

## Mobile experience means success

Service providers aiming to offer Mobile WiMAX will need vendors who fully understand mobility and the demands that mobile access makes on WiMAX networks.

These vendors should be able to offer end-to-end expertise, everything from user devices, business consulting and infrastructure, right through to turn-key deployment and even managing the service on their behalf.

Nokia is just such a vendor. Nokia's unbeatable and industry leading technology are a combination that helps service providers build Mobile WiMAX networks that are destined for success.

Nokia provides end-to-end support for a service provider's Mobile WiMAX ambitions

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## Mobile broadband with WiMAX

Your quick guide

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## WiMAX means business

Users are increasingly demanding broadband access while on the move. WiMAX is an essential building block in meeting this need. And the success of WiMAX looks assured because of the sheer weight of support that the technology carries, with widespread and active cooperation across industries.

The technology is low cost, easy and fast to deploy, and will connect seamlessly with future core networks based on the IP Multimedia Subsystem. Moreover, successful wide-scale deployment of WiMAX will depend on using licensed spectrum because unlicensed deployments of WiMAX networks will not provide the interference control that service providers need to create a strong business case.

WiMAX shows great potential to be a leading and cost-effective technology for service providers who lack a 3G license or related infrastructure, but who want to offer broadband wireless access. With Mobile WiMAX, service providers can offer wireless broadband access beyond the home and office, making the personal Mobile Internet a reality.

## Licensed spectrum holds the key to successful WiMAX business

## Variety means a wide range of choice

Nearly 400 companies are already lined up to support WiMAX. There will be no shortage of chip, equipment and device vendors ready and able to help service providers make the most of this technology.

Device vendors, infrastructure manufacturers, chipset makers, system integrators, service providers, operators, applications developers and other players are all focused on Mobile WiMAX.

This means that most manufacturers will develop and launch products at about the same time. Service providers will have little need to provide their own solutions because there will be a superb choice of equipment vendors available to them. This should increase the competitiveness of products, roll out should be faster and deployment will be more reliable.

## The communications industry widely supports WiMAX technology



## What are the standards?

There are two IEEE standards behind WiMAX:

- **Fixed WiMAX:** IEEE 802.16-2004 (IEEE 802.16d) brings together the previous IEEE 802.16a standard and its various revisions to provide support for fixed broadband access.
- **Mobile WiMAX:** IEEE 802.16-2005 (IEEE 802.16e) extends the IEEE 802.16-2004 standard to include mobile wireless broadband at walking pace. This standard will also support true mobility.

Service providers can offer both mobile and fixed services by deploying networks based on Mobile WiMAX, whereas Fixed WiMAX does not support mobility.

## Service providers without 3G can offer mobile broadband services with WiMAX