



Integración de datos OGC API con FME

Francisco Girón Gesteira – con terra

Agenda

- Presentación
- El porqué de la integración de datos
- FME como cliente de OGC API - Features
- Ejemplos de aplicación
- FME como servidor de OGC API - Features?
- Conclusiones



con•terra

- Socio Platinum de Safe Software
- Proveedores de soluciones Esri
- Desarrolladores de con terra technologies
- European Service Center for FME



OGC API - Proyectos

- Implementación de servicios de datos conformes con INSPIRE utilizando Alternative Encodings y OGC API – Features
- <https://kreis-lippe-open-data-kreis-lippe.hub.arcgis.com/>



KREIS LIPPE

INSPIRE konforme Daten

Die nachfolgenden Daten können Sie entweder Herunterladen oder als INSPIRE konforme Dienste direkt nutzen. Klicken Sie dazu auf einen Datensatz, Filtern Sie im Bereich "Filter wählen" bei Bedarf die Daten und wählen Sie im Bereich "Herunterladen" die gewünschten Formate oder Dienste aus.



AU_Adressen_Kreis_Lippe_Public

Address (AD) INSPIRE Alternative Encoding provide streamlined data for the European INSPIRE Directive

Erkunden



OGC API - Proyectos



- Generación de nuevas plantillas de Esri Geodatabase (GDB) de INSPIRE desarrolladas siguiendo Alternative Encodings

The screenshot shows a GitHub repository page for [Esri / inspire_open_data](#). The repository has 8 forks and 0 stars. The main branch is 'main'. A file named 'GeodatabaseEncoding.md' is displayed, which is 271 lines long and 15.9 KB in size. The file content is titled 'INSPIRE UML-to-Geodatabase encoding rule' and includes a table of contents with sections like Preface, Introduction, and Scope. On the left, there's a sidebar with a large image of a rocky landscape and text about streamlining address encoding for Esri Geodatabase.

Streamlined
Alternative Encoding ca
standard GIS clients and
With Alternative Encodi
[documentation on GitHub](#)
No 1089/2010). The foll

AD
Adresse

AD_Addresses_IN
DB_template
Addresses streamline
Esri GDB temp

Download

Search or jump to... / Pull requests Issues Marketplace Explore

Watch 8 Fork 0 Star

Sdupke Update GeodatabaseEncoding.md Latest commit b74fae9 on 7 Sep 2021 History

2 contributors

271 lines (173 sloc) | 15.9 KB

INSPRIE UML-to-Geodatabase encoding rule

Version: 0.1 Date: 2021-03-01

Table of Contents

- Preface
- Introduction
- Scope

¿Por qué integración de datos?





**Data is the most critical
business asset for any
organization.**

Challenge: Data Silos

Organizations spend a lot of money collecting data.

However, the data is often stored in unuseable formats,
siloed in other department's systems or needs to be transformed.



