

Company Background

»» Corporate

- »» Originally started as Broadstorm in 2000
- »» Re-launched as Adaptix in 2004
- »» Over 100 employees today
- »» Offices in Dallas, Seattle, and Shanghai

»» Technology

- »» Pioneer and leader in OFDMA technology
- »» Complete end-to-end systems expertise
- »» Advanced R&D – SDR, Smart Antenna systems

»» Products

- »» Base Station and CPE product lines based on OFDMA
- »» Two generations of product deployed on 4 continents
- »» Mobile carriers, telcos, municipalities

Management Team

- »» Michael Pisterzi – President & CEO
 - »» Transat, Photuris, AFC/AccessLAN, Alcatel/DSC
- »» Tim Montgomery – CFO
 - »» Photuris, AFC/AccessLAN, Sterling, Alcatel/DSC
- »» Byron Young – VP Marketing & Product Management
 - »» Transat, AFC/AccessLAN, Cabletron, NET
- »» Nick Thomas – VP Global Sales & Service
 - »» ADVA, Transat, NET, Raze, Alcatel/DSC
- »» Heng Pan - VP Engineering
 - »» Alcatel/DSC
- »» Richard Xu – VP Operations
 - »» UT Starcom
- »» Hui Liu – Founder, Chief Technology Advisor
 - »» University of WA, Broadstorm, Cwill

Company Mission

- »» Enable Wireline and Wireless Operators to offer high performance & cost-efficient next generation wireless access services
 - »» Key Differentiators
 - »» Highest efficiency for costly spectrum (Standards +)
 - »» More users & more bandwidth
 - »» Mobile and Fixed applications over same infrastructure
 - »» Unified network for consumer and business class services
 - »» Adaptix IPR
 - »» Target Services
 - »» Full motion streaming IPTV and VoD with superior QoS
 - »» Native IP transport of VoIP for low cost mobile voice service
 - »» Rapid music and video downloads on demand
 - »» Multimedia conferencing and web casts

Field Expertise in OFDMA



Tokyo, Japan



Manitoba, Canada

- »» Pre-WiMAX OFDMA systems in deployment since 2001
- »» Two generations deployed in the field
- »» Mobile operators, telcos, and municipalities



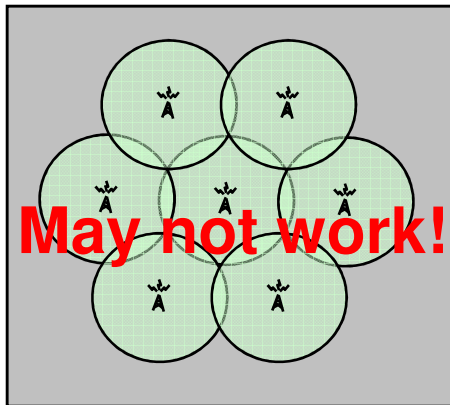
Seattle, USA

BX-3000 Mobile Base Station

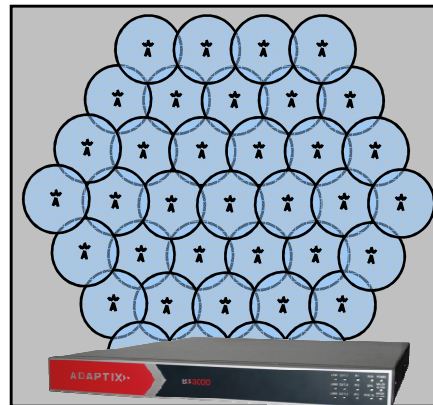
- »» Newest Family of OFDMA mobile base stations
 - »» 3rd generation Adaptix Mobile OFDMA engine
 - »» Compatible with IEEE 802.16e-2005 from the start
 - »» Advanced Software Defined Radio Platform
 - »» IP centric networking with Layer 3 support
 - »» Profile B implementation initially
 - »» Profile C integration with R4/R6 interface
- »» Architected for Micro/Pico cell applications
 - »» Designed for low cost of entry of new services
 - »» Modular design for application flexibility
 - »» Ease of use and installation for minimal OPEX
- »» High performance hardware & software
 - »» Maximum Performance Platform
 - »» SISO up to 19 Mbps/sector
 - »» 2x2 MIMO up to 38 Mbps/sector
 - »» Up to 3 full sectors per base station – over 100 Mbps/cell
 - »» Up to 1000 registered users/sector
 - »» Wire-speed networking up to Dual 10/100 Ethernet
 - »» Support for MIMO & Adaptive Antenna Arrays



