Change Proposal

ID:	**AIXM-164**
target version:	**AIXM 5.1.1**
version:	**1.0**
last updated:	**21 APR 2015**
status:	**Implemented**

AIXM
Aeronautical Information Exchange Model

Change Control Board

Correct Note propertyName pattern

Description

Relax the pattern constraint of the propertyName attribute of the Note object to allow for all existing property names to be used (including those that do not comply with the lowerCamelCase syntax).

Rationale for change

See https://aixmccb.atlassian.net/browse/AIXM-138.

The propertyName attribute of the Note object may get as value the name of a feature or object property, to which the annotation refers. Therefore, the propertyName of the Note object shall be able to contains any property name of the AIXM 5.1 schema.

In AIXM 5.1, the propertyName of the Note object has a pattern constraint of "[a-z][A-Za-z]*". This pattern does not allow to encode AIXM property names such as:

- call-sign of Service
- ARP of AirportHeliport
- PARRunway of RadarSystem
- IF_fixDesignatedPoint of TerminalArrivalArea
- IAF_fixDesignatedPoint of TerminalArrivalArea
- CRCRemainder of FASDataBlock
- ...

Then AIXM 5.1 datasets containing annotation on those properties are invalid. The pattern needs to be adapted in order to allow for all existing property names to be used.

Impact assessment

There is no impact on AIXM 5.1 implementations, existing AIXM 5.1 files will remain valid against the new AIXM 5.1.1 schema.

New AIXM 5.1.1 files might be invalid against the existing AIXM 5.1 schema, if they contain propertyName values that do not comply with the more restrictive AIXM 5.1 pattern. A backwards compatibility XSLT script will be necessary in order to convert such values into text that is valid against the more restrictive AIXM 5.1 pattern.

Change Proposal details

In the UML model, change pattern of datatype TextPropertyNameBaseType to ""[A-Za-z\-_]*"

Mapping AIXM 5.1 to AIXM 5.1.1 (forward)

NIL (Not applicable)

Mapping AIXM 5.1.1 to AIXM 5.1 (backward)

The following algorithm shall be applied:

- For each Note.propertyName value that does not comply with the "[a-z][A-Za-z]*" pattern:
  - remove the content of the propertyName field
  - append the following text at the beginning of the Note.translatedNote.LinguisticNote.note descendant element: <value-of Note.propertyName> followed by " : "
- 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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