

Bienvenue au FME Swiss Day hosted by INSER

15 mai 2025



FME Swiss Day hosted by INSER

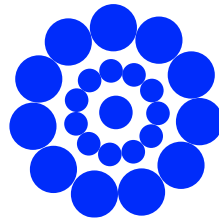
What's new 2022-2025



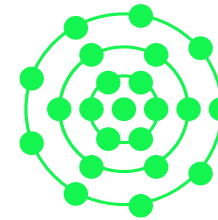
2023 – Safe Software Rebranding



FME Form
(formerly FME Desktop)



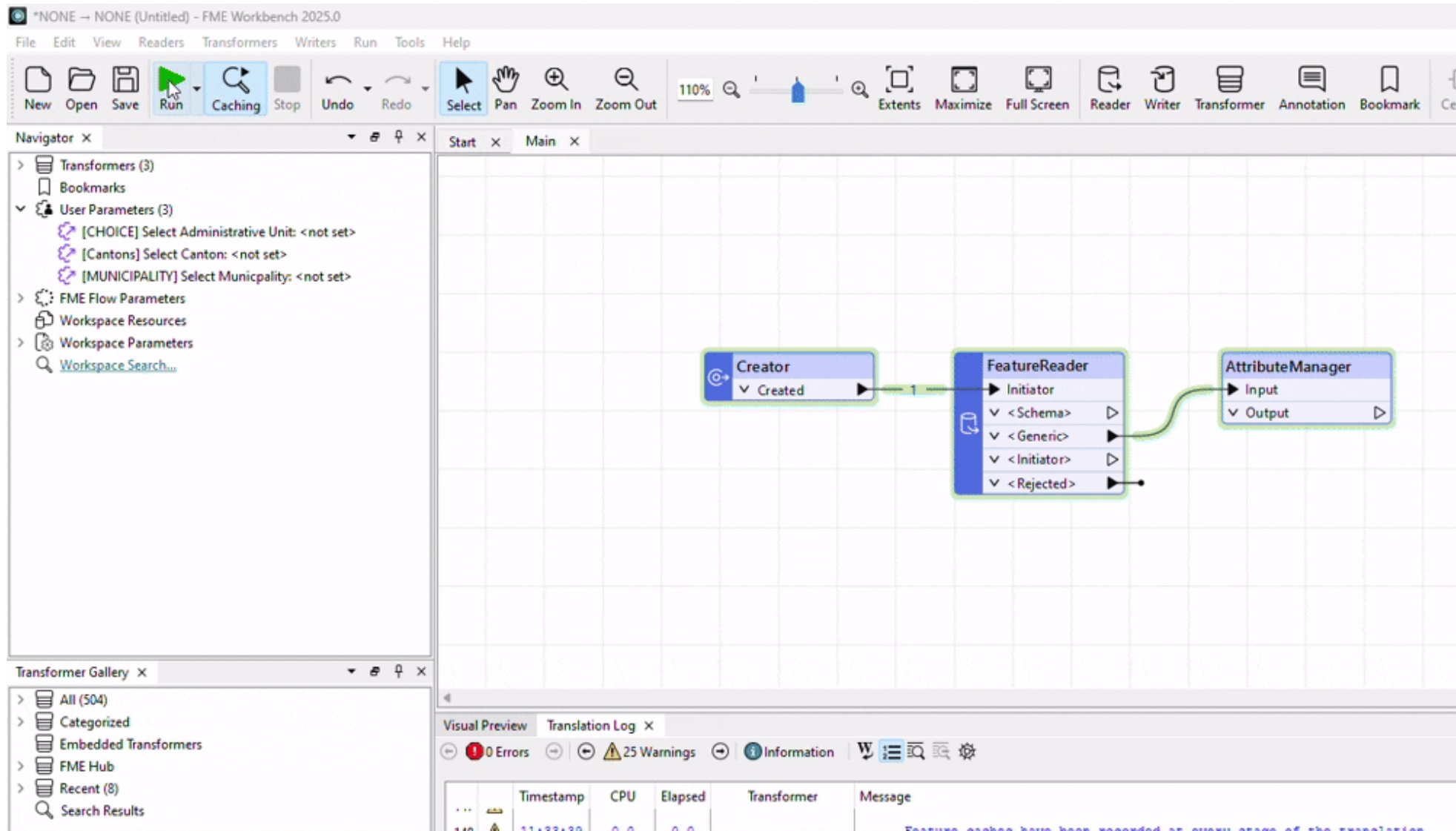
FME Flow
(formerly FME Server)



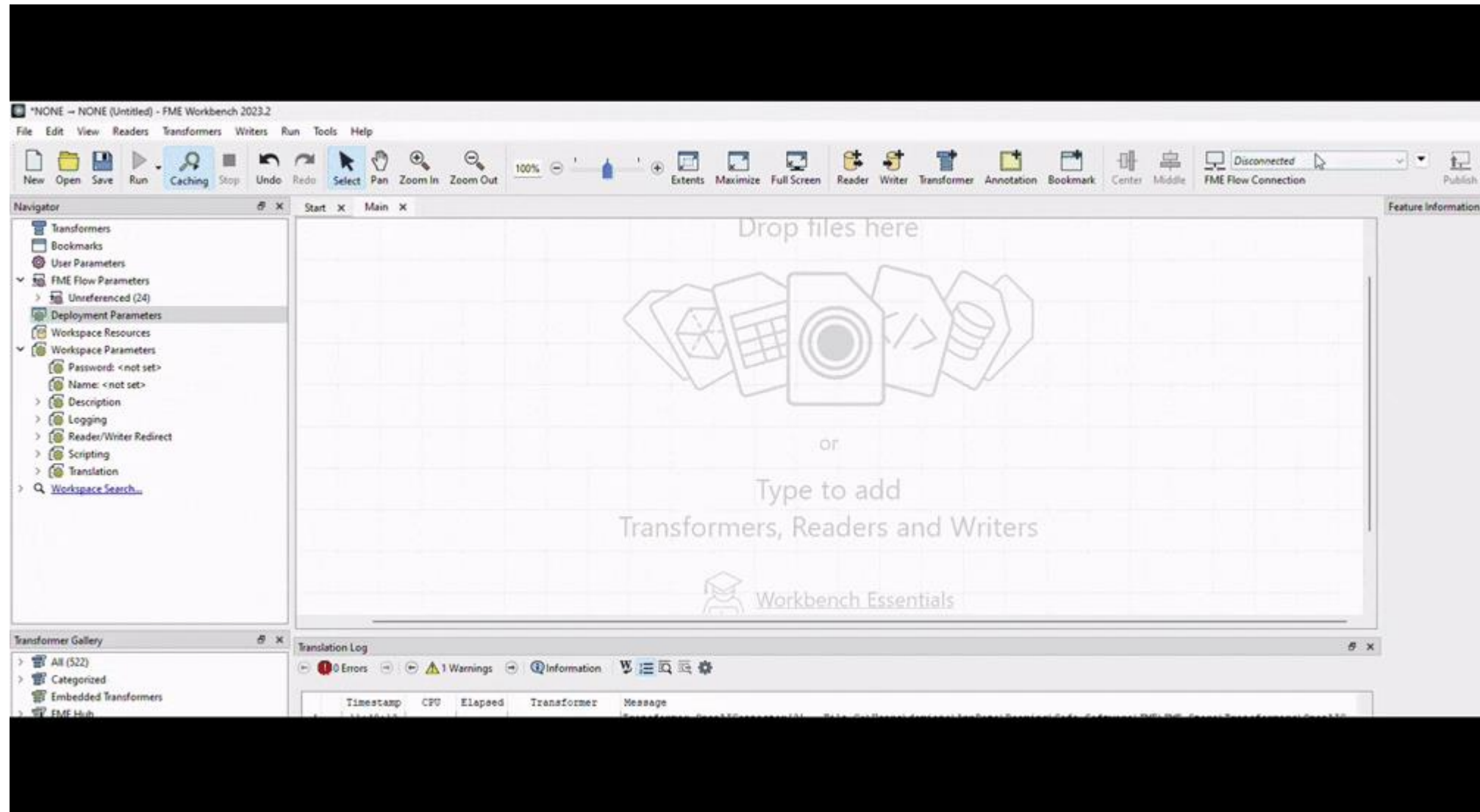
FME Flow Hosted
(formerly FME Cloud)



2023 - Conditional Parameters



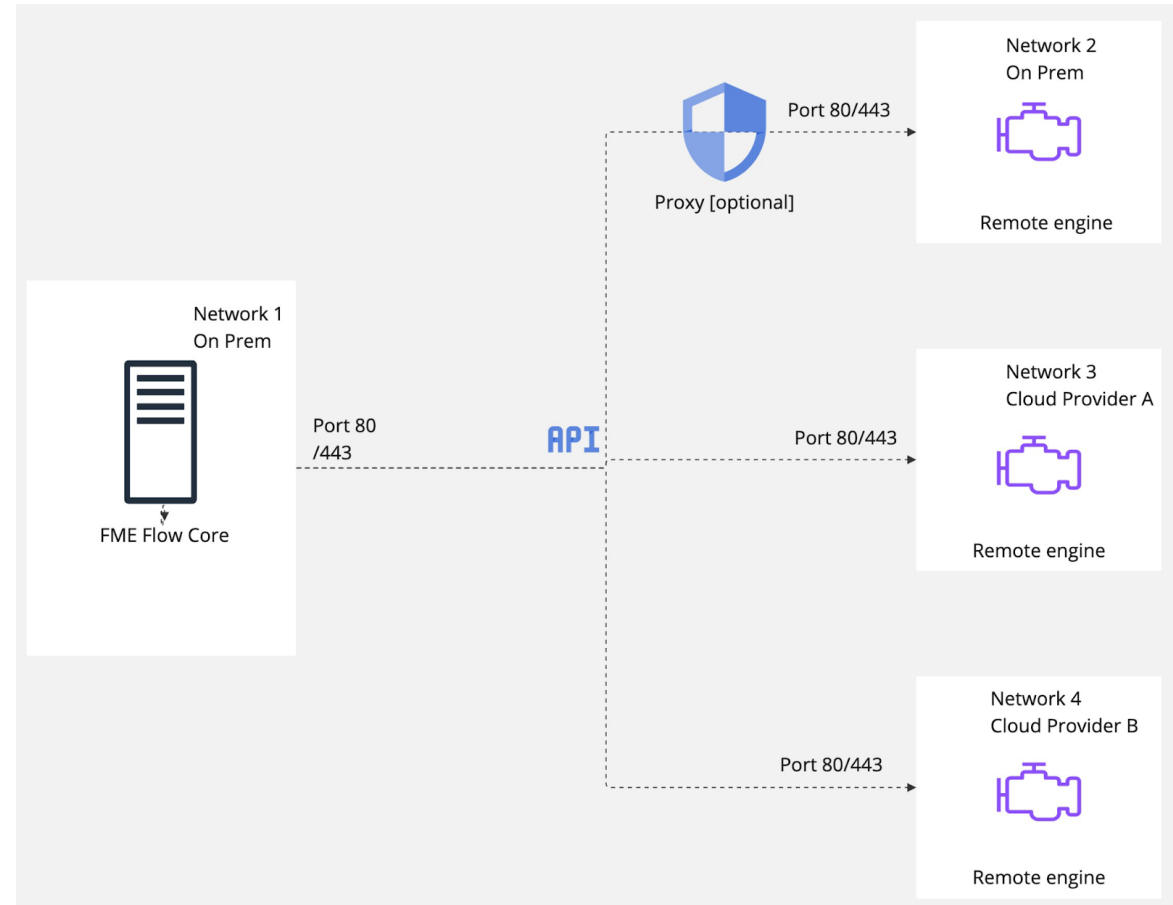
2023 - Deployment parameters



2023 - Remote Engine Service

Remote Engines allow you to deploy FME anywhere (such as Azure Functions or Google Cloud Functions).

