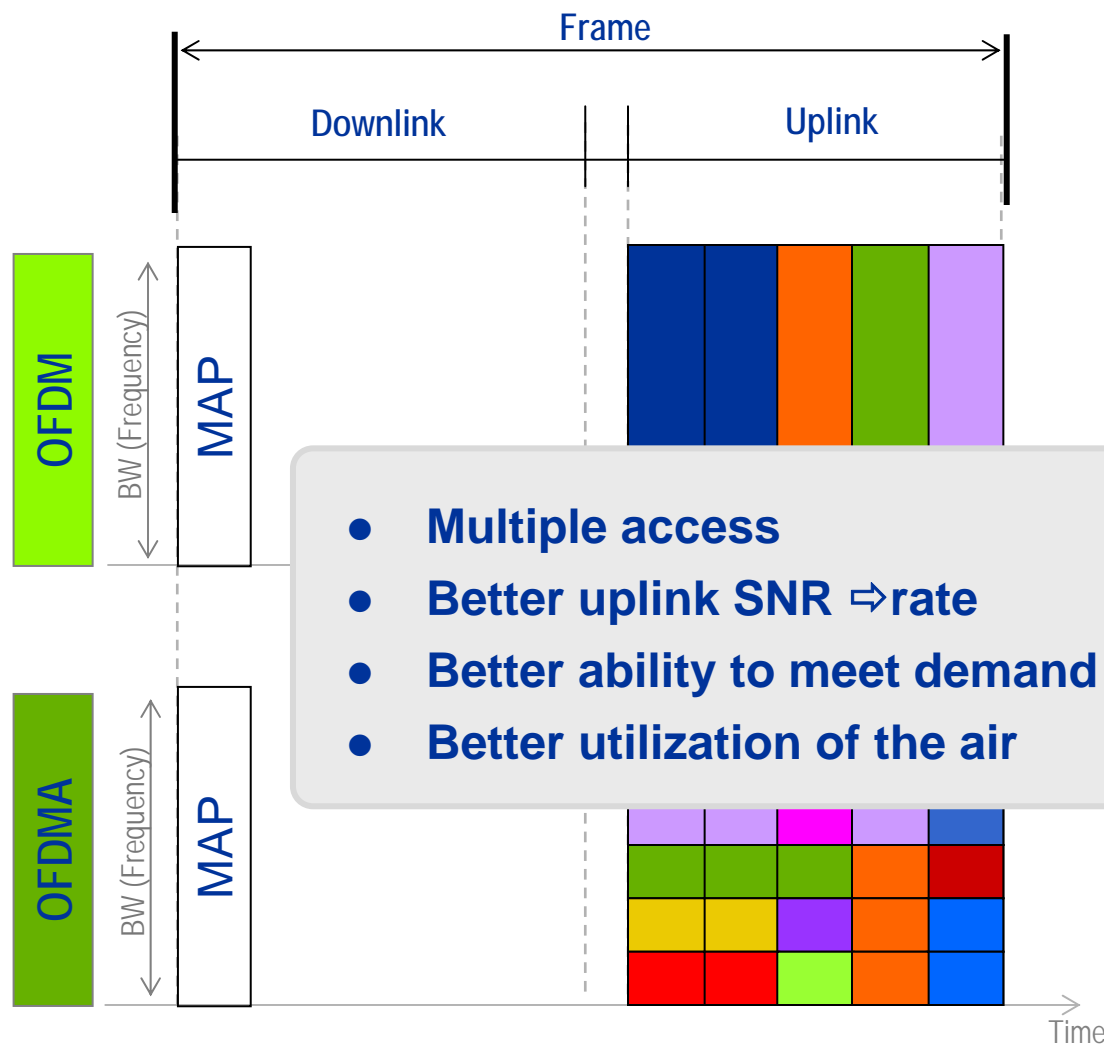
Advanced Spectrum Awareness

DFS

Compliant with

- **ETSI 5.4 GHz: EN 301 893 v1.5.1**
- **FCC****
- **ETSI EN 302 502 v1.2.1***

DCS*

Advanced Spectrum Analyzer and Dynamic Channel Selection

- **Integral spectrum analyzer with the unit**
- **Supports channel selection based on best performance**

* In future release
** Upon FCC grant availability

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QoS

Classification Rules

- **Packets received by base station or CPE are sorted**
- **Cross classification of application to QoS service flow**
- **Classification performed according to fields in packet header:**
  - **IP-CS: e.g. DSCP**
  - **Eth-CS: DSCP, PPPoE (EtherType), VLAN ID (.1q), VLAN Priority (.1p), Any**

