MOTOROLA SOLUTIONS

MCC 7500 IP LOGGING RECORDER SOLUTION

Panicked citizens and inundated dispatchers. First responders frantically trying to assess a situation with fragmented and conflicting information. Emergencies are chaotic. To assess performance afterwards, to get even better for the future, you need a precise record of communications and an easy way to access exactly the files needed to recreate an event.

You get it all with the MCC 7500 IP Logging Recorder developed by Motorola and NICE® Systems, Inc. for the ASTRO® 25 network.

A SEAMLESS SOLUTION CERTIFIED TO BE RELIABLE

The MCC 7500 IP Logging Recorder is a seamless, dedicated solution for the Motorola MCC 7500 IP Dispatch Console. It is the only ASTRO 25 logging recorder solution that sits on the radio system's IP network, approved for every release, and that meets all of the extensive Motorola performance specifications required to be implemented on the network. Plus, you get the uncompromising reliability and quality that are unique to Motorola.

A COMPREHENSIVE RECORD OF EVERY CALL

You get far more than just an audio recording of a conversation. Through its NICE Inform application you see all of the valuable data associated with each call: radio ID, alias, talk group, emergency alarms, supergroup dispatches, and changes to a talk group's tactical/normal selections.

FULLY DIGITAL, OPTIMAL AUDIO, AND SUPERIOR SECURITY

You can listen to recordings with the identical clarity heard by the person operating the console at the time the call came in. Audio is recorded and stored in its native vocoded format – the identical form that it passed through the radio system. This eliminates degradation and provides for optimal audio.

Integration with ASTRO 25 makes it possible to partition your archives. Multiple agencies can share a system to achieve interoperability, streamline storage and lower cost. Each department (police, fire, public works, etc.) has its own dedicated access to just the communication they need to playback.

You can achieve a high degree of security with the ASTRO 25 system and true end-to-end encryption by adding secure capability to the dispatch console and the archiving interface server.

Plus, with the MCC 7500 IP Logging Recorder you have the flexibility to provide centralized or distributed logging of conventional or trunked radio audio, its associated call information, and even some radio system events.

KEY FEATURES

Archiving Interface Server (AIS) – This is the interface that sits between your radio system and the MCC 7500 IP Logging Recorder. It makes it possible to record calls and the call related data. You need one AIS for each logging recorder. The AIS also:
- Monitors the resources you specify
- Passes call-control information to the logging recorder
- Redirects audio from monitored channels to the logging recorder

MCC 7500 IP Logging Recorder – This server stores all the call control information and vocoded audio packets associated with each call that it receives from the AIS. The system administrator specifies the talkgroups, conventional channels, etc. that are recorded so that the information can later be easily retrieved when it is needed.

Simultaneous Recording for up to 120 Calls – The MCC 7500 IP Logging Recorder has the same capacity as the AIS: it can handle up to 120 simultaneous calls including trunked talkgroups and conventional channels.

Types of Calls Recorded Include:
- Announcement group calls
- Site-wide group calls
- Talk group calls
- Analog and digital conventional calls via a digital conventional channel gateway
- Emergency on trunking/digital conventional
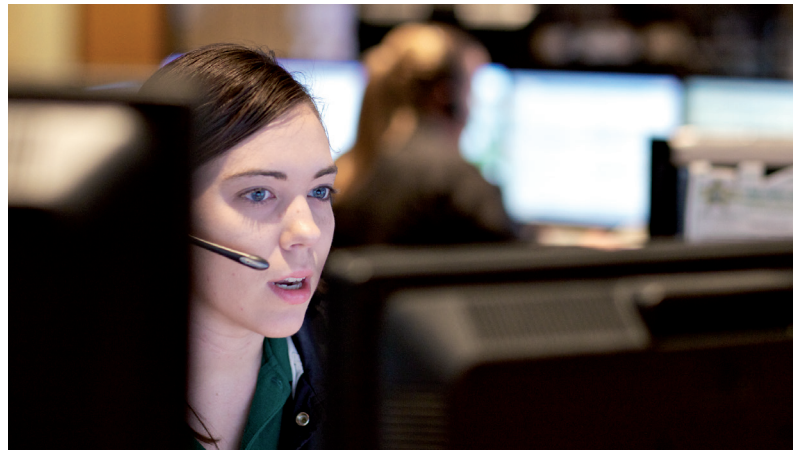
Information captured for every call includes:
- Date and time stamp
- Type of call with ID and alias (if applicable)
- Unit ID of the device originating the call
- Unit ID alias of the device originating the call
- Site ID where the call originated
- Zone ID where the call originated
- Secure on non-secure call designation announcement group calls

Dispatcher-initiated events recorded include:
- Call alert
- Emergency alarm
- Emergency acknowledge & knockdown
- Repeat control
- Resource status
- Talk group priority status
- Main/Alternate status
- Frequency control

NICE INFORM RECONSTRUCTION APPLICATION

Your NICE Inform application resides on a conventional PC to become the Replay Workstation. Here is where recorded audio is devocoded, converted to analog and played back.

The audio you hear has the identical sound quality as that heard originally at the MCC 7500 IP dispatch console. This is because NICE Inform supports all the vocorders used in the system and uses the same error mitigation techniques.

You can save a call on the replay station as a complete call (with audio and any associated data) or as a simple .wav file. And user replay accounts can be configured by agency to further expand the partitioning functionality.

