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Introduction

Digital Voice network – exchange protocol

Background

We are using digital voice (DV) and networks to connect sites since the early papers from JARL 1999 - 2001. Primarily in amateur radio sites we used the ready to go hardware and software from ICOM. In the next years several new developed D-STAR networks and other DV-networks for APCO P25, DMR, System Fusion and even TETRA starting.

Key points and proposal

All these networks working very well but we run into a main problem: connecting them together or building bridges fail in different thinking about common transportation of DV data.

A DV-border-gateway-protocol (DV-BGP) is needed to come closer with different designed DV-networks and bring IARU countries to a common exchange of DV streaming data.

We need a protocol with consider the amateur radio needs and bring them to a common denominator. Each country/partner/developer run clear in development of special network ideas.

On the border between these different networks we use a common “language” – DV-BGP.

Recommendation:

We propose to create a working group to specify the DV-border-gateway-protocol (DV-BGP) to prepare to include DV-BGP in the VHF manager’s handbook later on.