Change ID: 5.1-24

FinalLeg - offset attributes

Summary

In the FinalLeg class, it is proposed to add new attributes for modelling the situations where the final approach is offset from the runway centreline.

Background

In AIXM 5.0, the FinalLeg feature is a type of Segment Leg designed in accordance with the rules for final segments having the properties specific to a final approach segment.

Rationale for the change

In the case where the final leg is not directly on the centreline of the runway (offset), the current model does not have attributes to model final approach course offset angle, offset side, centreline distance and offset distance.

Change proposal details

In the FinalLeg class, add the following attributes:

- courseOffsetAngle
  - data type: ValBearingType;
  - definition: " *Final Approach Course Offset Angle. Indicates the offset angle between the final approach course and the extended runway centreline*".
- courseOffsetSide
  - data type: CodeSideType;
  - definition: " *Final Approach Course Offset Side. Indicates on which side of the extended runway centreline that the final approach course lies, when viewed from the Final Approach Fix*".
- courseCentrelineDistance
  - data type: ValDistanceType;
  - definition: " *Final Approach Course Centre Line Distance. Indicates the distance from the Landing Threshold Point (LTP) to the point where the extended runway centreline intersects the final approach course*".
- courseOffsetDistance
  - data type: ValDistanceType;
  - definition: " *Final Approach Course Offset Distance. Indicates the distance between the final approach course and extended runway centreline at a point located 3000 ft from the Landing Threshold Point (LTP), measured perpendicular to the extended runway centreline*".
- courseCentrelineIntersect
  - data type: CodeRelativePositionType
  - definition: " *Indicates if the intersection of the final approach course with the extended runway centreline is located before or after the Landing Threshold Point (LTP)*".

Insert a new "enumeration" data type CodeRelativePositionType

- definition = " *A coded list of values indicating a relative position, in relation with a reference point situated along a given trajectory.*"
- list of values:
  - BEFORE = "A location in advance of the reference point"
  - AT = "A location at the reference point"

- ◦ <mark>AFTER = "A location following the reference point"</mark>