Transforming EA Specific Data

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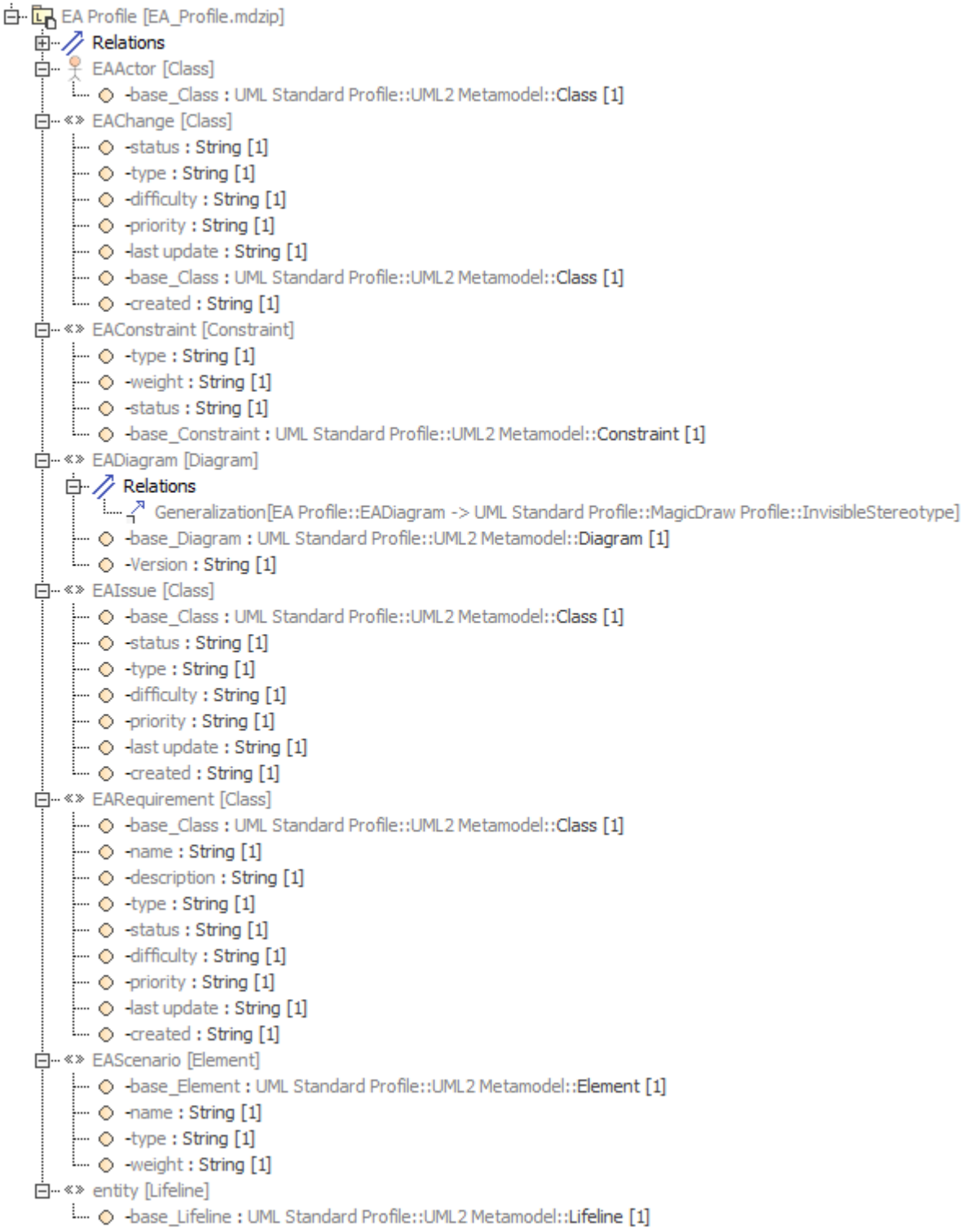
In addition to UML data, each EA-exported XMI contains EA-specific information. The Enterprise Architect Import can transform this information into UML elements with the stereotypes applied if you include EA-specific data before importing the XMI file. This data includes:

