TETRA
Recorder

PMR recording, playback and interception
Secure and reliable management of voice and data communications

TETRA networks are utilized by organizations that rely on highly sensitive voice and data transmissions to operate efficiently, such as law enforcement agencies or transportation authorities. For later review or to meet legal requirements, these voice communications, data messages as well as communication and location based information must be recorded, no matter whether they are encrypted or not.

As a result, large and heterogeneous data volumes have to be efficiently ware-housed, managed and distributed with the same level of security that distinguishes TETRA networks.

TETRA Recorder (TR) fully meets these requirements. It is the only system worldwide that features the end-to-end encryption of TETRA communications during recording and playback, guaranteeing the required level of security and privacy at all times.

Communications are stored directly on local recorders, thus less bandwidth is utilized during ongoing operations and the performance of your TETRA network is not impaired. The call-relevant metadata, such as the type of call, time of day, and date, is kept in a separate location, which significantly enhances security.

The communication data and associated metadata can be accessed only from an authorized playback client. TR gives your operators various filters to search the metadata and subsequently reconstruct even complex virtual call events. Additionally, it allows real-time interception and monitoring of voice and data communications.

Thanks to its modular architecture, TR easily integrates with your digital radio network over secure IP-based network connections. It is highly scalable and extendable to grow with the size of your network.
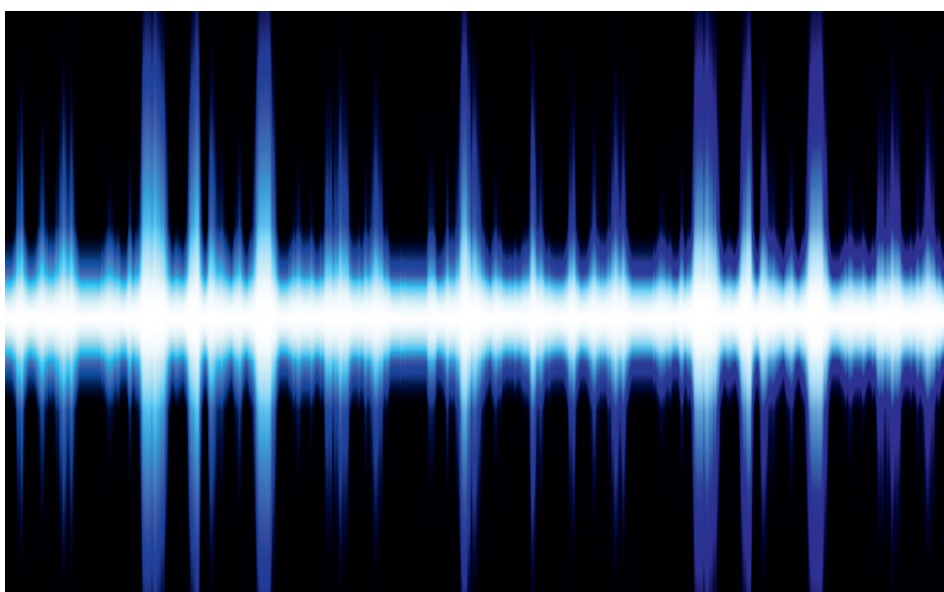
TETRA Recorder – flexible, reliable and secure

- "TETRA Recorder architecture supports virtual private networks features. Hence, we as a private TETRA network provider can provide flexible 'Platform-as-a-Service' solutions to our end-customers."

- "We as a TETRA network operator for public safety and private end-customers appreciate the reliability of TETRA Recorder and its capability to track any voice and data communications when it is required by authorized institutions."

- "The secure export and import of voice and data files is very important to us. The encrypted files cannot be manipulated!"

Customer feedback

Trusted partner for your **Digital Journey**

AtoS

End-to-end encryption – uncompromised security

TR is the only system on the market offering recording and playback for end-to-end encrypted TETRA communications. It may be configured to support dedicated user organization specific databases, allowing you to clearly separate between different user groups on your TETRA network. Hence, authorized users can only access recordings belonging to their own organization, even if the infrastructure they operate on is shared with others.

