

# WiMAX AND FIXED WIRELESS DEPLOYMENT FACT SHEET



## WiMAX Background

Today, AT&T announced the expansion of limited deployments of WiMAX and other fixed wireless technologies to build on the progress the company has made in four existing limited deployments in Alaska, Georgia, New Jersey and the Netherlands.

The company's existing and upcoming WiMAX and fixed wireless deployments will provide opportunities to evaluate various technology solutions under a number of conditions, using both licensed and unlicensed spectrum, and including both rural and urban settings, and both business and residential customers. AT&T is deploying both WiMAX technology, which uses licensed spectrum, and other, similar fixed wireless technologies that use unlicensed spectrum. Each of these technologies enables wireless broadband connections in a radius of up to five miles surrounding each service tower.

In all cases, the deployments advance AT&T's efforts to deliver broadband to customers not currently reached by AT&T Yahoo! High Speed Internet Access, and will help AT&T to evaluate fixed wireless as a potential solution to help make broadband available to 100 percent of customers in its 13-state traditional residential service territory.

## Existing & Past Deployment Snapshots

Location	Types of Customers	Spectrum Used	Service Speeds	Timeframe	Type of Community
Aniak, Alaska and Northway, Alaska	Consumer and small business	Unlicensed	125kbps and 256kbps	October 2005 – Ongoing as a commercial offer	Rural
Alpharetta and Atlanta, Georgia	Consumer and enterprise business	Licensed	Business – up to 2Mbps Consumer – up to 1Mbps	December 2005 – October 2006	Suburban and Urban
Middletown, NJ	Enterprise business	Licensed	512kbps - 1.2 Mbps	May – December 2005	Suburban
Rotterdam, the Netherlands	Enterprise business	Licensed	Up to 2Mbps	March – April 2006	Urban

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## Focus On: Alaska

Aniak, Alaska, is a village of 500-plus residents about 400 miles west of Anchorage; Northway is a village of 250 residents 500 miles north of Anchorage. Fixed wireless customers in Aniak include small businesses, community centers and residential customers. The Alaska deployments included a total of 215 sites. The Alaska offerings are helping AT&T prove that WiMAX can help businesses and consumers in remote areas to connect to the global economy. For example, students in Aniak are now able to take advanced online university classes without leaving their villages.

## Upcoming Deployment Snapshots:

Location	Targeted # of Customers	Spectrum Used	Initial Service Speeds	Timeframe	Type of Community
Pahrump, Nevada	Approximately 1,300 residential and small business	Licensed	384 kbps- to 1.5 Mbps down/128-384 kbps up	Summer 2006 – Winter 2007	Rural
Red Oak & Midlothian, Texas	Approximately 1,200 residential and small business	Unlicensed	384 kbps- to 1.5 Mbps down/128-384 kbps up	Summer 2006 – Winter 2007	Rural

Customers of the new AT&T fixed wireless deployments will receive the AT&T Yahoo! experience.

## Fixed Wireless Deployment Objectives

- Build experience in overcoming natural and manmade obstacles, as well as harsh weather.
- Determine best practices in deploying fixed wireless antennae, operating with various traffic backhaul arrangements, and delivering service with licensed and unlicensed spectrum.
- Optimize service performance over varying distances from fixed wireless towers.
- Evaluate the performance of various applications, including Internet access, private data network access (e.g., access to a private corporate network) and Voice over IP over fixed wireless connections.