QoS

Application Types

Voice

Video

Internet

Gaming
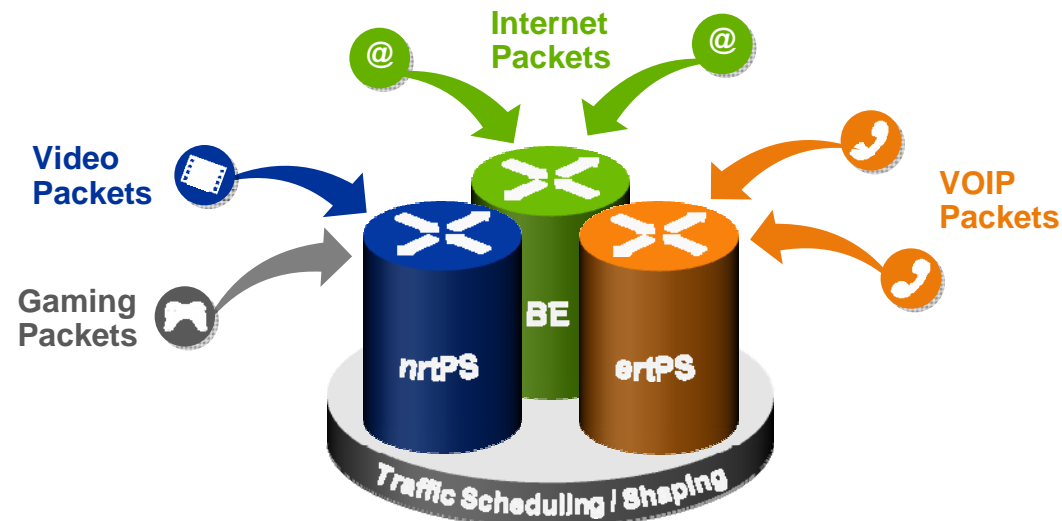
Better bandwidth utilization for an improved business case
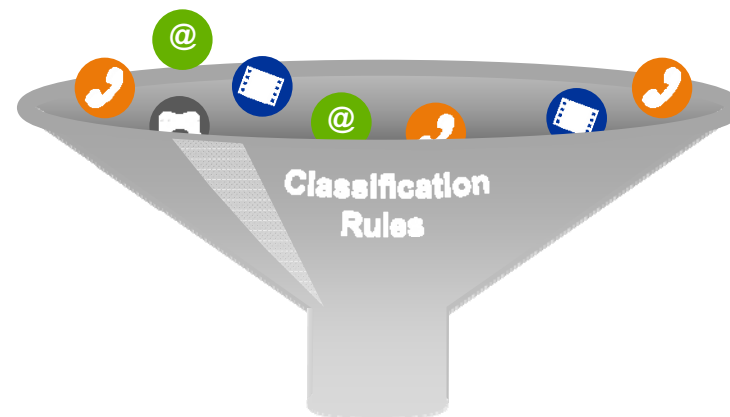
802.x Broadband Wireless Technologies Positioning

802.16 Wide Area Network

WiMAX 802.16d	WiMAX 802.16e
Fixed licensed technology	**MIMO fixed, nomadic and mobile technologies**

- Designed for outdoor high-capacity wireless broadband
- Designed for QoS IP services
- Designed for fast-fading (mobile) conditions

Suitable for license-exempt markets

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BreezeMAX Extreme 5000
Solution Building Blocks