- Better performances
- Higher security
- Greater Flexibility
- Easier management



2023 - Compare Workspaces

NONE — NONE (Untitled) - FME Workbench 2023.0

File Edit View Readers Transformers Writers Run Tools Help

New Open Save Run Stop Undo Redo Select Pan Zoom In Zoom Out FME Flow Connection Training FME Flow Reader Writer Transformer Annotation Bookmark Center Middle Publish

Compare Workspaces X

Editable "C:\Users\lsanderson\Documents\Safe Projects\Compare\Spatial-Test.fmw"

Main

EOPACKAGE]

container

DGCGEOPACKAGE]

SpatialFilter

Filter

Candidate

Passed

Failed

<Rejected>

Tester

Passed

Failed

Read-Only "C:\Users\lsanderson\Documents\Safe Projects\Compare\Spatial.fmw"

Main

EOPACKAGE]

container

DGCGEOPACKAGE]

SpatialFilter

Filter

Candidate

Passed

Failed

<Rejected>

Spatial Predicate to Test: "Filter OGC-Intersects Candidate"

trash_container: Spatial [SHAPEFILE]

trash_container

Readers (0/0)

Reader Feature Types (0/0)

Writers (1/1)

There is no corresponding component on this side.

Writer Feature Types (1/1)

There is no corresponding component on this side.

Readers (0/0)

Reader Feature Types (0/0)

Writers (1/1)

Spatial [SHAPEFILE] Details

Writer Feature Types (1/1)

trash_container Details

Swap

Nav

Sync

Help

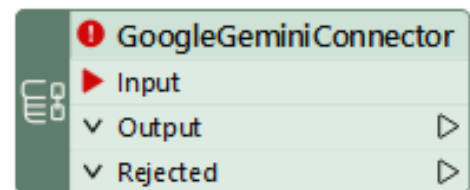
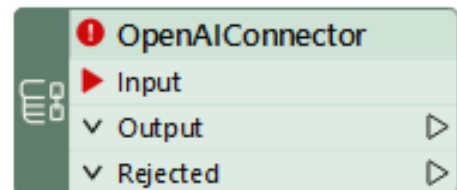
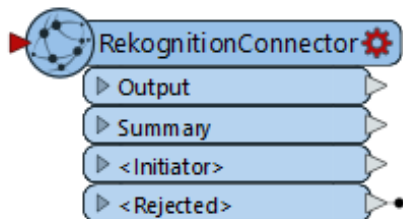
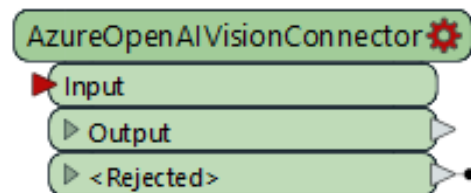
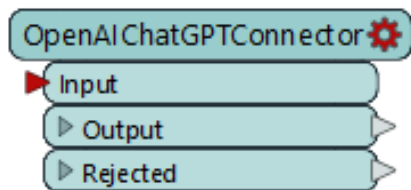
Filter

Copy to Left



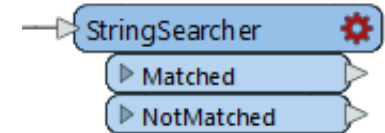
2023.1+ - AI Connectors

- Open AI
- Azure
- Amazon
- Google
- ...

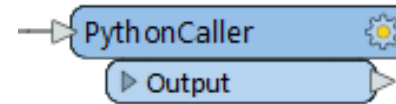


2023.1+ - AI Assist regex, Python & SQL

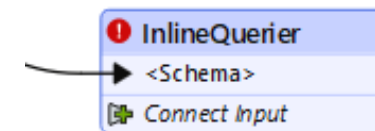
- **Regex:** StringReplacer, StringSearcher, ...



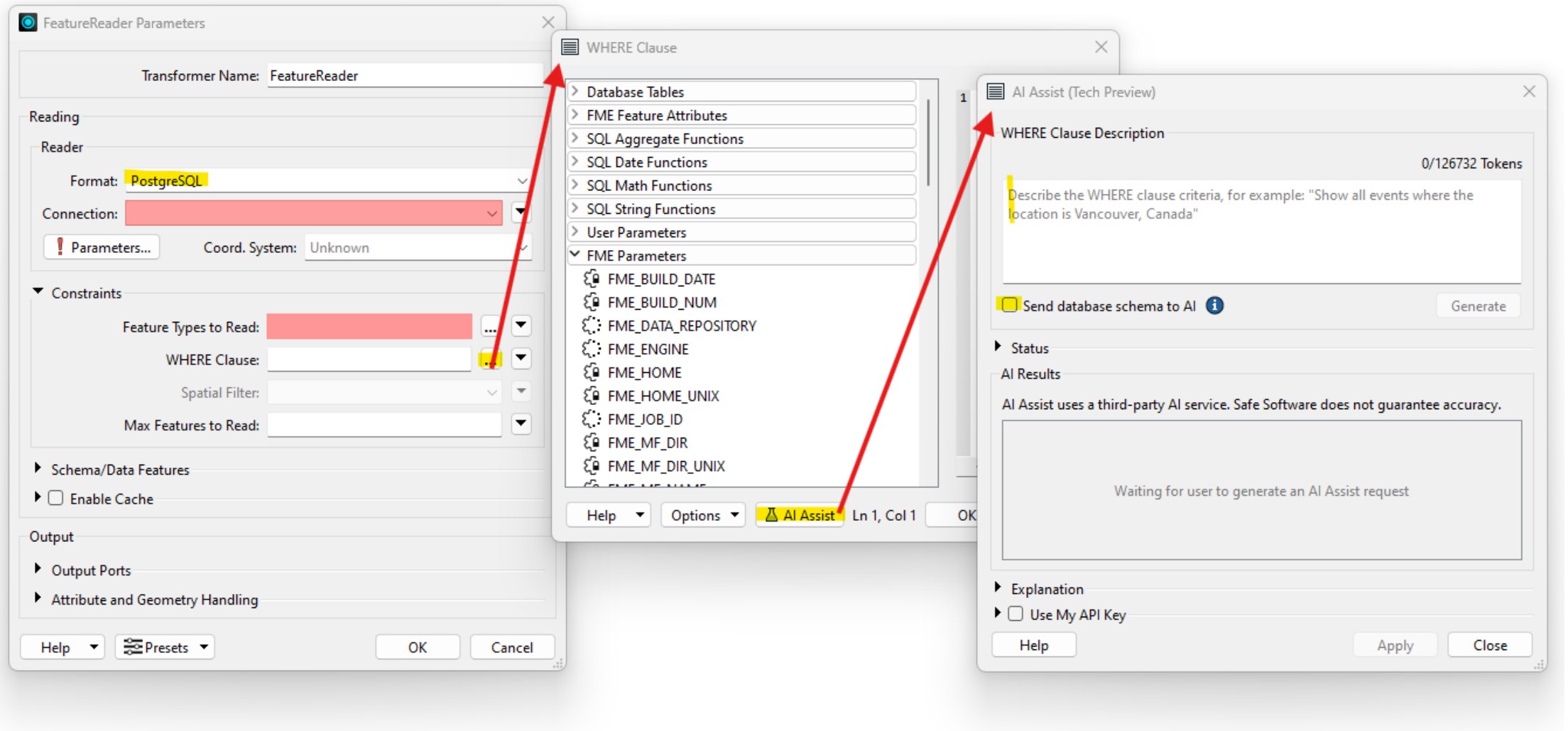
- **Python:** PythonCaller, PythonCreator, ...



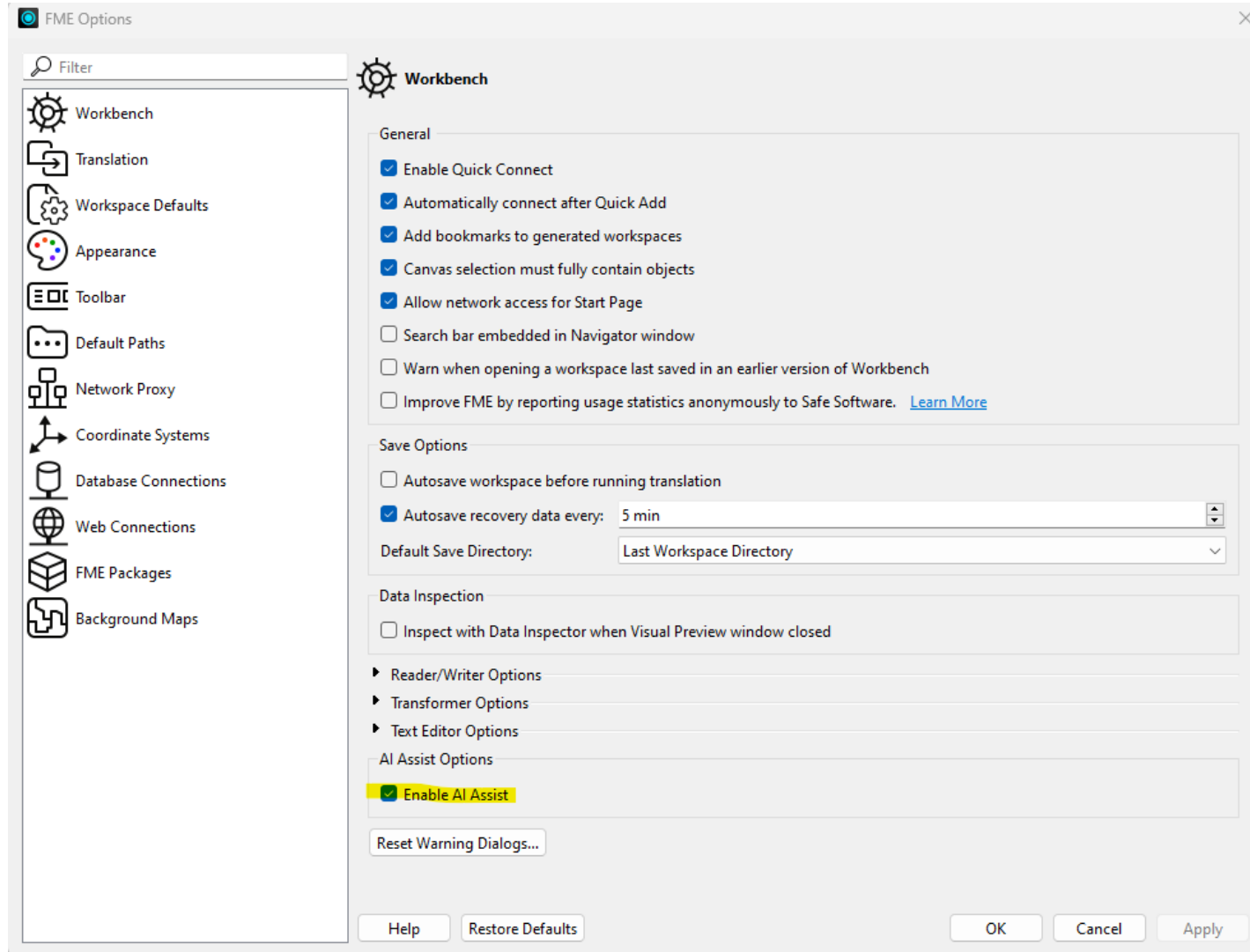
- **SQL:** InlineQuerier, Readers, Writers, ...



