

SMARTCONNECT

STAY CONNECTED TO YOUR LIFELINE

YOUR RADIO WILL AUTOMATICALLY SWITCH P25 COMMUNICATIONS TO THE BROADBAND LTE SYSTEM WHEN LMR IS UNAVAILABLE.

DETAILS

Your LMR radio system is designed for excellent coverage, but there are times when you need to go beyond the boundaries of the network, without losing your vital connection.

That's why we designed SmartConnect. The feature automatically switches your voice channel to an LTE broadband network whenever LMR is unavailable or falls below RSSI, then back again when you return coverage on your APX NEXT[™] family of radios.

The switchover is fast (typically less than 3 secs), and requires no user intervention. P25 is sent over LTE unchanged, so radio functionality and voice quality are maintained.

Switchover RSSI threshold can be configured through RadioCentral[™], but LMR is always prioritised. Talkgroups are configured individually to enable or disable SmartConnect. The system supports a maximum of 200 simultaneous calls.

The radio indicates that SmartConnect is active by showing blue bars on the top and front displays, and by using a different talk-permit tone.

BENEFITS

- First responders can stay connected to the radio network even when they are outside radio coverage.
- No special behaviour or commands are required: switchover is automatic.
- There is no requirement to manage a separate set of talkgroups and configurations.

COMPATIBLE PRODUCTS

APX NEXT

DEPENDENCIES

- ASTRO[®] 25 trunked system, system release: 7.17 or later.
- Radio Firmware: R01.00.00 or later.

INFRASTRUCTURE IMPACT

Core expansion including LMR Multicast Proxy Server (LMP), firewall and internet access must be installed. Please speak with your account executive for details.

SECURITY

Voice information is sent over the broadband network as P25 packets, complete with end-to-end encryption. Control signals between the radio and gateway are encrypted using TLS.

DELIVERY

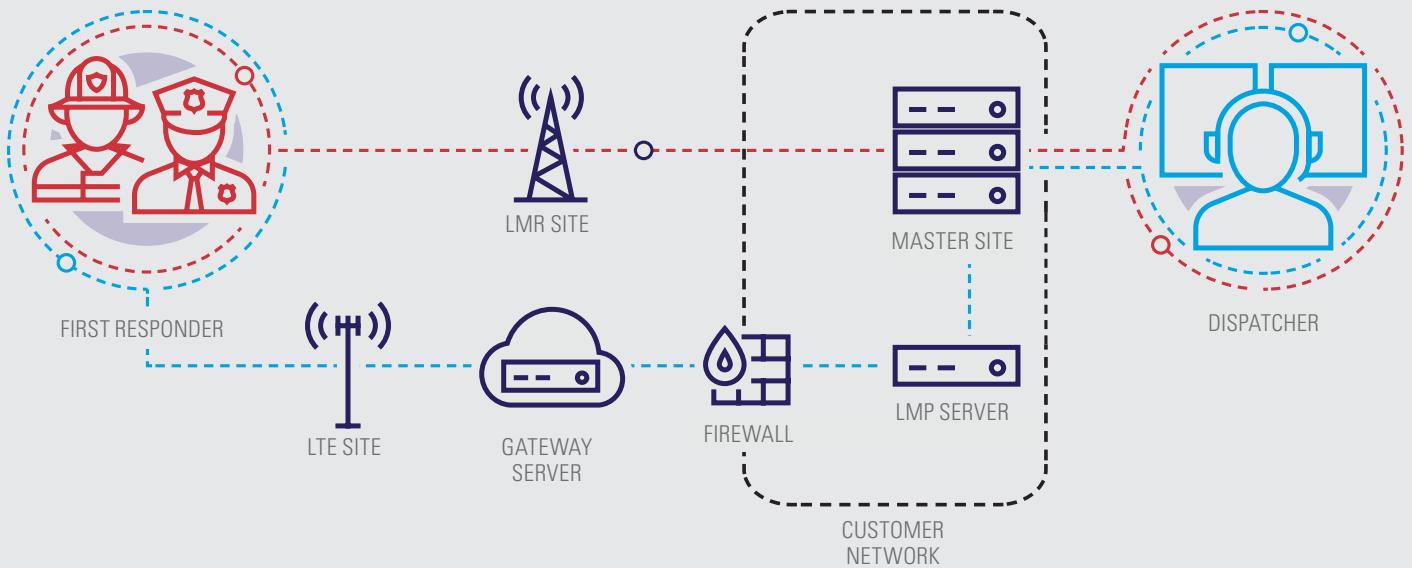
SmartConnect is purchased as an application service and is charged per radio per month. Please speak with your account executive to learn about payment options.



FIRST RESPONDERS
CAN STAY CONNECTED
TO THE RADIO
NETWORK EVEN WHEN
THEY ARE OUTSIDE
RADIO COVERAGE.



NETWORK ARCHITECTURE



USE CASES

INDOOR COVERAGE

Radio coverage can become spotty deep inside large buildings – including office buildings, schools, and hospitals. With SmartConnect, first responders can leverage broadband LTE to maintain coverage when responding to incidents – keeping them safe and connected.

DEADSPOT MITIGATION

While LMR systems are designed to provide the best coverage possible, there is always a possibility of a “dead spot.” SmartConnect enables first responders to seamlessly transition to broadband LTE – bridging coverage and maintaining connectivity.

NATIONWIDE COVERAGE

Sometimes first responders are called to assist with a mutual aid incident or travel beyond their agency borders. Using LTE, SmartConnect allows them to connect back to their home dispatcher. First responders are now able to react faster and use network resources more efficiently.

*APX NEXT radio family does not currently support SmartConnect on WiFi networks.

P25 FEATURES SUPPORTED*

- Agency Talkgroups
- Call Alert
- Dynamic Regrouping (Reprogramming Request)
- Emergency Call and Alarm
- FDMA/TDMA to/from LMR Systems
- Group Call (Clear/Encrypted)
- Group Regrouping
- Multigroup
- Priority Monitor Scan
- PTT ID
- Radio Authentication
- Radio Check
- Radio Inhibit/Uninhibit
- Radio Interrupt/Console Takeover
- Status Update
- ViQi Virtual Partner

For more information, please visit
motorolasolutions.com/apx-next-story



APX NEXT