Complete 16e dual-SOC base station

16e ASN Gateway

Local Provisioning Capability

AAA

GPS receiver

Integrated dual-slant antenna

Mounting, tilt accessory included

Connectors Kit
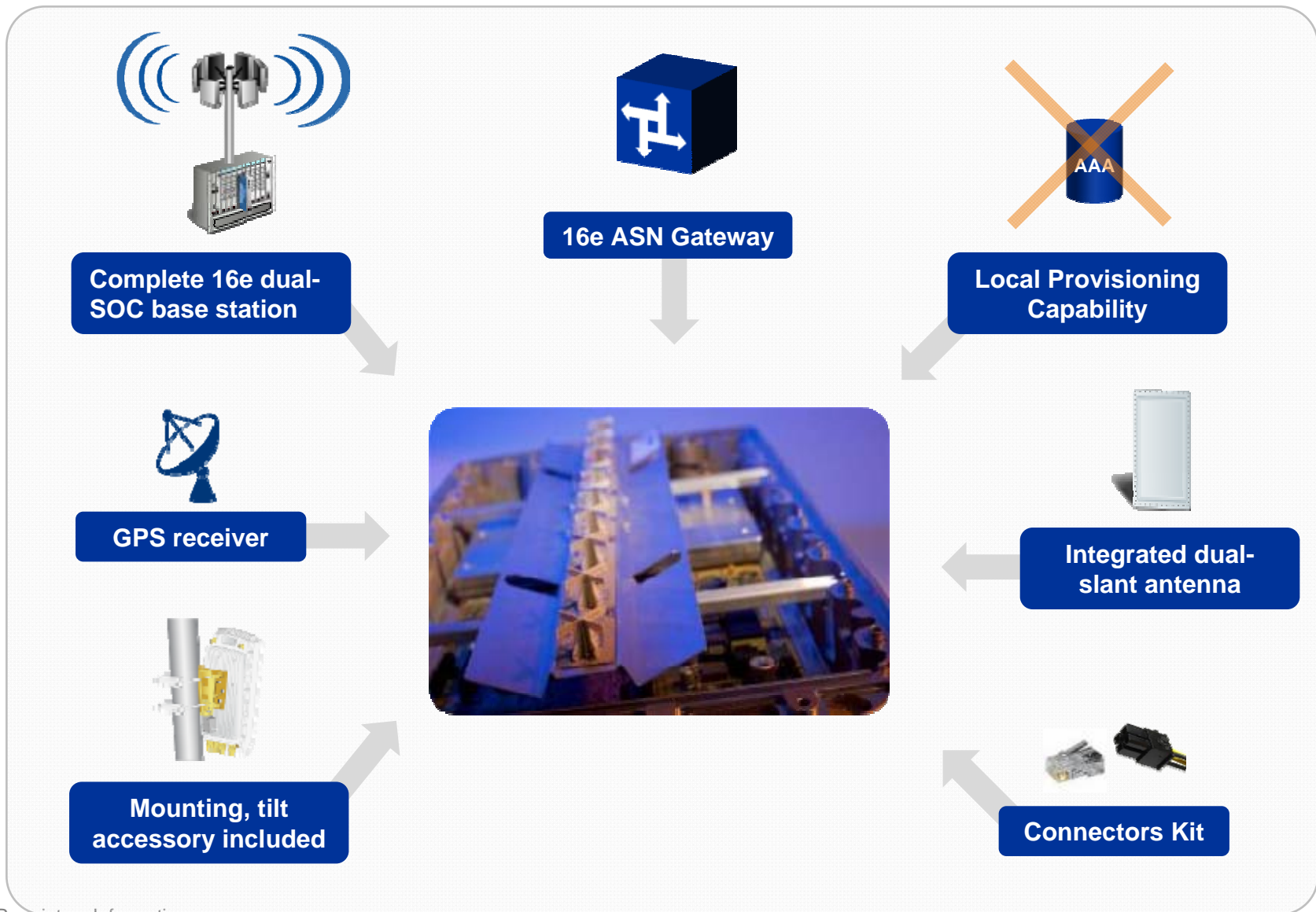
BreezeMAX Extreme 5000 Building Blocks
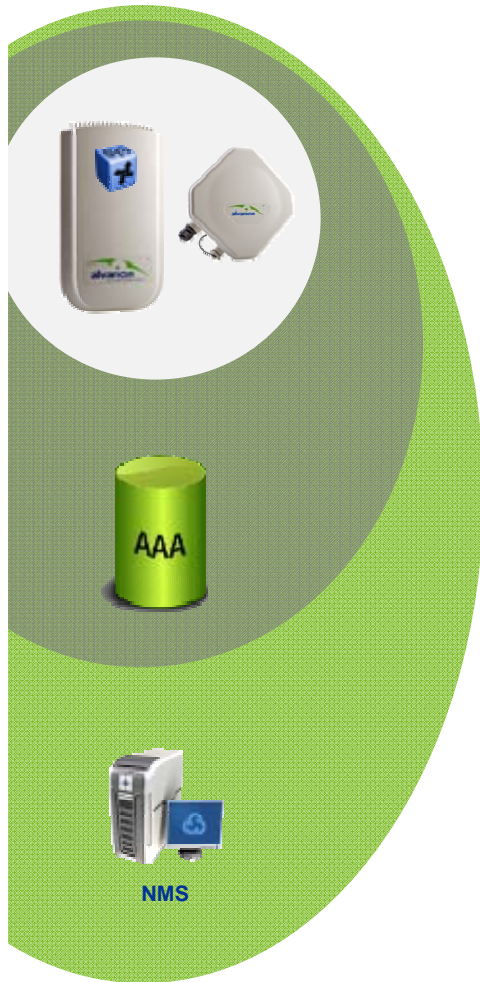
Base Station and CPE

