Description and usage - Detailed development plan reader

This document describes the use of the workspace to import a detailed development plan according to SS 637040 (Swedish standard for detailed development plans) in the GitHub repository *Testbed_BIM_GIS*. The scripts are developed in the software FME (Feature Manipulation Engine) version 2017.1 (Build 17654).

The development is financed by:
Smart Built Environments Testbed: Smarta plan-, bygg- och förvaltningsprocesser över hela livscykeln,
The projectet Får Jag Lov coordinated by Boverket.

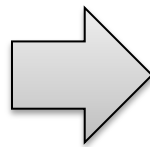This workspace is released under the 3-Clause BSD License. For details, see https://opensource.org/licenses/BSD-3-Clause

Contents

History

Version	Date	Comments	Person
1.0	2018-06-27	First version of this document that describes the script	Josefine Axelsson

Workspace to import a detailed development plan

The script import a detailed development plan in XML that complies with the standard SS 637040 *Geografisk information - Detaljplan - Applikationsschema för planbestämmelser* (https://www.sis.se/produkter/naturvetenskap-och-tillampad-vetenskap/astronomi-geodesi-geografi/ss6370402016/) and creates polygons with attributes of the regulated area. The script finds areas where buildings are permitted and displays them.

Description

Polygons for areas in the detailed development plan are created and rules are linked to the polygons. The workspace does not handle the cartography, and should be seen as a tool for managing regulations regarding the control of building permits. Regulations and information applicable to the entire plan are not linked to any area.
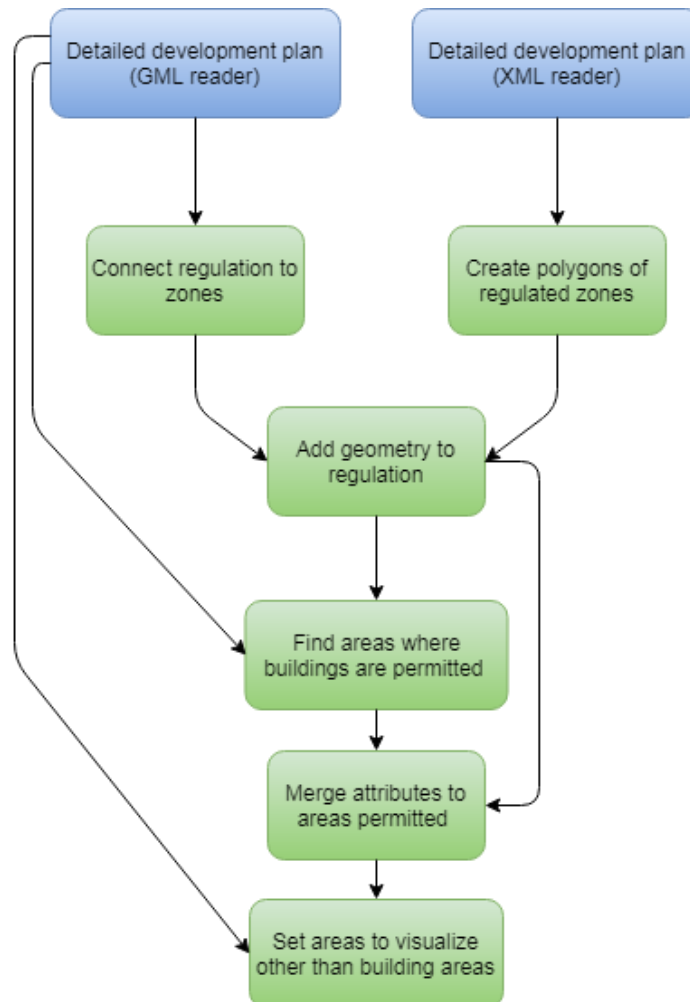
1. The XML file is read into the workspace two times with the readers *XML (Extensible Markup Language)* and *GML (Geography Markup Language)*
2. XML:
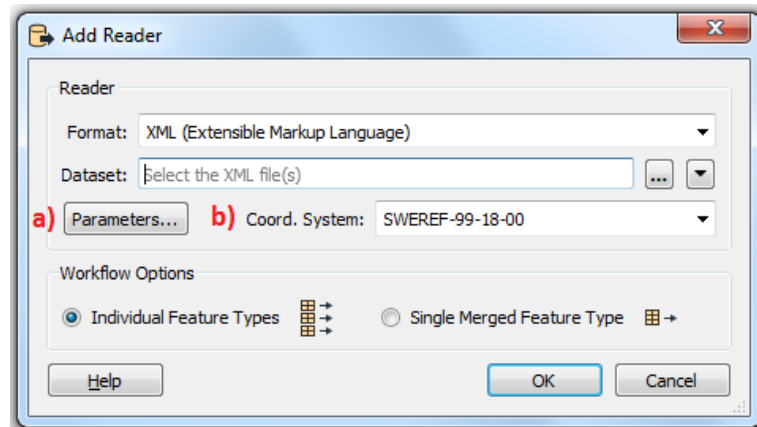
   a. Parameter *Elements to match* is set to: *DP_Data/omrade/DP_Omrade*
      DP_Data/omrade/DP_Omrade/minus DP_Data/omrade/DP_Omrade/plus

   b. *Coord. System* is set to the coordinate system the detailed development plan is created in / Read from Source

