

● PROVEN WHERE IT IS HARDEST

Washington United Terminals

Private 5G, live across the yard.

How a leading container terminal at the Port of Tacoma traded unreliable yard coverage for a private 5G network that is right sized, affordable, and open.

01 · THE CHALLENGE

Acres of moving metal, no coverage to match

Washington United Terminals runs one of the busiest container terminals at the Port of Tacoma. Over 103 acres, six super post Panamax cranes, a 2,600 foot berth, and on dock rail for 52 cars. Every move depends on real time data. When coverage drops, the work stops.



△ WHERE IT BROKE DOWN

Unreliable connectivity

Outdoor WiFi dropped constantly, especially during active truck operations.

Stalled operations

Lost connection to the Terminal Operating System interrupted tasks and forced restarts.

Frustrated crews

Repeated job restarts slowed the yard and wore on the drivers.

103

ACRES

6

CRANES

2,600

FOOT BERTH

52

RAIL CARS

After two failed WiFi overhauls in eight years, WUT needed coverage built for the whole site, not just the building.

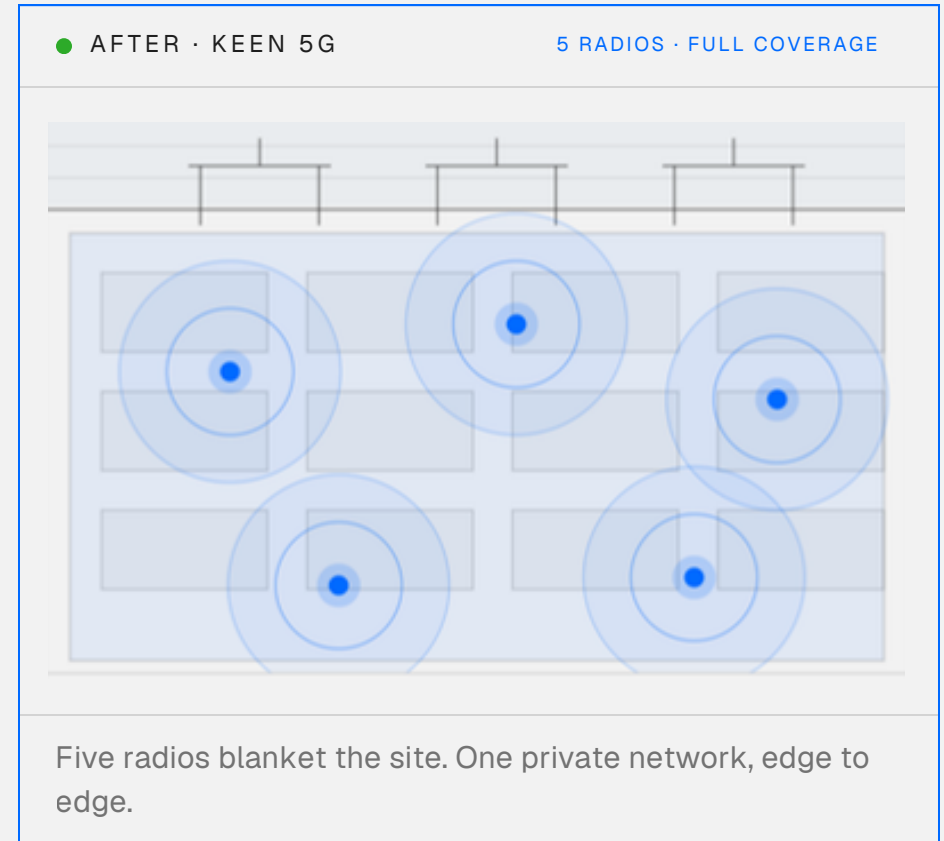
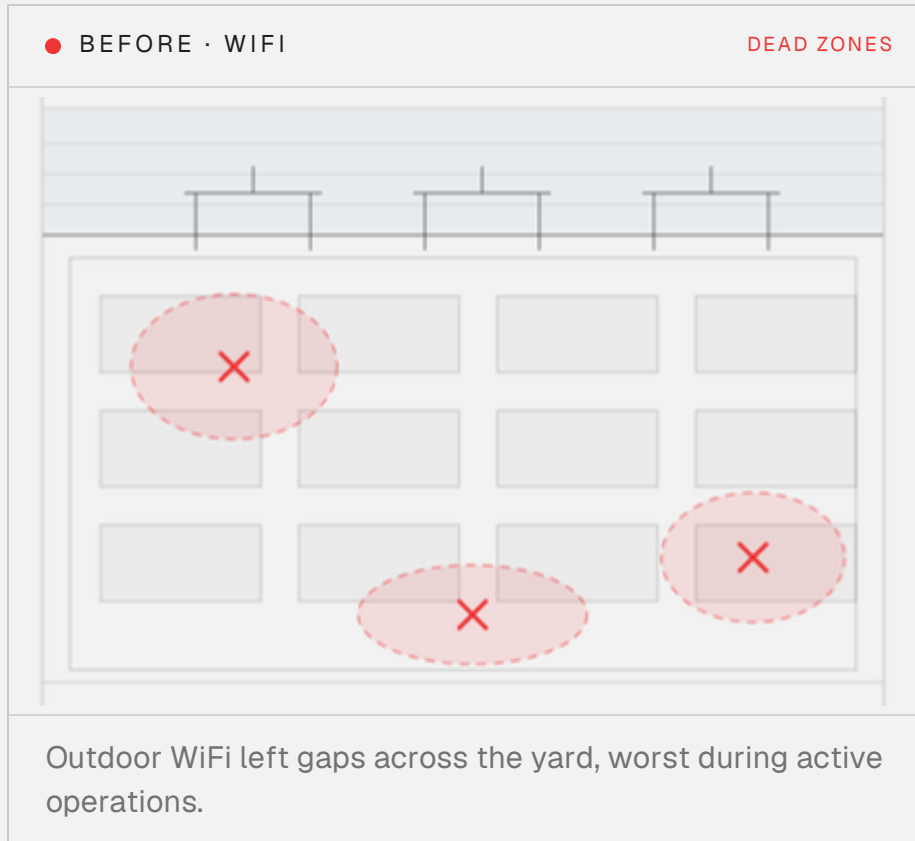
RIGHT TOOL FOR THE JOB

