P25 IP

Harris VIDA® Solution

As a mission critical wireless network user you may need a system that provides more than just voice communication. You may need to interoperate seamlessly with neighboring federal, state and local agencies. You may need a solution that provides sophisticated features with lower maintenance and operating costs that is easily scalable to meet changing requirements over time. Or you may want the freedom to choose between multiple vendors for subscriber radios, dispatch consoles or other network devices. The Harris P25IP system meets these needs by combining decades of Land Mobile Radio (LMR) experience with industry standard IP network technology to deliver P25 standards with many enhanced capabilities.

a single, cost-effective IP-based network that is reliable, scalable and secure

High Reliability

Harris has developed the P25IP system to meet and exceed the P25 standard. The Harris P25IP system delivers the high reliability that mission critical users demand by including multiple levels of fault tolerance to ensure no single point of failure. Examples of Harris' fault tolerant design philosophy include:

- High-availability redundant network switches (with optional geographic separation) to ensure reliability and survivability
- Modular station design to deliver easy troubleshooting and repair
- Automatic critical database backups at each site to provide uninterrupted local communications even if IP links are disrupted

The "Power of IP"

Harris combines the Project 25 standard with the advanced functionality of the IP-based VIDA Network, creating the enhanced P25IP solution. The end result is a single, cost-effective IP-based network that is reliable, scalable and secure while providing communications interoperability with neighboring agencies.

APCO Project 25 (P25)

Association of Public-Safety Communications Officials International (APCO) Project 25 is a suite of digital LMR standards created and developed by public safety professionals, for public safety professionals. P25 specifies a number of "interfaces" between different system elements including the Inter Subsystem Interface (ISSI) and the Common Air Interface (CAI). These standard interfaces are necessary to achieve 25's most important goal – Interoperability.

One of the first interfaces defined by P25 was the CAI, the air interface or wireless link between a user radio (portable or mobile) and a transmit/receive site. Radios equipped with the P25 CAI can operate on P25-compliant systems from multiple manufacturers providing users with the freedom to choose between different manufacturers' equipment. By supporting the P25 CAI and ISSI, Harris' P25IP system supports competitive procurements.

Interoperability

The Harris P25IP solution provides interoperability at the network level, with Project 25 ISSI and NetworkFirst™, or at the subscriber level by incorporating multimode radios like the Unity® family of full-spectrum radios.

Interoperability: Project 25 ISSI

The Harris P25IP system supports the Project 25 ISSI, allowing the connection of multiple Project 25 networks, even those from other suppliers. Through this use of industry standard interfaces, continuous interoperability can be established among agencies operating with disparate radio systems, technologies or radios.

Interoperability: NetworkFirst

The Harris NetworkFirst solution provides on-demand interoperability with non-Project 25 legacy equipment, such as other manufacturers' systems, regardless of frequency band. NetworkFirst utilizes Interoperability Gateways, dispatch consoles, and network management systems to interface with legacy equipment thereby maximizing the use of existing equipment. Plus, NetworkFirst eliminates the need for dispatchers to manually create multi-agency incident response talk groups. It provides a permanent, cross-band, multi-agency interoperability solution.

Interoperability: Multimode Radios

Harris P25IP terminals, using the P25 CAI, provide maximum flexibility because they can operate on Harris P25IP systems or on Project 25-compliant systems from other manufacturers. In addition to P25IP, Harris' multimode radios support several different wireless protocols including OpenSky®, OpenSky2®, EDACS® and analog conventional.* This multimode capability allows customers to migrate from legacy systems to P25IP systems gradually, as permitted by agency budgets.

*Visit pspc.harris.com for more details.

P25IP PRODUCTS

PORTABLES

- Provide multimode operation
- Robust mechanical package
- Digital voice and data

MOBILES

- Provide multimode operation
- Over-the-Air programming
- Flexible mounting options

BASE STATIONS

- Modular design
- Proven technology
- Supports multiple band splits

P25IP from Harris:

Standards-based network for Public Safety and Professional Communications.

HARRIS assuredcommunications®

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