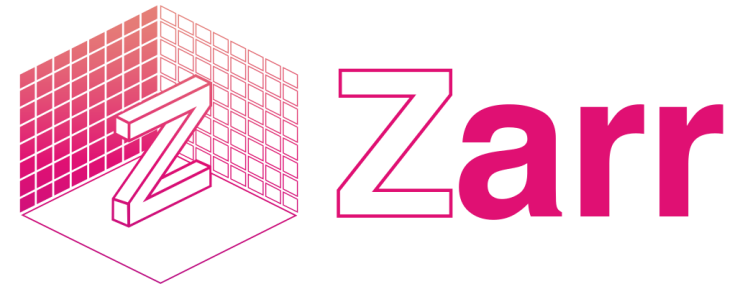
2023.1+ - AI Assist regex, Python & SQL



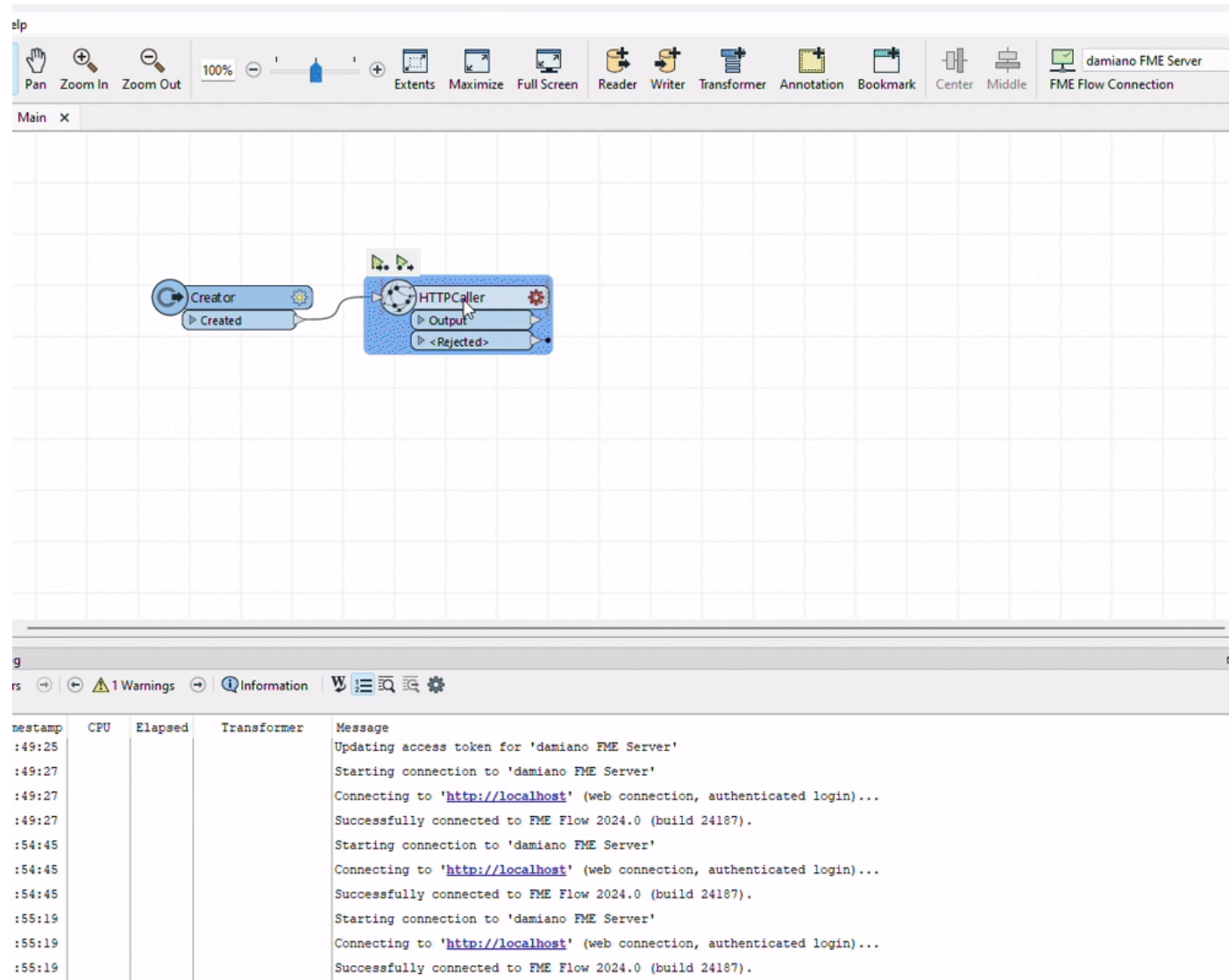
2024 - AI Assist regex, Python & SQL



2023.1 – New Cloud Optimized Formats



2023.1 - Import parameters from Swagger in HTTPCaller



The screenshot displays the FME Desktop interface. The main workspace shows a workflow with a **Creator** transformer connected to an **HTTPCaller** transformer. The **HTTPCaller** transformer has two output ports: **Output** and **<Rejected>**. The interface includes a toolbar with various tools like Pan, Zoom In, Zoom Out, Extents, Maximize, Full Screen, Reader, Writer, Transformer, Annotation, Bookmark, Center, Middle, and FME Flow Connection. The console window at the bottom shows a log of messages:

Timestamp	CPU	Elapsed	Transformer	Message
:49:25				Updating access token for 'damiano FME Server'
:49:27				Starting connection to 'damiano FME Server'
:49:27				Connecting to ' http://localhost ' (web connection, authenticated login)...
:49:27				Successfully connected to FME Flow 2024.0 (build 24187).
:54:45				Starting connection to 'damiano FME Server'
:54:45				Connecting to ' http://localhost ' (web connection, authenticated login)...
:54:45				Successfully connected to FME Flow 2024.0 (build 24187).
:55:19				Starting connection to 'damiano FME Server'
:55:19				Connecting to ' http://localhost ' (web connection, authenticated login)...
:55:19				Successfully connected to FME Flow 2024.0 (build 24187).



2023.1 - Verified Publishing Tier HUB

Publisher Tiers

Community

A diverse range of content, anyone in the FME community can create content. There are no maintenance or quality requirements.

Verified

Secure, production-quality solutions from trusted companies and individuals. Built for ongoing maintenance, these solutions provide peace of mind for critical workflows.

Official

A selection of high-quality content exclusively provided by Safe Software, ensuring reliability and ongoing support.

Apply to be a Verified FME Hub Publisher.

Contribute and maintain production quality content on FME Hub by becoming a Verified Publisher.

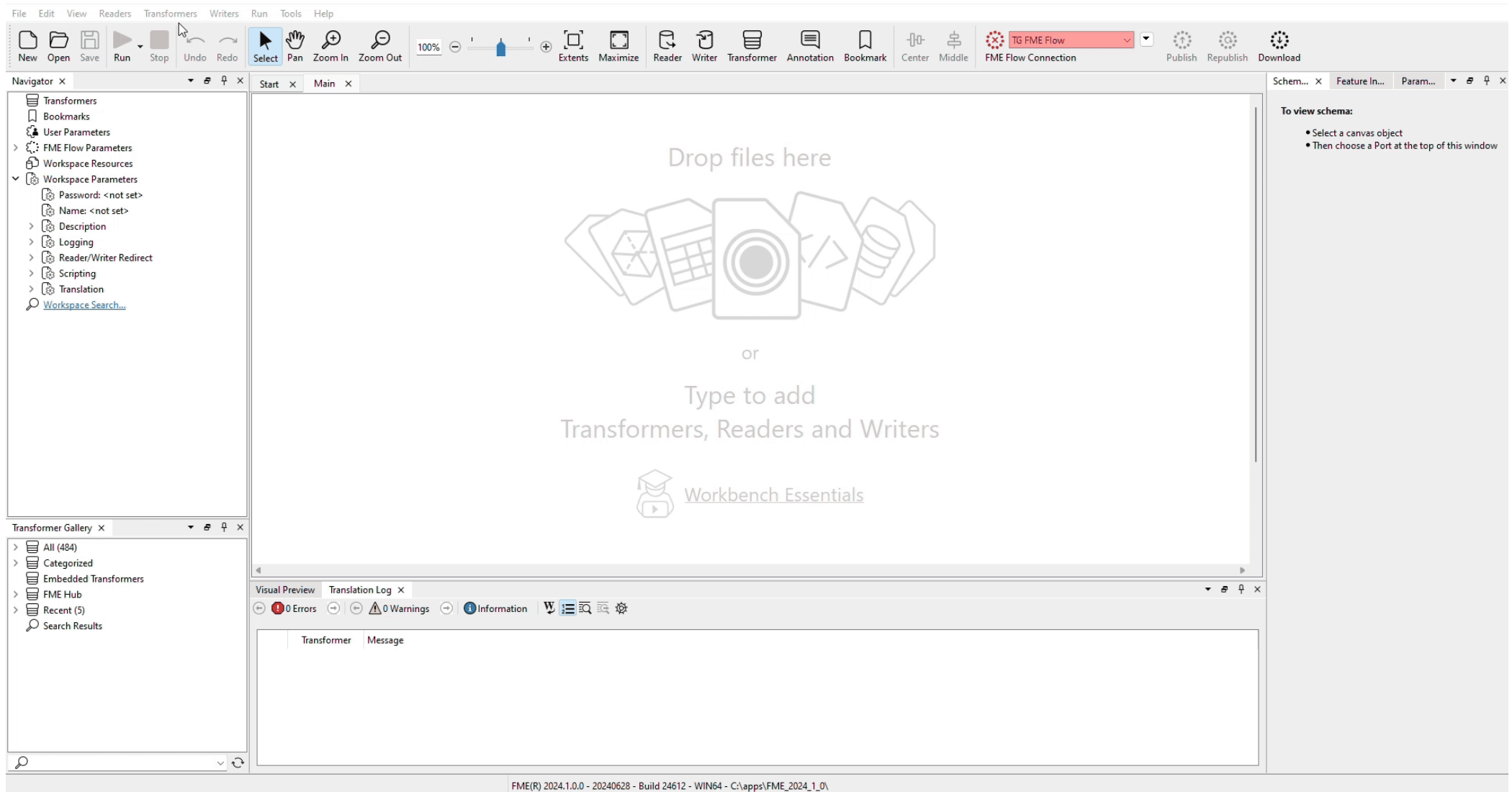
[Apply Now](#)



