Seamless voice handover

Voice communication across networks

Your MOTOTRBO™ DMR 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.

Seamless Voice Handover maintains your voice communications by automatically switching to broadband when your radio signal fades, then back again when you return to coverage on your MOTOTRBO Ion radios.

The handover requires no user intervention. Ion will intelligently switch between DMR and broadband depending on user preferences and signal strength, maintaining functionality and voice quality. Authentication, status, talkgroups, and encryption are all preserved, without interruptions or resets.

Handover received signal strength indicator threshold can be configured through RadioCentral™, but DMR is always prioritised. Talkgroups are configured individually to enable or disable Seamless Voice Handover. The system can support up to a maximum of 200 simultaneous calls[1].

Dependencies

- Capacity Max or Capacity Plus (single or multi-site) DMR infrastructure
- WAVE PTX Radio Gateway (WRG)
- RadioCentral (RC) or Radio Management (RM)
- ESU Launchpad
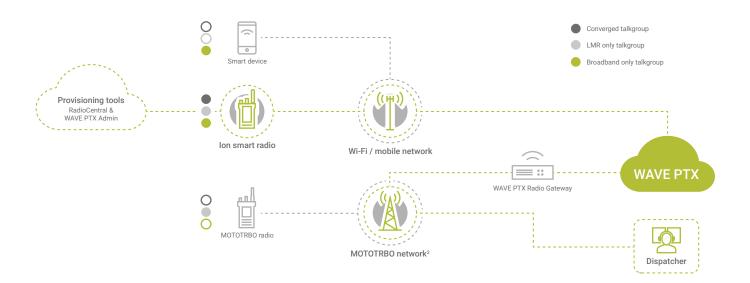- Ion WAVE PTX SafeGuard License

Benefits

- Radio users can stay connected to the radio network even when they are outside radio coverage
- No special behaviour or commands are required: handover is automatic
- Automatically mitigate dead zones on and off-site
- Consistent voice quality and loudness between networks

Delivery

- Seamless Voice Handover is a subscription service per device. Please speak with your authorised Motorola Solutions representative to learn about payment options.

MOTOROLA *SOLUTIONS*

MOTOTRBO Ion broadband-LMR integration

Provisioning tools
RadioCentral &
WAVE PTX Admin

Smart device

Ion smart radio

Wi-Fi / mobile network

WAVE PTX Radio Gateway

WAVE PTX

MOTOTRBO radio

MOTOTRBO network[2]

Dispatcher

- Converged talkgroup
- LMR only talkgroup
- Broadband only talkgroup

Use cases

Nationwide coverage

When users need to roam between sites, for example, a maintenance technician driving between two manufacturing plants, or hotel staff traveling between properties, Seamless Voice Handover allows them to connect back to their home network.

Dead spot migration

While MOTOTRBO systems are designed to provide the best coverage possible, there is always a possibility of a "dead spot" for instance deep inside large buildings, including factories, schools and hospitals. With Seamless Voice Handover, users can leverage broadband to maintain coverage when roaming inside larger buildings, or new buildings where radio infrastructure has not been implemented, but Wi-Fi or LTE coverage exists.

[1] Dependant on the WAVE PTX Radio Gateway hardware setup.

[2] Capacity Max or Capacity Plus (single or multi-site).

To learn more, visit: **motorolasolutions.com/ionradio**

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