Voice and data recording – efficient and secure

TR connects directly to your voice switching matrix and ensures the permanent capture of real-time voice and data from the E1 or IP interface. Because the voice is stored directly on geographically distributed recorders, less bandwidth is needed, guaranteeing that the performance of your TETRA network will not suffer.

To achieve highest efficiency and best audio quality, the payload is stored in TETRA format without any recompression. TR lets you capture up to 240 voice channels in parallel in its basic configuration, however the scalable setup allows for a gradual system extension. The standard recording capacity of 150 hours per channel is also upgradeable to more than 600 hours.

TR's redundant design, varying from a local RAID up to a full geo-redundancy setup, provides options for automatic data replication, archiving and backup / restore procedures, thus ensuring that important recordings will not be lost.

Playback client – easy access to recorded communications

Recordings and associated metadata can only be accessed and replayed through an authorized playback client. It provides your operators a graphical user interface to handle recorded voice and data as well as multiple, additive filter criteria to run complex searches.

Operators can perform a multitude of operations in the recorded calls, data and events database, such as event filtering based on user defined criteria, bookmarking and commenting and analysis of network communication statistics. In total, these functionalities allow operators to reconstruct even complex virtual call events.
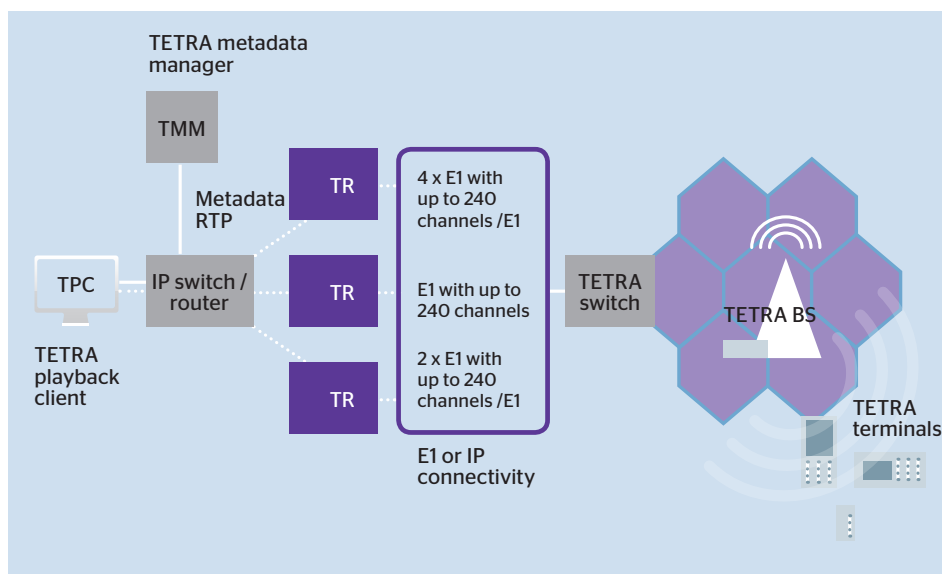
Real-time communication monitoring – legally compliant and secure

Rising security demands and the evolving legal climate oftentimes require real-time monitoring of voice and data communications. TR gives you the tools to do so while conforming to the highest standards of privacy. It streams data through secure connections and features strict role management for authorization rights, ensuring that you will always be in full compliance with the legal requirements of your country.

Authorized personnel are able to log, intercept and replay real-time communications as well as access detailed related information, such as identities, time stamps and call parameters. TR lets you monitor exactly what these authorized users did, allowing you to track any misappropriation of data back to its source.

Tetra Recorder is the reliable and secure system to record and play back end-to-end encrypted communications from your TETRA network. It does not impair ongoing network performance and offers your operators a multitude of tools to analyze and reconstruct complex calls. It also features fully legal and secure real-time communication interception.

TETRA Recorder (TR) – Secure and reliable management of voice and data communications