

CONTROL STATION CAPABILITY GUIDE: TAIT TM9400

Offering multi-protocol support, InterTalk’s integration with Tait control station radios not only meets the needs of the business and industry (B & I) market but also meets current and future interoperability requirements for public safety.

The InterTalk Dispatch Console System (DCS) interfaces to Tait TM9400 radios using the Sentinel IP Radio Gateway to enable standard InterTalk DCS console features for control station endpoints.

CAPABILITIES

InterTalk uses a wireless console interface with a connection to the Sentinel IP Radio Gateway. The console communicates with TM9400 control station radios through a Sentinel endpoint. In addition to standard InterTalk DCS features such as Select, Unselect, Multi-Select, Patch, and Mute, InterTalk DCS supports the following for TM9400 control station endpoints.

FEATURE MATRIX

Capability	Analog	P25 Conv.	P25 Trunked	Description
Channel/Frequency Change	✓	✓	✓	Allows a dispatcher to change the channels or frequencies of the connected device. The interface supports up to 16 channels or frequencies, depending on the characteristics of the radio system.
Zone Select	✓	✓	✓	Allows an InterTalk DCS Administrator to configure a zone when defining a channel to allow a dispatcher to use multiple zones and channels in the radio equipment.
PTT ID / Alias	✓	✓	✓	Gives a dispatcher a visual indication of the identity associated with the last voice transmission. An identity can represent the raw subscriber unit ID (PTT-ID) or an alphanumeric string representation of it

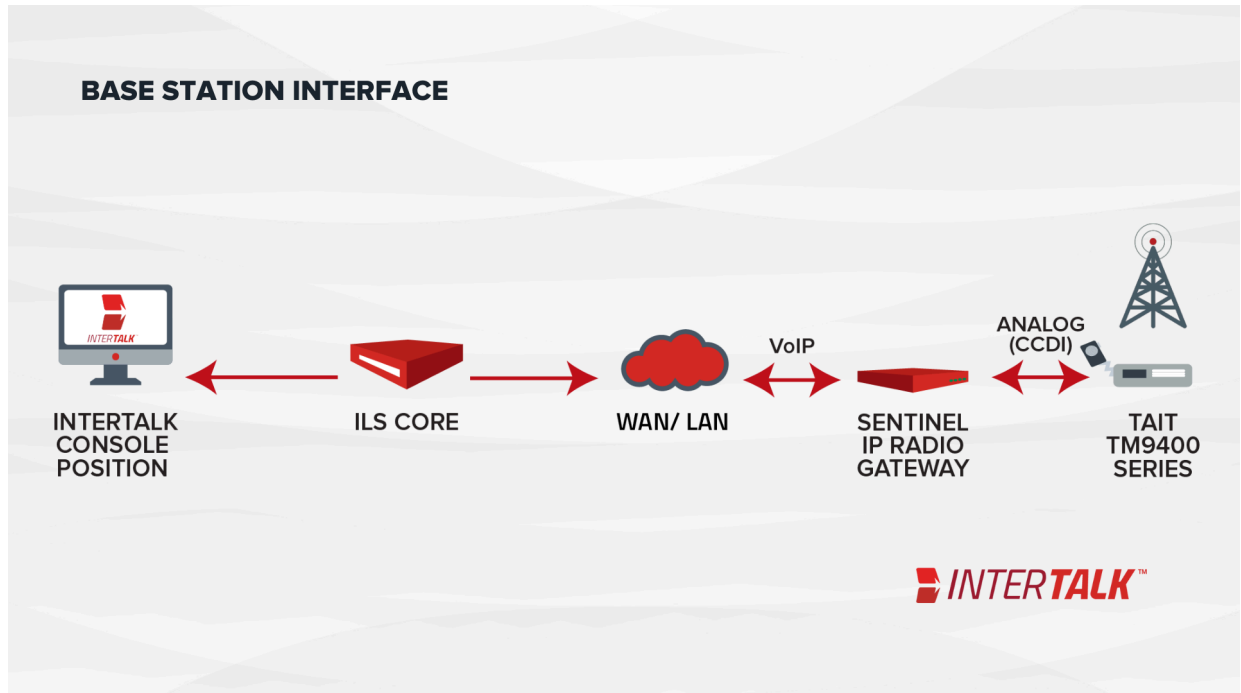
				(ANI Alias). The identity can display in the Activity History and on the associated endpoint pad using the ANI pad extender. For example, a PTT ID of 2225 can be aliased to “Police 1.”
Emergency Calls/State	✓	✓	✓	Notifies a dispatcher of an emergency situation in the field using a unique ring and visual indication. When a subscriber presses the emergency button or dials the emergency DTMF string, the endpoint generates an emergency call and activates the emergency state. Until the emergency state is cleared, no further emergency calls from that subscriber can generate an Emergency Call.

