

Unlock a Modern Construction Worksite via Private Mobile Networks



The construction industry is changing rapidly and many are planning to take advantage of private mobile networks. These construction companies want to improve safety, maximize efficiency, all while lowering costs and benefiting from both technology and automation. **Using technology that is reliant on connectivity can improve productivity, reduce safety risks, improve efficiency, and remove repetitive tasks via automation.**

CHALLENGES

Large construction projects have some very specific communications requirements - particularly if the site is in a rural location, there may be no existing network coverage. Site-wide communications is required very early in the project to avoid delays. Coverage will be required to deliver voice and data connectivity across the site (both indoors and outdoors), for people, devices, and machinery.

Sophisticated construction equipment requires a robust network without interference from any nearby networks.. The most efficient way of providing a consistent and secure connection throughout the workday is through a private mobile network.

THE ALEF SOLUTION

The first [global Enterprise Mobility API Platform](#) that empowers enterprises to create, customize, and control their own private mobile network - deploy in weeks, scale in minutes

Low cost operating models over traditional service providers and approaches.

**Universal • ANY-G
Programmable APIs**



Expand wireless mobility

To those hard-to-reach corners of your worksite with dependable carrier-class technologies.



Less manpower & cost with the same performance & security inside your firewall



Improve performance for latency-sensitive applications



Activate in 60 minutes

Enable mobile devices inside the firewall on the enterprise network

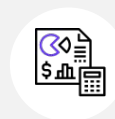


Prepare for Edge Compute

Lay the groundwork today for the distributed computing environment of tomorrow.



Better than cloud because data is kept local and secure and integrated into the service layer



Purchase through budget-friendly subscriptions

Procuring MNaaS aligns expense with consumption.

Use Case: Building the Smart Construction Site

Security Video Ingest & Analytics

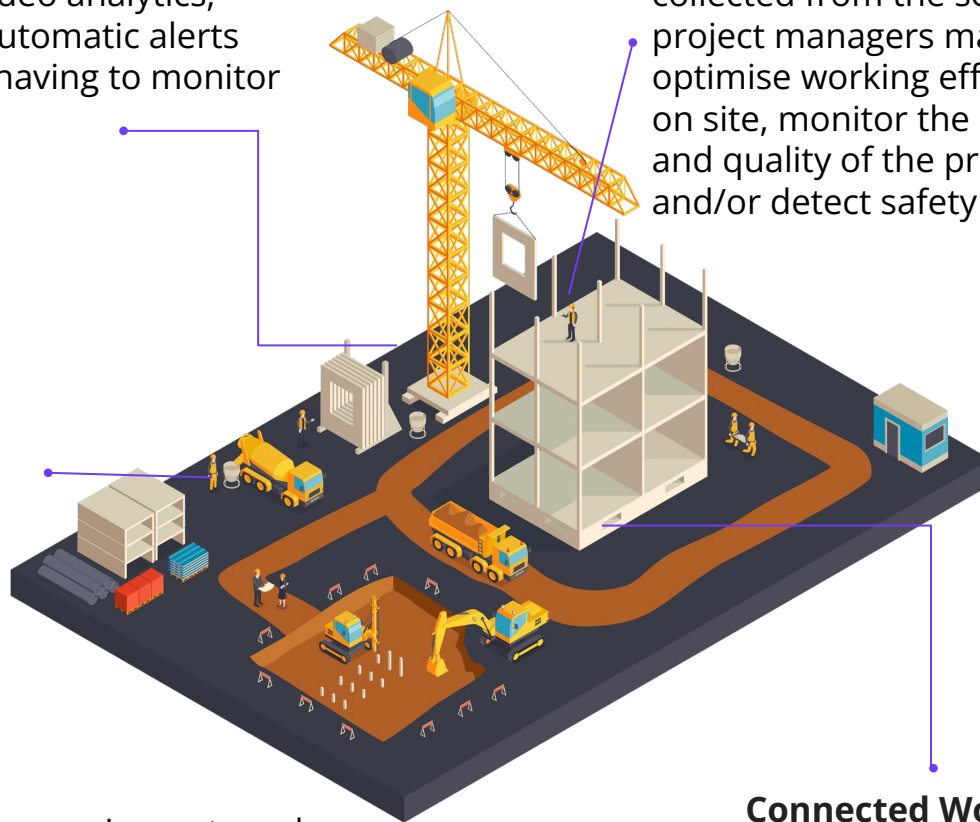
Construction sites use CCTV to ensure the safety and security of sites and workers. With the addition of video analytics, incidents can trigger automatic alerts rather than someone having to monitor the live video stream.

Advanced Predictive Maintenance

Advanced predictive maintenance monitors data from equipment to ensure it is in good condition and flag preemptively if there is a need to repair it, eliminating the need for scheduled maintenance.

Data from sensors across equipment can be processed at the edge to reduce backhaul and strain on the network and central server and minimise latency for a real-time view of the equipment.

Sensors are installed on site or worn by construction workers. By analysing data collected from the sensors, project managers may optimise working efficiency on site, monitor the progress and quality of the project and/or detect safety issues.



Connected Workers
Employee access to Planning, Operations and Safety Systems workflow while on the job.

Private Mobile Networks implement carrier-class dependability and rock-solid mobility—the kind general contractor and construction managers can depend on.

Industry Validation

VentureBeat

“Alef’s **expertise in APIs**, building strong developer relationships and solid track record of enabling enterprises’ mobile applications with Edge Points serving as the mobile abstraction layer are helping to **create the mobile network-as-a-service (MNaaS) market.**”



“**Simplifying the process of deploying mobile networks** inside the enterprise security perimeter will make it faster and easier for companies to integrate new technologies and applications”