

4.2.8 Communication with analog FM (Bridge System)

(1) Composition

The connection of the D-STAR network with a present analog FM repeater is possible by the installation of adapter. This adapter of the analog FM rig is added the radio header packet at the beginning of the transmission signal (analog) or display the radio header information from received signal. The adapter of analog FM repeater is reconstructed the call sign and other information from received radio header or sending the radio header.

Analog to Digital:

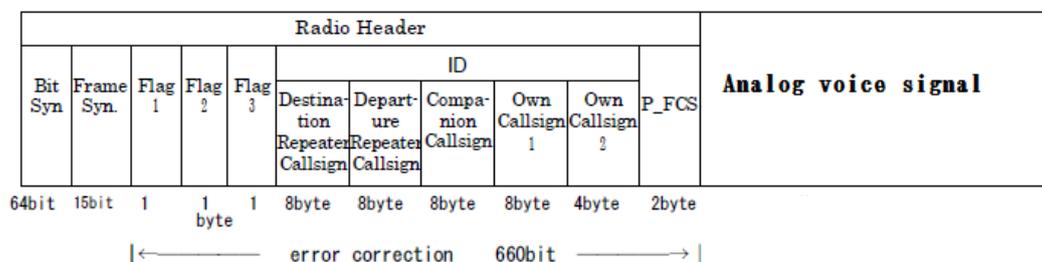
The analog FM repeater reconstructs the call sign and other information from radio header (generated by adapter). And the adapter constructs the radio header for DV repeater. Also, adapter generates the voice frame for DV packet using CODEC (AMBE-2020).

Digital to Analog:

The call sign and other information are reconstructed from DV packet. And the analog repeater transmits this information at the beginning of transmission signal of analog voice. After this signal, analog repeater transmits the voice signal (analog) that is generated from voice frame of DV packet using CODEC (AMBE-2020).

(2) Radio Header

The radio header for analog FM communication is basically same as the voice packet (DV packet).



Modulation: 1200bps MSK. 1: 1800Hz 0: 1200Hz