GIS Department



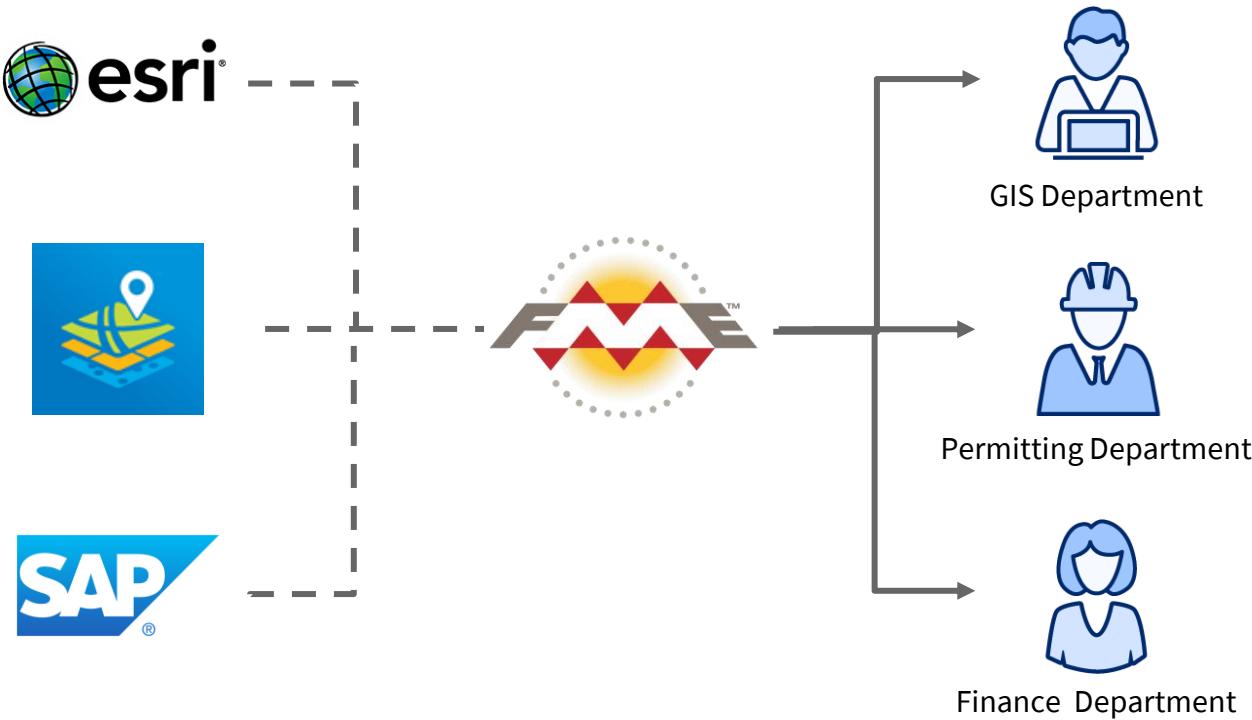
Permitting Department

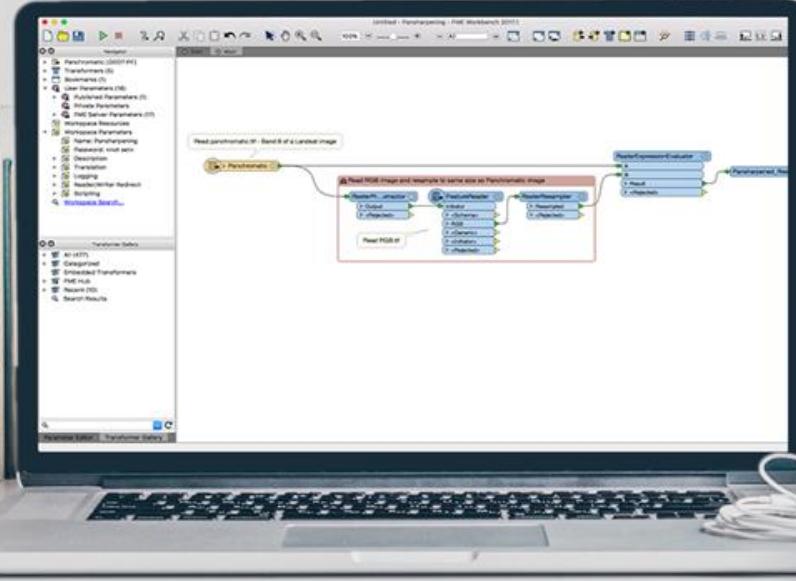


Finance Department

Solution: Data Integration

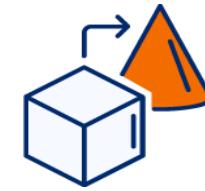
"The discipline of data integration comprises the practices, architectural techniques and tools for achieving the consistent access and delivery of data across the spectrum of data subject areas and data structure types in the enterprise to meet the data consumption requirements of all applications and business processes." - Gartner





Connect Data & Applications

Integrate data
across 450+ systems.



