

STDDS R3.3 Enhancements

The following is a high level list of proposed STDDS R3.3 enhancements of interest to end users.

Service	Enhancement	Description
APDS	Add Airport Identifier to Payload of Messages	Add Airport Identifier to payload of APDS messages, in addition to the header.
APDS	Reduce frequency of APDS messages	APDS messages will be downsampled to every minute or upon data change, in order to reduce bandwidth without degradation of service.
SMES	Add ASDE-X Safety Alerts	<p>Safety Logic Alert Report (SLAR)</p> <ul style="list-style-type: none"> • Sent 1/second continuously while an alert condition exists. • Contains sensitive data; will be published to authorized users only. <p>Safety Logic Hold Bar Message (SLHBM)</p> <ul style="list-style-type: none"> • Sent 1/second continuously. • Contains no sensitive data; will be available to all. • Downsampled to one minute and upon change.
SMES	Non-Movement Area (NMA) data publication (ASDE-X CAT10)	<ul style="list-style-type: none"> • STDDS will publish 3 of the 4 CAT10 message types generated by ASDE-X: ADS-B, MLAT, and SMR. • This data will be geographically filtered to strictly within the APRON (ramp) region. • ASDE-X CAT10 data will be published in 3 new messages (each message type corresponding to a CAT10 data type). • All CAT10 required data elements will be published. Not all Cat10 data elements in the reserved expansion fields will be published. • NMA data published by STDDS will be filtered for sensitive data in the same manner as is currently done to filter position report data. • NMA data will be batched and delta encoded in the same manner as is done currently with position report data.
TAIS	Reduce TAIS bandwidth needs	<ul style="list-style-type: none"> • Track and Flight Plan Data (AIG200) messages with a reported altitude above 18000 ft. Mean Sea Level will not be published. VFR flights are typically flying below this threshold, so tracks for these flights would continue to be published. • Status (AIG100) messages will be downsampled to every minute or upon data change.
TAIS, SMES	FIXM	STDDS will provide FIXM-compliant versions of the SMES position report and NMA messages as well as the TAIS track and flight plan data (AIG200) messages.