<mark>Change ID: 5.1-15</mark>

Navaid purpose

Summary

In order to support the operational classification of navaids into "terminal/aerodrome" and "en-route", it is proposed to add a "purpose" and an association between Navaid and AirportHeliport. The later will also facilitate the mapping with the earlier AIXM 4.5 version.

Background

The Navaid class is used to model radio navigation aids, such as VOR, VOR/DME, TACAN, NDB, etc.

Rationale for the change

Navaids are classified operationally as "en-route", "terminal/aerodrome" or "both". This possibility is missing from the current model and a new attribute "purpose" should be added into the feature Navaid.

In addition, the previous AIXM 4.5 version had the possibility to associate a Navaid with an Aerodrome/Heliport. This is also missing in AIXM 5.0. In order to enable the mapping of the AIXM 4.5 data and to better define the "aerodrome" purpose of a navaid, it is proposed to insert back in the model the association between Navaid and AirportHeliport.

Change proposal details

In the Navaid class:

- insert a new attribute with name "purpose": " *Indication of the intended usage of the navaid (enroute or terminal)*", with data type CodeNavaidPurposeType;
- insert a new association from Navaid to AirportHeliport:
  - Navaid (0..*) used for homing at 0..* (role " *servedAirport*") AirportHeliport (navigable from Navaid towards AirportHeliport)

Create a new "enumeration" data type "CodeNavaidPurposeType" class

- definition = " *A coded list of values indicating the intended usage of a navaid (enroute or airport)*";
- list of values:
  - TERMINAL = " *Intended for usage in the terminal area, in particular for approach, landing and departure procedures*")
  - ENROUTE = " *Intended for en-route usage*"
  - ALL = " *Intended for all usages*"
  - OTHER = " *Other*"