

Change ID: 5.1-08

New AirportHotSpot feature

Summary

It is proposed to introduce a new AirportHotSpot feature, supporting the data publication requirements introduced by the ICAO Manual on the Prevention of Runway Incursions (DOC 9870).

Background

In the current model, there is no support for the concept of airport "hot spots" (locations on the movement area with a history of potential risk of runway incursions).

Rationale for the change

The ICAO Manual on the Prevention of Runway Incursions (DOC 9870) defines the concept of aerodrome Hot Spots in section 3.4. The ICAO Annex 4 (Aeronautical Charts) requires the publication of such hot spots on the aerodrome chart. In order to support these requirements, it is necessary to introduce the concept of hot spots in the model.

Change proposal details

Add a new feature "AirportHotSpot" defined as "*A location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary*" with the following attributes:

- designator = "A coded identifier by which the hot spot is labelled on airport maps", data type TextDesignatorType;
- instruction = "Action to be taken by the crew and/or vehicle drivers when approaching the hot spot"

Add the following associations between AirportHotSpot and other classes:

- "hasShape" 0..1 ElevatedSurface (role "area" = "*The area on the airport/heliport that has been identified as a hot spot*")
- "isLocatedAt" 0..1 AirportHeliport (role "affectedAirport" = "*The AirportHeliport where the hot spot has been identified*").