

Change Proposal

ID:	AIXM-168
target version:	AIXM 5.1.1
version:	1.0
last updated:	15 FEB 2016
status:	Implemented



Migration to Sparx EA

Description

Migrate the maintenance of the AIXM UML model from IBM Rational Rose to Sparx EA. Provide scripts that enable the generation of the AIXM XML Schema from the new Sparx EA environment. Provide guidelines for the migration of existing AIXM extensions to the new UML modelling environment. Provide scripts that enable the generation of AIXM XML extension schemas from an AIXM UML extension developed in Sparx EA.

Rationale for change

See <https://aixmccb.atlassian.net/browse/AIXM-132>

Up to and including AIXM version 5.1, the UML model was developed/maintained using IBM Rational Rose Data Modeller. There is a general interest in the AIXM community for migrating the UML model to a tool that is more flexible in terms of import/export of the model, less expensive, etc. Consensus has developed around the idea to migrate the UML model to Sparx EA.

The purpose of this change proposal is to formalise this migration and to indicate which support documents and scripts have been developed for this purpose. This concerns both the migration of the core AIXM UML model and the migration of eventual AIXM extensions, the later not being under the authority of the AIXM CCB.

Impact assessment

The migration to the new modelling environment does not have any impact on existing AIXM 5.1 users. No changes need to be made in the content and structure of the AIXM UML model or of the AIXM XML Schema. The migration is done to a large extent through automatic conversions between tools and the risk of discrepancies between the previous model and the new model is very low. However, as with any migration, the risk is not null. Therefore, the model resulting from the migration needs to be formally identified as a new AIXM version.

The migration might have an impact on existing AIXM 5.1 extensions, as much as they need to be further maintained by their respective community. For this purpose, guidelines and scripts are being developed.

Change Proposal details

The reference AIXM 5.1 UML model, currently available as an .mdl file (IBM Rational Rose Data Modeller specific format) is replaced with an equivalent model provided in the form of a .eap file (Sparx EA specific format).

The current XML schema components AIXM_Features.xsd and AIXM_DataTypes.xsd are replaced with identically named files generated (with a dedicated script) from the Sparx AIXM 5.1.1 EA model.

The current "AIXM 5.1 - Application Schema Generation" and the related Rational Rose scripts are replaced by a new document "AIXM 5.1.1 - AIXM Extension Schema Generation" and a new set of scripts for the Sparx EA environment.

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)

- END -