- Integrated ASN-GW, GPS receiver and antenna on BTS
- Local provisioning (with no AAA)
- Local management (base station: Telnet, CPE: Web)
- Licensed features available for base station and CPE

Optional AAA Server

- Authentication, Accounting, Authorization
- Centralized provisioning
- Encryption

IOT in progress for Radiator and Alepo

Optional NMS

- AlvariStar: base station management
- StarACS: TR069 based for CPE management
- AlvariCRAFT: installation assistance tool

NMS

Network Management System

WiMAX Management System

Star Management Suite

Star Suite

AlvariStar

StarACS

StarQuality

StarReport

Alvarion Star management suite ensures successful deployment of WiMAX broadband services

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OSS

OSS / NMS

3rd Party CRM
3rd Party Billing
3rd Party Prov.

APIs for:
Service Provisioning & Accounting

Web Services XML/SOAP
SNMP
XML/SOAP
SNMP
XML/SOAP
XML/SOAP

EMS

StarACS CPE Manager

AlvaristarNMS

ASN-GW & CSN Manager

StarQuality

StarReport

NE

BTS & ASN-GW

R3

HA

AAA

R1

R6

ASN-GW

BreezeMAX PRO-5

BreezeMAX Si

SentieM

CPE

ASN

CSN

BreezeMAX Extreme 5000 Roadmap
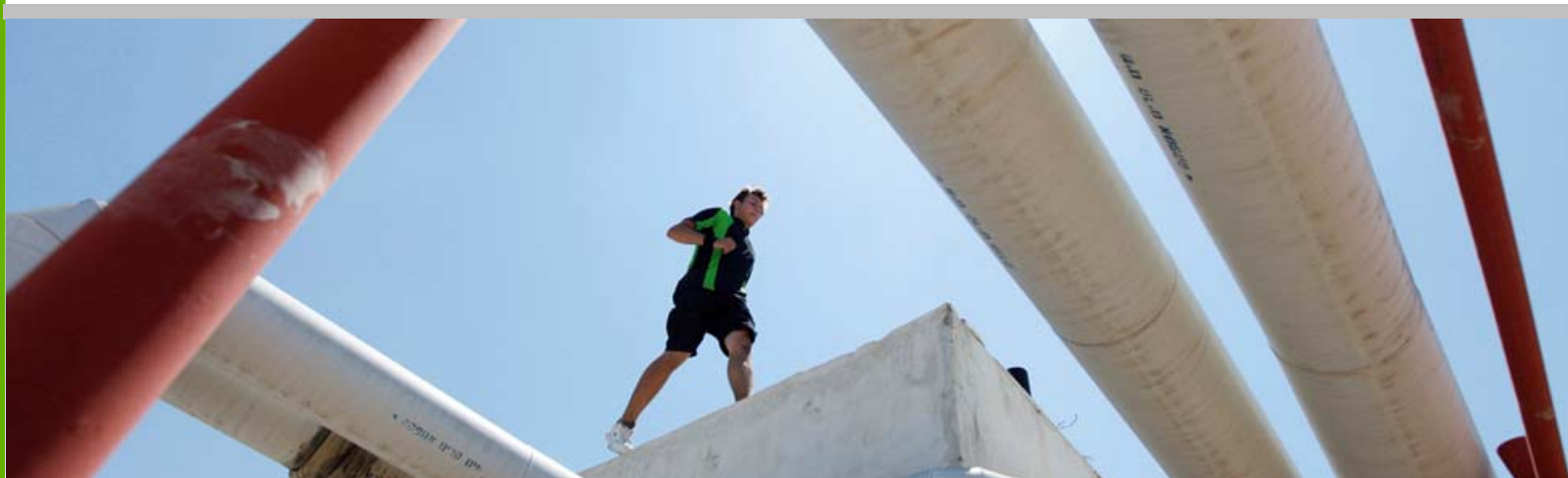
BreezeMAX Extreme 5000: High Level Roadmap

Q3/09	Q4/09	H1/10	H2/10
Release 1.0	Release 1.2	Release 1.5	Release 2.0

Application

Access	Access Business	Video p.1 Voice	Video p.2 Mobility

Platform

SISO (Int/Ext Ant) MIMO (Int/Ext Ant)		2 SISO (Ext Ant)	

Radio

MIMO A, 5-10 MHz, IP.CS, BE, nRT	Eth.CS	MIMO B, 20 MHz, DL/UL, eRT, GPS chaining	Mobility, Enh. RRM, RT, optimized video

