# draft-ietf-payload-vp9-01

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### -00 to -01 Changes

- Non-flexible Mode
  - Replaced GOF\_IDX with Temporal ID.
    - TID was previously inferred from SS, causing issues if the SS was lost.
  - GOF\_IDX now computed from Picture ID as:
    - $GOF_IDX = (PicID PicID_{ss}) \% SSLength$
    - Note that PicIDMax can be either 2<sup>7</sup> or 2<sup>15</sup>.
- Flexible Mode
  - X bit and corresponding Extended P\_DIFF field removed.
  - P\_DIFF increased from 6 to 7 bits.

#### Non-flexible Mode

```
-01:
                                                   -00:
     (REOUIRED)
                                                    (REQUIRED)
     |M| PICTURE ID |
                     (RECOMMENDED)
                                                    |M| PICTURE ID
                                                                     (RECOMMENDED)
     | EXTENDED PID
                     (RECOMMENDED)
                                                    EXTENDED PID |
                                                                    (RECOMMENDED)
    +-+-+-+-+-+-+-+
                     (CONDITIONALLY RECOMMENDED) L:
                                                    |GOF IDX|
                                                              S |D| (C. RECOMMENDED)
                                                                     (C. REQUIRED)
                      (CONDITIONALLY REQUIRED)
V:
                                               V:
```

#### Flexible Mode

```
-01:
                                                     -00:
     |I|P|L|F|B|E|V|-| (REQUIRED)
                                                      (REOUIRED)
     |M| PICTURE ID |
                      (REQUIRED)
                                                      |M| PICTURE ID
                                                                       (RECOMMENDED)
     | EXTENDED PID |
                      (RECOMMENDED)
                                                      | EXTENDED PID
                                                                       (RECOMMENDED)
                                                      UI S IDI
                                                                      (C. RECOMMENDED)
                                                                      (C. RECOMMENDED)
P, F:
                      (CONDITIONALLY REQUIRED)
                                                 P, F:
                                                                 |X|N|
                                                                       (OPTIONAL)
                                                 X:
                                                      |EXTENDED P DIFF
                                                      +-+-+-+-+-+-+
                                                 V:
```

## Open Issues

- Support in-bitstream simulcast?
- Offer/Answer considerations.
- VP9 bitstream format description and citation.
- Update, or delete, RPSI/SLI section for VP9.
- Add text on FIR/LIR.