2024 - Upgrade all Transformers at once

The screenshot displays the FME Desktop software interface. The main workspace shows a workflow of six transformers connected in a sequence: **Creator** (with a 'Created' output), **AttributeCreator** (with 'Input' and 'Output' ports), **PythonCaller** (with 'Input' and 'Output' ports, highlighted with a yellow tooltip showing 'Tolérance: 0.4'), **Tiler** (with 'Input' and 'Tiled' outputs), **Counter** (with 'Input' and 'Output' ports), and **Tester** (with 'Input', 'Passed', and 'Failed' outputs). The interface includes a menu bar (File, Edit, View, Readers, Transformers, Writers, Run, Tools, Help), a toolbar with icons for New, Open, Save, Run, Stop, Undo, Redo, Select, Pan, Zoom In, Zoom Out, Extents, Maximize, Reader, Writer, Transformer, Annotation, Bookmark, Center, Middle, and FME Flow Connection. The Navigator panel on the left shows a tree view of the workspace contents, including Transformers (11), Upgradeable Transformers (11), Bookmarks (2), User Parameters (2), FME Flow Parameters, Deployment Parameters, Workspace Resources, Workspace Parameters, and a Workspace Search... field. The Feature Information panel on the right is currently empty. The Visual Preview panel at the bottom shows a message: 'To view data: Run with caching enabled and select a canvas object. Click View source data. Drop files here.'

2024 - UI Upgrade, Save Layouts of Windows



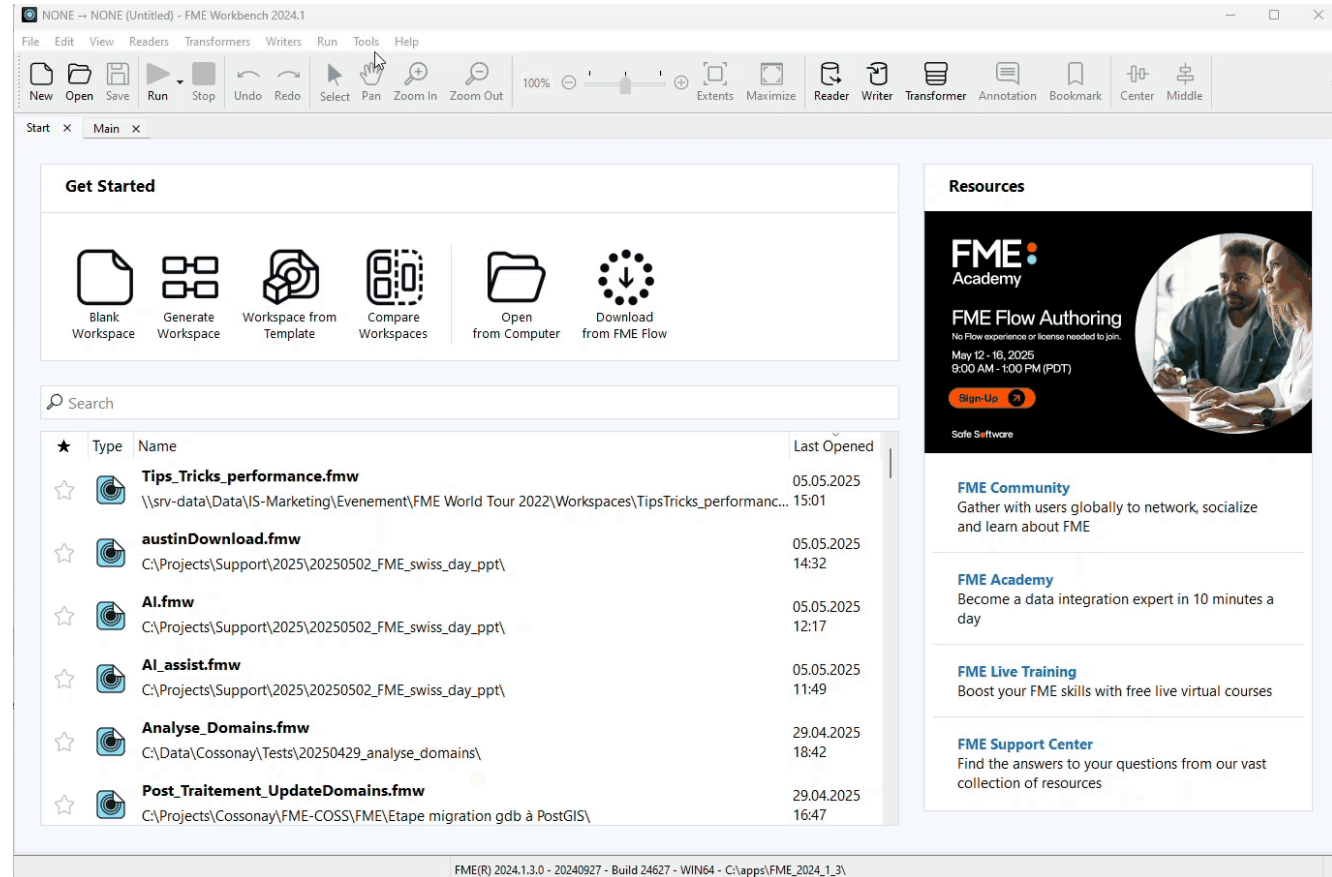
2024 - Improved Data Connection Store

FME Form 2023

- Private connections used a private .fmeks key file
- Public connections used a public .fmeks key file and a shared connection path

FME Form 2024+

- Personal (formerly private) connections use the operating system's encryption functionality, removing the key file
- Public connection still use a key file, but it is managed by FME Form. Only the shared location needs to be specified, not the file itself



2024 – Schema Preview Window

The screenshot displays a GIS software interface with a main workspace and a 'Schema Preview' window on the right.

Main Workspace:

- 2.1:** A process box containing:
 - imp_hst.imp...triebepunkt** (orange box) with a callout: `integritaetsstatus = 'strukturell_korrekt'`
 - gbd.be...spunkt** (orange box) with a callout: `bearbeitungseinheit = true`
- 2.2: Set operationscode to NULL** (blue box) containing:
 - Attribut...ueMapper** (blue box) connected to **GeometryExtractor** (blue box).
 - Sampler** (blue box) connected to **SQL...or_4** (blue box).
 - SQL...or_4** (blue box) with a callout: `set operationscode = NULL where bearbeitungseinheit = 'true';`
 - Geometr...actor_2** (blue box) connected to the **SQL...or_4** box.

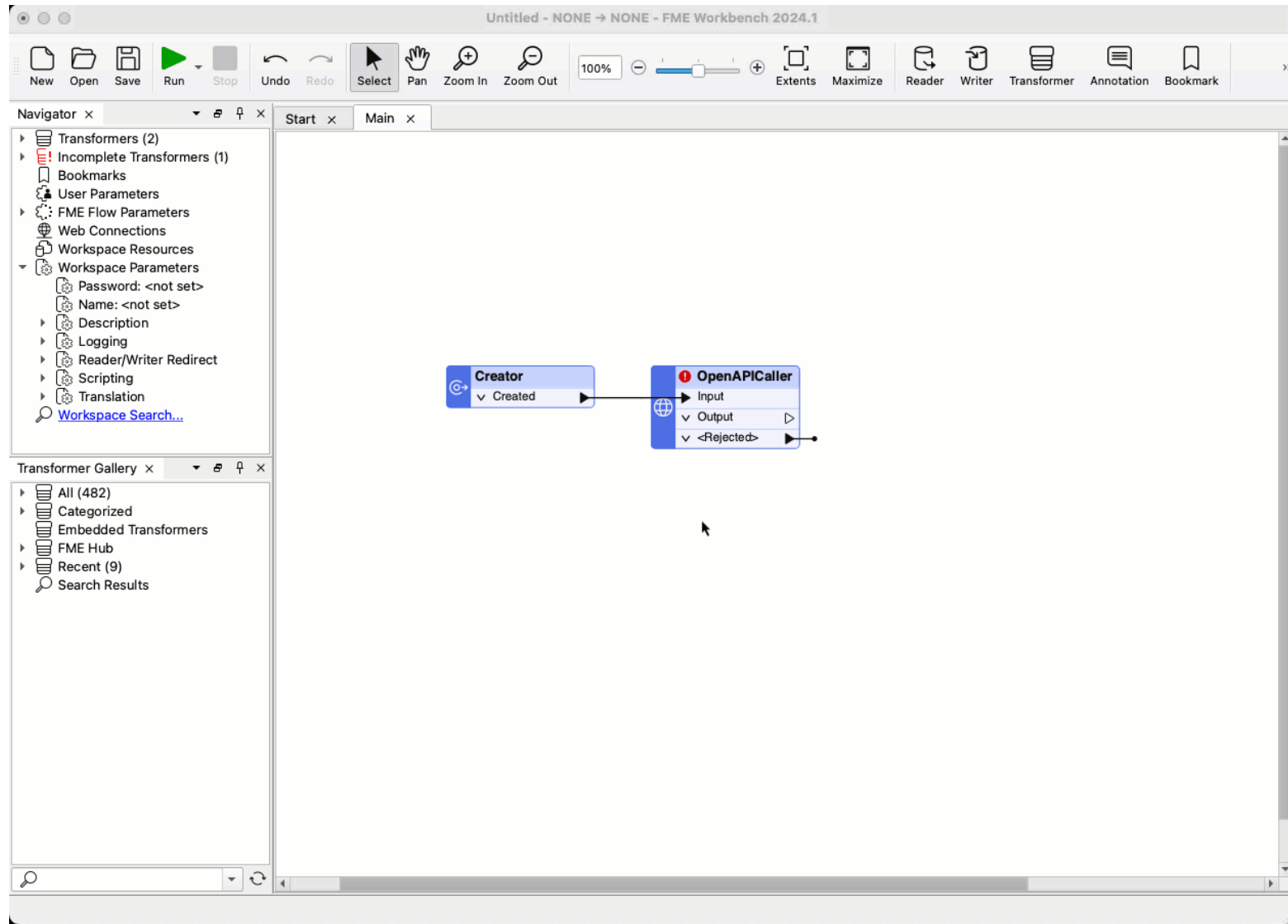
Schema Preview Window:

