2.2.5.1.42 Operational Mode (Surface) Data

The ADS-B transmitting device shall accept own vehicle Surface Operational Mode information via an appropriate variable data input interface and use such data to establish the "Operational Mode_1 (OM_1)" subfield in the Aircraft Status Messages (see subparagraph 2.2.3.2.7.3) as specified in subparagraph 2.2.3.2.7.3.4.4.

If appropriate Surface Operational Mode data is not available to the ADS-B transmission device, then the device shall set the "Operational Mode_1 (OM_1)" subfield specified in subparagraph 2.2.3.2.7.3.4.4 to ZERO.

2.2.5.1.43 Radio Altitude Data

The ADS-B transmitting device shall accept Radio Altitude via an appropriate variable data input interface and use such data to establish the "Air/Ground" state and thereby the "CA" field as provided in subparagraph 2.2.3.2.1.1.2.

2.2.5.1.44 Version Number Data

ADS-B Transmitting Devices shall set the Version Number as indicated in Table A-21.

2.2.5.2 Unused Section

2.2.5.3 ADS-B Transmission Device Message Latency

2.2.5.3.1 Airborne Position Message Latency

The ADS-B Transmission Device Message Processor function shall update the Airborne Position Message data fields defined in section 2.2.3.2.3 as follows:

a. Type information may change due to changes in the precision, quality, or integrity of received navigation information. As such, any change in the TYPE information identified in section 2.2.3.2.3.1 shall be reflected in the Type subfield of the next scheduled Airborne Position message transmission provided that the change occurs and is detected at least 100 milliseconds prior to the next scheduled Airborne Position message transmission.

b. Any change in the Surveillance Status identified in section 2.2.3.2.3.2 shall be reflected in the Surveillance Status subfield of the next scheduled Airborne Position message transmission provided that the change occurs and is detected at least 100 milliseconds prior to the next scheduled Airborne Position message transmission.

c. Any change in the Altitude identified in section 2.2.3.2.3.4 shall be reflected in the Altitude subfield of the next scheduled Airborne Position message transmission provided that the change occurs and is detected at least 100 milliseconds prior to the next scheduled Airborne Position message transmission.

d. CPR Format changes at 0.2 second intervals or more often as defined in section 2.2.3.2.3.6. A change in the CPR Format shall be reflected in the CPR Format subfield of the next scheduled Airborne Position message transmission provided that