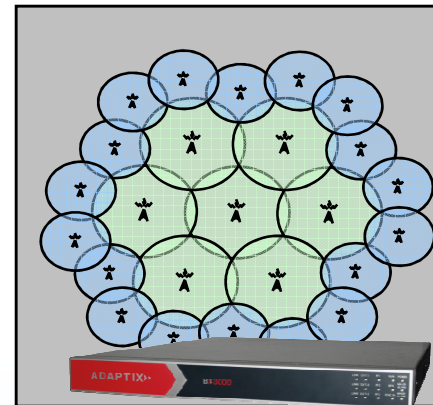
BX-3000 Micro/Pico Cell Deployments



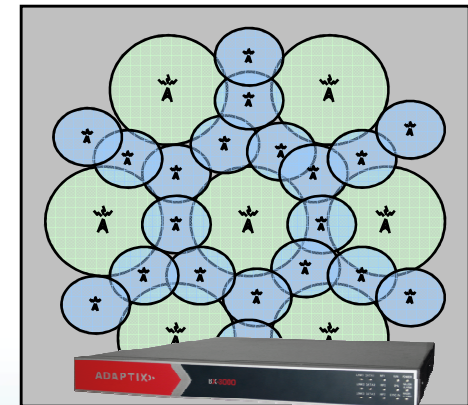
**Traditional Cellular
Macro Cell Network**



