



WIND TALKER
INNOVATIONS

BRINGS YOU



OSMOSIS

BRINGING HIGH-SPEED INTERNET TO UNDERSERVED COMMUNITIES

A Groundbreaking Connectivity Solution

CHALLENGE

Extend Starlink service to multiple users and areas in an Alaska village

CUSTOMER NEEDS:

Extensive outdoor WiFi mesh with indoor coverage at key points

Quick setup, no technical expertise required

Flexible backhaul: extend or link multiple Starlink connections

Easily expand network without local IT support

Seamless user transitions between nodes

Self-healing network after outages or device failures

SOLUTION

OSMOSIS

Osmosis is deployed across the village using a mix of indoor and outdoor routers, all seamlessly linked through a mesh network of wired and wireless connections.

RESULT

CONNECTION

While fiber is still years away, this solution lets hundreds of residents text, call, and video chat outside their homes for the first time. Essential services now communicate across the village, saving \$10 per minute on satellite phone costs.

ALASKA VILLAGE DEPLOYMENT OVERVIEW

60 ACRES Outdoor WiFi Coverage

2X Commercial Starlink one mile apart

INDOOR MESH provided to three municipal buildings

Equipment costs: **\$16K**

Live since **OCTOBER, 2023**

ABOUT WIND TALKER INNOVATIONS

We are a pioneering network and data communications company, focused on the deployment of Osmosis.

CONTACT

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THE EQUIPMENT WIND TALKER USED TO TRANSFORM AN ALASKA COMMUNITY

5 Osmosis-enabled outdoor router
 Dragonfly AX 4x4-MEA (OX850)
 3600 Mbps

5 Osmosis-enabled indoor routers
 NETGEAR WAX630 AX6000
 Tri-Band PoE Multi-Gig WiFi 6

1 PoE switch

1 Fiber bridge

2 Commercial Starlink units
 (customer provided)

All Osmosis devices mesh through wireless and ethernet connections and share backhaul from geographically-separated commercial Starlink units

