



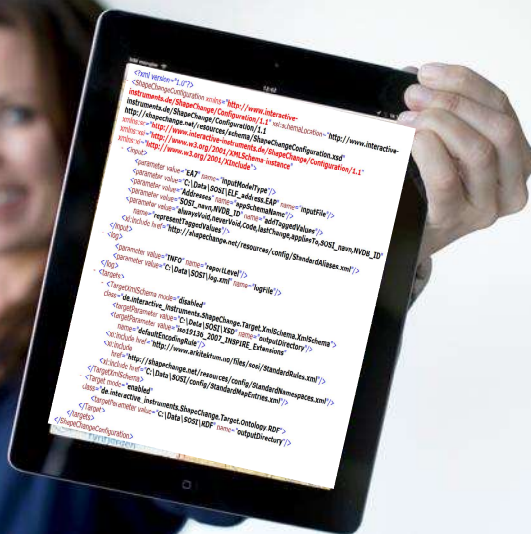
Kartverket

The Norwegian Mapping Authority

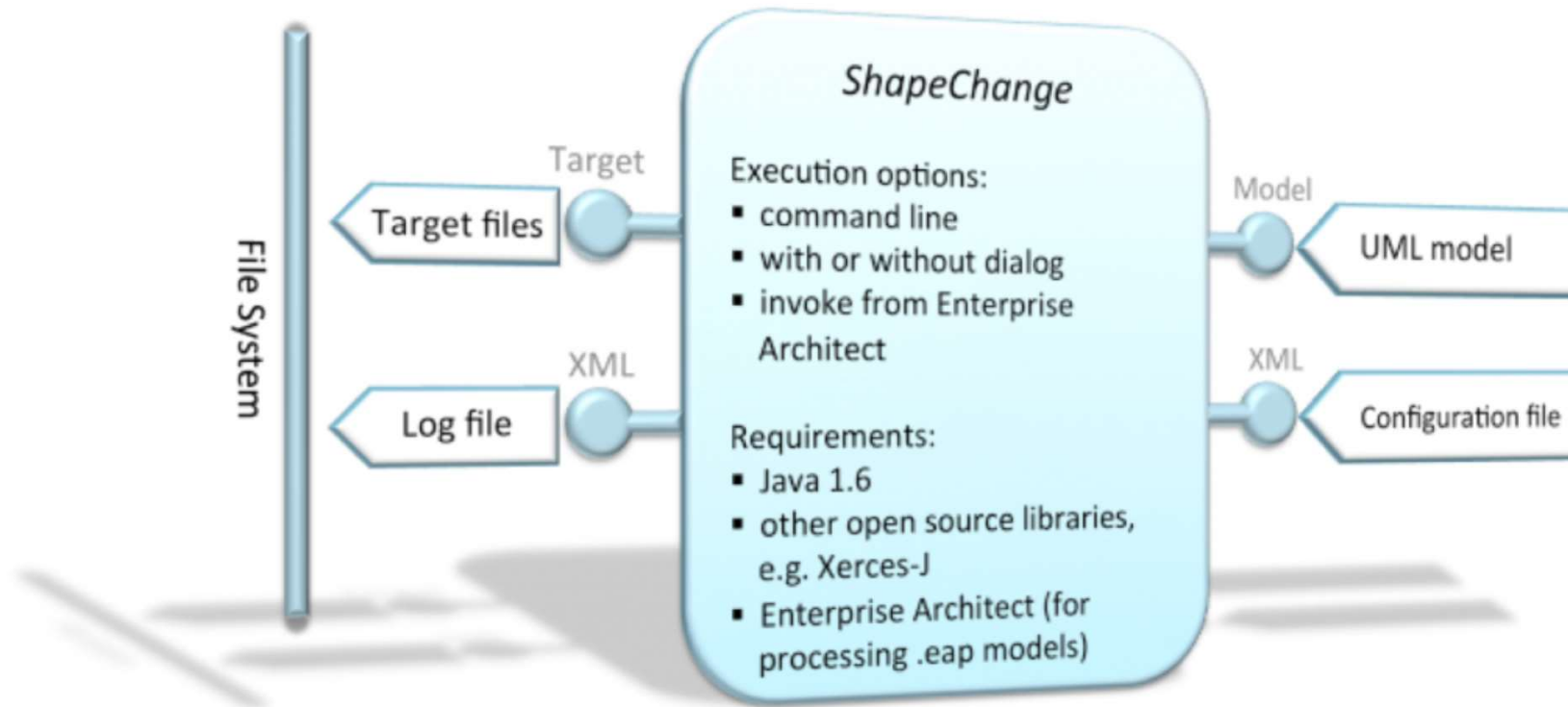
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ShapeChange plug-in for Enterprise Architect

A user friendly GUI for ShapeChange.



