



Projectathon - Tooling support

Webinar

FEBRUARY 25, 2022

PS-CA Testing Tools

- Infoway developed a series of tools to support activities for the March 2022 Projectathon:
 - OpenAPI
 - Test Data Generator
 - PS-CA FHIR Renderer

OpenAPI

The background features a white field on the left and a dark blue field on the right, separated by a curved white boundary. A red triangular shape points from the bottom right towards the center.

OpenAPI

- OpenAPI definition of the APIs supporting the PS-CA MHD and CA:FeX profiles;
- Improved Ace Swagger UI documenting the APIs and allowing users to run PS-CA transactions against a simulated back-end;
- The back-end can be used as a simulator of the server-side Data Recipient and Data Responder actors;
- The Ace Swagger UI permits selecting the API endpoint to connect to, allowing simulation of the client-side Data Source and Data Consumer actors;
- Web URL: <https://ps-swagger.apibox.ca>

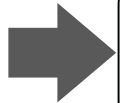


OpenAPI components

*Data Source
Data Consumer*

*Data Recipient
Data Responder*

<https://ps-swagger.apibox.ca/>



Ace Swagger UI

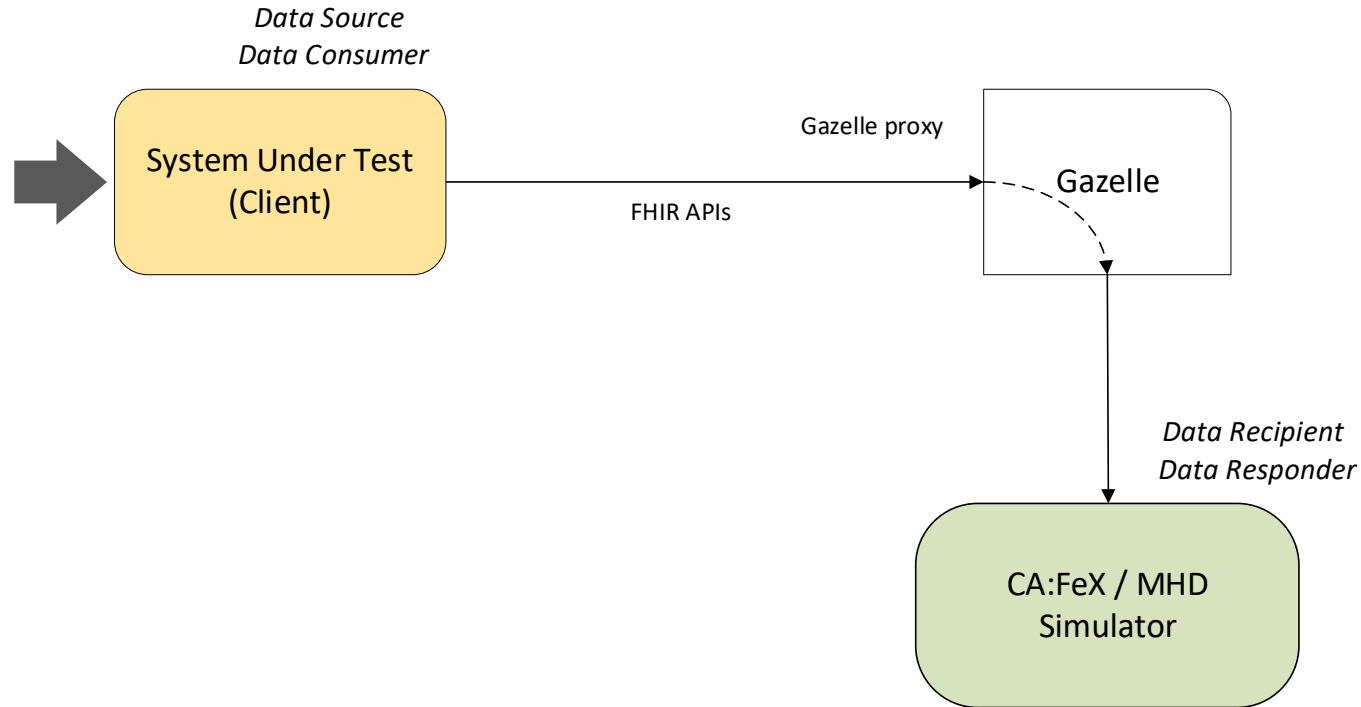
<https://ps-swagger-api.apibox.ca/cafex>

