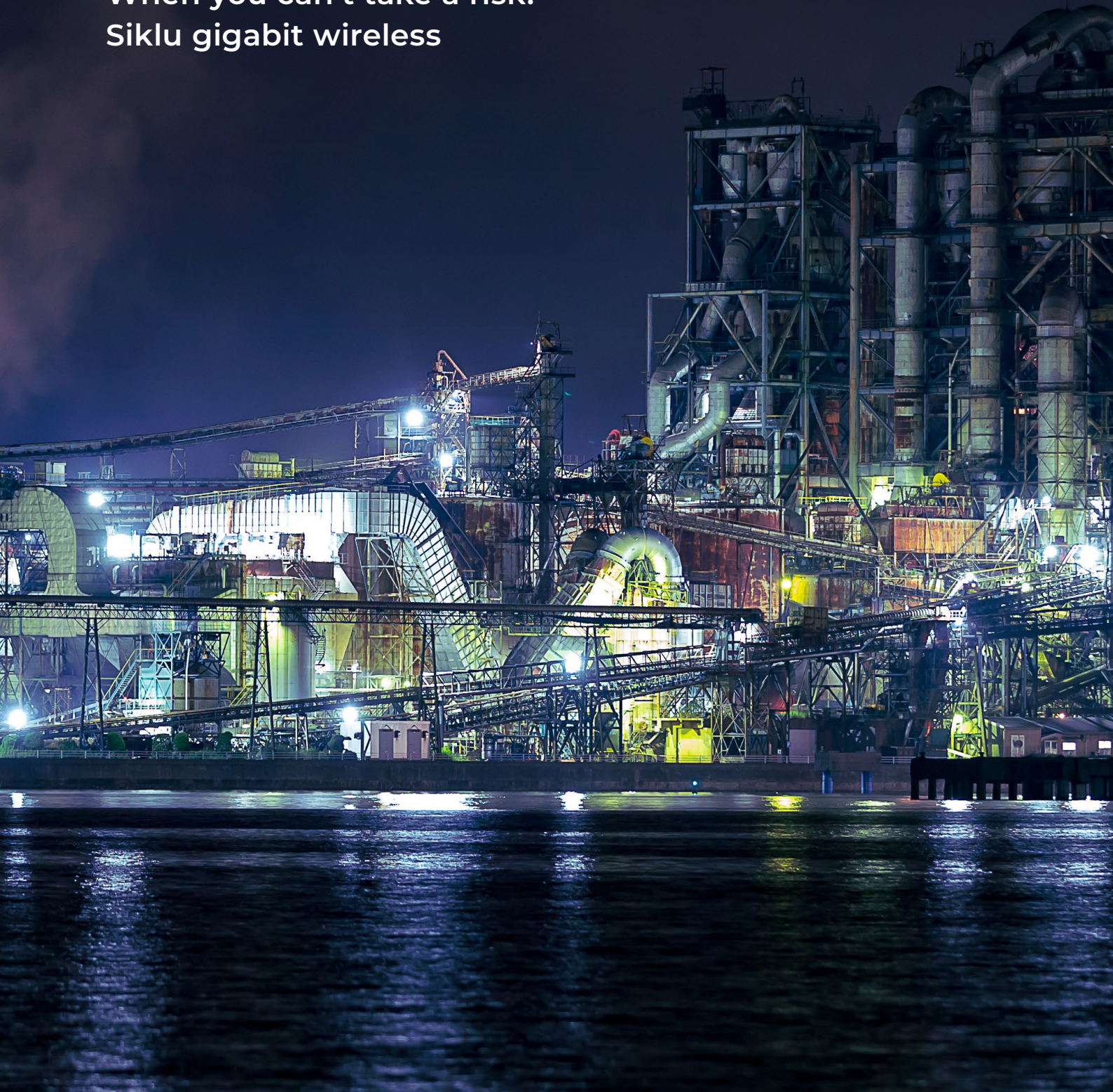




CRITICAL INFRASTRUCTURE

When you can't take a risk:
Siklu gigabit wireless

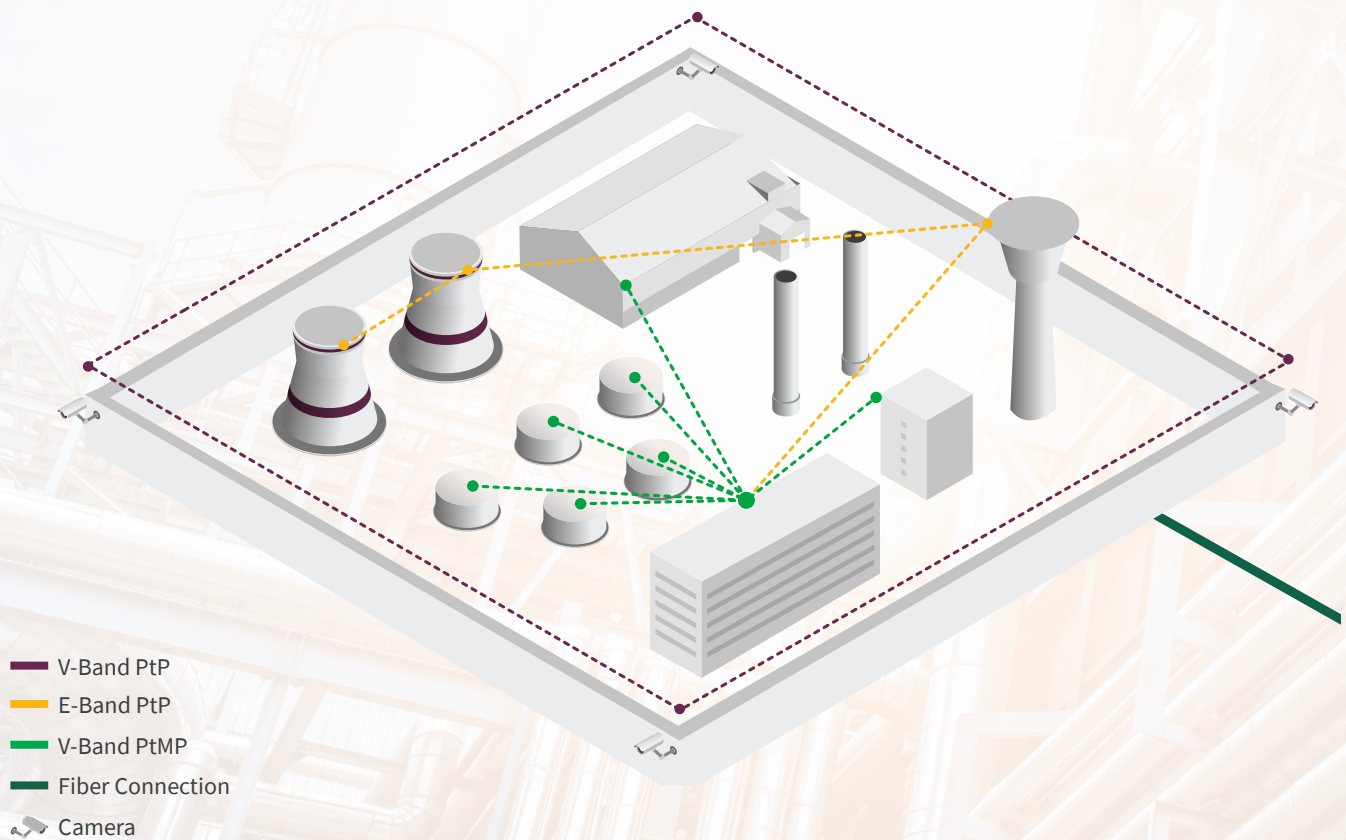


Critical infrastructure security

Introduction

In today's world securing critical infrastructure is not just a good idea, it's mandatory. Power plants, water supplies, ports and more all need to be protected. Many of these critical assets are in out of the way locations, isolated and as such present special challenges in guarding against disruption. High resolution video, thermal sensors and even radar are all used as detection and hence deterrent technologies.

Siklu mission critical wireless solutions can and do play a key role in protecting our critical infrastructure elements. With ease of deployment, no need for trenching and the gigabits of capacity offered by mmWave Siklu has numerous examples of successful deployments in place today. The reasons are easy to understand.





Secure

Siklu mmWave networks are often times more secure than a standard copper or fiber network. With no line to tap, intercepting a wireless signal is not a trivial task. With mmWave and its narrow beam angles jamming or "taping" into the wireless signal is almost impossible without detection. Add in encryption capabilities of 128 bit or 256 bit AES, secure user access via SSH and more and it is easy to see how Siklu systems are hardened and extremely secure.



Capacity

The tools used to protect our dams and nuclear power plants span a variety of technologies. From 4K full rate video, thermal cameras to radars and other sensor systems, are all used to extend the perimeter protection boundary. These tools require anywhere from 25Mbps to 100Mbps of throughput, and the more the better. These data rates are needed to deliver high quality video