**Urban Micro/Pico
Cell Network**



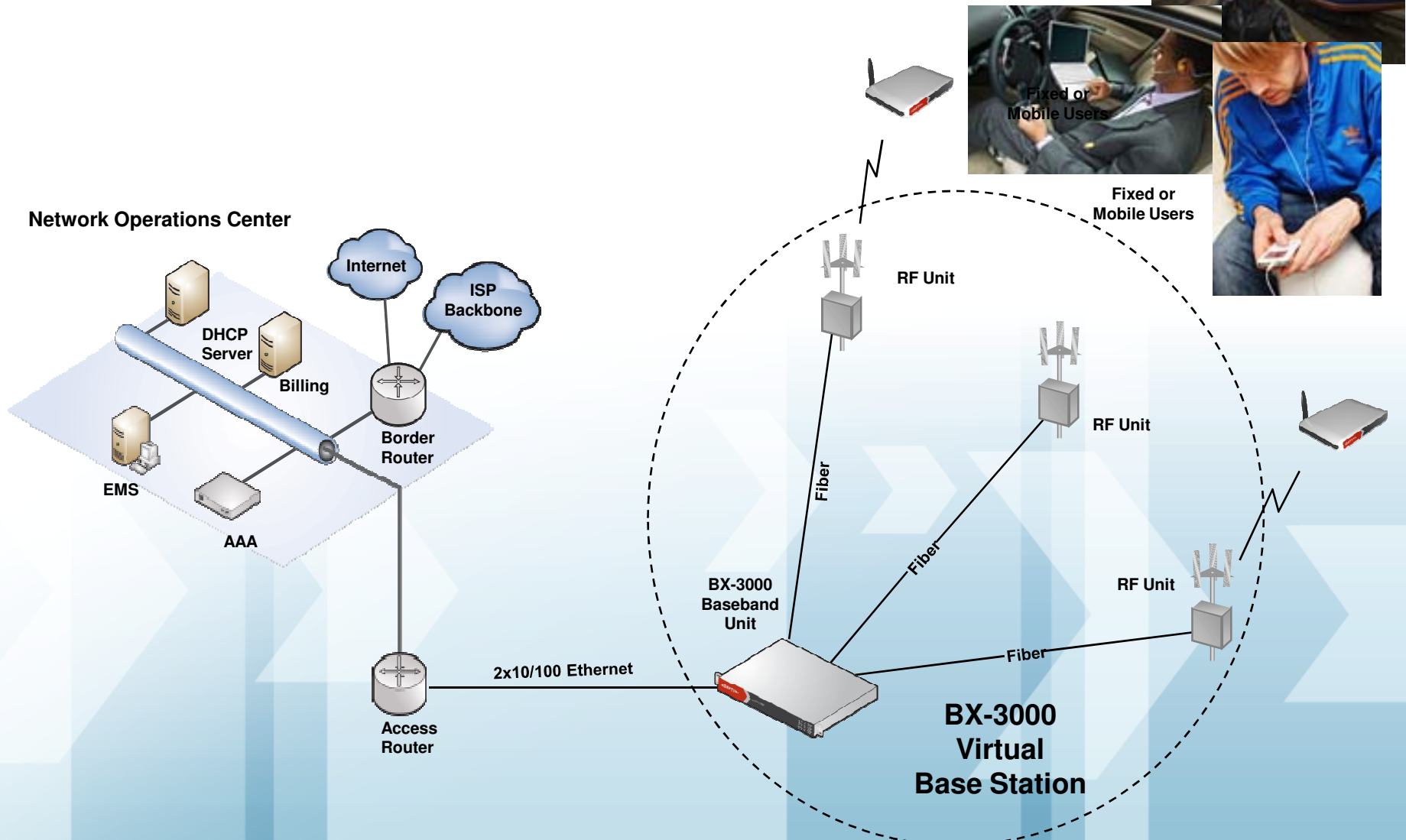
**Hybrid
Next Tier Build-out**



**Hybrid
Coverage Fill**



BX-3000 Picocell Architecture



Adaptix Product Portfolio

»» BX Series Base Stations

»» BX-3000 (v1) Mobile Base Station

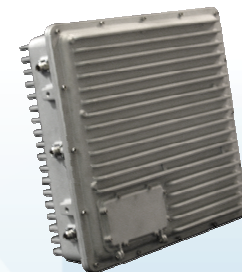
»» BX-4000 (v2) Mobile Base Station



»» SX Series Mobile Terminals

»» SX-300 SISO mobile terminal

»» SX-500 MIMO mobile terminal

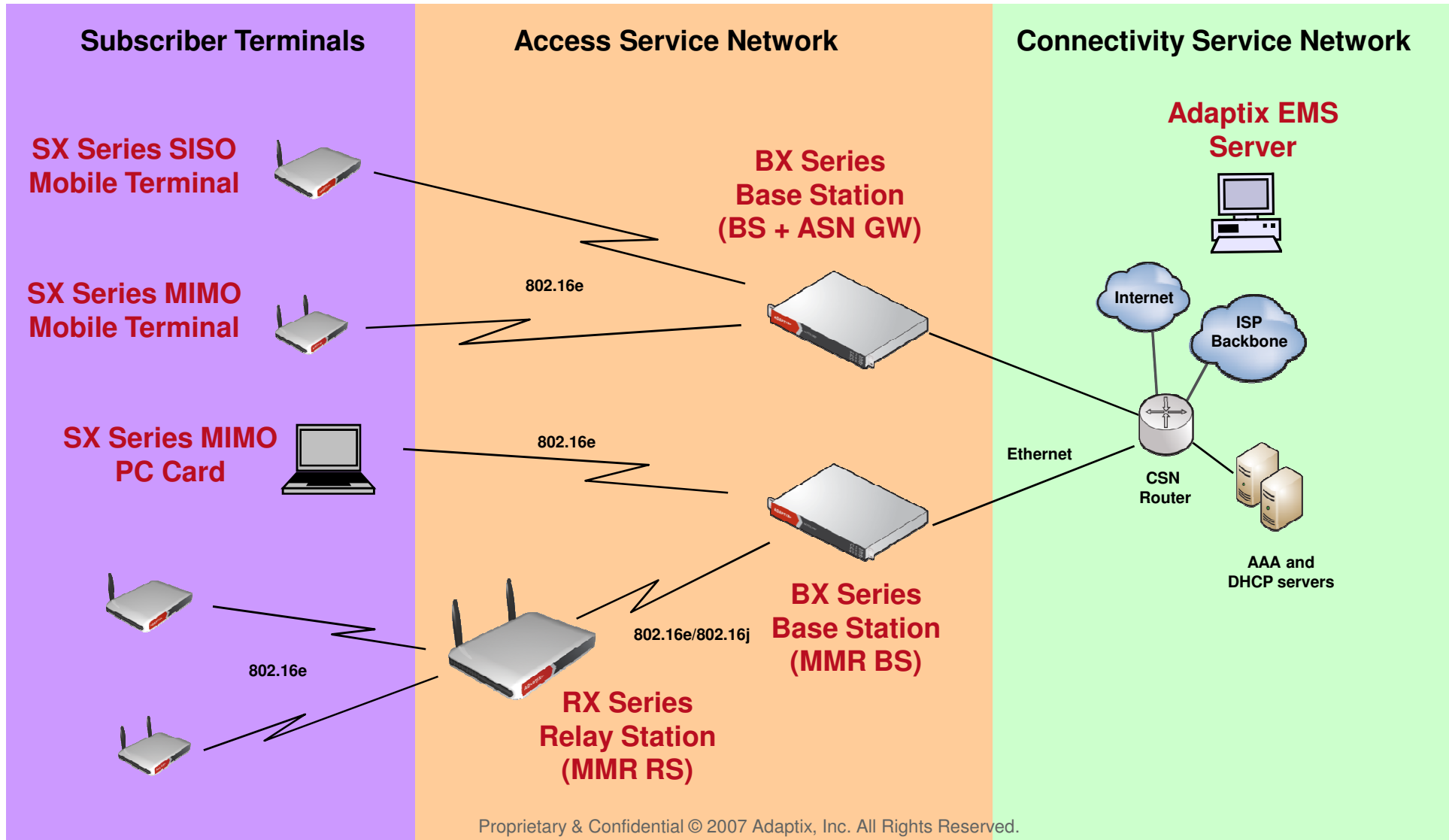


»» RX Series Relay Stations

»» Future RX-1000 Mobile Relay Station



Adaptix Product Portfolio



BX-3000 Mobile WiMAX Base Station

- »» Currently in major carrier field trials
- »» Baseband Unit (BBU)
 - »» Integrated Layer 2 + 3 for base station + ASN Gateway + routing functionality
 - »» Self contained 1U, 20" deep; indoor unit
 - »» 1 - 3 sector configurations
 - »» SFP for fiber connections to up to 3 RFUs
 - »» Optional fixed redundant power supplies
 - »» Dual 10/100 Ethernet uplinks
- »» RF Unit (RFU)
 - »» Outdoor unit – hardened and waterproof
 - »» Flexible mounting options
 - »» 2.3 or 2.5 Ghz (5/10 Mhz)
 - »» Up to 3 channels @ 2W each per RFU
 - »» Support for SISO as well as MRC, STBC, and MIMO advanced antenna operational modes



BX-4000 Mobile WiMAX Base Station

»»» Currently in development, available Q4-07

»»» BBUv2

»»» 2U height, 10.5" depth; hardened unit

»»» Hotswap dual power supplies

»»» 3+ sectors

»»» Modular common and sector sections

»»» Dual 10/100/1000 Gigabit Ethernet uplinks (SFP)

»»» Backward compatible with v1 RFU

»»» v2 ODU RFU

»»» 2.3, 2.5 Ghz (5/10 Mhz) + 3.5 Ghz ODUs

»»» Feedback loop for SDMA

»»» Antenna/Power options

»»» Backward compatible with BX-3000 BBU

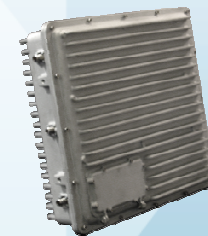
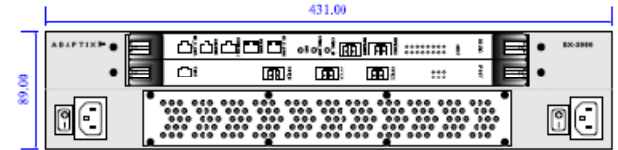
»»» Release 2.0 software release

»»» Wave 2 compliant base station

