

AIXM-321 Aerodrome surface preparation additional values

ID:	AIXM-321
target version:	AIXM 5.2
version:	1.0
last updated:	17 AUG 2018
status:	APPROVED



Description

Add new code to the codelist for CodeSurfacePreparationBaseType.

Rationale for change

See <https://aixmccb.atlassian.net/browse/AIXM-290>

The following surface preparation method does not have a corresponding value in AIXM, although it exists in the real world. For example, the FAA's Airports Authoritative Source (AAS) uses a workaround to code it in AIXM (prefixed with OTHER:...).

- WIRE_COMB - Wire Comb or Wire Tine Surface Treatment

Impact assessment

There is no impact on existing implementations as the current AIXM 5.1(.1) data remains fully valid against AIXM 5.2. No values are removed from this list.

When receiving data from AIXM 5.2 implementations, current AIXM 5.1(.1) systems will have be able to map back the new value into OTHER: [WIRE_COMB], as described in the mapping rules further in this document.

Change Proposal details

In the UML model, add the following code to CodeSurfacePreparationBaseType:

- WIRE_COMB (definition: "Wire Comb or Wire Tine Surface Treatment")

The change is shown in the UML class diagram at the right.

Mapping AIXM 5.1.1 to AIXM 5.2 (forward)

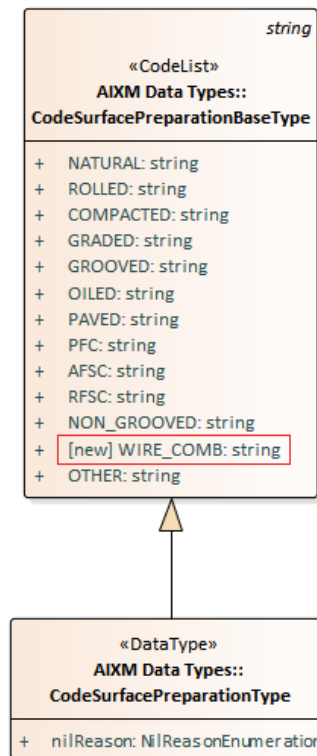
The following algorithm shall be applied:

- For each SurfaceCharacteristics.preparation that has the value "OTHER: WIRE_COMB":
replace the value with "WIRE_COMB";

Mapping AIXM 5.2 to AIXM 5.1.1 (backward)

The following algorithm shall be applied:

- For each SurfaceCharacteristics.preparation that has the value "WIRE_COMB":
replace the value with "OTHER: WIRE_COMB";



Mapping example

(Note: for mapping test data see: https://github.com/aixm/mapping_52_511/tree/master/AIXM-321)

