

Change Proposal

ID:	AIXM-163
target version:	AIXM 5.1.1
version:	1.0
last updated:	01 OCT 2015
status:	Implemented



Add XML Schema simple types in the UML model

Description

Correct the model of W3C XML Schema Definition Language standard in the "XMLSchemaDatatypes" package of AIXM UML.

Rationale for change

See <https://aixmccb.atlassian.net/browse/AIXM-123>

There are some errors in the hierarchy of the W3C XML Schema Definition Language UML model, so constraints on derived type are not correctly inherited (see <http://www.w3.org/TR/xmlschema11-2/#built-in-datatypes>)

Those errors affect only not used types so they have no impact on the current version of the AIXM but future evolution could use them.

Impact assessment

There is no impact, neither on the AIXM UML model nor on the AIXM XML schema.

Change Proposal details

In the UML model, in the "XMLSchemaDatatypes" package,

- 1) Add the common ancestor hierarchy : anyType -> anySimpleType -> anyAtomicType
- 2) Define missing ancestor for "decimal" as "anyAtomicType"
- 3) Change ancestor of "string", "unsignedInt", ... to "anyAtomicType" instead of "anySimpleType"
- 4) Correct hierarchy of type "Name" (from type "string" to type "Name")
string -> normalizedString -> token -> Name
So, "Name" inherits the facet whiteSpace = collapse from "token".

Mapping AIXM 5.1 to AIXM 5.1.1 (forward)

NIL (Not applicable)

Mapping AIXM 5.1.1 to AIXM 5.1 (backward)

NIL (Not applicable)