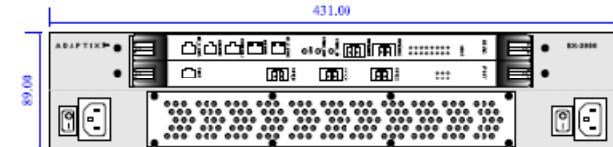
»»» 2x2 MIMO

»»» AAS – STBC

»»» Release 2.2 adds integrated SDMA/beamforming+MIMO



BX-3000 and BX-4000 BBU Highlights



BX-3000 BBU

Form Factor	1U, 20" deep
Mounting	Indoor, deep rack
Airflow	Front to rear
Temp. Range	0 - +40C
Modularity	Fixed
Backhaul ports	Dual 10/100
Power Modules	Fixed single/dual
Telco Standards	NEBS-1
Cable Mgmt	Rear access

BX-4000 BBU

Form Factor	2U, 10.5" deep
Mounting	Indoor/Outdoor, 12" deep
Airflow	Crossflow
Temp. Range	-40 - +85C
Modularity	Network and baseband logic
Backhaul ports	Dual 10/100 or GbE
Power Modules	Hotswap single/dual
Telco Standards	NEBS-3
Cable Mgmt	Angled conns, cable loom

SX Series Mobile Terminals

»» SX-300 Compact Mobile Terminal

- »» Mobile, portable, or fixed usage
- »» 3 Mbps DL/1 Mbps PHY data rate
- »» Single antenna, 200 mW RF XMT power
- »» SISO only operation
- »» 2.3 Ghz and 2.5 Ghz (5/10 Mhz)



»» SX-500 MIMO Mobile Terminal

- »» Vehicular or fixed usage
- »» Ideal for business wireless broadband
- »» 10 Mbps DL/2 Mbps PHY data rate
- »» Dual antenna, 200 mW RF XMT power
- »» 2x2 MIMO and SISO operation
- »» 2.3 Ghz and 2.5 Ghz (5/10 Mhz)



Adaptix Software Defined Radio Advantages

- »» Adaptix WiMAX SDR is based on high performance field programmable devices vs. third party chipsets
- »» Allows Adaptix to quickly implement new standards and features with software-only upgrades
- »» Enables Adaptix to implement customer-specific features for carrier service differentiation
- »» Provides fastest time to deployment for bug fixes and new feature enhancements without 3rd party delays
- »» Eliminates additional component costs and royalties due to 3rd party development overhead
- »» Ideal implementation for early deployment of new standards, while providing path to cost reduction using future ASICs