- Constraints: name, description, type, weight, and status.
- Requirements: name, description, type, status, difficulty, priority, and last update.
- Scenarios: name, description, type, and weight.
- Files: file path type.
- Requirements (External): type, status, difficulty, priority, last update, created, and note.
- Changes: type, status, difficulty, priority, last update, created, and note.
- Issues: type, status, difficulty, priority, last update, created, and note.

> **Note**
> You can access and specify the EA information in the **Property** dialog in EA.

To include EA-specific data in the transformation process, a set of stereotypes and tag definitions are created as the EA Profile.



The EA Profile in a treeview.

Constraints

Each EA constraint will be transformed into a UML constraint and «EAConstraint» will be applied to the constraint. The properties of an EA constraint will be mapped either to the properties of a UML constraint or to the tag values of «EAConstraint». The following table shows the constraint mapping details.

EA	Modeling tool by NoMagic
name	The name property of a UML constraint.

description	EAConstraint::type tag value.
type	EAConstraint::weight tag value.
weight	EAConstraint::status tag value.
constraint owner	Constrained Element property point to the constraint owner.

Requirements

Each EA requirement will be transformed into a UML Class. Because a requirement cannot be created in an element that is the owner of a Class in EA, the transformed requirement will be kept in a separate Package, named **EA Requirement**. A Realization will then be created from the owner of the requirement into a transformed requirement. See the following table for details.

EA	Modeling tool by NoMagic
name	EARequirement :: name tag value
description	EARequirement :: description tag value
type	EARequirement :: type tag value
status	EARequirement :: status tag value
difficulty	EARequirement :: difficulty tag value
priority	EARequirement :: priority tag value
last update	EARequirement :: name update value

Scenarios

Each EA scenario will be transformed into a UML Comment and «EAScenario» will be applied to the comment. The properties of a scenario will be mapped either to the properties of each UML Comment or to the tag values of «EAScenario». See the following table for details.

EA	Modeling tool by NoMagic
name	EAScenario::name tag value
description	The Body property of a UML Comment.
type	EAScenario :: type tag value
weight	EARequirement :: weight tag value
subject	An annotated Element property pointing to an EA subject element.

Files

EA can add files to a UML element. The information will be transformed into a Hyperlink in a UML model.

EA	Modeling tool by NoMagic
Local file	File
Web address	Webpage.

Requirements (external)

An EA-created Requirement differs from the one you create as an internal element for each element. EA requirements will appear in the Model Browser and can be pasted on a diagram. Each EA Requirement will be transformed into a Class and «EARequirement» will be applied to the requirement.

EA	Modeling tool by NoMagic
type	EARequirement :: type tag value
status	EARequirement :: status tag value
difficulty	EARequirement :: difficulty tag value
priority	EARequirement :: priority tag value

last update	EARequirement :: last update value
created	EARequirement :: created tag value
note	Documentation

Changes

EA can create a Change and will export it as a Class. The Class information will be transformed into the «EAChange» tag values. See the following table for details.

EA	Modeling tool by NoMagic
type	EAChange :: type tag value
status	EAChange :: status tag value
difficulty	EAChange :: difficulty tag value
priority	EAChange :: priority tag value
last update	EAChange :: last update value
created	EAChange :: created tag value
note	Documentation

Issues

EA can create an Issue and will export it as a Class. The Issue information will be transformed into the «EAIssue» tag values. See the following table for details.

EA	Modeling tool by NoMagic
type	EAIssue :: type tag value
status	EAIssue :: status tag value
difficulty	EAIssue :: difficulty tag value
priority	EAIssue :: priority tag value
last update	EAIssue :: last update value
created	EAIssue :: created tag value
note	Documentation