Transform Data

500+ powerful transformers
safe.com/transformers | hub.safe.com



Automate Workflows

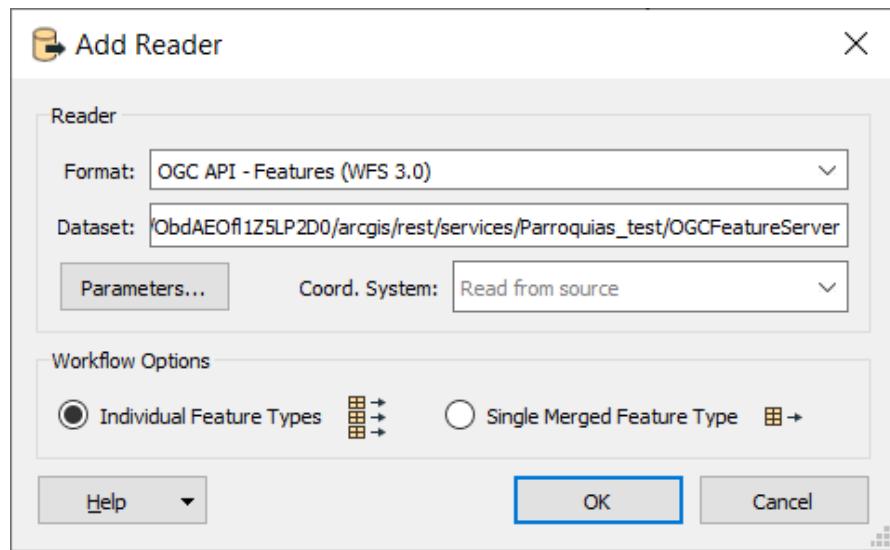
Build event based workflows in a
visual interface

Integración de datos de OGC API con FME



FME como cliente de OGC API - Features

- Reader OGC API - Features
 - Disponible desde FME 2021
 - Permite leer datos en GeoJSON
 - (otras codificaciones disponibles indirectamente)



Clients

The columns for each part list the conformance classes of the standard that conform to that conformance class.

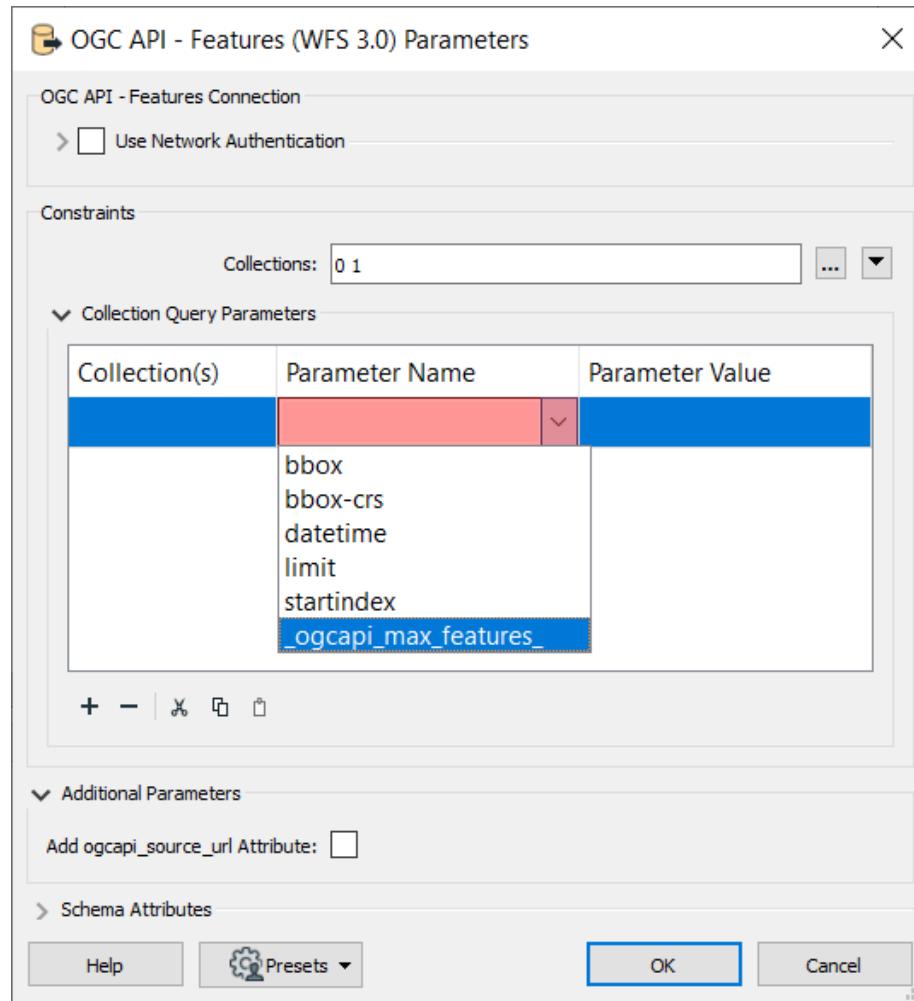
Desktop

Table 2. Desktop clients

Product	Part 1	Part 2	Part 3
QGIS	core , oas30 , geojson	-	-
FME	please consult the product documentation for details		
ArcGIS Pro	core , oas30 , geojson	-	-