Viewing: bav.admin.ch-bav_gbd [POSTGIS]: imp_hst.imp_betrieb:

Property	Data Type
Attributes	
interlis_oid	varchar(16)
nummer	numeric(7,0)
name	varchar(50)
abkuerzung	varchar(6)
fk_transportunternehmen	varchar(16)
fk_transportunternehmen_ck	varchar(50)
betriebspunkttyp	varchar(50)
gemeinde_nummer	numeric(4,0)
gemeinde_name	varchar(40)
fk_uebergeordnet	varchar(16)
fk_uebergeordnet_ck	numeric(7,0)
beginn_gueltigkeit	date
ende_gueltigkeit	date
operationscode	varchar(50)
datenquelle	varchar(50)
integritaetsstatus	varchar(50)
status	varchar(20)
anmerkung	varchar(100)
fme_feature_type	char(50)
Geometry	
<no name>	spatial



2024.1 – OpenAPICaller Transformer



2024.1 - Preview and Test HTTPCaller Parameters

The screenshot displays the FME Desktop application interface. The top menu bar includes File, Edit, View, Readers, Transformers, Writers, Run, Tools, and Help. Below the menu is a toolbar with icons for New, Open, Save, Run, Stop, Undo, Redo, Select, Pan, Zoom In, Zoom Out, Extents, Maximize, Reader, Writer, Transformer, Annotation, Bookmark, Center, Middle, and FME Flow Connection. The left sidebar contains a Navigator pane with a tree view showing Transformers (2), Bookmarks, User Parameters, FME Flow Parameters, Deployment Parameters, Web Connections, Workspace Resources, Workspace Parameters, and a Workspace Search... option. The main canvas shows a workflow with a Creator transformer connected to an HTTPCaller transformer. The HTTPCaller transformer has three output ports: Input, Output, and <Rejected>. The bottom right pane is the Visual Preview pane, which contains a list of workspace objects and a section titled "To view data:" with instructions: "Run with caching enabled and select a canvas object", "Click View source data", and "Drop files here".

File Edit View Readers Transformers Writers Run Tools Help

New Open Save Run Stop Undo Redo Select Pan Zoom In Zoom Out 100% Extents Maximize Reader Writer Transformer Annotation Bookmark Center Middle FME Flow Connection

Navigator x Start x Main x

- Transformers (2)
- Bookmarks
- User Parameters
- FME Flow Parameters
- Deployment Parameters
- Web Connections
- Workspace Resources
- Workspace Parameters
- Workspace Search...

Creator

- Created

HTTPCaller

- Input
- Output
- <Rejected>

Transforme...

- All (497)
- Categorized
- Embedded Transformers
- FME Hub
- Recent (10)
- Search Results

Visual Preview x

To view data:

- Run with caching enabled and select a canvas object
- Click View source data
- Drop files here

2024.1 - Parameter Annotations

The screenshot displays the FME 2024.1 software interface. The top menu bar includes File, Edit, View, Readers, Transformers, Writers, Run, Tools, and Help. Below the menu is a toolbar with icons for New, Open, Save, Run, Stop, Undo, Redo, Select, Pan, Zoom In, Zoom Out, Extents, Maximize, Reader, Writer, Transformer, Annotation, Bookmark, Center, Middle, and FME Flow Conn.

The main workspace shows a workflow diagram with the following components:

- CEV_TB_METEO** (Reader transformer) connected to the **Input** of **AttributeCreator**.
- AttributeCreator** (Transformer) with its **Output** connected to a connector node.
- OpenAICompletionsConnector** (Transformer) with its **Input** connected to the connector node.

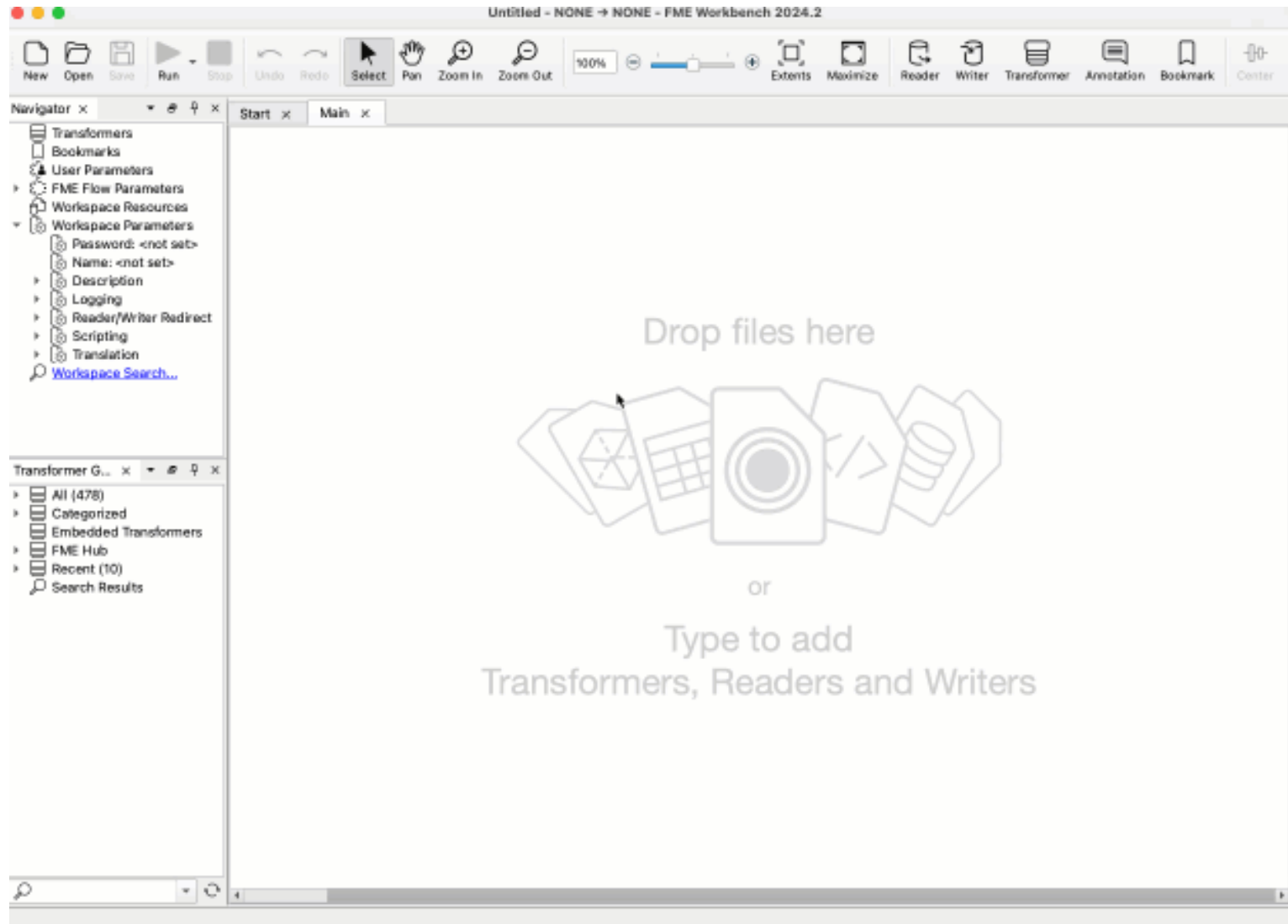
The **AttributeCreator** transformer is highlighted with a blue border. The **OpenAICompletionsConnector** transformer has three output ports: **Output**, **Rejected**, and **Rejected**.

The left sidebar contains the **Navigitor** and **Transformer Gallery** panels. The **Navigitor** panel shows a tree view of the workspace structure, including CEV_StorMe [FILEGDB], Transformers (3), Bookmarks, User Parameters (2), FME Flow Parameters, Deployment Parameters, Workspace Resources, Workspace Parameters, and Workspace Search... The **Transformer Gallery** panel shows a list of transformers, including All (497), Categorized, Embedded Transformers, FME Hub, Recent (10), and Search Results.

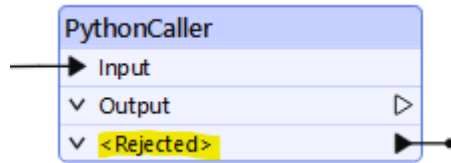
The bottom panel is the **Visual Preview** area, which is currently empty. It includes a toolbar with icons for View, Data, and Information. Below the toolbar, there is a section titled **To view data:** with the following instructions:

- Run with caching enabled and select a canvas object
- Click **View source data** (icon)
- Drop files here

2024.1 - Improved Quick Add with filters/settings



2024.1 - PythonCaller Rejected Port



PythonCaller Parameters

Transformer Name: PythonCaller

☐ Group Processing

Python Script

Class to Process Features: FeatureProcessor

FME Feature Attributes
No Attributes Available

User Parameters

FME Parameters

Deployment Parameters

Expand categories to see items
Drag or double-click an item to add the corresponding text

Options AI Assist

```
28
29
30 def close(self):
31     """This method is called once all the FME Features have been processed from input()."""
32     pass
33
34 def process_group(self):
35     """This method is called by FME for each group when group processing mode is enabled."""
36     pass
37
38 def reject_feature(self, feature: fmeobjects.FMEFeature, code: str, message: str):
39     """This method can be used to output a feature to the <Rejected> port."""
40     feature.setAttribute("fme_rejection_code", code)
41     feature.setAttribute("fme_rejection_message", message)
42     self.pyoutput(feature, output_tag="<Rejected>")
```