need for tools such as Artificial Intelligence or deep machine learning and the analytics they deliver. Only mmWave can deliver these gigabits wirelessly, with enough extra capacity to ensure the solution meets not only today's needs but tomorrow as well. Siklu offers a range of products from 1Gbps to 10Gbps full duplex.



Reliable and Rugged

These networks are performing mission critical connectivity. As such they need to have as close to 100% up time as is possible. Siklu products MTBF's measured in decades years and more. We have radios that have been deployed in the harshest conditions for years with zero downtime. In addition, when one considers that these radios are rated IP67 for outdoor operation, this means when you deploy a Siklu wireless network you have confidence that it will be the last time you touch them. Siklu radios can be set up with network failover/redundancy using ERP ring topology to provide mission critical network connectivity.



Flexible

No two critical infrastructure deployments are the same. Each has its own topologies and requirements. To serve those diverse yet mission critical network requirements one needs to be able to choose the right solution for each portion of the network. Siklu has the most extensive portfolio of mmWave systems on the market. Be it a 100m (300ft) point to point 100Mbps link, a multi-gigabit PtMP link, a 3 mile 10Gbps link or even a mesh approach – Siklu has them all.

Siklu's radios are the most deployed millimeter wave systems in the world

terragraph



EtherHaul™
Street Level

Up to 1Gbps
Aggregated



EtherHaul™ Kilo
Rooftop

Up to 10Gb
Full Duplex



MultiHaul™
Point-to-Multipoint

Plug-and-Play
Street level up to 1.8Gbps
Aggregated



MultiHaul™ TG
Mesh

Up to 16Gbps
Aggregated



Siklu SmartHaul™
Network Software Tools