

# HORIZON



## Nationwide Push-to-Talk over Cellular (PoC) Communications

### **HORIZON is the fastest growing and most reliable PoC platform**

HORIZON utilizes the cellular LTE infrastructure of Mobile Network Operators and Wi-Fi networks to access cloud-based PoC servers.

LTE cellular networks enable nationwide coverage so radio users are untethered by the range of repeaters and base stations used in traditional radio networks.

HORIZON supports all of the rugged and feature-rich Hytera PoC devices and includes HORIZON Dispatch, a web-based dispatching application that enables centralized group calling and GPS location tracking.

HORIZON is a simple and cost-effective communications solution for small and medium sized businesses, and is scalable to large enterprises with thousands of users.

**The Most Reliable PoC System Available:** The most dependable PoC services available through high-capacity cloud servers with geographically diverse hot-standby redundancy for the highest level of service availability.

**Instant Group Communication:** Nationwide group and individual calling enables swift decision-making and response times.

**Efficient Collaboration:** Enhance teamwork and collaboration by providing a seamless platform for real-time communication among remote and dispersed teams.

**Increased Productivity:** Boost productivity with instant voice communication, share images and videos, and run Android business apps.

**Cost-Efficiency:** Reduce communication costs significantly compared to traditional smart phones and calling plans, leading to substantial savings for businesses and individuals.

**Scalable:** Easily add a limitless number of radios, and HORIZON is the only PoC system designed for the large enterprise with complete customer operational control.

## Look to HORIZON for Limitless Push-to-Talk Communications

# Hytera PoC Devices

Hytera provides a wide variety of PoC devices for operation on the HORIZON nationwide PoC system, including PoC handheld radios, PoC mobile radios, and PoC mobile computers.

- Industry-leading audio quality with AI-based digital noise suppression
- Longest battery life available
- Rugged and reliable
- Built in Wi-Fi, Bluetooth, and GPS



## NATIONWIDE COVERAGE

- HORIZON leverages 4G/5G/LTE and Wi-Fi networks to provide secure and instant nationwide radio communications
- Optional multi-carrier SIM supports three mobile carriers and switches over when a carrier's signal is no longer present

## MOST RELIABLE POC SYSTEM AVAILABLE

- Advanced cloud servers provide the most reliable nationwide PoC services available
- Geo-diverse server redundancy and resiliency for the highest level of service availability

## GROUP AND INDIVIDUAL CALLING

- Instant one-to-one (individual) calls, or one-to-many (group) calls to different groups
- Quickly build dynamic call groups with a simple list selection or geographically by selecting an area on the dispatch map

## CROSS-ENTERPRISE CALLING

- Supports cross-enterprise group calls to any other company using the HORIZON PoC service
- Enables efficient collaboration with partner organizations

## MULTIMEDIA COMMUNICATIONS

- PoC devices with cameras can take and share pictures with dispatch and other users
- Supports free-form or pre-programmed text messages
- HORIZON Dispatch enables sharing pictures, videos, and sending group texts

## NO INFRASTRUCTURE REQUIRED

- No need to purchase, operate, and maintain traditional radio network infrastructure
- No expenses related to securing FCC frequency licenses

## RAPID DEPLOYMENTS

- Since the radio network infrastructure already exists, PoC systems are quickly deployed
- PoC radios work out-of-the-box with SIM cards pre-installed

## UNLIMITED CHANNELS

- The HORIZON PoC platform allows any number of virtual channels and as many call groups as required

## GPS LOCATION TRACKING

- PoC devices with integrated GPS enable location tracking with the HORIZON Dispatch application or the PNC560/PNC560S
- Enables tracking of driver locations and travel routes with time stamps

## DEVICE FLEXIBILITY

- HORIZON supports a wide variety of handheld and mobile PoC radios for on-site and in-vehicle communications
- Bring Your Own Device (BYOD) and use the HORIZON Android app to make PoC calls on your own smartphone

## SAFETY FEATURES

- Supports sending and receiving Emergency Calls or Alarms for enhanced worker safety
- Dispatcher can remotely monitor audio during emergency situations

## SECURITY AND PRIVACY

- Quantum, ARC4, SM4, and AES 128/256 encryption provides secure and private end-to-end calling

## CALL RECORDING

- Record group calls as .wav files on the PoC devices to quickly review a missed group call
- Capture call content and playback on PC to retrieve and document action items, instructions, and other important call information

