CONTROL STATION CAPABILITY GUIDE: MOTOTRBO™ XPR 5350e / 5550e

For integration with MOTOTRBO™ radio systems, the InterTalk Dispatch Console System (InterTalk DCS) and Enlite Cloud-Ready Dispatch System support a wireless control station interface utilizing XNL/XCMP protocols to access these systems through the use of the Sentinel IP Radio Gateway. The Sentinel IP Radio Gateway bridges the subscriber radio to the ILS core over the customer's WAN/LAN infrastructure, supporting both conventional and trunking operating modes.

CAPABILITIES

In addition to standard console features, InterTalk DCS and Enlite support the following for MOTOTRBO™ control station endpoints:

Capability	Supported	Description
Interface Method	✓	Enlite interfaces with MOTOTRBO XPR 5350e and 5550e control station radios via the Sentinel IP Radio Gateway using an XNL/XCMP protocol over an IP-over-USB connection. Supports conventional and trunking modes.
Channel/Frequency Change	✓	Allows dispatchers to remotely change the channel or frequency of the donor radio from the console, and supports up to 99 channels.
PTT-ID/ANI Alias	✓	Identifies the portable radio transmitting from the field. Aliases configured via the ILS Contacts list display names in place of raw hex IDs. Requires minimum radio firmware **R02.20.02.0002**.
Emergency Calls/State	✓	Detects emergency broadcast events when a subscriber transmits while in emergency state. Requires radio configuration set to "Emergency Alarm with Call" so that a PTT transmission and associated unit ID are sent to the console.

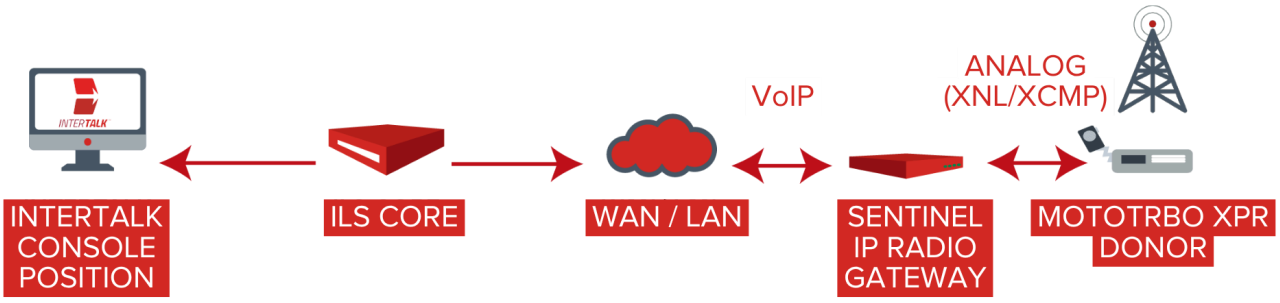
Standard Console Features	✓	Select, Unselect, Multi-Select, Patch, and Mute; all standard dispatch console features are retained.
Scalability	✓	Systems using Sentinel with the XPR 5350e and 5550e control stations are scalable from 1 to unlimited console positions. Each endpoint supports up to 99 separately defined channels.
Redundancy	✓	Redundant configurations are supported using two base stations and two Sentinels. The ILS core manages command and audio routing so only one controller is active at a time, with automatic failover to the secondary when contact with the primary is lost.

SCALABILITY

InterTalk DCS and Enlite systems using a Sentinel IP Radio Gateway with a MOTOTRBO XPR 5350e, 5550e Series control station radio are scalable from 1 to UNLIMITED console positions. Each endpoint can have up to 99 separately defined channels.