Fuente: <https://github.com/opengeospatial/ogcapi-features/tree/master/implementations>

FME como cliente de OGC API - Features



- Parámetros:
 - Network Authentication
 - Collections
 - Collection Query Parameters
 - Prefefined parameters
 - Extra properties

Ejemplos de aplicación



Integración con otras fuentes de datos

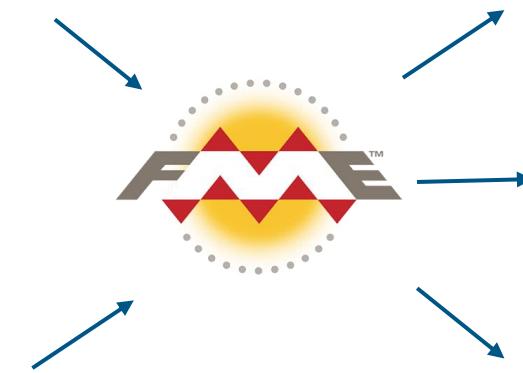


Environment
Canada

<https://api.weather.gc.ca/>



<https://opendata.vancouver.ca/>



Reports

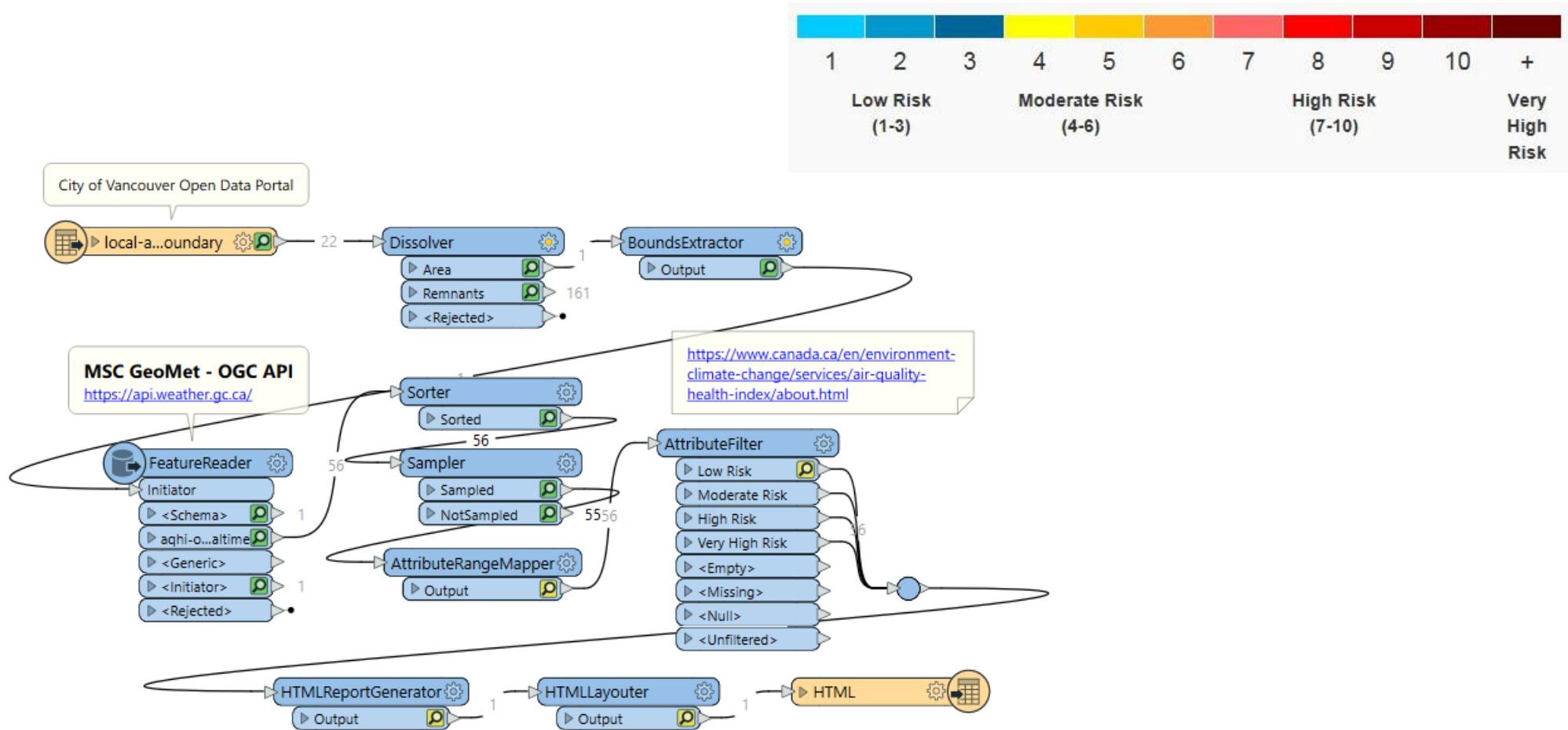


Web/ Mobile

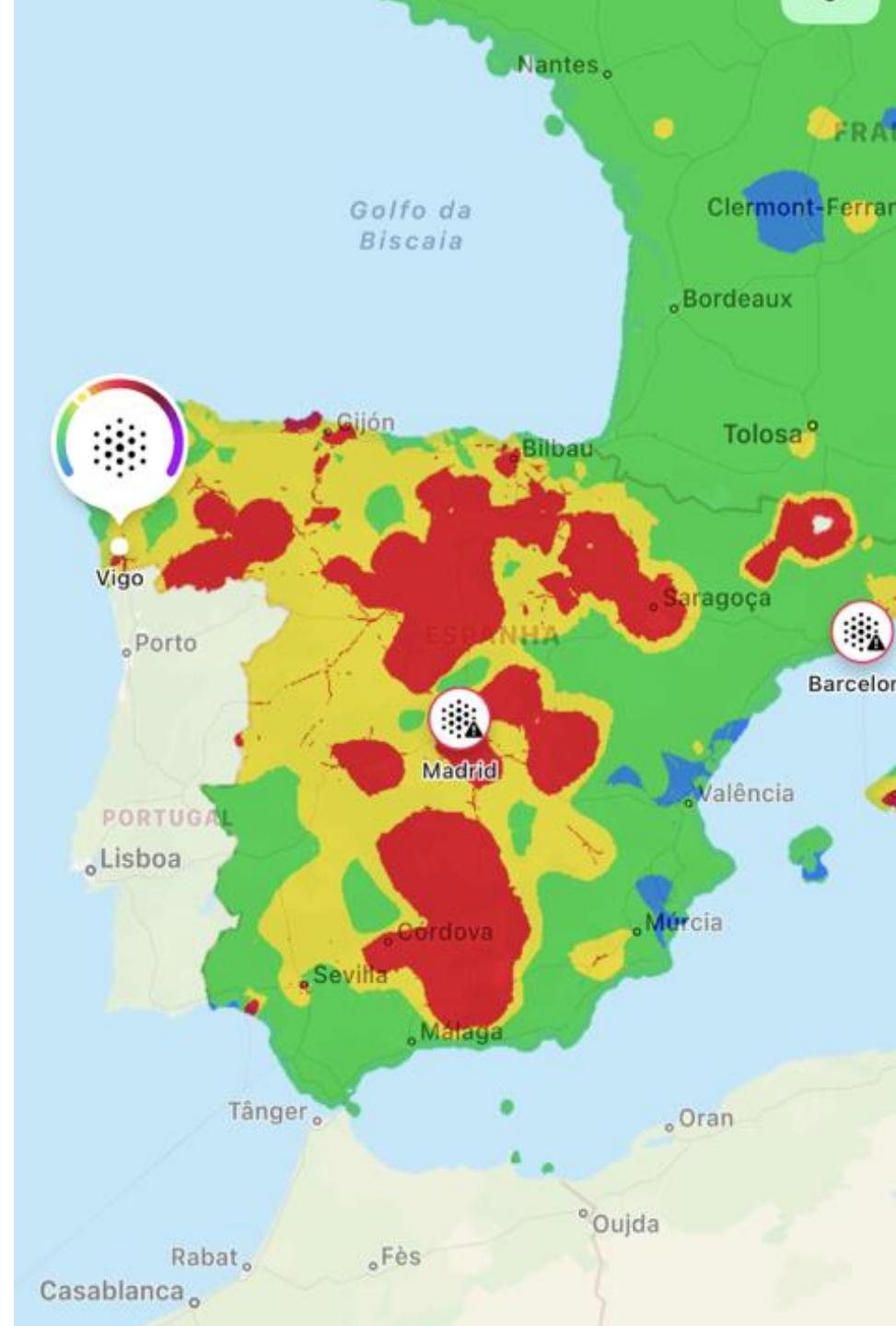


Business Intelligence

Air Quality Health Index (AQHI)



