Change ID: 5.1-40

Morse code for marker

Summary

It is proposed to add an auralMorseCode attribute to the MarkerBeacon feature in order to explicitly provide the dot/dash sequence that identifies the beacon.

Background

AIXM 4.5 allowed the aural Morse code for MKR to be recorded as "CODE_ID". Typical values are "dots", "dashes" and "dot/dash".

Rationale for the change

In AIXM 5.0, the designator attribute is common to all NavaidEquipments , including MarkerBeacon. The list of values is a character string with a maximum length of 4 characters. This does not allow recording typical marker beacon aural Morse codes.

Theoretically, the Morse code can be deducted from the location of the MarkerBeacon within the ILS ("---" for outer, ".-" for middle and "..." for inner). However, there exist examples of real world markers that do not follow these rules. Therefore, it is safer to have the possibility to explicitly provide the Morse code, especially for such exceptional situations. This will also facilitate the mapping of the data from AIXM 4.5.

Change proposal details

- add a new attribute in the MarkerBeacon class named auralMorseCode = " *The Morse code transmitted by the beacon*", data type = CodeAuralMorseType;
- add a new data type CodeAuralMorseCodeType = " *The sequence of dot/dash characters that corresponds to an aural Morse code*", pattern = ([\-\.]);