

Service Options for Fixed Wireless for Fixed Wireless

Fixed Wireless Solutions

Applications

Data Transfer

Integrated Voice

IPTV

Carrier WiFi Backhaul

DSLAM Backhaul

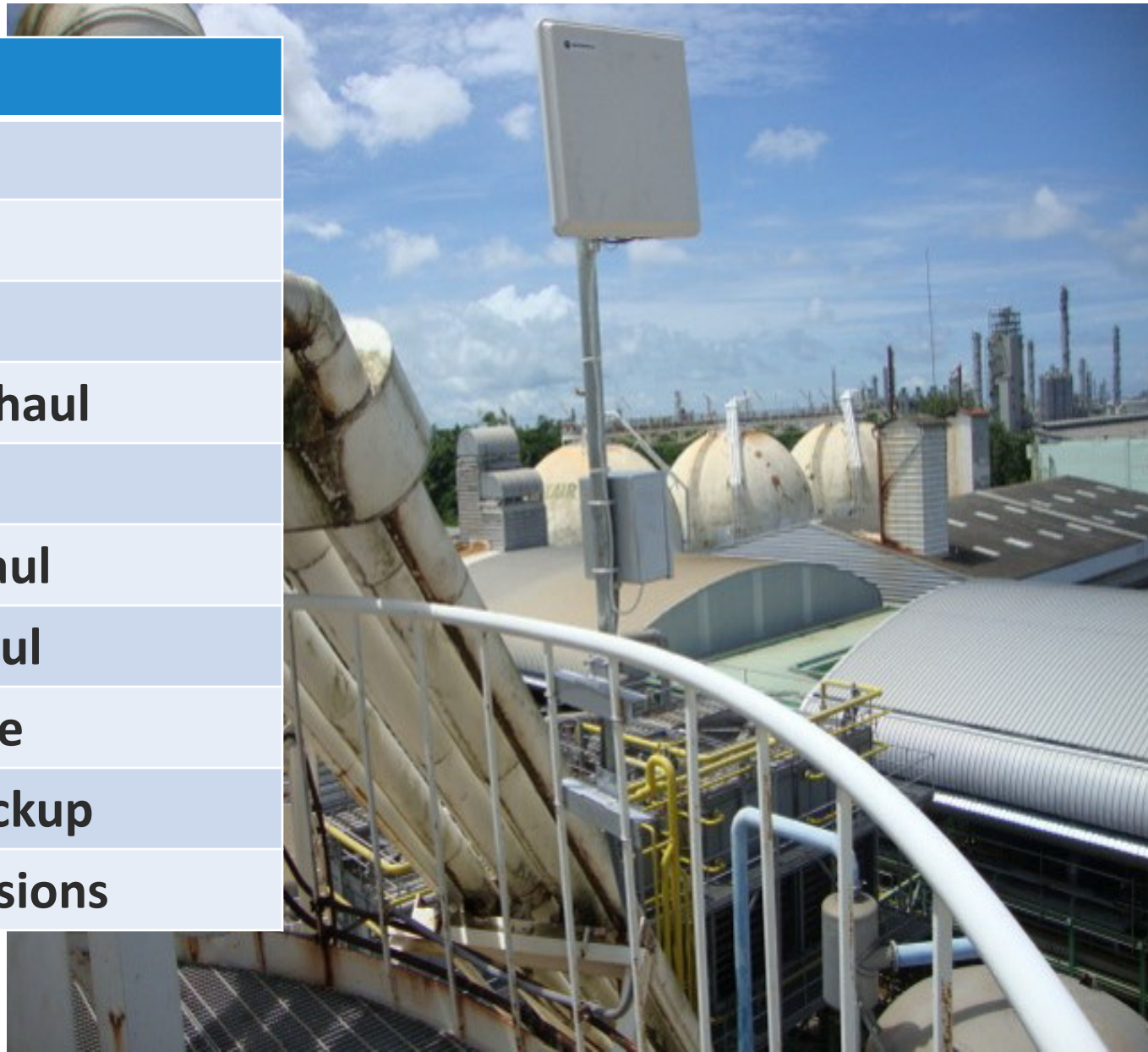
MacroCell Backhaul

Small Cell Backhaul

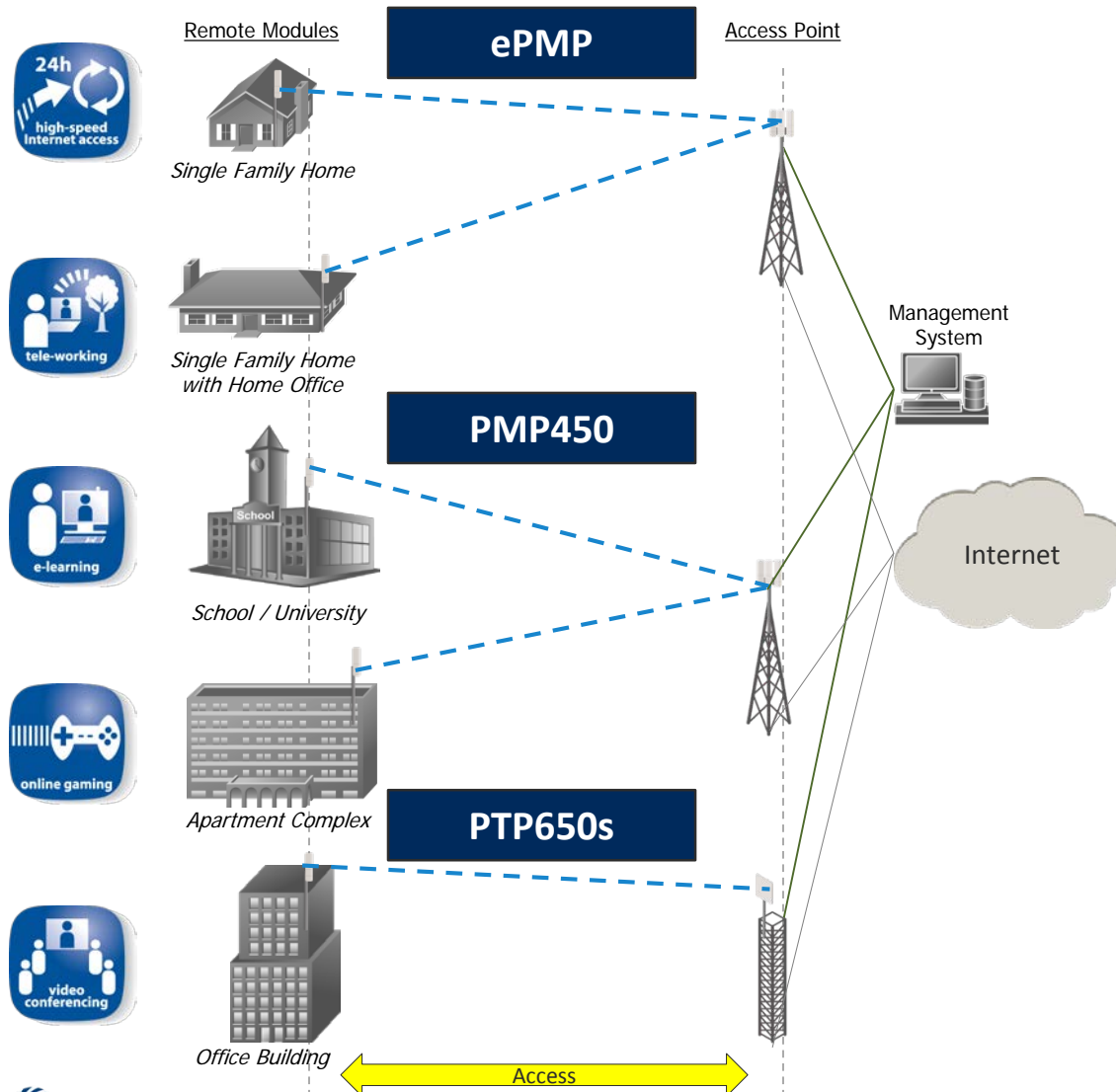
Video Surveillance

Infrastructure Backup

Broadband Extensions



Broadband Access Services