## OPERATIONAL CONTROL

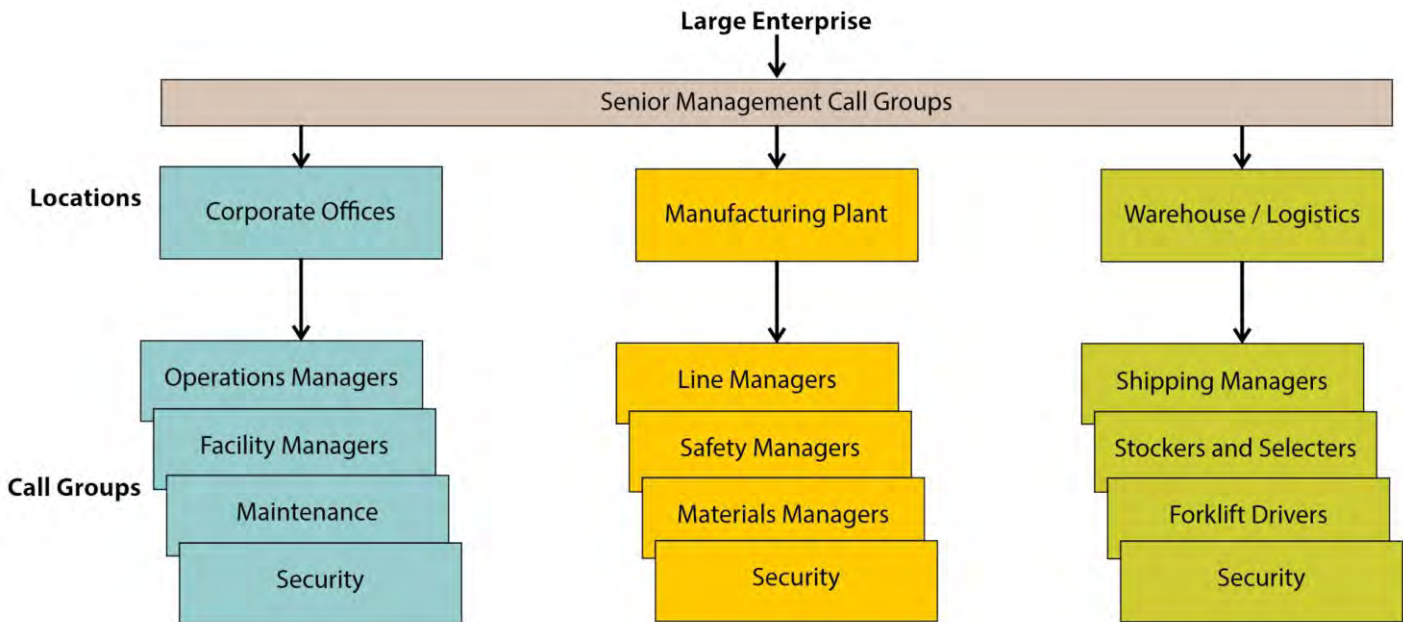
- Customer system management is available with a web based system operations console for large enterprise customers that want comprehensive control over the PoC system and devices
- API available for customer app development
- Custom branding available for the dispatch app, power up screens, and app icons on devices

# Operational Control for the Large Enterprise

The HORIZON PoC platform is the ultimate solution for large enterprises and organizations seeking flexible communication for hundreds or even thousands of users across diverse user groups and multiple locations. HORIZON provides streamlined communications for large school districts, companies with several locations, security companies covering many client locations, logistics companies and warehouses, construction companies, and healthcare systems with multiple facilities.

Using the HORIZON System Operations Management application, a variety of communication parameters can be tailored to specific organizational requirements.

- Define geographic segmentation for multiple locations
- Remotely manage and update call groups
- Program radios, and add or remove users
- Generate network traffic reports
- Enable privacy encryption levels
- Create a privately branded system



Large and complex organizations with many users spread out across several locations can use the HORIZON System Operations Management application to configure and control their own radio system for call groups and locations.

For example, the diagram above illustrates how a company with three locations and hundreds of employees can organize radio communications. The locations include corporate offices, a manufacturing plant, and a warehouse/logistics facility. Each location has several call groups segmented by job types.

With HORIZON, the users at each location can be organized into segmented "silos" that include only the users and groups at each location. This simplifies communications for users that typically only need to communicate with others at their own site. Senior

managers can program call groups that overlap multiple locations when they may need to speak to managers or security staff at multiple locations on one call.

