#### flexible-FEC

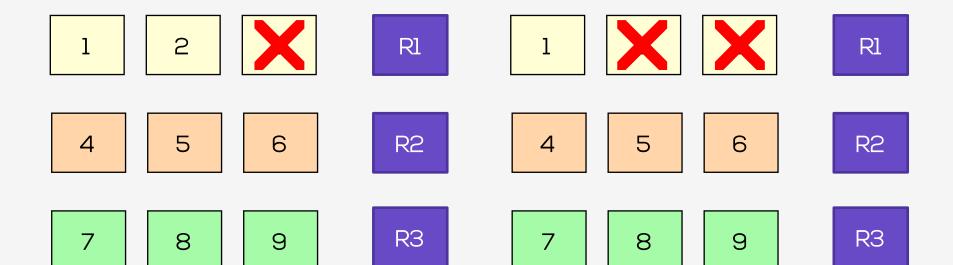
Ali C Begen Varun Singh Mo Zanaty

AVTCore, IETF 91

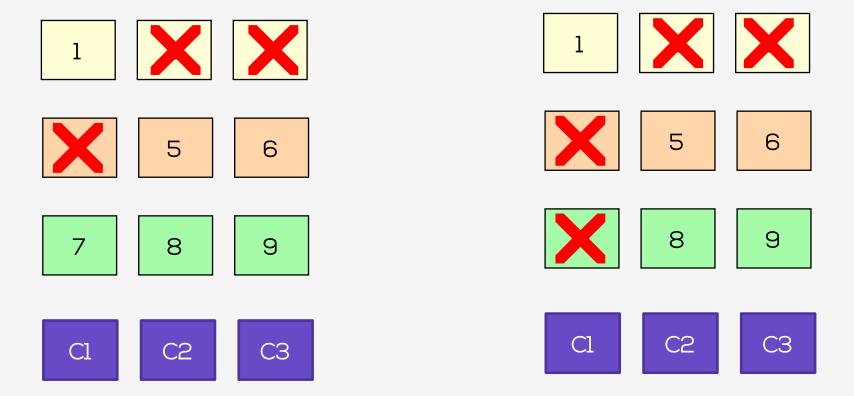
#### **Motivation**

- Scalability issues with
  - RFC 5109
  - SMPTE 2022-1
  - RFC 2733

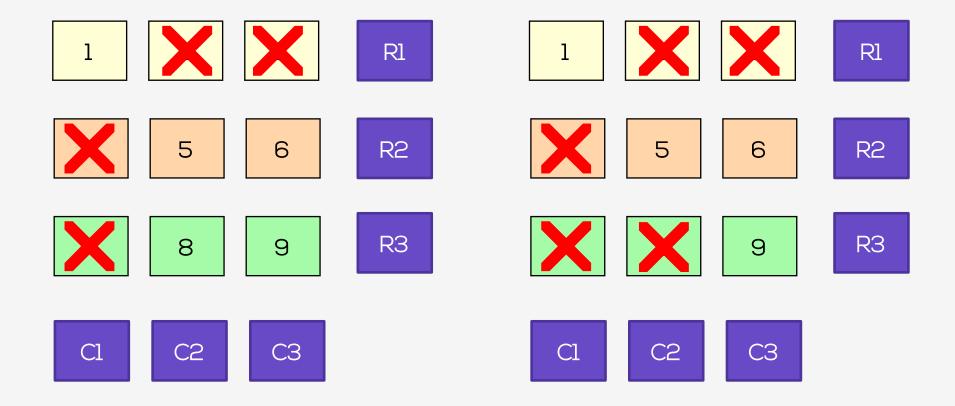
# Row FEC (1D)



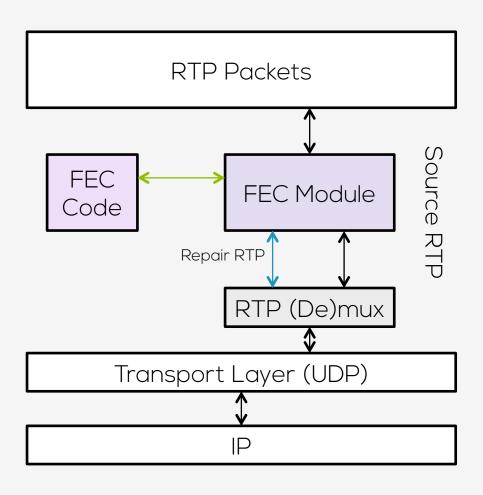
# Column FEC (1D)



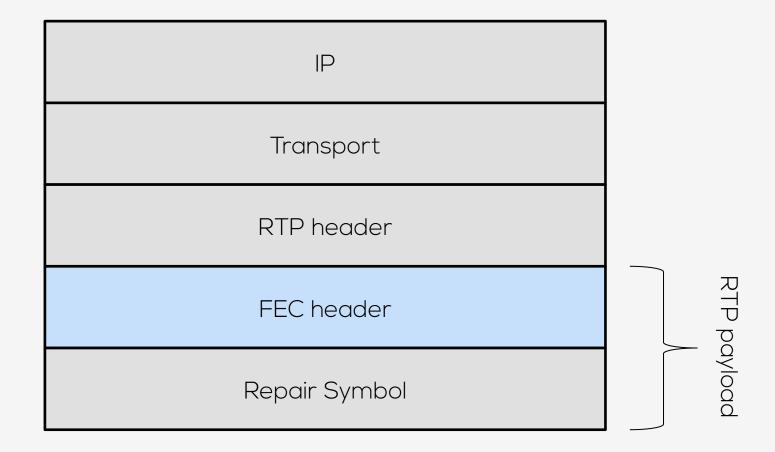
### 2-D FEC



#### RFC 6363: FEC Framework



# Format of repair packets



## **FEC** payload

### MSK values (1/2)

- 00 → 16-bit mask
- 01 → 48-bit mask
- 10 → 112-bit mask
- 11 > variable length mask, see M and N values

### MSK values (2/2)

- M=0, N=0 → fixed values indicated in SDP
- M>0, N=0 → non-interleaved of M packets starting from SN\_base
  - FEC = SN, SN+1, SN+2,..., SN+(M-1), SN+M.
- M>0, N>0 → interleaved with M offset starting from SN\_base in a group of N packets
  - FEC = SN+(Mx0), SN+(Mx1),..., SN+(MxN).

## Next steps

Discussion in MMUSIC about SDP

Adoption as PAYLOAD WG-item