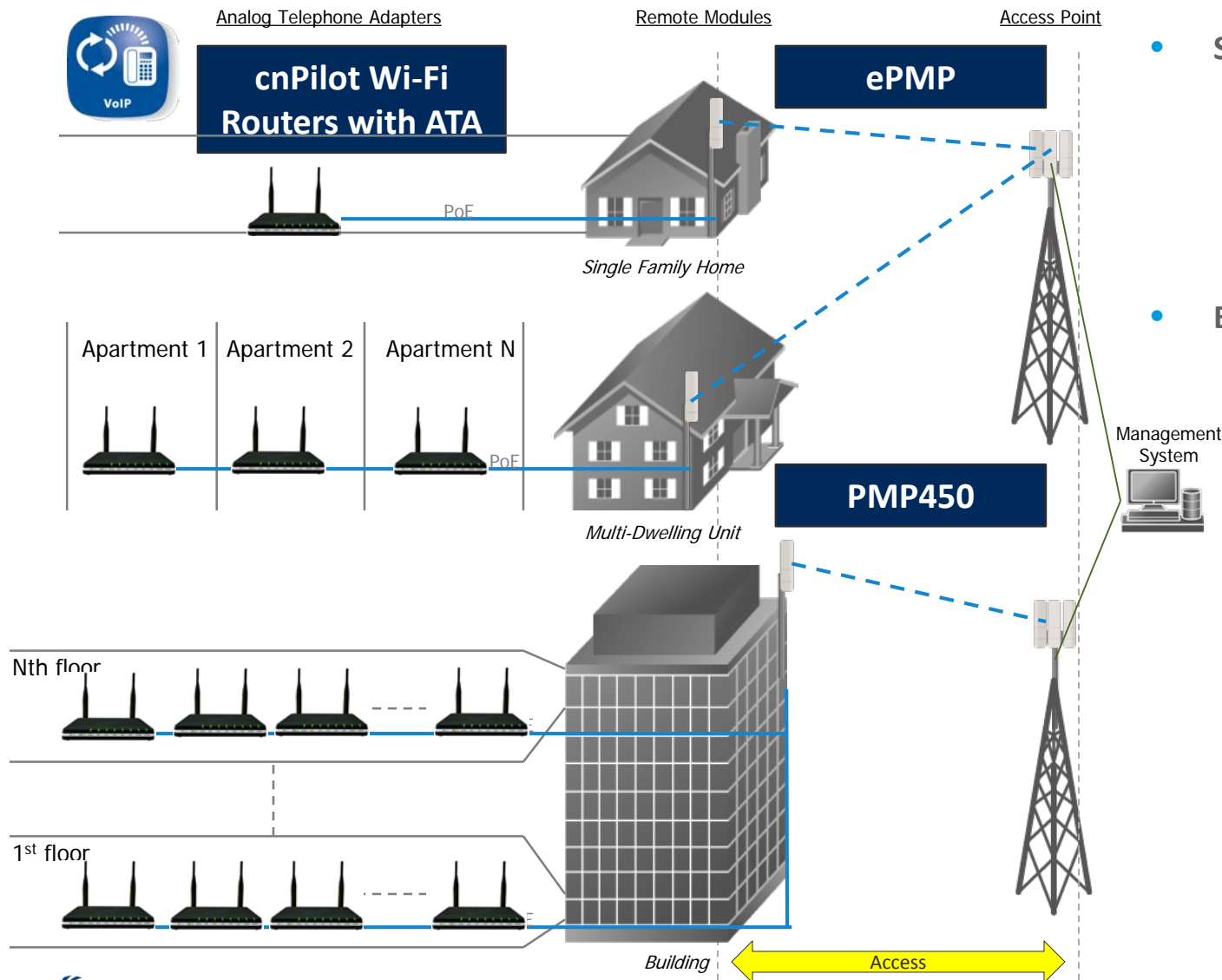
- **Solution**

- ePMP
- PMP450
- PTP650s

- **Benefits**

- Configurable access proportions (symmetrical or asymmetrical) to meet different service types
- Low latency to support video conferencing, online gaming, and interactive e-learning applications
- Always-on, reliable connectivity to support cloud services, geographically dispersed workforce, and Internet of Everything applications

