

Table 2-49: “OPERATIONAL MODES” Encoding

Byte #	Bit #	Encoding
Byte 27	Bit 3	TCAS/ACAS Resolution Advisory Active Flag. 0 = NO 1 = YES
	Bit 4	IDENT Switch Active Flag. 0 = NOT Active (> 20 seconds since activated by pilot) 1 = Active (<= 20 seconds since activated by pilot)
	Bit 5	“Receiving ATC Services” Flag 0 = NOT Receiving ATC Services 1 = Receiving ATC Services

2.2.4.5.4.13.1 “TCAS/ACAS Resolution Advisory” Flag

A transmitting ADS-B participant **shall** set the TCAS/ACAS Resolution Advisory Active Flag to ONE in the messages that it transmits to support the MS report so long as a TCAS/ACAS resolution advisory is in effect. Likewise, this Operational Mode code shall be set to ONE if the transmitting ADS-B equipment cannot ascertain whether the TCAS II ACAS computer is currently issuing a Resolution Advisory. At all other times, the transmitting ADS-B participant **shall** set the TCAS/ACAS Resolution Advisory Active Flag to ZERO.

If the input for the “TCAS/ACAS Resolution Advisory” field-flag is “unavailable” for the “Data Lifetime” value listed for this input in [Table 2-64](#), then the “TCAS/ACAS Resolution Advisory” field-flag **shall** default to a value of ZEROONE.

2.2.4.5.4.13.2 “IDENT Switch Active” Flag

The “IDENT Switch Active” Flag is activated by an IDENT switch. Initially, the “IDENT switch active” code is ZERO. Upon activation of the IDENT switch, this flag **shall** be set to ONE in all scheduled ADS-B Messages containing the MODE STATUS element for an interval of 20 seconds +/-4 seconds. After the time interval expires, the flag **shall** be set to ZERO.

Note: *This allows an ATC ground station 4-5 reception opportunities to receive the IDENT indication.*

If the input for the “IDENT Switch Active” field-flag is “unavailable” for the “Data Lifetime” value listed for this input in [Table 2-64](#), then the “IDENT Switch Active” field flag **shall** default to a value of ZERO.

2.2.4.5.4.13.3 “Receiving ATC Services” Flag

The “Receiving ATC Services” flag is based on a pilot setting. This flag **shall** be set to ONE to indicate that the transmitting ADS-B participant is receiving ATC services; when not receiving ATC services, a transmitting ADS-B participant should set this flag to ZERO.

If the input for the “Receiving ATC Services” field-flag is “unavailable” for the “Data Lifetime” value listed for this input in [Table 2-64](#), then the “Receiving ATC Services” field-flag **shall** default to a value of ZERO.