

An RTP Payload Format for the AC-3 Audio Coder

draft-flaks-avt-rtp-ac3.txt

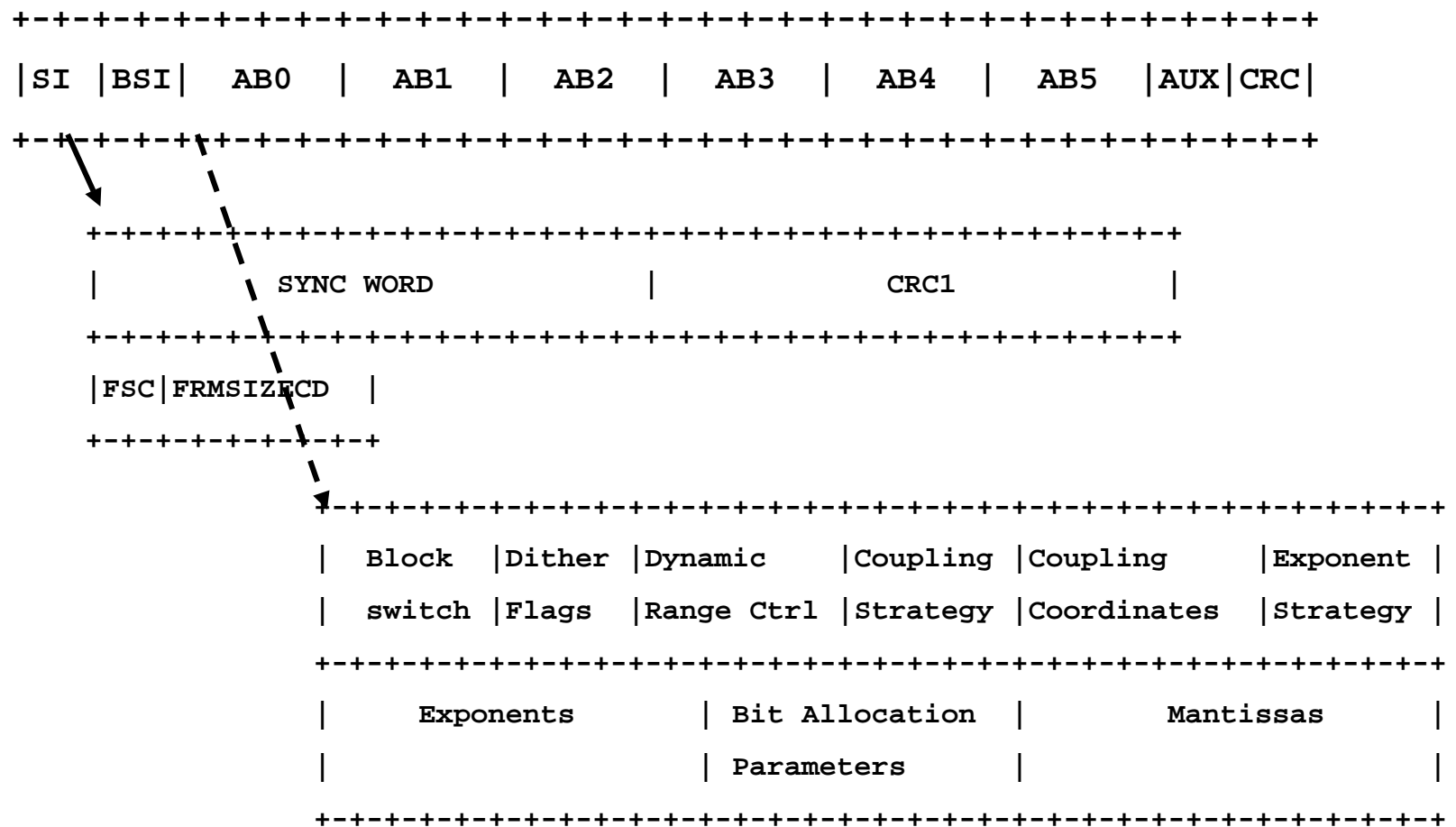
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Overview of changes

- Payload specific headers
 - Main Header Extension
 - Data Unit Header Extension
- Revised Fragmentation Scheme
- New Redundant Data Types
- Addition of “channels” parameter in SDP description
- Demonstration

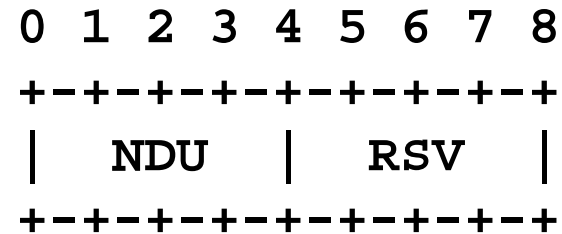
Review of AC-3 Audio Codec

AC-3 Frame

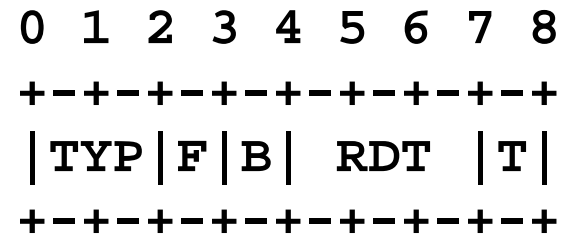


Payload Specific Headers

- Main header
 - Number of units in payload

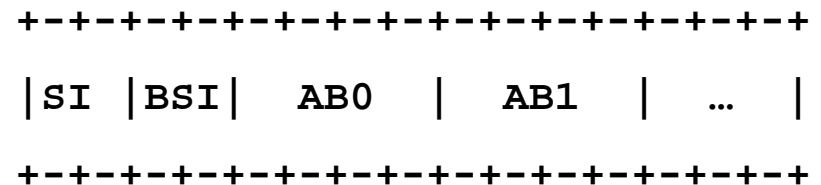


- Data unit header
 - Data type
 - Fragment
 - Block 0
 - Redundant data type
 - Time code



Fragmentation Scheme

- First 5/8ths of an AC-3 frame is decodable on its own.
 - First 5/8ths always contains block 0 and block 1
 - Block 0 contains data possibly reused by other blocks in the frame
 - This fact should be leveraged when fragmenting



Redundant Data Types

CODE	Lower bit rate	Fewer channels	5/8ths Fragment	3/8ths Fragment
000	✓			
001	✓	✓		
010			✓	
011				✓
100	✓		✓	
101	✓			✓
110	✓	✓	✓	
111	✓	✓		✓

Demonstration

Dolby Audio Server