Air Quality Health Index (AQHI)



Republicación de datos desde OGC API - Features

- Servicios de descarga con valor añadido en base a OGC API - Features
- Integración en otras interfaces accediendo directamente a los datos

The screenshot shows a browser window titled "OGC API - Features Exporter App". The address bar indicates the page is not secure and shows the URL "schulungsvm/fmeserver/apps/OGCAPIExport". The browser interface includes standard controls like back, forward, and search, along with a reading list icon.

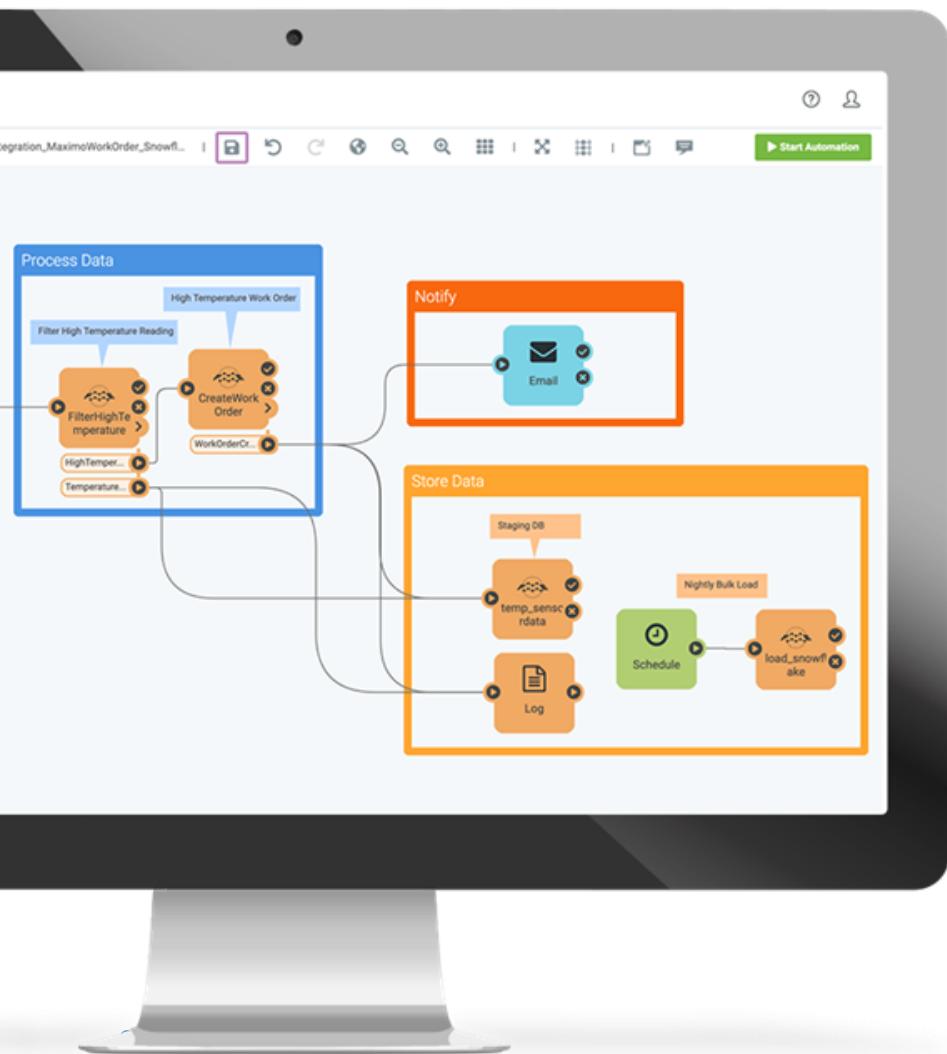
The main content area features the FME SERVER logo at the top. Below it, the title "OGC API - Features Exporter App" is displayed, followed by the subtitle "translates data from any OGC API - Features service into a users-specified output format".

Two input fields are present:

- "Select Output Format": A dropdown menu set to "GML (Geography Markup Language)".
- "OGC API Landing Page URL": A text input field containing the URL "https://services.interactive-instruments.de/t15/daraa/".