Short intro to ShapeChange



ShapeChangePlugin for EA:

- Select a UML model in Enterprise Architect
- Choose the transformation you want to run
- Verify or revise the configuration



Running Shape Change from EA

The screenshot displays the Enterprise Architect (EA) interface. The main window shows a class diagram for 'Addresses'. The diagram includes several classes and their relationships:

- AddressRepresentation** (class): + adminUnit :GeographicalName [1..*] (ordered); + locatorDesignator :CharacterString [0..1] (ordered); + locatorName :GeographicalName [0..*] (ordered); + addressArea :GeographicalName [0..*] (ordered); + postName :GeographicalName [0..*] (ordered); + postCode :CharacterString [0..1]; + thoroughfare :GeographicalName [0..*] (ordered).
- AddressLocator** (class): + designator :LocatorDesignator [0..*] (ordered); + name :LocatorName [0..*] (ordered); + level :LocatorLevelValue; constraints: {DesignatorEmpty?}; {NameEmpty?};
- AddressComponent** (class): + inspiredIdentifier :Identifier [0..1]; + alternativeIdentifier :CharacterString [0..1]; + status :StatusValue [0..1]; + validFrom :DateTime [0..1]; + validTo :DateTime [0..1]; + beginLifeSpanVersion :DateTime [0..1]; + endLifeSpanVersion :DateTime [0..1]; constraints: {EndLifeSpanVersion};
- PostalDescriptor** (class): + postName :GeographicalName [0..*]; + postCode :CharacterString [0..1]; constraints: {PostNameEmpty?}; {PostCodeEmpty?};
- ThoroughfareName** (class): + name :GeographicalName [1..*];
- GeographicPosition** (class): + geometry :GM_Point; + default :Boolean; + specification :GeometrySpecificationValue; + method :GeometryMethodValue.

The 'ShapeChange' menu option is highlighted in the 'Extensions' menu. The 'Project Browser' on the right shows the project structure, including 'Addresses' and 'Package Structure'. The 'Properties' window at the bottom right shows the 'Sosi' properties for the selected element.

Betaversion available at:
http://www.arkitektum.no/files/sosi/Shapechange_setup.exe

Running Shape Change from EA

The screenshot displays the Enterprise Architect (EA) interface with the ShapeChange plugin dialog box open. The dialog is titled "ShapeChange plugin" and is used for generating various output formats from an EA project.

ShapeChange plugin configuration:

- Select targets:**
 - Make GML Schema (xsd)
 - Make Excel mapping file
 - Make JSON Schema
 - Make external codelists
 - Make FeatureCatalogue
 - Make Ontology (RDF/OWL)
- Project properties:**
 - EA project file: C:\Data\SOSI\ELF_address.EAP
 - Name: Addresses
 - Namespace: urn:x:inspire:specification:gmlas:Addresses:3.0 (tag: targetNamespace)
 - xmlns: ad (tag: xmlns)
 - Version: 3.0 (tag: version)
 - Encoding rules: iso19136_2007_INSPIRE_Extensions (tag: xsdEncodingRule)
 - Export GML: C:\Data\SOSI\XSD\
 - GML (Xsd): Addresses.xsd (tag: xsdDocument)
 - Export codelists: C:\Data\SOSI\CL\
 - Export Excel: C:\Data\SOSI\Excel\
 - Shapechange jar: C:\Program Files\Arkitetum AS\ShapeChange\ShapeChange.jar

The Project Browser on the right shows the project structure:

- Generic Conceptual Model
 - Themes
 - Annex I
 - Addresses
 - Package Structure
 - «applicationSchema» Addresses
 - Addresses
 - Codelists
 - Cross-theme Relationships
 - Data types
 - Imported types
 - Spatial Object Types
 - «featureType» Address
 - «featureType» AddressAreaName
 - «featureType» AddressComponent
 - «dataType» AddressLocator
 - «dataType» AddressRepresentat
 - «featureType» AdminUnitName
 - «dataType» GeographicPosition
 - «codeList» GeometryMethodVal
 - «codeList» GeometrySpecificatic
 - «dataType» LocatorDesignator
 - «codeList» LocatorDesignatorTy
 - «codeList» LocatorLevelValue
 - «dataType» LocatorName