Integrated Voice Services



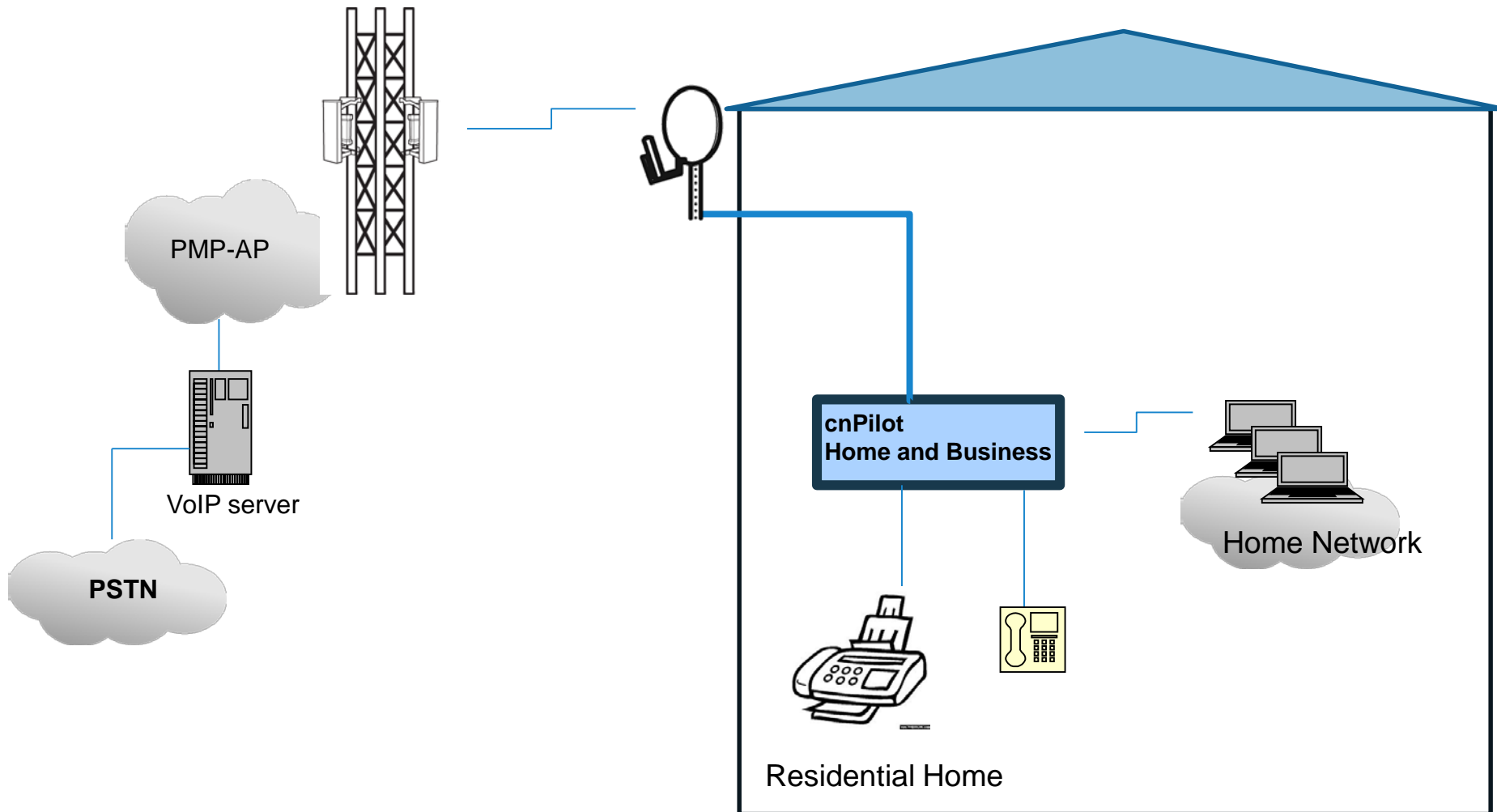
- **Solution**

- Cn Pilot R200/R201
- ePMP
- PMP450

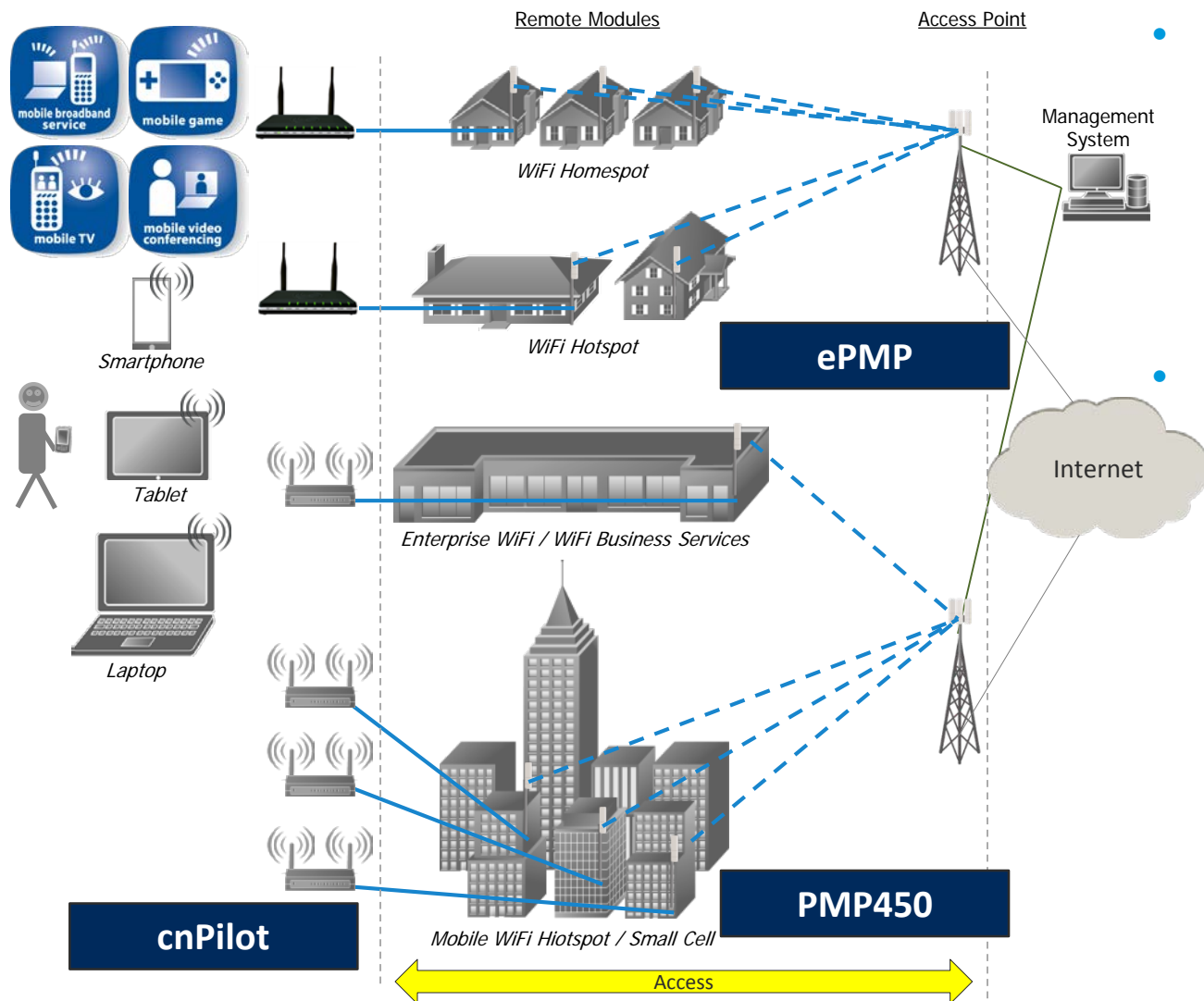
- **Benefits**

- Generate voice services revenue
- Simplified deployment with PoE-powered RM using ePMP or PMP450
- Simplified operations with remote secure provisioning of voice services
- High-quality voice services with dynamic network monitoring to reduce jitter and packet loss