A blue "OK" button is located at the bottom right of the input area.

Automatización de procesamiento de datos



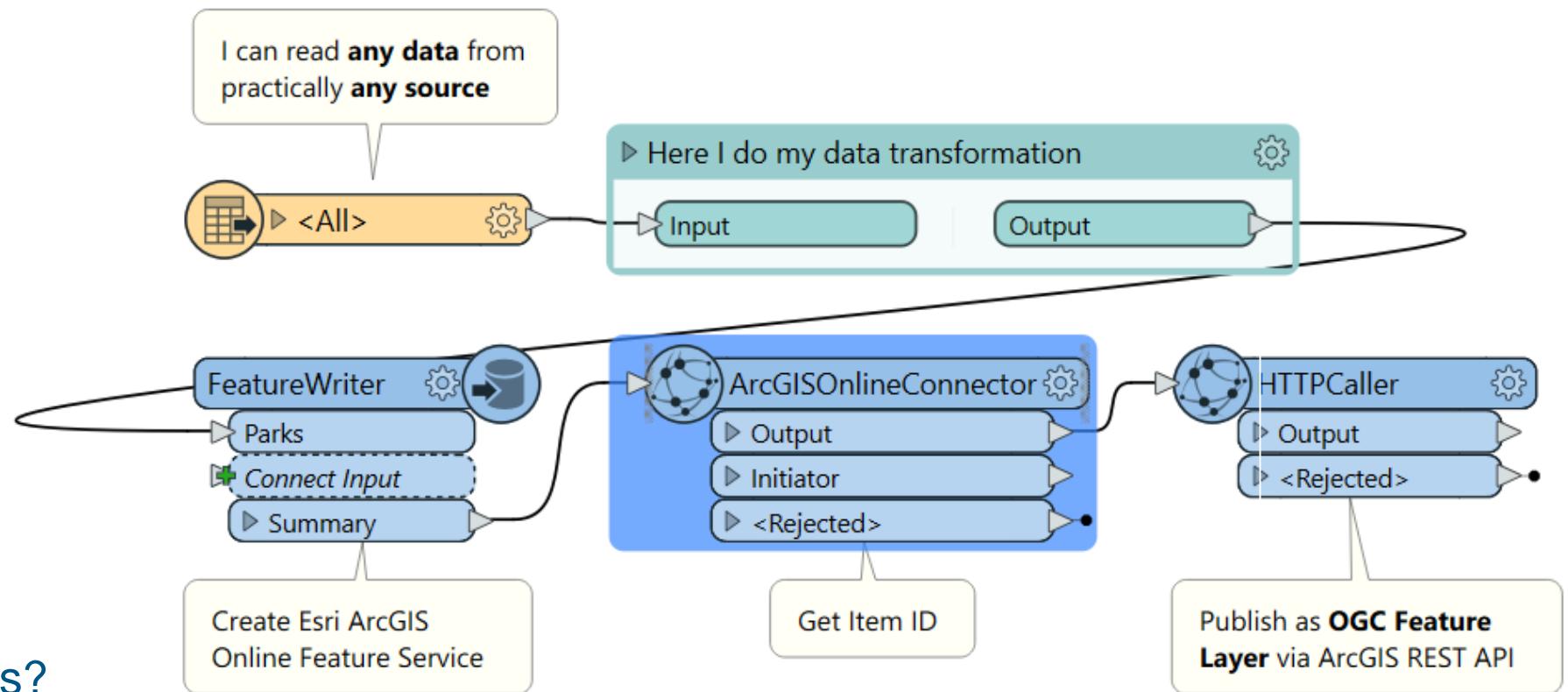
- En función de eventos
 - Actualización de datos
 - Schedule
- Reporting automatizado
- Gestión de alertas

Generación de Servicios OGC API - Features



Generación de Servicios OGC API - Features

- Ejemplo: Automatización de la publicación de servicios via ArcGIS Online/Portal



- ¿Otras alternativas?

Conclusiones

- OGC API - Features está aquí para quedarse
- Necesidades identificadas:
 - Integración de datos con otras fuentes
 - Republicación en otras interfaces
 - Transformación de datos en tiempo real
 - Automatización de procesos de publicación

¡Síguenos!



youtube.com/channel/UCHP4M5eUOfZ3ZHI4Trf4iCA



@conterra_es



linkedin.com/company/con-terra-es



¡Muchas gracias!

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