3. Chosen/used features are: *DP_Omrade, minus and plus.*

4. GML:
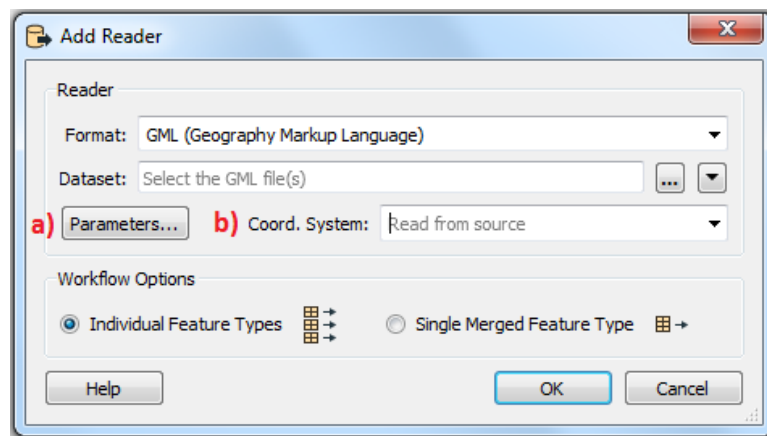
   a. Set the path to the Application Schema *ss634070.xsd* and change Validate GML Datatset File to *Yes.* Change *GML SRS Axis Order* to (*2,1*).
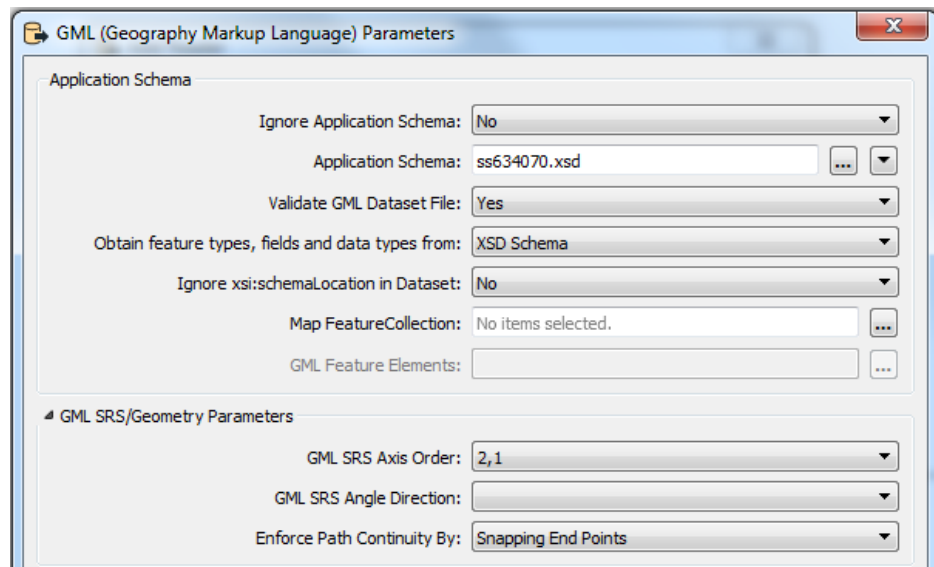
GML (Geography Markup Language) Parameters

Application Schema

Ignore Application Schema:	No
Application Schema:	ss634070.xsd
Validate GML Dataset File:	Yes
Obtain feature types, fields and data types from:	XSD Schema
Ignore xsi:schemaLocation in Dataset:	No
Map FeatureCollection:	No items selected.
GML Feature Elements:	

◢ GML SRS/Geometry Parameters

GML SRS Axis Order:	2,1
GML SRS Angle Direction:	
Enforce Path Continuity By:	Snapping End Points

b. *Coord. System* is set to the coordinate system the detailed development plan is created in / Read from Source

5. Chosen/used features are: *DP_Grans, DP_Egenskapsbestammelse, DP_Omrade and DP_Anvandnningsbestämmelse.*

Connecting features and transformers

The selected features are connected to the custom transformers *detaljPlanReader* as shown in the figures below.