CPE

MIMO, outdoor (Int Ant.)		MIMO, outdoor (Ext. Ant.) ETSI 5.8 Video-PoE	SU-M

Subject to the presentation disclaimer

BreezeMAX Extreme 5000 Roadmap (1)

	2009 - 10		
	H2/09		H1/10
Schedule	Release 1.0 GA: Q3 2009	Release 1.2 GA: Q4 2009	Release 1.5 Beta: Q1 2010 GA: H1 2010
Release	Product introduction	Eth CS Enabling	Feature enhancements
Frequency	5470 – 5950 MHz (5.4GHz, 5.8 GHz – without ETSI) 4900-5350 MHz 3650 – 3700 (3.65 GHz) Channel BW: 5 MHz, 10 MHz		Channel BW: 2*10 MHz ETSI certification in 5.8 GHz
Configuration	Single sector SISO (A/E) Single sector MIMO (A)		Dual sector SISO Single sector MIMO (E)

(A/E) – Attached/External Antenna

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BreezeMAX Extreme 5000 Roadmap (2)

	2009 - 10		
	H2/09		**H1/10**
Schedule	Release 1.0 GA: Q3 2009	Release 1.2 GA: Q4 2009	Release 1.5 Beta: Q1 2010 GA: H1 2010

End-to-End	• CPE: Outdoor – 4.9-5.9 GHz
	• ASN-GW: internal
	• AAA:
	   • Radiator, Alepo,
	   • Local configuration (non secured)
	• Management: AlvariStar, StarACS
			• ASN-GW: Alvarion 4Motion® standalone
			• CPE ETSI 5.8
			• GPS Chaining
			• AAA: FreeRadius

Features	• MIMO A • IPCS • QoS: BE, nRT • DHCP transparent • DFS support (5.4 GHz)	• Eth-CS	• MIMO B • QoS: eRT (mainly for voice) • Configurable DL/UL ratio • Video surveillance reliable mode • Inference mitigation (spec. analyzer and DCS) • Mobility phase I: Fast Network Entry

(A/E) – Attached/External Antenna

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BreezeMAX Extreme 5000 Roadmap (3)

2010	
	H2/10
Schedule	**Release 2.0** **GA: H2 2010**
Release	**Feature enhancements**
Frequency	**4.4 - 4.9 GHz**
Features	● **Mobility phase II** ● **Advanced interference mitigation techniques** ● **Advanced RRM** ● **Video surveillance enhancements**

Subject to the presentation disclaimer

Proprietary and Confidential

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Regulation / Certification Map

Low Band (4.9-5.3 GHz)

- **Universal (4.9)**
- **4.9 FCC**
- **5.1 FAA (no certification profile)**
- **5.2-5.3 ETSI**

High Band (5.4-5.9 GHz)

- **Universal (5.4, 5.9)**
- **5.4 ETSI**
- **5.4, 5.8 Australia**
- **5.8 FCC**

Plans

- **5.4 FCC (DFS): pending FCC (not before Q1 2010)**
- **5.3 FCC (DFS): pending FCC (not before Q1 2010)**
- **5.8 ETSI (DFS, CPE): release 1.5 (H1/10)**
- **4.9 Japan: finalizing certification plan (during Q1/10)**

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Alvarion and BreezeMAX Advantages

Alvarion Advantage

Largest number of WiMAX deployments
- 250+ commercial networks
- 10k+ sectors, 100k+ CPEs
- 100+ countries

Strong network of partners to fulfill customer requirements for solution almost anywhere

Largest WiMAX pure-player committed to customer long term success

Leader of innovation in broadband wireless IP technologies

Financial strength and stability

Over 7 years of WiMAX experience Over 15 years of broadband wireless IP experience

Cutting-edge Technology	=	**Future**	=	**Superior Performance**
Mainstream Standard	=	**Ecosystem, IOT Economy-of-Scale**	=	**Future Proof, Business Case**
All-in-One All Outdoor	=	**Easy, Compact Deployment**	=	**Potentially Reduced CAPEX and OPEX**
Enhanced 16e QoS	=	**More Services Higher Quality**	=	**Fast ROI**
Channel Friendly	=	**Easy to Order**	= **Flexible Configuration** =	**Inventory Mgmt, Rapid Deployment**
Interference Mitigation	=	**Perform Instead of Stall**	=	**Better QoS and User Experience**
WiMAX 16e Strength	=	**Do More with Less**	=	**More CPEs/Sector More Services/Sector More Capacity and Range**

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Thank You