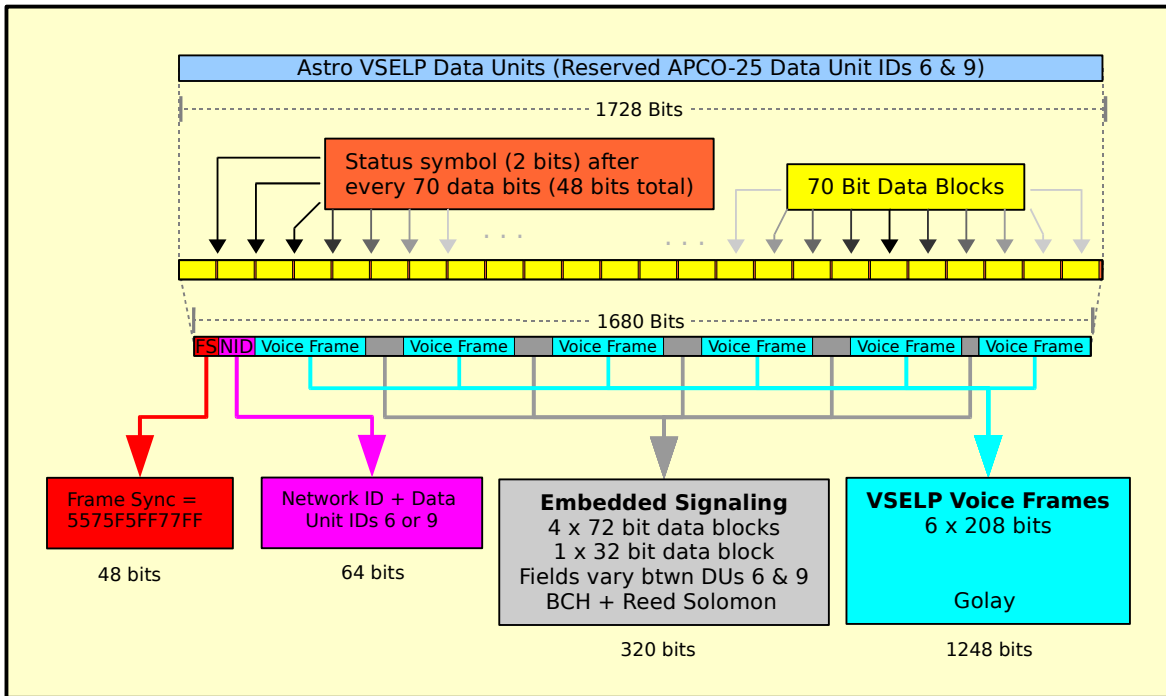


Transmission of Motorola ASTRO VSELP Data Frames Using APCO-25 CAI

Everything is APCO-25 compliant (header data units, terminator data units, frame sync, network id, et cetera) except LDU1 & LDU2 IMBE Voice Data Units are replaced by VSELP Data Units as shown below:



Running some numbers

- 180 mS : Time to transmit one 1728 bit VSELP data unit
- 30 mS : Milliseconds of speech data covered by one VSELP frame

- 2.7 kbps: Aggregate bit rate, embedded signaling
- 6.9 kbps: Aggregate bit rate, VSELP Voice Frames (2.1 kbps devoted to error correction)

- 9.6 kbps: Total transmission bit rate