Typical Deployment



WiFi Services (Wi-Fi Backhaul)



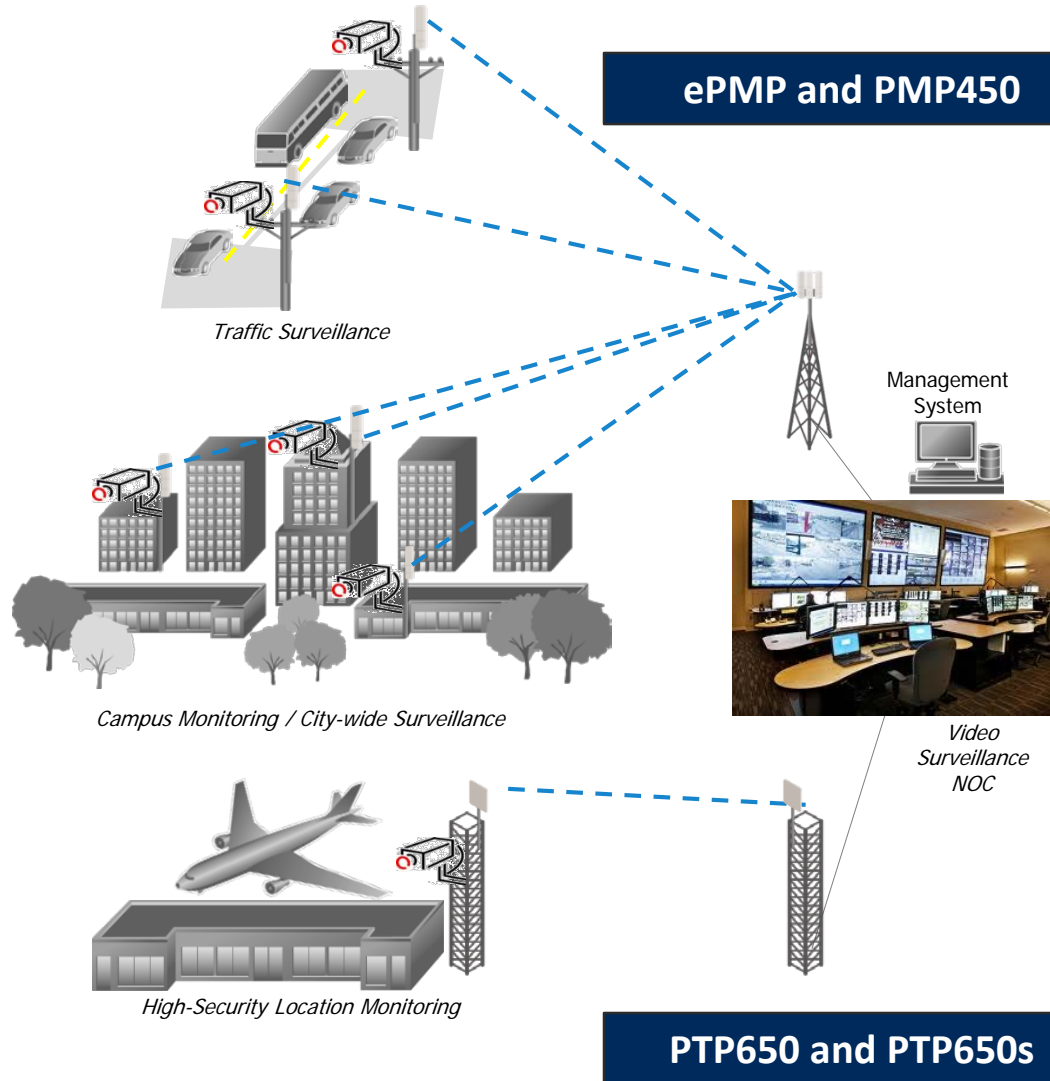
• Solution

- ePMP
- PMP450
- PTP650
- cnPilot (WLAN)

• Benefits

- Extend subscription services for mobile and nomadic subscribers
- Enable WiFi offload to alleviate macro-cell congestion
- Enable location-based services for social media and networking
- Enable WiFi analytics to improve customer experience management and marketing analytics

Video Surveillance



Applications

- Traffic Surveillance: Identify traffic violators to provide early traffic warnings or citation
- Campus Monitoring / City-wide Surveillance: Monitor corporate, educational and medical campuses, and public safety
- High-Security Location Monitoring: Monitor airports, port facilities, power plants, water treatment facilities, etc