SCALABILITY

InterTalk DCS using Sentinel with a TM9400 control station radio are scalable from 1 to unlimited console positions. Each IP Radio Gateway can have up to 16 separate channels available to the InterTalk DCS.

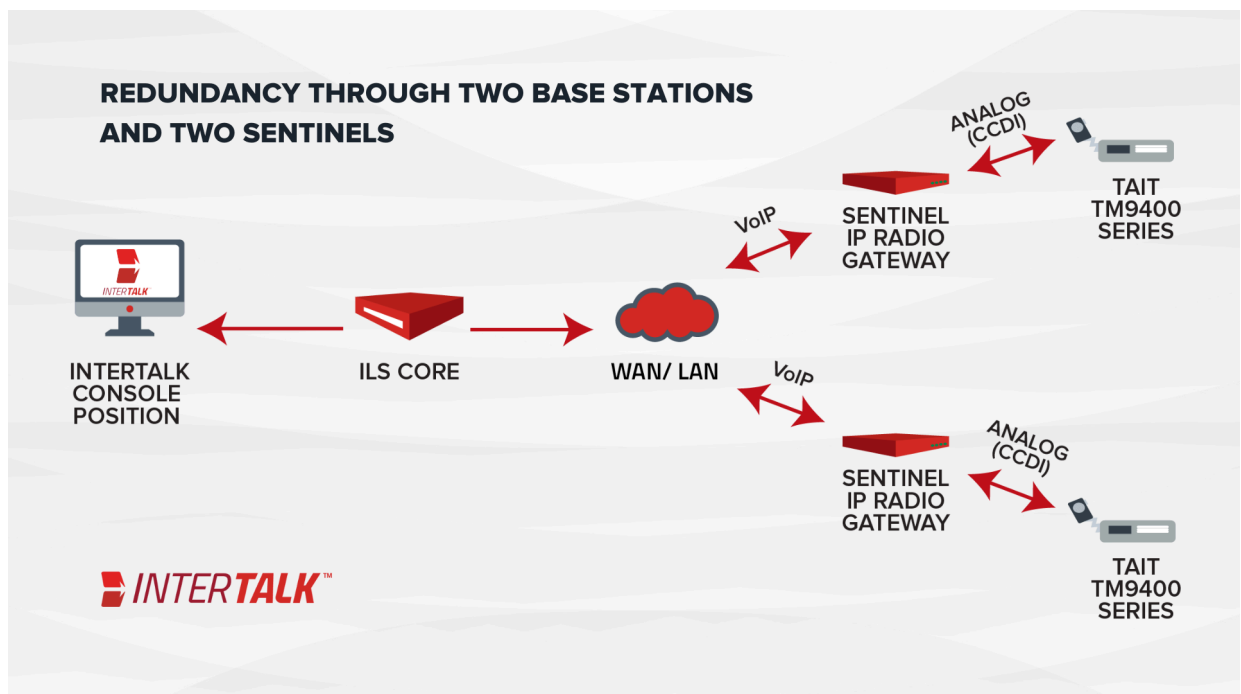
CONNECTIONS

The Tait TM9400 mobile radio is interfaced with a Sentinel IP Radio Gateway via USB and 4-wire connection for remote base/control station fixed installations. InterTalk DCS communicates with these radios in analog and P25 modes. A DB-15 serial to USB cable between Sentinel and the radio is used to pass control signals.



The diagram above shows the Tait TM9400 Control Station interface setup with the InterTalk DCS via the Sentinel, providing connectivity to a Tait TM9400 radio system.

InterTalk DCS and ILS also support redundant configurations using:



In both cases, the InterTalk DCS presents a single endpoint to the dispatcher. The ILS core manages 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.



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