

## Cistera radio to radio recording can capture and document all radio to radio communications

Two-way radio networks are a cornerstone for public agencies, emergency operations and businesses around the world. Cistera R2R Recording offers organizations an efficient way to record, store, tag, easily search and retrieve radio calls. This solution provides instant recall for forensic replay and incident reconstruction, as well as quality assurance, quarantine, export, and reporting capabilities. Recorded material can be securely stored on a server, data center VM or cloud.

Cistera works with global organizations to seamlessly connect Radio Communications Networks to increase safety, compliance, audit accuracy and training opportunities.



**Cistera Radio to Radio Recording Global Installations**

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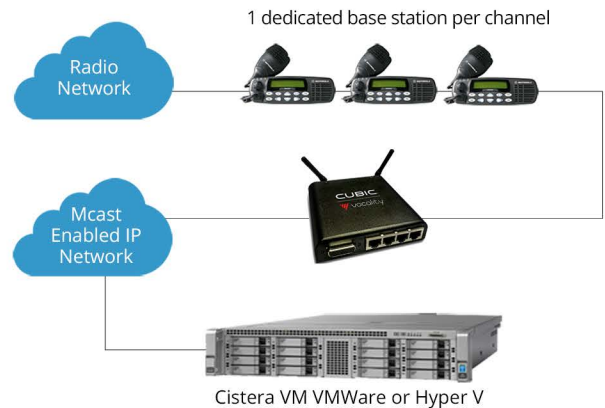
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# All-channel two-way radio recording? Sure!

Radio traffic across multiple channels can be recorded and retained for follow up, investigative requirements, or regulatory requirements (OSHA, EPA, FEMA, DHS).

Other scenarios are also supported such as recording of traffic from IP phones to hand-held radios and base stations. WAV files can be quickly located and easily downloaded by authorized users for either training or mission-critical purposes. Security is provided by permissions-based user access.

## Radio to Radio Network



## Multi-device seamless communication? No problem!

Using the latest radio-over-IP (RoIP) technology, multiple communication devices can be instantly integrated, monitored and recorded for compliance or training purposes. Having these capabilities preserves the existing two-way radio investment and enhances safety by providing a full capture mechanism to support quality assurance and compliance requirements.

## Cistera R2R Recording Radio Compatibility





# The BIG picture

Cistera's R2R Recording leverages the enterprise network platform tools of the Cistera Suite to create a framework for radio recording, monitoring, documenting and playback. This framework can scale to support the largest, most demanding environments. The platform conforms to network and technology standards, including support for legacy analog and current technology digital radios.



## the cistera suite



Real-time communications intelligence - voice recording software with screen capture for some or all calls on all devices 100% of the time



Analyze performance integrating The Cistera Suite with Microsoft Power BI, dynamic speech analytics and reporting tools



AlertIT is a feature rich tool for broadcast and scheduling within public facilities, also providing alerts and situational awareness to first responders



R2R Recording captures and documents radio to radio communications recordings in local and remote locations

### Key features of R2R Recording:

- Recording of all active channels, not just one
- Capture and retain records based on retention policies
- Search for key files based on channel, date, time of day
- Multicast recording over local and wide area networks
- Integration into Cistera's AlertIT for emergency notifications
- Multicast conferencing
- UC Platform phone environment integration
- Upgrade from Cisco IPICS
- Live monitoring of radio traffic at a desktop
- Create radio channel groups for all call requirements



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MINING & ENERGY



AVIATION INDUSTRY

# How does R2R Recording integrate with your current network?

- A dedicated base station for each channel to be monitored (Base stations are “listening only” no transmission)
- Base stations can be a repurposed spare or model no longer in use but still fully functional
- ROIP gateway radios interface with cables sold by Cistera and matched to radio make and model
- Multicast enabled network
- Optional integration with Cisco Unified Communications Manager (CUCM) and other third party unified communications platforms

Feature	Description
Unified Communications Support	Any authorized UC platform supported can participate in any talk group. Talk groups are defined as a phone to radio bridge which can include more than a single radio channel (call all)
Multicast Recording	R2R Recording will record any defined talk group at pre-defined intervals
Talk Groups	R2R Recording supports multiple talk groups per instance
Multicast Devices	There is no limit to the number of multicast devices that can be present on any given multicast address
Broadcast Integration	Radio to Radio Recording easily integrates with Cistera AlertIT, which merges the emergency alerting and notification features of AlertIT with R2R Recording
Tone Insertion	Supports wide variety of tones in multicast sessions
Protocols	SIP RFC 3261, G.711, G.729, Real-Time Transport/Real Time Control Protocol (RTP/RTCP; RFC 3550) RFC 2833 (RTP Pay- load for Dual Tone Multifrequency [DTMF] Digits Session Description Protocol (SDP: RFC 2327) Ipv4, LDAP v3, SMTP (RFC 2821) HTTPv1 Secure Sockets Layer (SSL) versions 2 and 3 Network Time Protocol (NTP v 3 and 4)
Network Connectivity and Bandwidth	VM server: two virtual 1Gbps ethernet connections