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Thread: [DSD Digital Speech \(MotoBP\) decoder.](#)

iScottybotty - December 22, 2021, 3:19 pm

Does anyone use the Digital Voice Decoder, DSD?
Can you help me decrypt Moto Basic Privacy?

I have the keys, users use predefined keys between 1-255. Only one key can be used at any time, basically the key, once selected from the predefined list is the one used forever.

The link below includes a RAW audio file of Digital Speech using MotoBP. The key number from the predefined list is 70, (ED 4A, (ED0AED4AED4A 1)) XOR'd with F8 01 A9 9F 8C E0.

DMR voice superframes consist of six subframes, named A through F. Each subframe holds three 20 millisecond voice frames.

DSD+ repeatedly displays VOICE/VC2/VC3/VC4/VC5/VC6, those would be the six subframes.

AMBE voice frames contain two Golay codewords; each codeword supports the correction of three bit errors. The addition of a parity bit to the first codeword supports the detection, but not correction, of a fourth bit error....

I need help knowing really what an XOR is and help to add a few codewords in the mix. Once that's done, Voila, MotoBP is cracked.

Here is the RAW audio recording, I've had to tweak the link slightly as I'm a noob member.

drive[WARNING POSSIBLY
INFECTED]google.com/file/d/1tIPNDvbKl28Yx293qYSGnVnNG0SafpE1/view

Here is a link to the programmer doing what it is I'm trying to achieve using his code. The decryption element is NOT included in the Public Version, so I'm trying to add it.

Add the beginning to this link:
[Youtu.be/jwFnyQme_VA](#)

Here is a link to the source code.

Add the begging to this link:
[github.com/LouisErigHerve/dsd](#)

If anyone can help I'd be forever in your debt, I'm literally banging my head against the wall.

Thanks for reading, all. Happy holidays!