With HORIZON, the company can quickly program radios for specific users and distribute the radios to the new users as needed. When an employee leaves the company, the radio can be easily reprogrammed for the next user.

Radio configuration is simplified using configuration templates throughout the organization or with specific groups. Multiple radios can also be simultaneously configured using a batch import process.

HORIZON Systems Operations Management provides detailed usage reports on system usage and call traffic for insights that enable system optimization based on actual system data; for example, identifying high usage areas that may require adding a new call group.

# How HORIZON Works

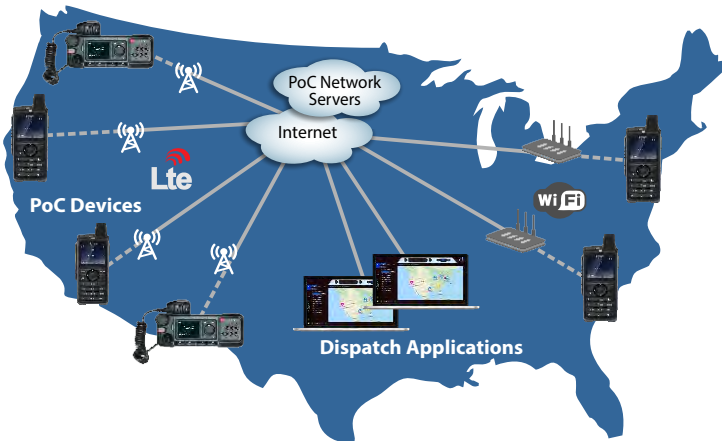
Hytera PoC devices access the HORIZON PoC server through the internet using cellular LTE networks and Wi-Fi networks for wide-area radio communications.

PoC is also referred to as Radio over IP (RoIP). Similar to Voice over IP (VoIP), RoIP devices are handheld two-way radios that access cloud-based PoC services via the internet for nationwide calling. A data plan SIM card (similar to those used in cell phones) is installed in the PoC device to enable access to the internet using the cellular LTE infrastructure of Mobile Network Operators.

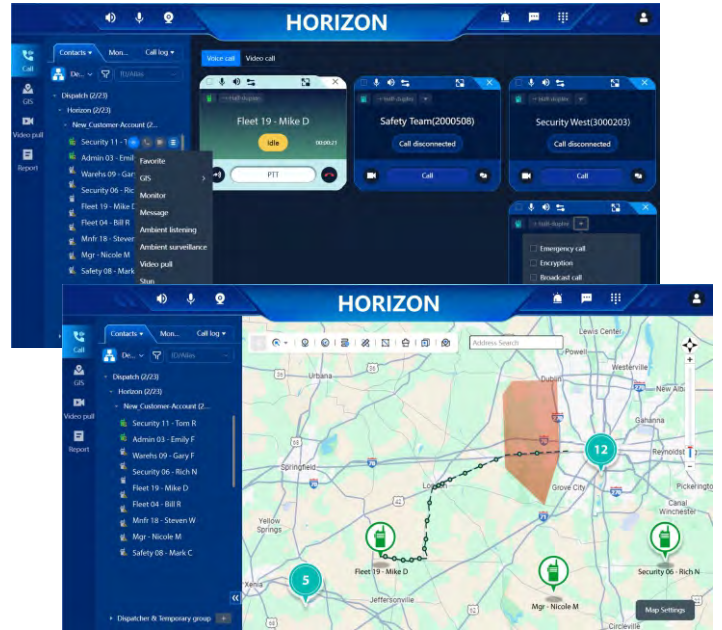
HORIZON services are hosted on the cloud using PoC servers (network appliances). Gateway routers provide connectivity between the 4G/LTE network and the cloud hosted PoC controller.

The result is access to existing and reliable networks that require no maintenance or operational expenses.

HORIZON Dispatch web browser applications also connect to the PoC cloud server through the internet.



# HORIZON Dispatch



The HORIZON PoC service supports HORIZON Dispatch, a powerful web-browser based dispatch application (for an additional low-cost license fee).

HORIZON Dispatch supports instant group calling as well as individual calling. Dynamic groups can be quickly created with a simple list selection or geographically by selecting an area on the dispatch map. HORIZON Dispatch leverages the GPS built into Hytera PoC devices for tracking of driver locations and travel routes with time stamps. The dispatcher may stun (disable) and reactivate a radio, and receive and transmit emergency calls and text messages. HORIZON Dispatch includes comprehensive record storage and reporting of call logs, and messages, along with emergency, geofence boundary, and speeding alarms.



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