Output Attributes

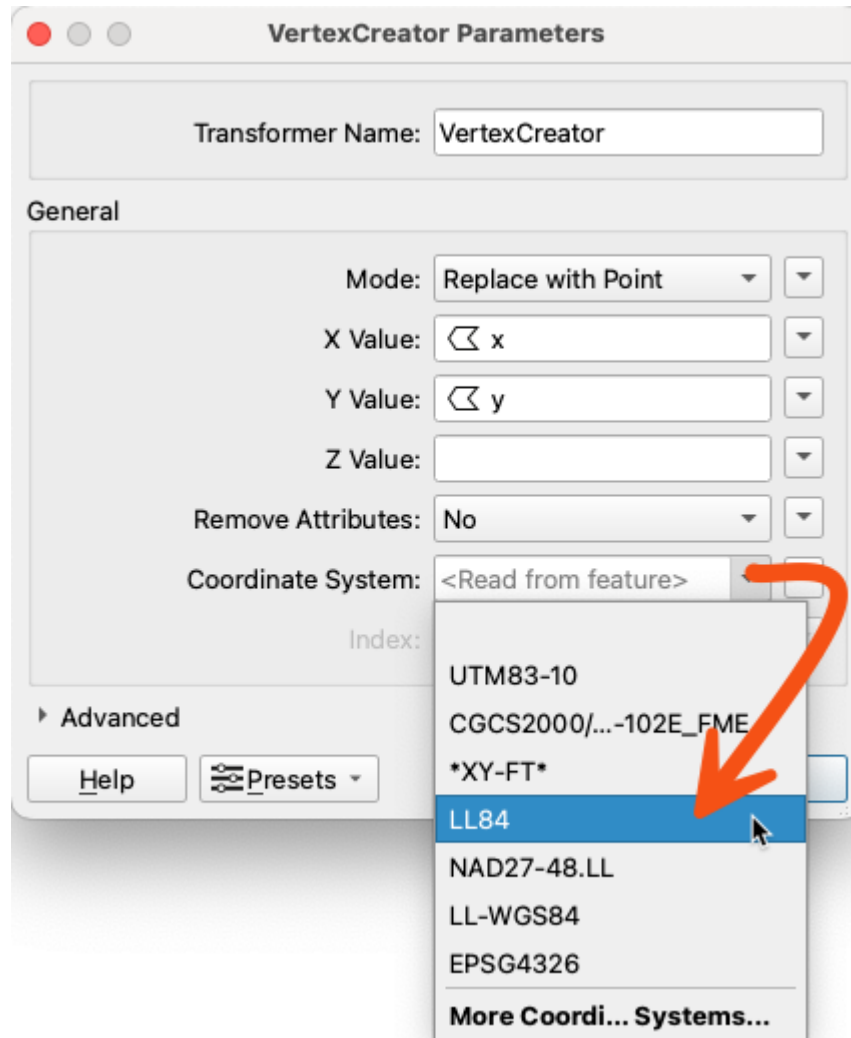
Attributes to Expose: ...

Attributes To Hide: No Attributes Available ...

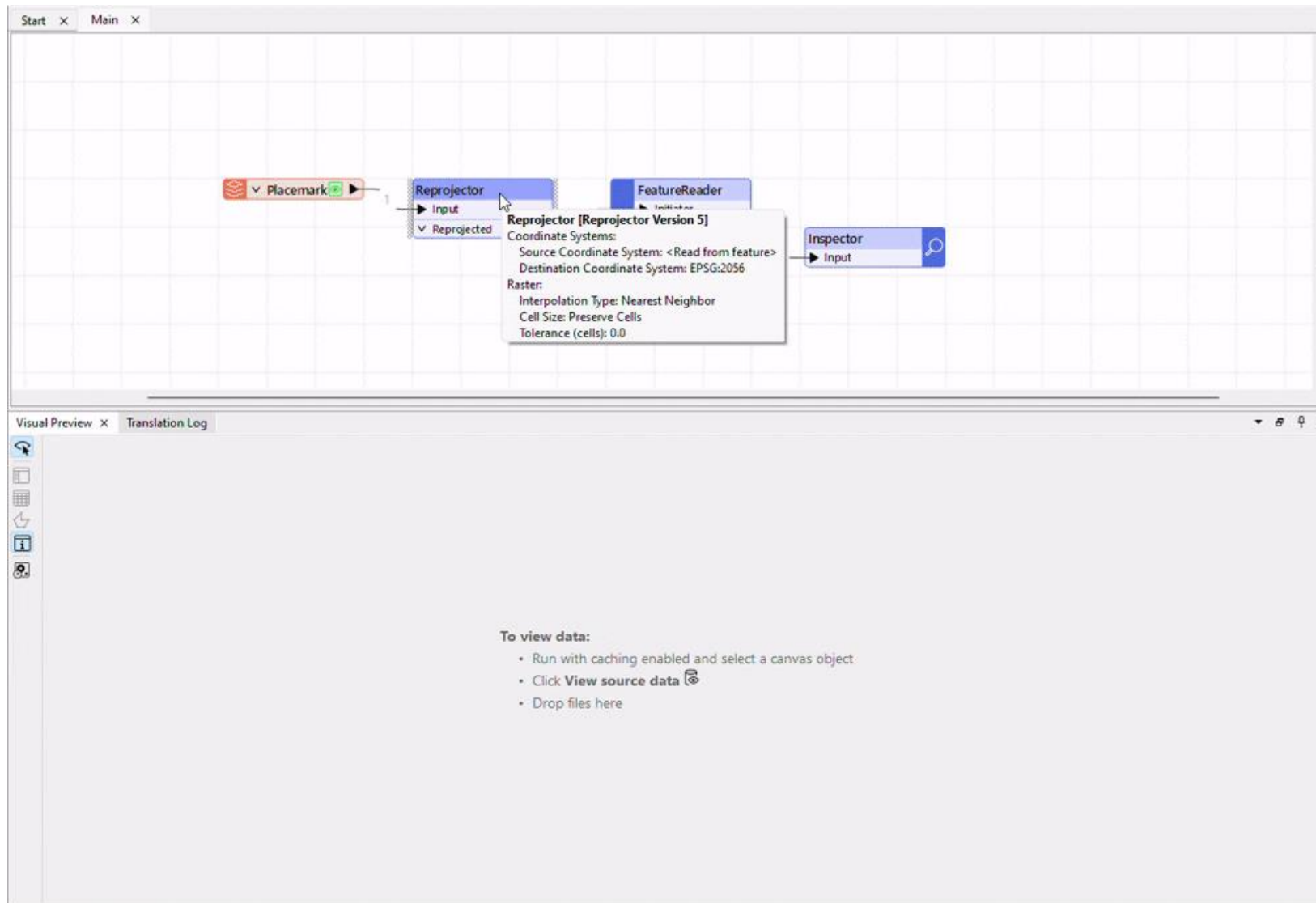
Lists to Hide: No Attributes Available ...

Help Presets Cancel OK

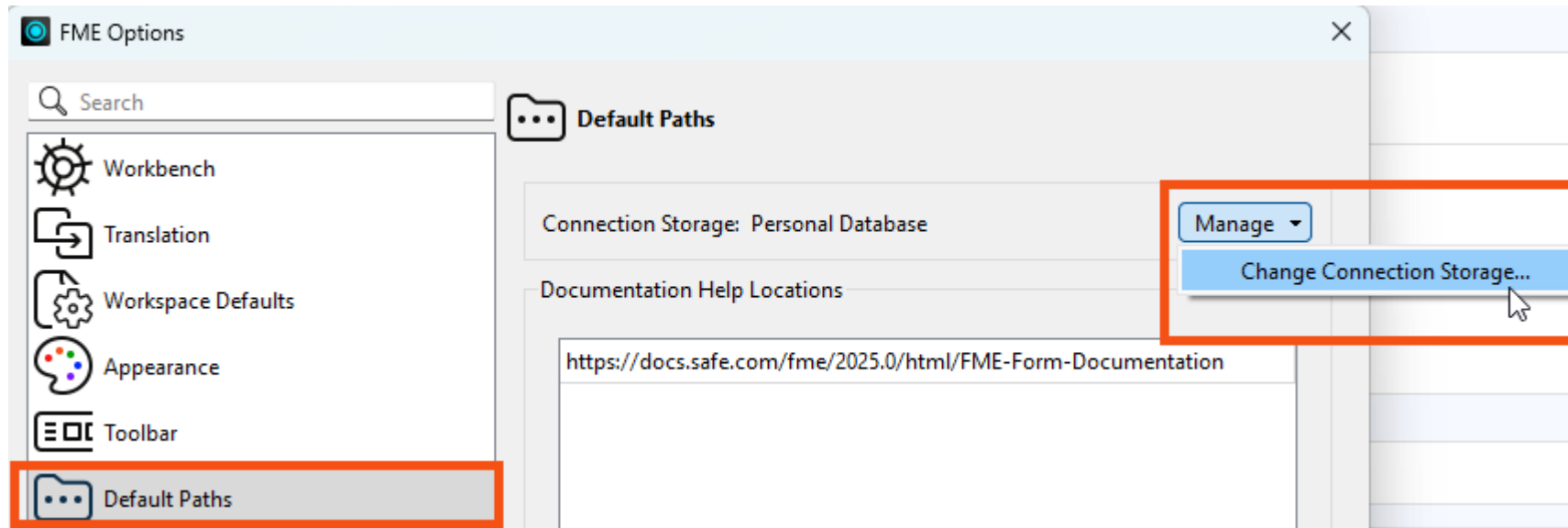
2024.2 – VertexCreator receives Coordinate System Parameter



