



Voice & Data Logging

When call recording is critical to operations, there is a need for a professional, dedicated voice logging system. Call Data Records (CDR), voice and data are stored for documentation or playback on a professional platform.

The TetraFlex® Voice & Data Logging can be used in combination with the TetraFlex® BS41x indoor or SB421/BS421 outdoor systems, either running directly on the base station hardware or on a PC hardware.

The Voice & Data Logging system is used in combination with one or more log clients that typically are installed on separate PC's but can also run direct on the BSC412 or SB421.

Key features:

- Call data records for all calls and SDS
- Instant voice logging
- Voice saved in the original highly compressed TETRA format
- Connect up to 10 simultaneously log clients at a time
- Support for multi vocoder with A-law and TETRA encoding
- High channel density with up to voice recording capacity of 170 simultaneously VoIP calls
- Reliable uptime
- Automatic database recovery after power breakdown
- TetraFlex® network component with easy setup, and connection to IP backbone
- Log server status can be monitored through

Network Management

- Manual or scheduled maintenance including backup to network share and clean-up of old data. History log of the maintenance jobs available
- Use of MySQL server with the flexibility to look through archived databases on any machine without extra costs
- Export of calls to wav file for replay in any media-player, e.g. Windows Media Player

Mobile Stations (MS) logging facilities:

- Live view of the registrations on the mobile: Power on/off, roaming
- Full registration history log, search for mobile stations at any given time to determine status, and which node it was covered by
- RSSI values

Network status (Node status live view with the following info):

- Actual alarm state of the node
- Actual traffic load of the node
- Configuration parameters
- Subscribers register status

Network statistics

- Detailed statistics is calculated for each node
- Graphical charts present statistical data to give perfect overview
- Possibility to switch to table view to readout specific values
- Statistics for node, radio cell and gateway alarms

Key features

- Call Data Records (CDR) for all calls and SDS's
- Instant voice logging
- Support for multi vocoder format
- High voice recording capacity
- Flexible MySQL Server Automatic database recovery connects to TetraFlex® IP backbone
- Scheduled maintenance service
- Export of calls to wav file for replay in any media-player

- Statistics for node, radio cell and gateway alarms
- Statistics for traffic load and congestion on a node, revealing where in the network the bottlenecks are. Overloaded nodes are easily identified and considerations to add more capacity can be taken
- Statistics for the timeslot allocation showing how the timeslots are loaded; i.e. by group calls, individual calls, packet data or by the control channel
- Statistics for gateway channel load

Log API:

The Log API is an UDP-interface outputting CDR-, voice and SDS data.

Application developers can use this interface to develop e.g. billing systems or to integrate with other recording system.

- Status messages, SDS-Type4 (without TL), SDS-TL TRANSFER
- Individual calls (duplex/simplex)
- Group calls (normal/broadcast)
- Streams of active voice calls either as G.711 A-LAW or TETRA encoded TCH/S streams

Minimum hardware requirements

Parameter	Value
SB421 / BSC412:	
Storage	8GB CF card
Memory (RAM)	1GB min. 2GB recommended
External PC/Server:	
Operating System	Microsoft Windows 7, 8, 10, Windows Server 2008 R2 SP1 Windows Server 2012 and 2012 R2
Processor	Intel i5 or higher
Memory	4GB RAM
Hard drives	1.5GB for installation, 10GB for storage
Disk space usage:	
1 hour of continuously simplex voice calls	3.2MB
1 hour of continuously duplex voice calls	6.4MB

To make a new installation of the Voice & Data Logging Log Server, run the Setup.exe or Setup64.exe, depending on whether the operating system is running 32- or 64bit.

Follow the instructions on the screen.

Ordering:

Every logging (recording) option is bundled with a corresponding client (replay) option.

These are named "Master Log Client" and distributed on a separate dongle.

Item number	Description
Voice & CDR logging	
TF-DL-LS0	Log System license incl. CDR & one voice stream and dongle
TF-DL-LC5-VOI-M	Master Log Client license Voice & CDR Replay*
TF-DL-LC3-CDR-M	Master Log Client CDR Replay**
SDS logging	
TF-DL-LS4-SDS	Log System SDS
TF-DL-LC4-SDS-M	Master Log Client license SDS Replay

Item number	Description
Other logging options	
TF-DL-LS5-VOI-EXT	Log Voice, additional 1 voice stream
TF-LS-LS6-API	Log Server API (streaming output)
Additional log clients (replay)	
TF-DL-LC5-VOI	Log Client license Voice Replay
TF-DL-LC3-CDR	Log Client license CDR Replay
TF-DL-LC4-SDS	Log Client license SDS Replay
Dongles	
105180	TetraFlex Dongle (Log system)
105179	Master Log Client TetraFlex Dongle (Replay)
Optional hardware	
105638	Workstation
105639	Server

* Bundled with TF-DL-LS0, in case voice logging is selected

** Bundled with TF-DL-LS0, in case only CDR logging is selected

Distribution:

The TetraFlex® Voice & Data Logging application is pre-installed on all BSC412 and SB421 shipped from DAMM.

If ordered with a workstation or server hardware option, TetraFlex® Voice & Data Logging comes preinstalled on the selected hardware.

If ordered without a hardware option, the TetraFlex® Voice & Data Logging comes as an install image on an USB memory stick.