

Change ID: 5.1-23

FAS Data block - review

Summary

It is proposed to add new attributes for operation type, SBAS service provider, approach performance designator, route indicator, reference path data selector, reference path identifier, ICAO code to the FASDataBlock class.

Background

In AIXM 5.0, [Final Approach Segment \(FAS\) Data Block](#) has the additional information about the Precision Final Segment. Most attributes describe the LPV path point record required for WAAS procedures.

Rationale for the change

In AIXM 5.0, FASDataBlock object doesn't have all the necessary attributes, as required by the RTCA/DO-229C document. In particular it's missing operation type, SBAS service provider, approach performance designator, router indicator, reference path data sector, reference path identifier and ICAO code.

Change proposal details

In the [FASDataBlock](#) class, add the following attributes:

- operationType
 - data type NoSequenceType.
 - definition = " *Operation Type. A number from 0 to 15 that indicates the type of the final approach segment*".
- *serviceProviderSBAS
 - data type NoSequenceType
 - definition = " *SBAS Service Provider Identifier. A number from 0 to 15 that associates the approach procedure to a particular satellite based approach system service provider.*"
- approachPerformanceDesignator
 - data type NoSequenceType.
 - definition = " *Approach Performance Designator. A number from 0 to 7 that identifies the type of approach.*"
- routeIndicator
 - data type AlphaType
 - definition = " *Route Indicator. A single alpha character (A through Z or blank, omitting I and O) used to differentiate between multiple final approach segments to the same runway or heliport.*"
- referencePathDataSelector
 - data type NoSequenceType
 - definition = " *Reference Path Data Selector (RPDS). A number (0-48) that enables automatic tuning of a procedure by LAAS avionics.*"
- referencePathIdentifier
 - data type is AlphanumericType
 - definition = " *Reference Path Identifier. A four-character identifier that is used to confirm selection of the correct approach procedure.*"
- codeICAO
 - data type AlphanumericType.
 - definition = " *The first two designators of the ICAO location identifier, as identified in ICAO Doc 7910*"