2024.2 – FeatureReader Clip to Initiator Envelope



2025 - FME Flow as Connection Storage



Connections Access ☒ Create ☐ Manage ☐ ^

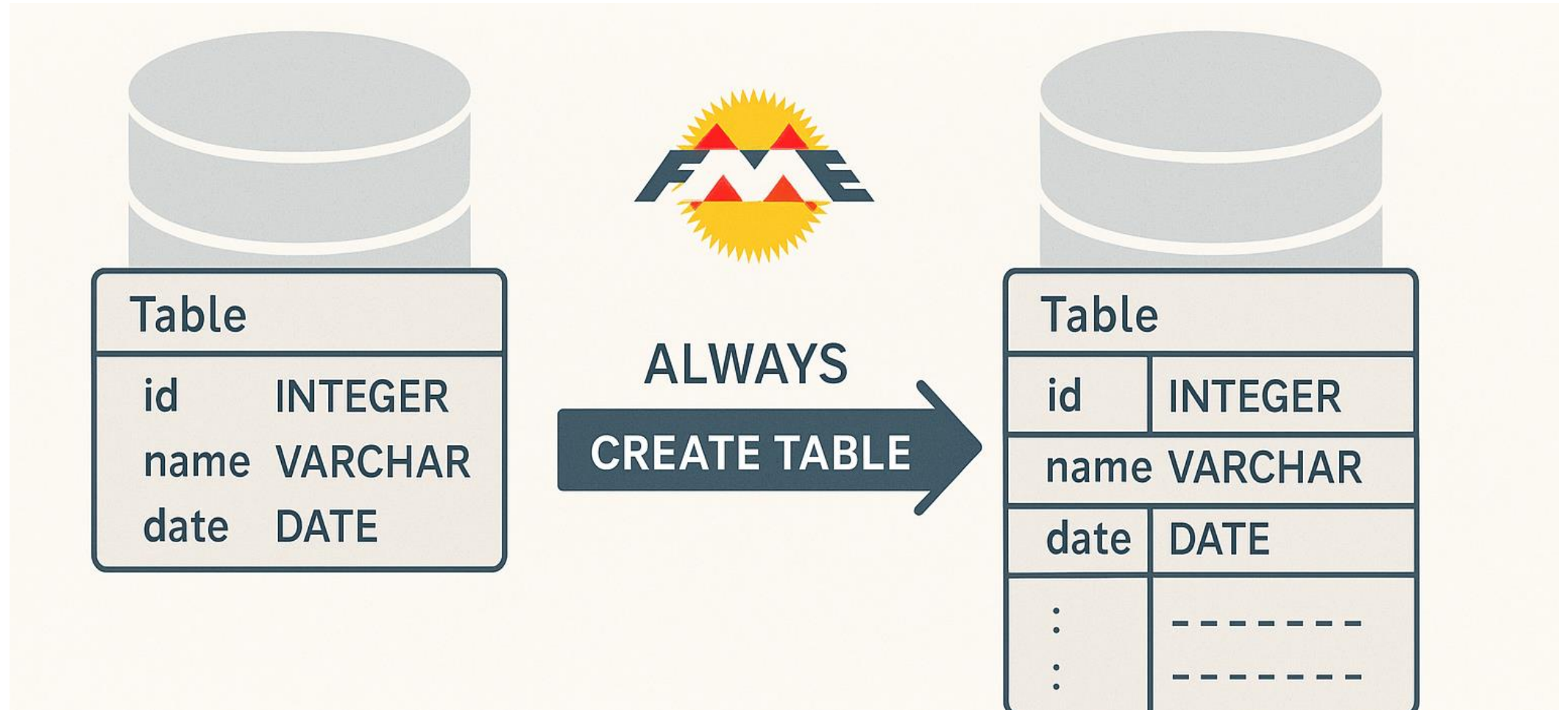
sql server prod Select All Deselect All

	NAME	OWNER	RUN	WRITE	SUMMARY
	SQL Server Prod	admin	☒	☐	Can Run ▼

Showing 1 to 1 of 1 entries



2025 - Schem-only tables

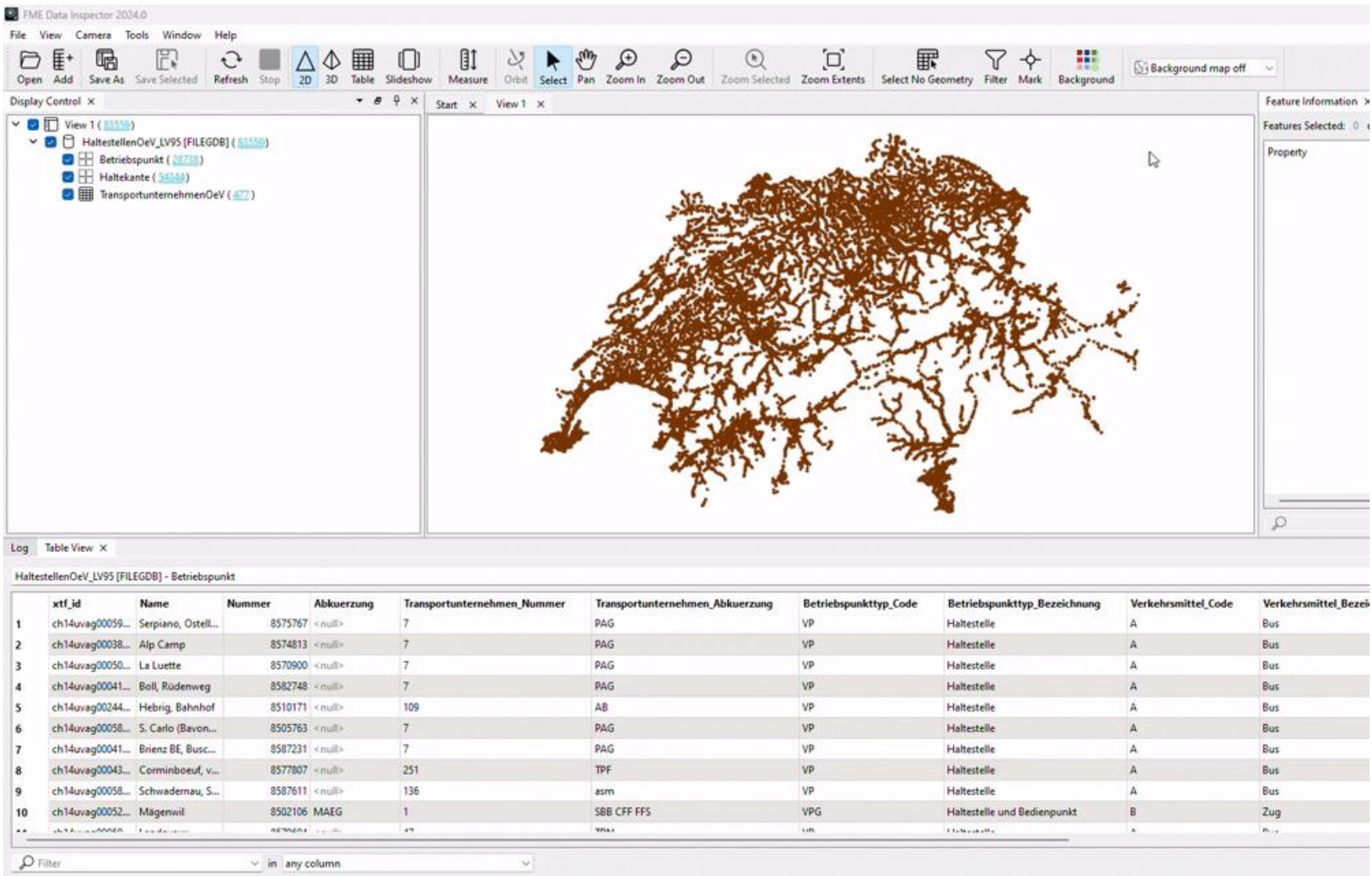


FME Swiss Day hosted by INSER

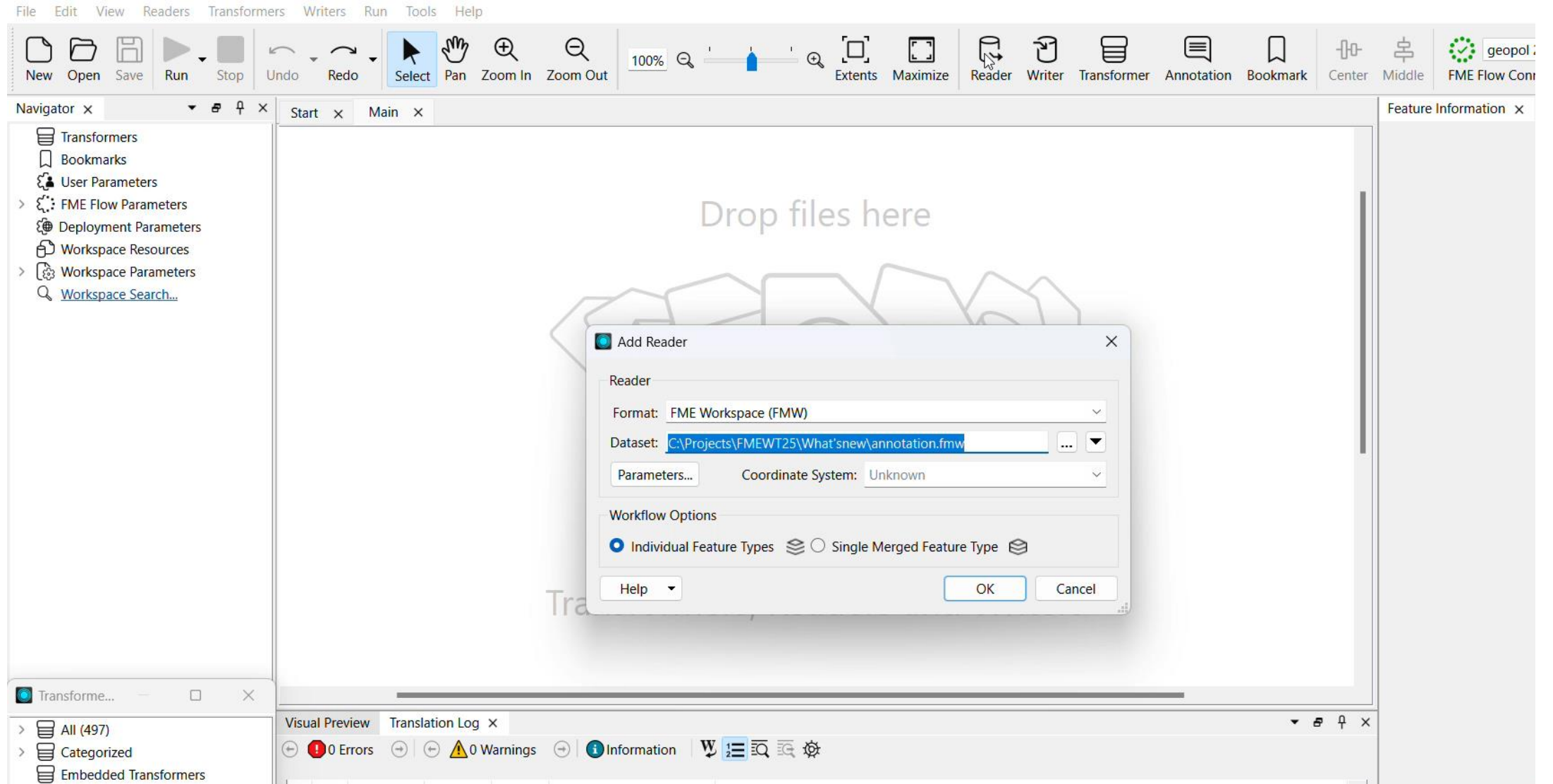
Tips & tricks



Swisstopo Basemap - <https://wms.geo.admin.ch>



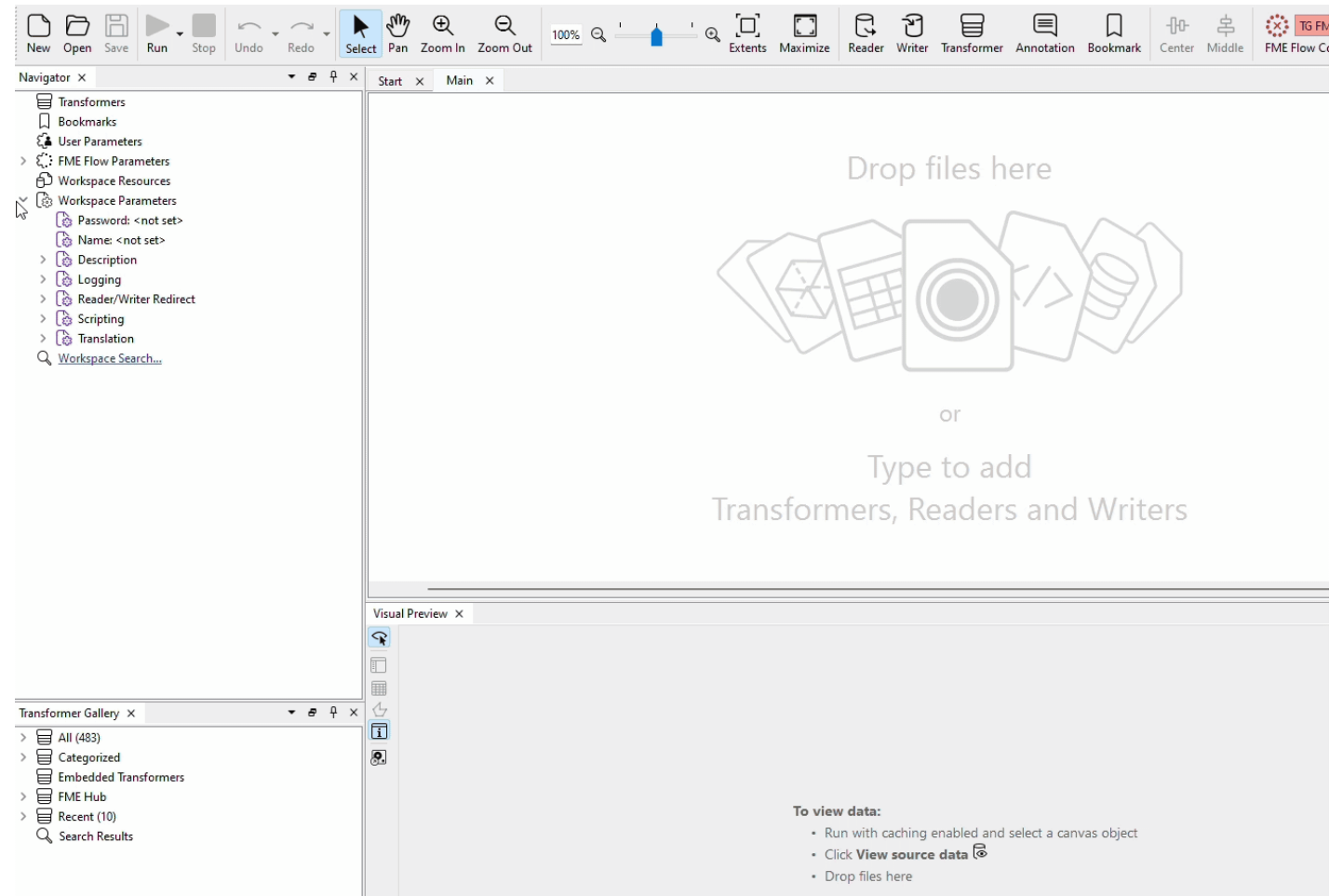
FMW Reader for Migration



General workspace information

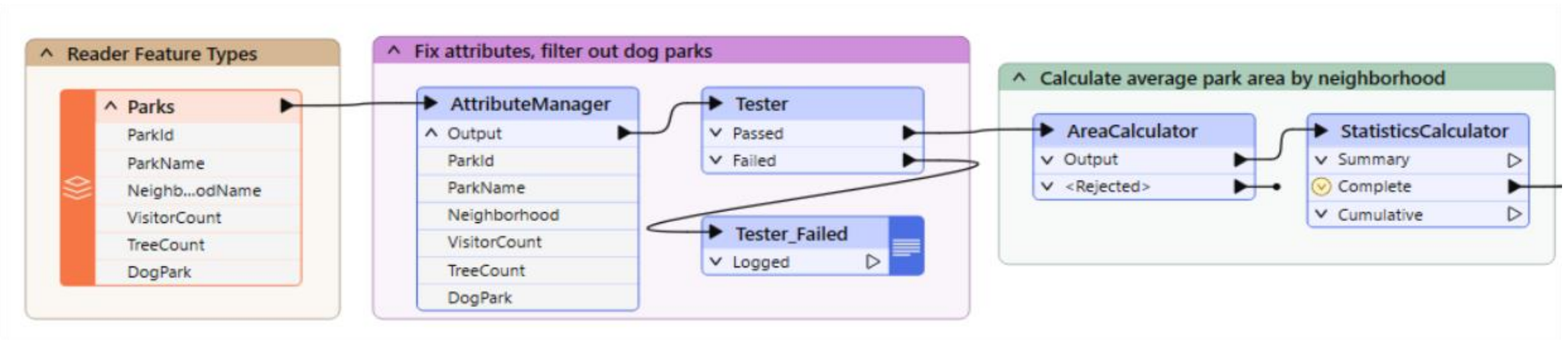
To be defined in workspace metadata (Workspace Parameters > Description):

- Workspace name
- Overview
- Help
- History



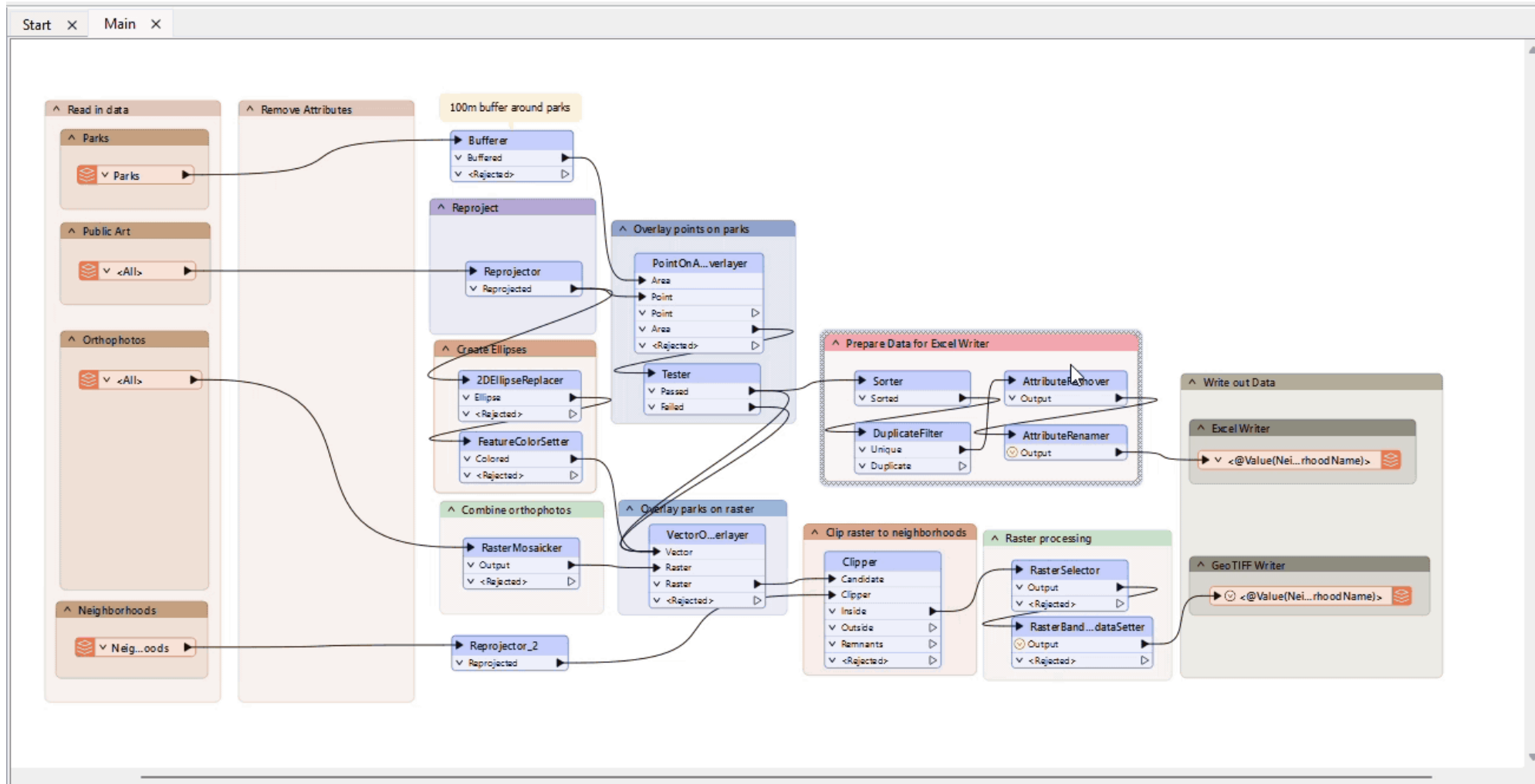
Bookmarks

- Organize a workspace



Bookmarks

- Collapse bookmarks



Bookmarks

■ Bookmarks in the Navigator

The screenshot displays the FME Desktop interface with a workflow canvas and a Navigator panel. The Navigator panel on the left lists various data sources and transformers, with a bookmark icon next to each item. The workflow canvas shows a series of transformers connected by lines, including 'Read in data', 'Remove