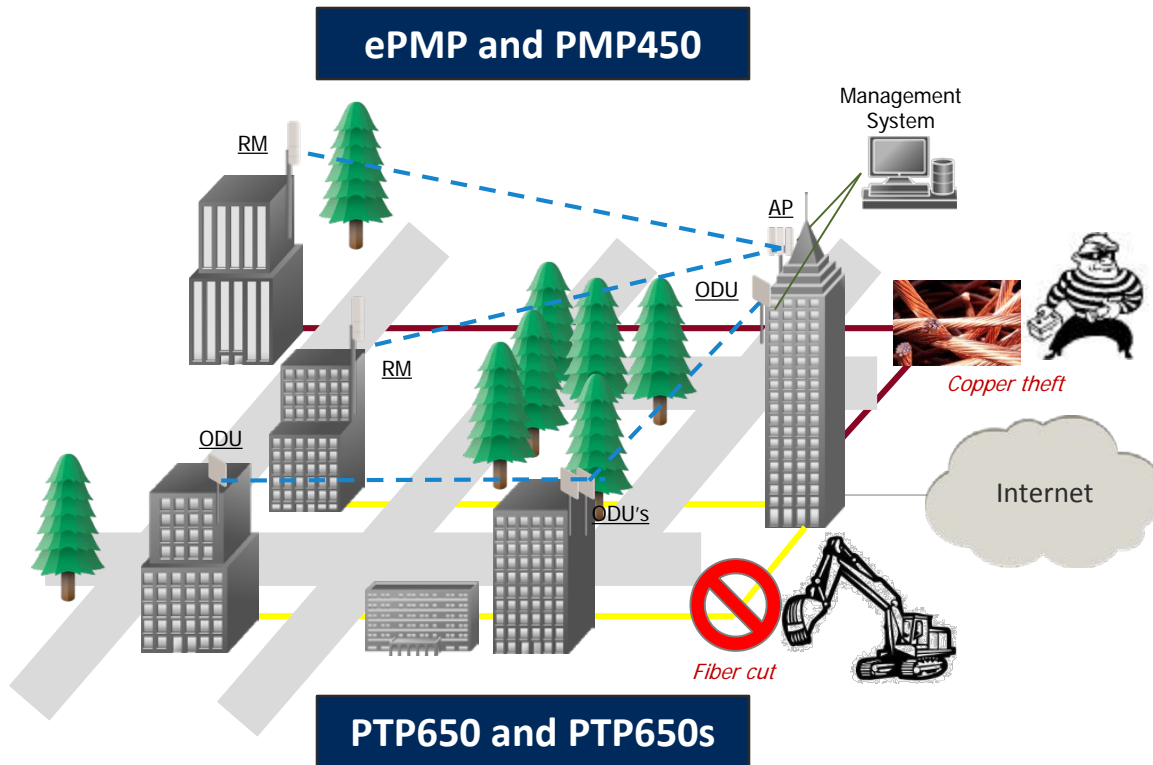
Solution

- ePMP
- PMP450
- PTP650
- PTP650s

Benefits

- Enable high-capacity, asymmetric up-link video transmission
- Low latency to ensure high resolution

Infrastructure Backup



- **Applications**

- Backup connectivity services
- Disaster recovery services
- Special event broadband connection services

