

Change Proposal

ID:	AIXM-139
target version:	AIXM 5.1.1
version:	1.0
last updated:	24 MAR 2015
status:	Implemented



Correct typing errors in XML Schema enumerations

Description

The space (blank) character that exists in the middle or at the end of some coded values in is removed, both in the UML model and the XML Schema.

Rationale for change

See <https://aixmccb.atlassian.net/browse/AIXM-99>

Some codelist values in AIXM 5.1 have a space (blank character) either in the middle of the value or at its end. This was not easy visible in the UML model, but it got exported in the XML Schema. This can cause troubles to developers, as they might overlook the unexpected space or such values with spaces might be even difficult to handle in some programming languages.

Therefore, it is proposed to correct these typing errors, by removing the empty space characters. After discussions in the CCB, the conclusion was that such wrongly spelled values should be simply corrected. The use of a deprecation mechanism, by which the old value and the new value are both present in AIXM 5.1.1 is not justified.

Impact assessment

These misspelled codelist values are used by relatively remote areas of the model, which are likely to have actually been used by very few implementations, if at all. Therefore, only a very limited number of implementations will be affected by this change.

Data users might have to deal with a mixed environment, in which they receive data from both AIXM 5.1 and AIXM 5.1.1 data providers. Conversion in both directions will be possible with the AIXM 5.1 - AIXM 5.1.1 XSLT conversion scripts that will be part of the AIXM 5.1.1 Release.

Change Proposal details

In the UML model, the following Data Types are modified as follows:

- CodeRuleProcedureTitleBaseType
 - the value "HOLDING_ APPROACH_DEPARTURE_PROCEDURES" is replaced by "HOLDING_APPROACH_DEPARTURE_PROCEDURES" (without space before "APPROACH").
- CodeVisualDockingGuidanceBaseType
 - the value "AGNIS " is replaced by the value "AGNIS" (without space at the end).
 - the value "AGNIS_STOP " is replaced by "AGNIS_STOP" (without space at the end).
- CodeStatusConstructionBaseType

- the value "IN_DEMOLITION " is replaced by the value "IN_DEMOLITION" (no space at the end).

Mapping AIXM 5.1 to AIXM 5.1.1 (forward)

The following algorithm shall be applied:

- For each RulesProcedures.title that has the value "HOLDING_APPROACH_DEPARTURE_PROCEDURES":
 - replace the value "HOLDING_APPROACH_DEPARTURE_PROCEDURES" with "HOLDING_APPROACH_DEPARTURE_PROCEDURES"
- For each AircraftStand.visualDockingSystem that has the value "AGNIS":
 - replace the value "AGNIS " with "AGNIS"
- For each AircraftStand.visualDockingSystem that has the value "AGNIS_STOP":
 - replace the value "AGNIS_STOP " with "AGNIS_STOP"
- For each VerticalStructurePart.constructionStatus that has the value "IN_DEMOLITION":
 - replace the value "IN_DEMOLITION " with "IN_DEMOLITION"
- For any other XML elements/attributes - copy identical in the output

This algorithm will be implemented in an XSLT script that will be provided together with the AIXM 5.1.1 Schema.

Mapping AIXM 5.1.1 to AIXM 5.1 (backward)

The following algorithm shall be applied:

- For each RulesProcedures.title that has the value "HOLDING_APPROACH_DEPARTURE_PROCEDURES":
 - replace the value "HOLDING_APPROACH_DEPARTURE_PROCEDURES" with "HOLDING_APPROACH_DEPARTURE_PROCEDURES"
- For each AircraftStand.visualDockingSystem that has the value "AGNIS":
 - replace the value "AGNIS" with "AGNIS "
- For each AircraftStand.visualDockingSystem that has the value "AGNIS_STOP":
 - replace the value "AGNIS_STOP" with "AGNIS_STOP "
- For each VerticalStructurePart.constructionStatus that has the value "IN_DEMOLITION":
 - replace the value "IN_DEMOLITION" with "IN_DEMOLITION "
- For any other XML elements/attributes - copy identical in the output

This algorithm will be implemented in an XSLT script that will be provided together with the AIXM 5.1.1 Schema.

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