Attributes', '100m buffer around parks', 'Reproject', 'Overlay points on parks', 'Prepare Data for Excel Writer', 'Write out Data', 'Clip raster to neighborhoods', 'Raster processing', and 'Geotiff Writer'. The 'Prepare Data for Excel Writer' transformer is highlighted with a blue selection box. The 'Visual Preview' panel at the bottom right shows a grid of data points.

Navigator

- PublicArt [XLSXR]
- Parks [MITAB]
- VancouverNeighborhoods [OGCKML]
- Orthophotos [GEOTIFF]
- Neighborhoods [XLSXW]
- Training [GEOTIFF]
- Transformers (16)
- Upgradeable Transformers (6)
- Bookmarks (17)
 - Clip raster to neighborhoods (1)
 - Combine orthophotos (1)
 - Create Ellipses (2)
 - Excel Writer (1)
 - GeoTIFF Writer (1)
 - Neighborhoods (1)
 - Orthophotos (1)
 - Overlay parks on raster (1)
 - Overlay points on parks (2)
 - Parks (1)
 - Prepare Data for Excel Writer (4)**
 - Public Art (1)
 - Raster processing (2)
 - Read in data (4)
 - Remove Attributes
 - Reproject (1)
 - Write out Data (2)
- User Parameters (7)

Transformer Gallery

- All (483)
- Categorized
- Embedded Transformers
- FME Hub
- Recent (8)
- Search Results

Visual Preview

To view data:

- Run with caching enabled and select a canvas object
- Click **View source data**
- Drop files here