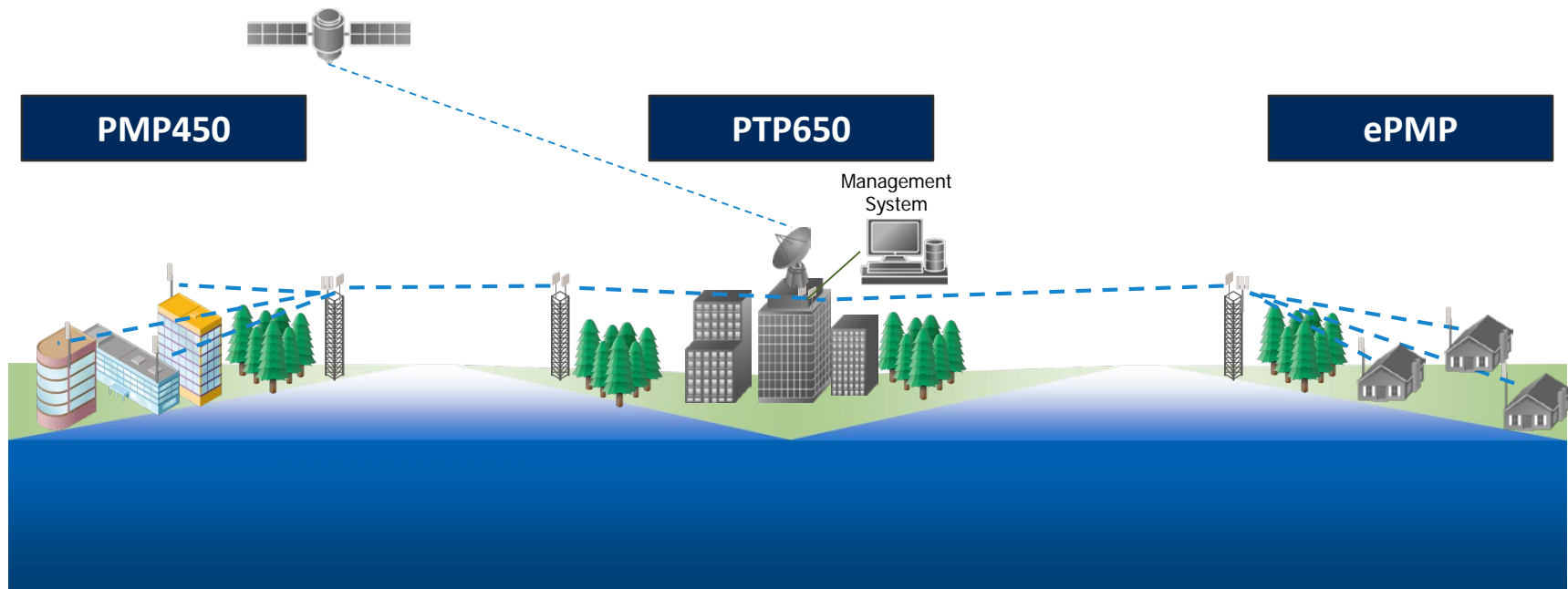
- **Solution**

- ePMP
- PMP450
- PTP650
- PTP650s

- **Benefits**

- Versatility to deploy broadband connection precisely where it is needed
- Eliminate / minimize SLA violation penalties
- Reliable, secure connection for multi-mode traffic

Broadband Extension



- **Applications**

- vSAT broadband service extension
- vSAT replacement
- Island broadband connectivity
- Mountainous terrain broadband connectivity

- **Solution**

- ePMP
- PMP450
- PTP650
- PTP650s

- **Benefits**

- Versatility to deploy broadband connection precisely where it is needed
- Low latency, highly available connectivity over long distances
- Efficient and simple management with single management system solution

