Highway 9 Mobile Cloud for AR/VR – Use Cases

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What Is Highway 9 Mobile Cloud? Connectivity Foundation For AR/VR Use Cases

Enterprise-operated private cellular to keep smart glasses and tablets connected across the facility.

- **Eliminates Wi-Fi gaps:** Private 5G/LTE coverage across indoor, outdoor, and campus areas, so glasses and tablets stay connected while moving.

- **Always-on connectivity for XR:** Designed for "always on mobile data" rather than best-effort Wi-Fi, which helps keep "see-what-I-see" video/AR sessions stable.

- **Enterprise-operated private cellular:** Lets the enterprise build and operate a secure private cellular network (cloud-hosted core + on-prem edge + private RAN) under one management plane.

- **Supports mobility-centric apps:** Private cellular is positioned for roaming/mobility use cases where devices move through complex facilities.

Practical Use Cases: Digital Worker + Private 5G XR (Training + Remote Support + Workflows)

Private 5G enables immersive, real-time collaboration and training for industrial environments.

- **The Mobility Advantage:** Unlike traditional Wi-Fi, private 5G is specifically positioned for mobility-centric, real-time applications such as AR, ensuring workers remain connected even as they move through complex industrial facilities.

- **ITraining:** Private 5G/LTE supports scalable XR training and digital twin experiences across the facility.

- **Power Apps like Digital Worker iApp:** Workers run Power Apps workflows on a Samsung tablet and continue the same workflow on AR glasses with persistent private cellular connectivity.

- **Remote Support:** Low-latency, high-bandwidth mobility supports smooth "see-what-I-see" collaboration on AR glasses.

One

network for multiple devices & apps

Highway 9 Mobile Cloud provides a centrally managed private 5G/LTE network (cloud core + on-prem edge + private RAN) for consistent coverage and mobility.

Example of Integrated Ecosystem
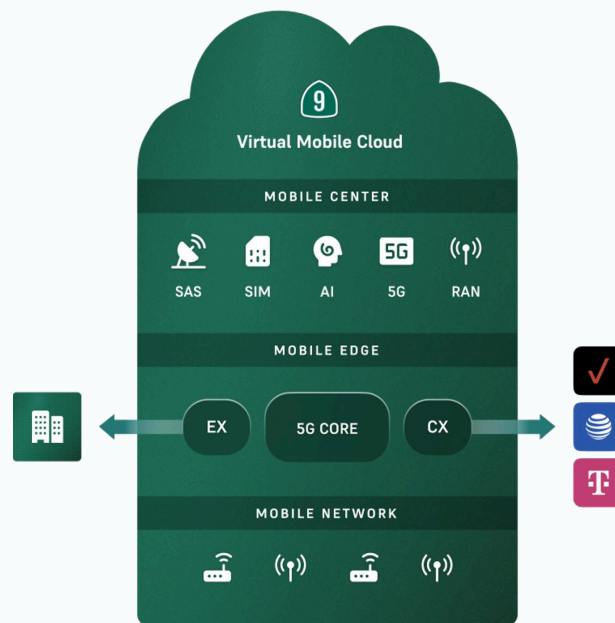## *Glasses & Headsets + Samsung Tablet + Power Apps (over Highway 9)*

Component	Role in Workflow	Highway 9 Enables with
Smart AR Glasses & Headsets	Hands-free AR overlays, remote visual assistance	Reliable private cellular uplink for live video and AR data while moving.
Samsung Galaxy Tablet	Larger-screen workflow steps, diagrams, approvals, data entry, spatial instructions & IoT visualization.	Coverage continuity across plant zones without Wi-Fi gaps
Power Apps (e.g. Digital Worker iApp)	Low-code workflows for data collection, AI-guided tasks	Cloud-native private network for always-on app access over enterprise-operated private cellular

Technical Foundation: Edge compute & Low Latency Connectivity

Mobile Cloud architecture supports the high performance required by AR/VR Glasses, headsets & XR ecosystem.

- Cloud Rendering & Edge Compute: To keep AR/VR headsets lightweight and battery-friendly, tough processing shifts to the network. 5G with edge computing delivers top performance by rendering graphics right near the user.

- Sub-Millisecond Latency for Immersion: Private 5G's sub-millisecond latency enables immersive XR without motion sickness or data misalignment.

- Enterprise-Grade Video & Data: The Highway 9 network functions as a dedicated foundation for video-heavy workloads, such as those used in smart glasses and XR streaming.

- Hardware Ecosystem : The architecture is designed to support a diverse ecosystem, from the MR Technology 5G True AR Smart Glasses for hands-free operations to Samsung tablets for data-intensive administrative tasks.

Redefining the Private Mobile Network = Private 5G + Edge/Cloud Services via 3 key components.

Get in touch

Contact us to learn how a mobile cloud can address your AI or mobility needs

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