

Overview

IntegrIT CFSI Digital – is a functional component for conventional radio station APCO P25 implementing digital Conventional Fixed Station Interface (CFSI). **CFSI Digital** complies with TIA-102.BAHA and allows sending/receiving voice and data traffic to/from air, remote control and configuring (PTT, Caller ID, Talk-group, NACs, emergency indication, voter identification) and provides Intercom capability. **CFSI Digital** uses UDP/RTP as a transport for communication with host console.

Features

- transport of clear full-duplex audio between a fixed station and its host.
- transport of encrypted audio between a fixed station and its host
- transport of control signaling between a fixed station and its host
- “intercom” capability allowing for the transport of audio between the fixed station and its host without initiating an RF transmission. G711 is used for intercom.
- Glue less integration with IntegrIT APCO P25CAI
- support of G711/IMBE vocoder formats in RTP stream for sending voice traffic in air.

Applications

- APCO P25 communication
- Telephony
- Trunking

Specification

The Digital Fixed Station Interface employs Internet protocols to provide connectivity between a conventional fixed station host (CFSH) and a fixed station. The DFSI has two parts, a Control Service and a Voice Conveyance Service. The control service is modeled as a point-to-point connection between the host and a fixed station control service. The Voice Conveyance service is modeled as a point to multi-point connection between a host and one or more end-points sharing a single destination IP address and port, but with potentially different source IP addresses and ports. Thus a CFSH sends RTP based voice packets to a single address, but may receive them from different addresses.

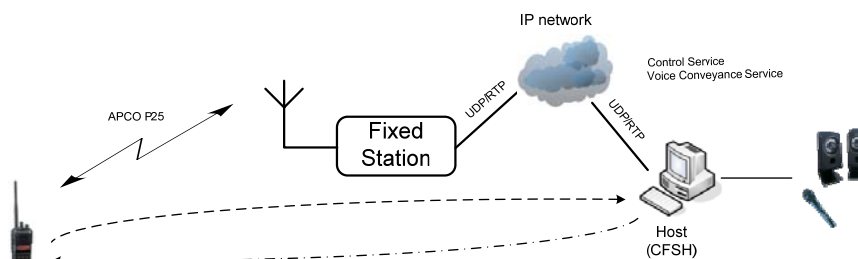


Figure: Digital Fixed Station Interface

Availability

This software is available in binary/source code written on fully portable C-language for:

- Texas Instruments TMS320C55xx, TMS320C64xx, DaVinci, OMAP
- ARM9E
- x86

Porting on other platforms is upon request.

Pricing/Licensing

Call

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