The Longest Sub 6GHz PTP Link On Record

- 245.8km link from Pikes Peak (elevation 14,100 ft.) to a location just South of Cheyenne, Wyoming - 25th July 2015
- Both PTP 650 & NEW PTP 700
- 3' Antenna
- Greater than 30Mbps capacity.
- Demonstrated VoIP call using Cambium C3VoIP
- Demonstrated high resolution video surveillance using an Axis IP camera.



Planning and Design

**Determining link feasibility, performance and options
from the comfort of your desk.**

Detail in Workshop Later!

Plan with LinkPlanner

What is LinkPlanner?

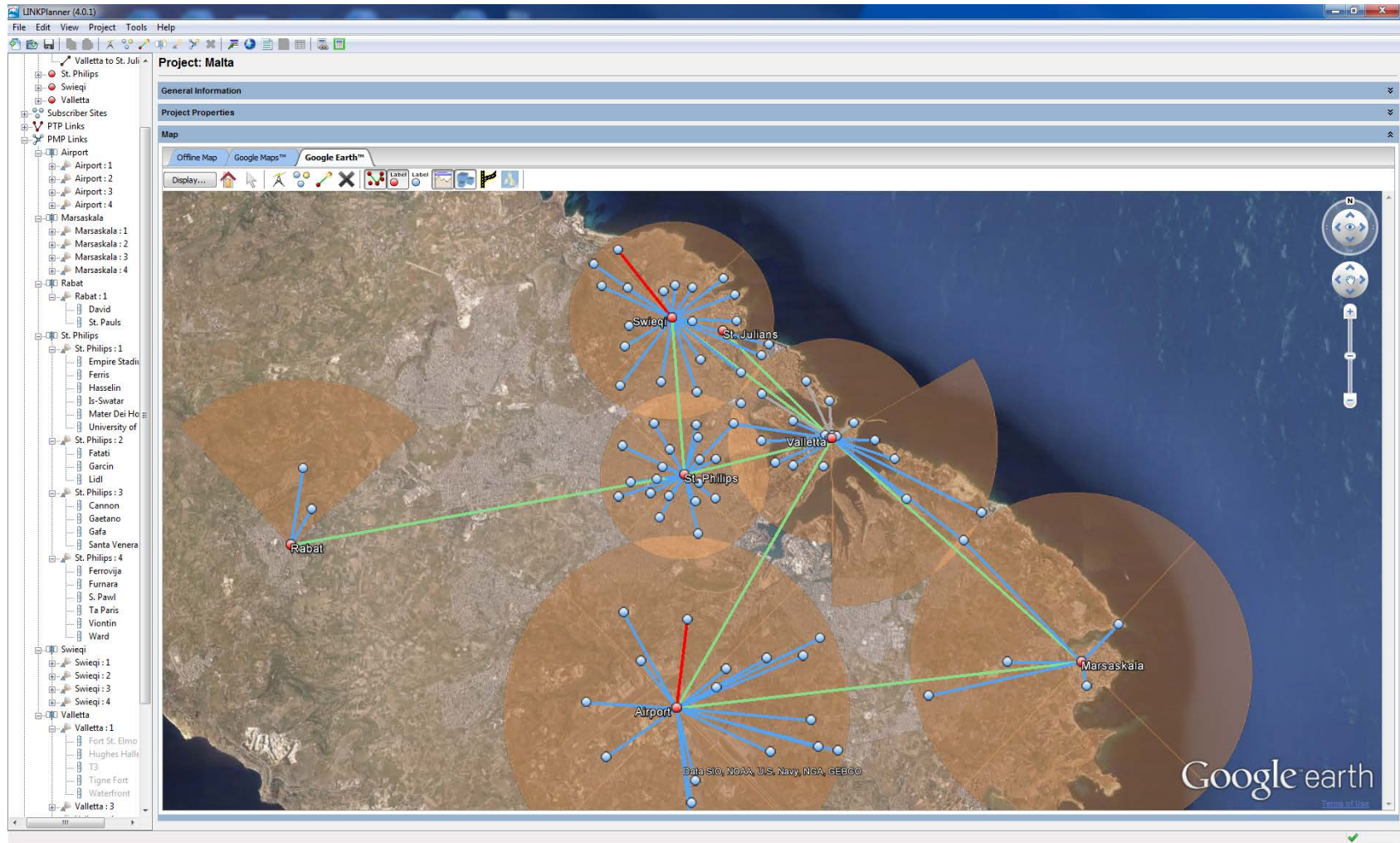
- Proven, reliable, accurate and sophisticated FREE planning tool that has been in use for numerous years in PTP deployments