Audio and events which have been recorded by the logging recorder(s) are accessed via the browser based Inform application. A state-of-the-art multiple channel search and replay tool, Inform is the standard solution for the MCC 7500 IP Logging Recorder providing the ability to seamlessly retrieve audio and associated call data from radio and telephony recorders. It provides enhanced flexibility for replay across different networks. Presented in a graphical time-line view, the search results can be broken down by individual channels, talk groups, or unit ID's. Filters are the key to this simple, yet powerful, call and data retrieval. Within each filter, multiple criteria including date and time ranges, single or multiple Radio ID's or Alias', Talk Groups, or even Multi-group (Patch/Multiselect) can be selected to refine searches.

Once retrieved, replay controls enable play, pause, stop, skip, variation of replay speed, Automatic Gain Control, play markers to isolate a specific section, and a variety of other options can be used to analyze the calls and data. For a more detailed analysis or for evidential purposes, scenarios may be output to electronic files as either standard .wav files or as secure files. Centralized system and user administration makes managing the system simpler. It also includes system event tracking through a comprehensive audit feature. Inform provides the ease of use and flexibility required in the field. With its intuitive GUI, powerful filtering capabilities, file output capabilities and centralized management, users get the information they need for analysis, investigation, and evidence both quickly and easily.

ADMINISTRATOR APPLICATION

The logging recorders and replay workstations are configured and managed by the NICE Administrator. This application resides on the replay workstation and enables you to configure all system resources including users, user replay security, loggers and databases.

The system administrator can:
- Determine talk groups and conventional resources to be recorded
- Identify the secure and non-secure calls to be recorded
- Prioritize talkgroups and conventional resources to determine which calls to keep when capacity limits are exceeded
- Assign access rights for replay station user accounts
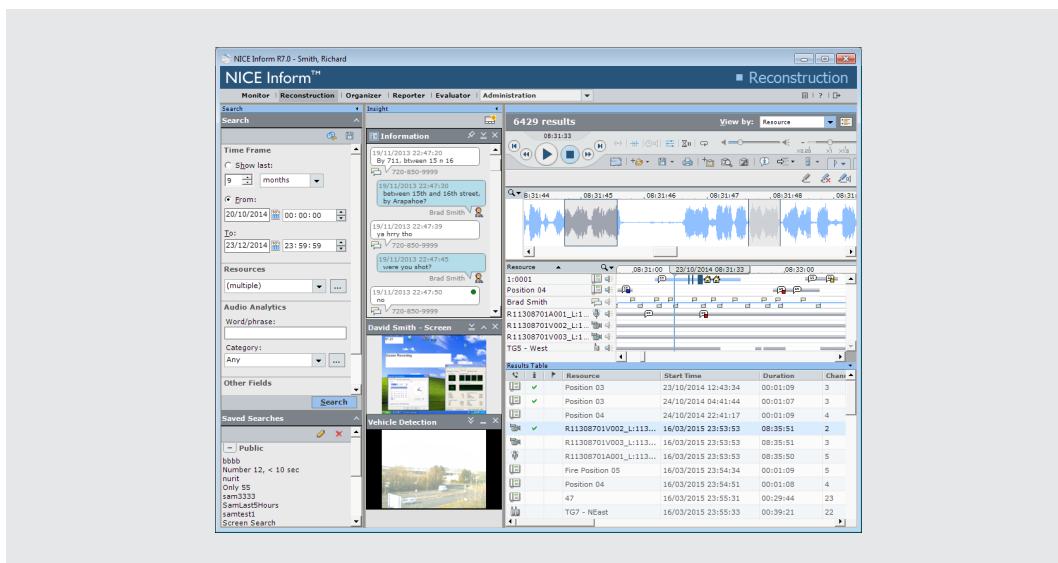
SPECIFICATIONS

The MCC 7500 IP Logging Recorder solution uses two G9 servers running on Intel® Xeon® Processor servers with two logical drives in a RAID 1 array configuration on the primary recording server and four logical drives in a RAID 1 array configuration on the storage server. This provides up to 500,000 on-line channel hours, 6 hot plug redundant fans, redundant hot plug power supplies and a Windows™ Server. It is scalable to add capacity with the purchase of additional call licenses.

MCC 7500 IP Logging Recorders:

- TT2668 10 Simultaneous Call Audio and Event Archiving Recorder

- TT2669 120 Simultaneous Call Audio and Event Archiving Recorder

- TT05784AA 10 Simultaneous Call Capacity Increase (Up To 120 Max)

MCC 7500 Redundant IP Logging Recorders:

- TT05782AB Redundant 10 Simultaneous Call Audio and Event Archiving Recorder

- TT05783AB Redundant 120 Simultaneous Call Audio and Event Archiving Recorder

- TT05785AA Redundant 10 Simultaneous Call Capacity Increase (Up To 120 Max)

Vocoder Algorithms Supported

Different vocoder formats are used: IMBE (4.8 kb/s) in ASTRO 25 systems 7.5 or earlier and AMBE+2 in 7.6 and later, ACELP (5.1 kb/s) in Dimetra® systems and G728 (16 kb/s) for conventional calls.

TECHNICAL SPECIFICATIONS*

	IP RECORDER HP® DL360 G9
Size (H x W x D)	1.7 x 17.1 x 27.5 in
Weight (Typical Configuration)	32 – 42.3 lb
Rated Line Voltage	100 TO 240 VAC
BTU Rating	1979 BTU/hr (@100 VAC)
Power Supply Output	Steady State Power: 500 W (@ 100 to 240 VAC) Max Peak Power: 500 W (@ 100 to 240 VAC)
Standard Operating Support	Temperature Range: 50° to 95° F Relative Humidity: 8% to 90%

* Specifications are subject to change.

To learn more about MCC 7500 IP Logging Recorder, contact your Motorola representative or visit **motorolasolutions.com/dispatch**

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