







Mentum's Investors					
	ACE Drivete Equity is appreciational in particular investments with 61.2 billion under				
AGF Private Equity	management and one of the most active French investors in European venture capital. In this respect, AGF Private Equity invested in more than 50 high-tech companies since 1999 in the fields of telecommunications, semiconductors, software and biotechnology.				
Jint Uters build companies	Since its foundation in 1980, GIMV has grown into Belgium's most important venture capital provider and company builder. GIMV invests in information and communication technology, life sciences, as well as in growth financing and management buy-outs (MBOs). With its own portfolio and third party fund activitie together GIMV today manages more than €1.4 billion.				
COLINNOVA	Founded in Paris in 1972, Sofinnova Partners is one of Europe's leading venture capital firms. With €900 million under management, Sofinnova Partners invests in start-ups and early-stage companies in information technology and life sciences. Its investment strategy consists of investing early in teams and projects with high potential, most often acting as lead or co-lead investor				







Mentum's Services

- Technical support
 - Problem troubleshooting & resolution
 - Case management & escalation
 - Software patch delivery
 - Defects & enhancement requests tracking
- Implementation
 - Product installation (client & server)
 - · New version migration
 - Migration from competitive products
 - Product integration
- Training
 - On-Site and Scheduled Training
 - Certification Program
 - Mentoring



mentum





	Fixed WiMAX	Mobile WiMAX
Standard	802.16-2004 802.16-2004 (802.16d) Base plus Corrigendum	802.16-2005, Mainly the extension from 802.166
PHY	256 FFT OFDM	512 and 1024 FFT SOFDMA
Channel Sizes	3.5 MHz, 7 MHz and 10 MHz	5 , 7 and 10 MHz
Duplex Method	TDD & FDD	TDD only (today)
Convergence Layer	Ethernet (Layer 2)	IP (Layer 3) Ethernet is optional
Application Scenarios	Fixed and Nomadic - Maybe Portable	Portable and Mobile
Client Form-Factor	Outdoor CPEs Indoor Desktop Modems	Laptop Card, USB Devices, Min PCI (for Laptops), PDAs, Hands
Modulations	64 QAM on Uplink and Downlink	64 QAM on downlink, 16 QAM uplink
System Features	Transparent Bridging, Nomadic Roaming, Self-Install	Handover Support, Paging, Sle Mode
CPE to Support these RF Techniques	Tx and Rx Diversity (optional) Uplink Sub-channelisation (optional) AAS (optional)	AAS (mandatory) MIMO (mandatory)







WiMAX adaptive modulation and throughput

	Name	Bandwidth (MHz)	Useful Bit Rate (Mbit/s)	Required Eb/No (dB)	Required C/(N+I) (dB)	Target Receive Level (dBm)	Power Reduction (dB)
1	16QAM 1-2	3.50	5.60	14.36	16.40	-79.9	3.00
2	16QAM 3-4	3.50	8.40	14.40	18.20	-77.7	3.00
3	64QAM 1-2	3.50	11.41	17.57	22.70	-73.2	3.00
4	64QAM 3-4	3.50	12.88	18.74	24.40	-71.5	3.00
5	QPSK 1-2	3.50	2.80	10.37	9.40	-87.9	0.00
6	QPSK 3-4	3.50	4.20	10.41	11.20	-85.1	0.00
							Ponti



















































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