LinkPlanner now supports ePMP, PMP/PTP450, PTP650, PTP700 and PTP820

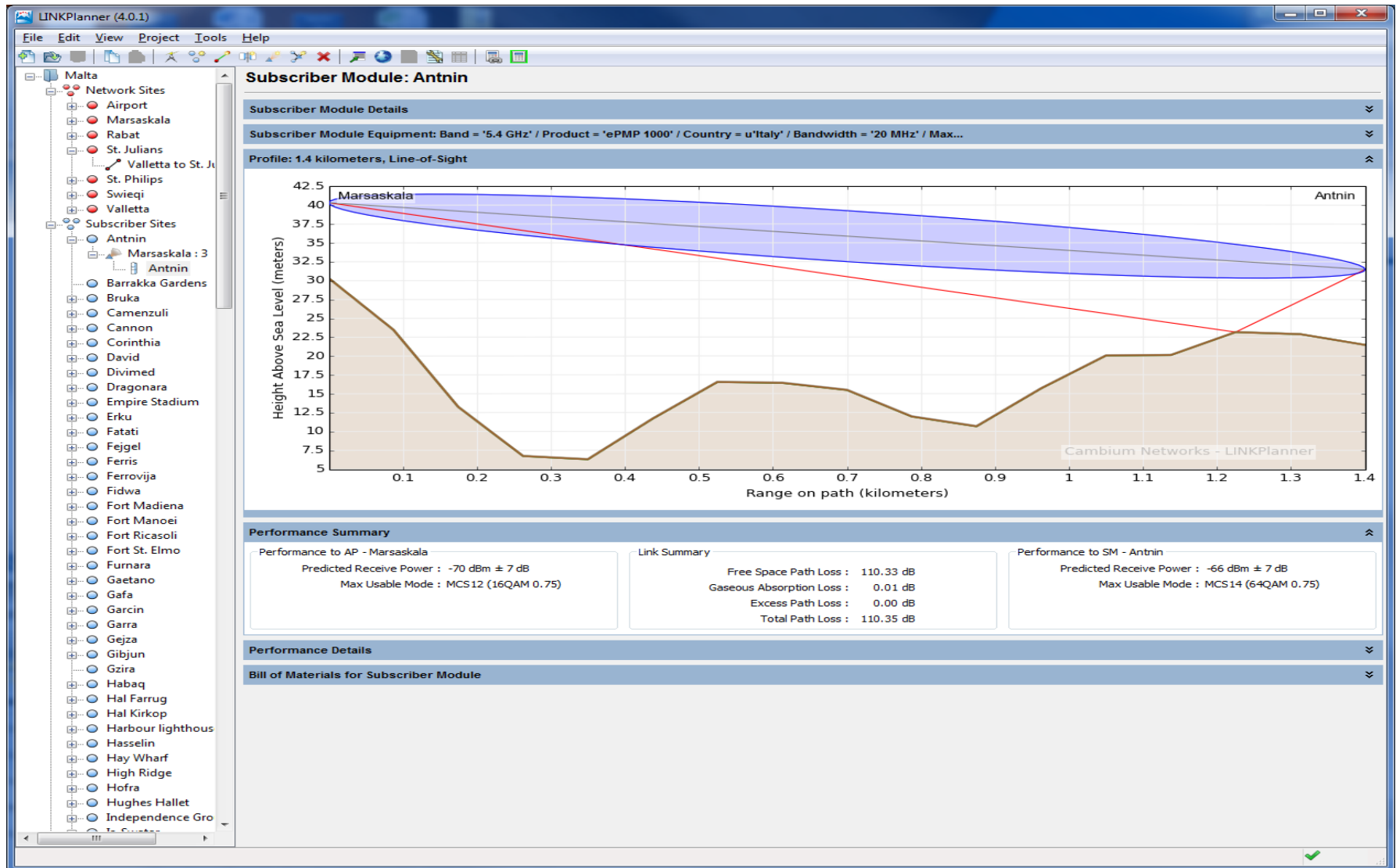
Find out more at:

<http://www.cambiumnetworks.com/products/planning-tools/link-planner>

Multi-sector and Multi-Tower Networks



AP to SM Link Profiles



Share Ideas – Join the Cambium Forum

Learn from network operators around the world

Community Forum

<http://community.cambiumnetworks.com/>

Discussion Forums

Products
Network Planning
Languages
Business Issues

Knowledge Base with technical
detail documents

Submit development Ideas

Real world connectivity Stories



Thank you

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