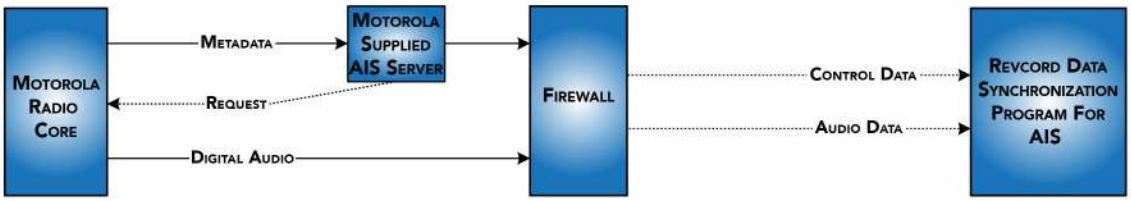
REVCORD RADIO SOLUTIONS

TRUNKING RADIO SOLUTIONS

The Recording of a Trunked Radio ID System can be summed up in one sentence. Trunked Radio ID Integration is the process of synchronizing Audio Traffic (radio traffic) and Radio Control Data. It is that simple. The tricky part is receiving that data. Outlined below are the four industry standards on receiving this Data/Traffic along with Revcord's solution.

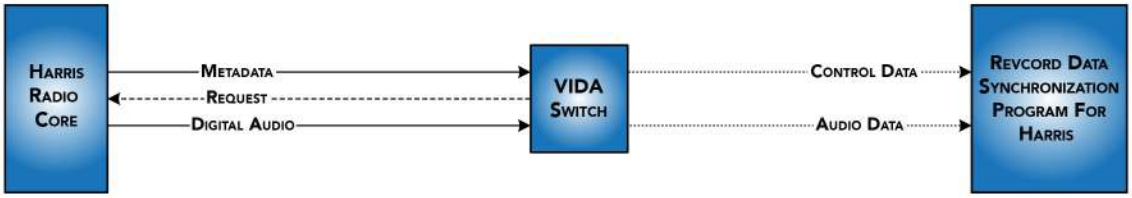
THE MOTOROLA RADIO ID INTEGRATION SOLUTION

Motorola uses an AIS server which acts as a gateway for the Control Data and a router for the Audio Traffic. The Control Data is sent to the recorder via network TCP and the Audio Data is sent via network UDP. Revcord has a



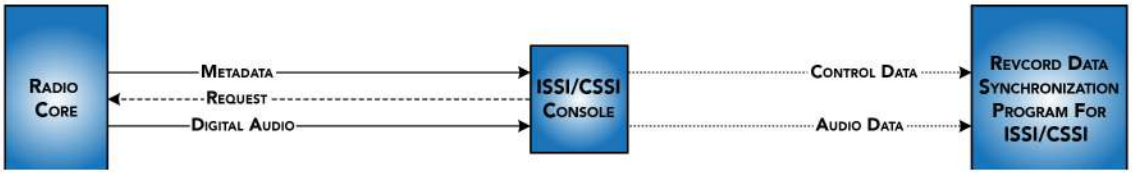
THE HARRIS RADIO ID INTEGRATION SOLUTION

Harris uses its VIDA switch which is effectively a network switch to provide for the Control Data and the Audio Traffic. The Control Data and the Audio Traffic is sent via network UDP. Revcord is an approved vendor for the Harris Radio ID Integration and has reference sites.



THE OPEN APCO STANDARD RADIO ID INTEGRATION SOLUTION – ISSI/CSSI

This open standard is provided as an alternative by both Motorola and Harris. It is also the standard for many other radio companies such as EF Johnson. However, both Motorola and Harris do not provide full functionality to the open standard. The Control Data and Audio Traffic is sent via UDP through a network switch on the Radio Network.



REVCORD

MULTI-MEDIA LOGGING SYSTEMS

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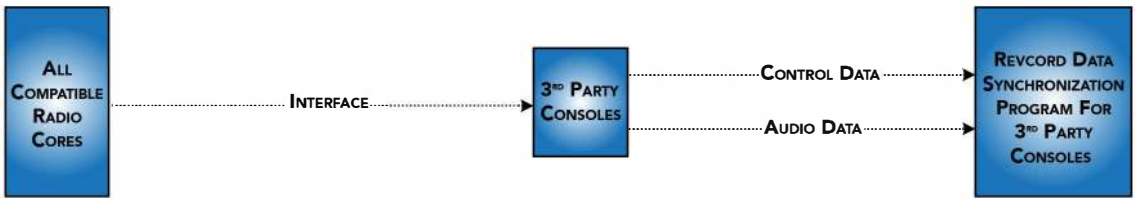
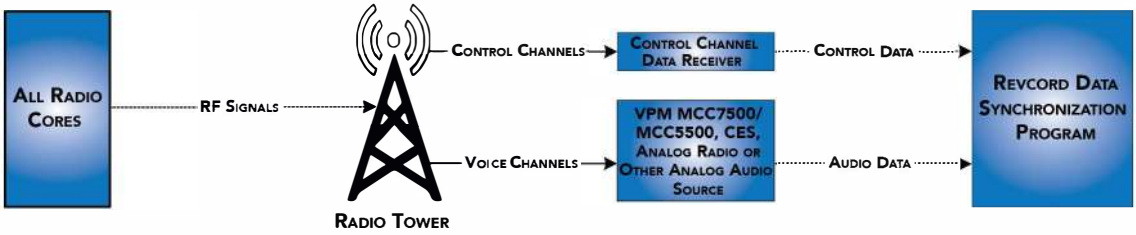
THE THIRD PARTY CONSOLE RADIO ID INTEGRATION SOLUTION

