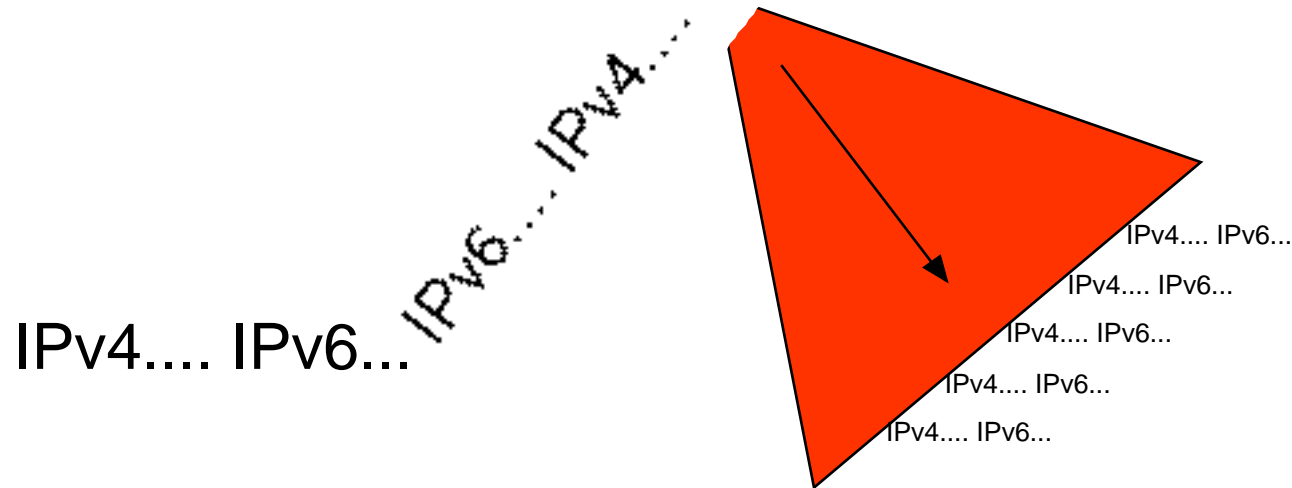


# Presentation of IP-DVB List Overview

DVB-GBS Meeting  
Helsinki  
13th May 2002



Gorry Fairhurst  
University of Aberdeen

## **Efficient Plug&Play Receiver Design**

Simple encapsulation

Unicast address resolution/signalling issues

Multicast address resolution/signalling issues

## **Better support for next-generation IP features?**

QoS features

L2 signalling

Multi-homing

Mobility

## **Native operation of IPv6 & Multicast**

<http://www.erg.abdn.ac.uk/users/gorry/ip-dvb/charter.html>

## *Framework for IP over DVB*

Gorry Fairhurst (c) 2002 (gorry@erg.abdn.ac.uk)

Must **work** with DVB in its different uses

Broadcast TV Links (program-related data, e.g. html)

Broadcast TV Links (e.g., opportunistic IP data)

IP-based broadcast services (i.e., Internet TV using RTP)

ISPs (network-to-customer links)

NSPs (network-to-network links)

Ad-Hoc networks

Must **consider** range of technologies

DVB-S; DVB-T; with UDLR; with UDLR Mcast

DVB-RCS

Regenerative Systems

Must **be**:

Flexible (future proof!!!)

Ubiquitous (support all uses of IP)

Scalable (to large numbers of users)

Compatible (e.g., with MPE)

*Find a good match to DVB and IP Architectures*

## Charter Roadmap

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Nov 01	Individual submissions of IDs to IETF
Dec 01	Meeting to co-ordinate activities
XXX	BoF to assess potential for work in this area
XXX	Second BoF (as required to consolidate charter)
Start	Issue WG ID on requirements / framework
Start+04	Achieve consensus on requirements
Start+06	If required, submit ID to IESG as an RFC (info)
Start+08	Issue WG Internet-Draft defining Encapsulation
Start+12	Submit Encaps ID to IESG for publication as an RFC
	Issue Internet-Draft(s) defining Address Resolution
	Issue Internet-Draft(s) defining Multicast Operation
	Submit Address Resolution to IESG for RFC
Start+24	Possible recharter to investigate MIBs, and other protocol components

## *Current Status*

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### **Started: Sept 2001**

First Meeting: Dec 2002 (IETF Salt Lake City)

### **Web pages**

[http://www.erg.abdn.ac.uk/users/gorry/ip-dvb/  
Proposed charter \(rough consensus\)](http://www.erg.abdn.ac.uk/users/gorry/ip-dvb/Proposed%20charter%20(rough%20consensus))

### **Mailing list**

126 people (lunchtime friday)

### **Internet Drafts**

Requirements for transmission of IP datagrams over DVB Networks; draft-fair-ipdvb-req-01.txt; May 2002

Simple Encapsulation for transmission of IP datagrams over MPEG-2/DVB networks; draft-unisal-ipdvb-enc-00.txt; April 2002.