WiFi earns its keep indoors: dense, fixed, close range. Cellular covers the whole site: wide area, mobility, security. They coexist.

02 · BEFORE & AFTER

From dead zones to full coverage

The same yard, before and after KEEN. Two failed WiFi overhauls left gaps across the site. Five private 5G radios closed them.



● WiFi dropped during truck operations

● Coverage holds across the whole yard

● Lost TOS forced job restarts

● Devices stay connected, tasks finish

● Dead zones across acres of yard

● Zero dead zones, edge to edge

03 · THE SOLUTION

One private network, live in weeks

KEEN delivered a fully observable, open architecture private 5G network across the WUT yard. Right sized for the site, with capacity to spare, and open so WUT is never locked into one vendor.

● LIVE COVERAGE

659

 acres

Live across the Port of Tacoma and Washington United Terminals. Proven again for the U.S. Air Force at JBLM.

1 wk

DEPLOY TO LIVE

5

RADIOS ON SITE

0

DEAD ZONES LEFT

1 Gbps

FIBER BACKBONE

WHAT IT DELIVERS

- Yard wide coverage, with a 1.5 to 2 mile radius across the Tideflats.
- A private, isolated network slice for each client and use case.
- Supports native 5G today and existing LTE devices in parallel.
- Coverage that extends past the yard, ready for what comes next.



04 · IN PRODUCTION

Already working. Built to grow.



● LIVE

Connected vehicles

Yard trucks stay online across the site, no more dropped tasks.



● LIVE

Connected crane

A dedicated, segregated slice keeps crane traffic isolated and secure.



● LIVE

Connected yard shop

High speed 5G at the maintenance shop puts machine data in reach.



● LIVE

5G security camera

The first connected camera, watching the main gate at the entrance.

● ON THE ROADMAP



Predictive maintenance

Catch crane anomalies early, before they stop the line.



AI container counting

Track containers at the rail entrance, straight into the TOS.



Modern TOS layer

A modern front end over the existing operating system.



Push to talk comms

Real time voice, translation, and safety for frontline crews.

See it on your own site.

KEEN runs as a low friction proof on your floor or your yard. See the coverage, test it against your real devices, then decide.

[Start a conversation](#)
khasmnetworks.com