

Glossary of paging terms

AMI Format: (Advanced Messaging Interface) A format used to send CALEA intercept data from the paging carrier to the LEA AMI Server.

AMI Server: A computer used by the LEA to receive AMI messages from the paging carrier.

CAPCODE: The digital address assigned to the pager.

FORMAT: The over-the-air protocol used by the digital pager. Examples are: FLEX™, POCSAG, Golay, ReFLEX™.

SSL: (Secure Socket Layer) A form of 128 bit encryption used over the Internet to protect data moving between two computers.

Paging Carrier Security Contact Information:

Developed by the Paging Technical Committee of the AAPC



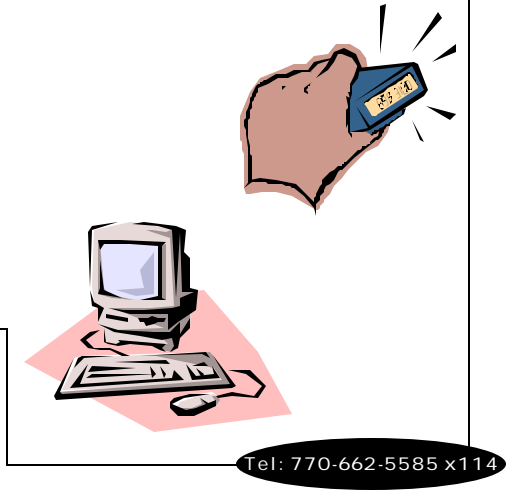
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What you
need to
know about
paging and
CALEA

*A guide for Law
Enforcement Agencies*



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Paging and CALEA

The paging industry is fully compliant with the regulations regarding its responsibilities as a common carrier under Communications Assistance to Law Enforcement Act (CALEA). Under the law, each licensed paging carrier in the USA is to provide a way to monitor the message content of specified subscribers and deliver that content to an output port for collection by an authorized Law Enforcement Agency (LEA). We, as responsible members of this industry, have complied with the requirements of the law and are ready to assist the LEA in their execution of a lawful court order for intercepted message content.

To comply with the law the paging carrier requires a copy of a lawful court order under which it will act.

Depending on the type of pager involved, the LEA will receive the intercepted data "off-the-air" or via the Internet. The necessary equipment must be provided

by the LEA as the paging carrier's responsibility is to deliver it to a port, not collect the intercepted message content. Most carriers do not have the ability to retain message traffic.

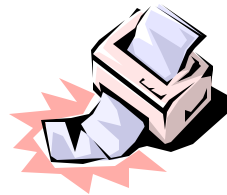


A lawful court order must be provided to the carrier

What is needed:

Court order

In most jurisdictions a court order authorizing the interception is required. This is presented to the Security Officer of the paging carrier who will arrange the provision of the needed data. The order must specify the start and end date of the surveillance period. Many paging carriers will automatically stop the data at the prescribed end of the order period. If you get an extension, you must present the modified order to the paging carrier to keep the data flowing.



The LEA provides the collection equipment

1-way pagers

For 1-way pagers, numeric or alphanumeric, the CALEA Standards call for interception "off-the-air" either using a pager programmed to the same frequency and capcode of the targeted pager (Clone) or with the use of an interception system (AIRNET32). In either case, it will be necessary to obtain the frequency and capcode information of the targeted pager from the paging carrier, or via other means.

2-way pagers

It is not practical to intercept 2-way pagers "off-the-air" because the signals that they send into the network are very weak and very short. You would have to be close to the pager to receive information. The best place to intercept 2-way signals is at the paging company switch. The carriers supporting 2-way paging have installed a

CALEA AMI delivery system to send the required data to the LEA. This is done via an SSL (encrypted) connection over the Internet.

The data is sent from the paging carrier to the LEA each time the targeted pager receives or sends a message. It is the responsibility of the LEA to have a CALEA AMI Server on-line and ready to receive the intercepted data. The paging carrier does not store any intercepted message data.



Info is delivered via the Internet

In addition to message content the AMI format can deliver source, destination, time, message serial number and in some systems, approximate location of the pager. Not all paging carriers can provide the same information. However, the data available in the case of a 2-way pager is significantly more than what you might get from a 1-way intercept. It is also possible, with some carriers, to intercept the content of Voicemail and FAX messages sent to the targeted subscriber. The CALEA AMI system is designed to handle each of these types of content if they are available from the paging carrier's switch.

This information applies only to paging carriers who offer true paging services. RIM, Mobitex and Motient are data services and are not subject to CALEA compliance at this time. SMS is a Cellular/PCS service subject to CALEA intercept via their respective carriers.