

Proposed Evolution of the Mode Status Element

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UAT MOPS Mtg #25

Table 2-39: Format of MODE STATUS Element

Payload Byte #	Bit 1	Bit 2	Bit 3	Bit 4	Bit 5	Bit 6	Bit 7	Bit 8
18	(MSB) Emitter Category and Call Sign/Flight Plan ID Characters#1 and #2 (Base-40 encoding)							
19	(LSB)							
20	(MSB) Call Sign/Flight Plan ID Characters #3, #4, and #5 (Base-40 Encoding)							
21	(LSB)							
22	(MSB) Call Sign/Flight Plan ID Characters #6, #7, and #8 (Base 40 Encoding)							
23	(LSB)							
24	EMERGENCY/PRIORITY STATUS		UAT MOPS VERSION			SIL		
25	(MSB) TRANSMIT MSO					(LSB)		Reserved
26	NAC _p			NAC _v			NIC_{BARO}	
27	CAPABILITY CODES		OPERATIONAL MODES		True/Mag	CSID		
28								
29	Reserved				Geometric Vertical Accuracy		True/Mag	Single Ant Flag

Becomes the SDA field

Becomes the SIL Supplement field (assuming NICbaro no longer needed?)

New fields

Moved field

Recast these bits into a single "Modes and Codes" field that incorporates the following changes:

1. Merges the TCAS Installed and Operational bit with the TCAS RA Flag active to a single 2 bit field called something like "TCAS RA Status" encoded as discussed in the June mtg
2. Relabels the current CDTI Traffic Display Capability bit to something like "UAT Rx Capable"
3. Adds a new bit labelled something like "1090ES Rx capable"