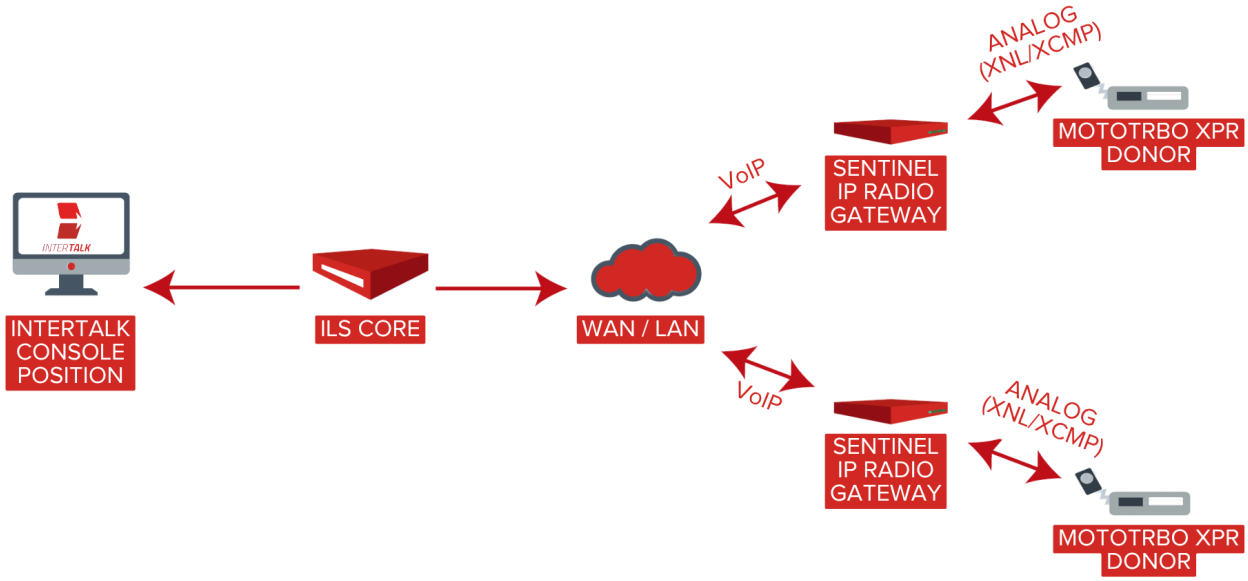
CONNECTIONS

InterTalk's ILS connects to MOTOTRBO™ XPR 5350e, 5550e control station radios using the Sentinel IP Radio Gateway, utilizing an IP over USB connection supporting XNL/XCMP and a 4-wire connection for remote base/control station fixed installations.



The diagram above shows the setup of the MOTOTRBO™ Control Station interface with the InterTalk DCS or Enlite via the Sentinel, providing connectivity to a MOTOTRBO™ radio system.

InterTalk DCS / Enlite and ILS also support redundant configurations using:



In both cases, the dispatch console system presents a single endpoint to the dispatcher. The ILS core manages the routing of commands and audio so that only one of the controllers is active at any one time. The second controller takes over only when contact with the primary controller is lost.

SOFTWARE LIFECYCLE AND RELEASE CADENCE

InterTalk is committed to the long-term support of the MOTOTRBO XPR 5350e & 5550e donor radio interface. The following summarizes our release and support model:

- Major ILS software releases incorporating new capabilities are issued several times per year. Minor patch releases are issued as required to address specific issues or field-reported defects.
- The donor radio interface is updated as part of the broader ILS and Sentinel firmware release cycle. Each release undergoes testing that specifically includes the donor radio interface, providing ongoing validation against the XPR 5350e & 5550e hardware.

- The Sentinel IP Radio Gateway firmware has reached its 7th release (v3.26.0, May 2026), reflecting an active and sustained development history since initial deployment.
- The MOTOTRBO XNL/XCMP donor radio integration has been in active development since 2020, with the architecture subsequently generalized into a multi-vendor donor radio framework supporting Tait, Kenwood, and L3Harris platforms in addition to Motorola.
- InterTalk's ServiceFirst support program provides ongoing technical support for deployed systems, including access to software updates, defect resolution, and interface compatibility maintenance.