

Change ID: 5.1-01

New feature - AeronauticalGroundLight

Summary

Add a new feature to model AeronauticalGroundLights, such as Aerodrome Beacon, Marine Beacon, etc.

Background

There was an AERO_GND_LGT feature in AIXM 4.5 and it seems that it have been lost in the translation to AIXM 5.0. Only the [CodeGroundLightingType](#) enumeration does exist in the AIXM 5.0 model, with a list of values that includes ABN, HBN, Marine, etc.

Rationale for the change

This feature is still needed in the model to support the many types of aeronautical ground lights that exist. This includes Aerodrome Beacons, Tower Beacons, Marine Beacons, Hazard Beacons, etc.

The list of values shall include the results of the AIHWG work.

Change proposal details

AeronauticalGroundLight feature

Insert a new class AeronauticalGroundLight with stereotype feature and definition "*A light specifically provided as an aid to air navigation, with the exception of obstacle lights and lights forming part of surface or approach lighting systems*". The class should be located in a Visual Navigation sub-package of the Nav aids and Points package.

Attributes:

- name ("*The name by which the ground light is known*"), TextNameType
- type ("*A classification of the light based on the kind of item that it visually identifies*"), CodeGroundLightingType
- colour ("*The primary colour of the light source*"), CodeColourType
- flashing ("*An indication whether the light is steady or flashing*"), CodeYesNoType

Associations:

- hasPosition 1 ElevatedPoint (role = "*location*")
- markingTheSiteOf 0..1 AirportHeliport (role = "*aerodromeBeacon*", "*The airport/heliport in the area of which the light is situated*")
- markingPositionOf 0..1 VerticalStructure (role = "*structureBeacon*", "*The vertical structure (such as airport tower) identified by the ground light*")

CodeGroundLightingType

The list of values of this data type is modified as follows:

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- remove ~~SIGNAL~~ value (it is a duplicate inherited on a parallel track from AIXM 4.5, it means the same thing as the TWR_BCN);
- modify the definition of HAZ_BCN: " *An aeronautical beacon used to designate a danger to air navigation*".