Most third party console manufacturers that tie into the various Cores of Motorola, Harris, EF Johnson and others that have performed the integration necessary to provide for the Radio ID information. Revcord has integrations with the most



THE REVCORD RADIO ID INTEGRATION SOLUTION

Revcord relies on Control Data, either through a tower and a Control Channel Receiver, or through an ATIA data feed for when multiple sites are involved. Revcord is dependent on having analog channel audio feeds. With the advent of the MCC7500, this cost Has come way down compared to buying a radio resource for each analog channel. This is by far the most economical solution in the marketplace today.



METHODS OF REVCORD'S RADIO ID INTEGRATION

METHOD 1 - TALK GROUP RECORDING

- Install a radio with desired talk group selected.
- Control channel receiver provides associated metadata.
- Independent of protocol (P25 Phase I/Phase II, SmartNet/SmartZone, EDACS).
- Radio also provides the needed encryption key.

METHOD 2 - FREQUENCY RECORDING

- Currently only available in a P25 Phase I environment.
- Control channel receiver and radios are used to monitor the control channel and the frequencies.
- Control channel receiver provides all of the metadata.
- Parsing calls by talk group ID, radio ID, or dispatch console ID available.
- Radios provide the audio from the group call based on

AUDIO SOURCES

The use of base stations, mobile, or portable radios provide the required audio directly from the tower that the field radios and consoles are using. In addition, many consoles can provide alternatives. The MCC7500 provides for excellent options. The Voice Processing Module for the dispatch console has a logging recorder port and eight speaker ports on the back. The speaker ports are provided by Motorola to send audio to other locations in a dispatch center for talk group monitoring purposes. These ports are talk group assignable and provide an analog audio feed of selected and unselected talk groups.

REVCORD RADIO SOLUTIONS

ADVANTAGES OF THE REVCORD TRUNKED RADIO ID RECORDING SOLUTION

- Avoid the purchase the AIS hardware or other wire line hardware, a separate computer in addition to the recorder.
- Avoid the costly Motorola imposed AIS license fee or other manufacturer connection fees.
- Avoid the high yearly maintenance costs charged by Motorola, other trunked radio manufacturers, and the recorder competition.
- Avoid the hassle of coordinating with outside agencies.
- Avoid the constant upgrade cycle.
- Gain a simple to understand solution that doesn't need a high priced technician to maintain.
- Gain integration between your radio recordings, your 911 phone recordings and your admin phone line recordings. One recorder does it all.
- Supports P25 (any vendor) phase 1 and phase 2 (Talkgroup Recording Only). Also supports Motorola 3600 baud trunking systems.
- Supports any configuration of trunking, system including standalone sites, cores, SmartZone and simulcast.
- Supports secure (encrypted) talkgroups.
- Supports the recording of private calls.
- Records every talkgroup call for every talkgroup using the trunking site. New talkgroups added to the trunking site are automatically recorded at no additional cost.
- Guaranteed to record all calls for monitored talkgroups. Recorder records EXACTLY what radio users hear. Single site and multi-site implementations.
- Provides local control of the recordings since all equipment is owned by you and is in your building which means no dependency or connections to outside agencies and no fees/ hassles.
- No networking bandwidth, leased line charges or agency coordination issues.

The Revcord solution records exactly what the end radio user hears . The Revcord solution is based on actual radio receivers. The recorded audio captures exactly what field radios hear including any noise, static or sounds introduced by the radio system's repeater or hardware backbone. The AIS solution records audio taken internally within the trunking system and does not represent the audio broadcast.

Revcord uses control channel data to gather radio and talkgroup IDs. The control channel is the most standardized and stable aspect of the entire trunking system. Simply upgrade the radio like every other radio in the system, and the recording will work. Revcord uses commercial readily available equipment to provide the control channel's raw data. The real
concern is for the AIS technology. When you buy an AIS integration, you are locking into an upgrade cycle. Every time Motorola releases a version upgrade or patch, there can be an upgrade to the recording system.

CONVENTIONAL RADIO ID INTEGRATION

Radio IDs is done through voice channel signaling versus a control channel for talk groups. There are two types which are MDC1200 and FleetSync. MDC1200 is used by Motorola and FleetSync supports other manufacturers like Kenwood. Traditionally this voice signaling has been decoded by hardware like a Cimarron Decoder. Revcord now provides this as a software based option which will provide the Radio IDs and the ability to create Aliases.