FHIR APIs

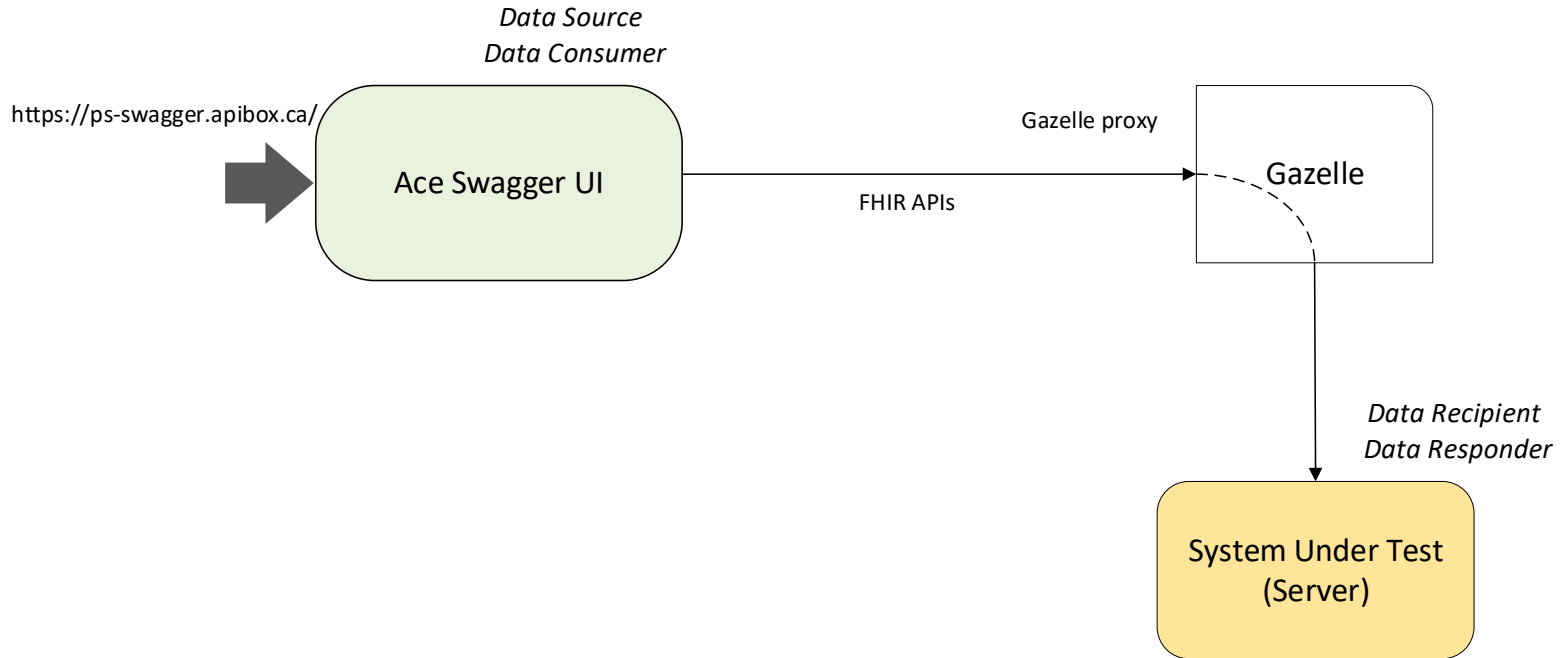
CA:FeX / MHD
Simulator



Simulation of the server-side actors (*Data Recipient* and *Data Responder*)



Simulation of the client-side actors (*Data Source* and *Data Consumer*)



Test data generator

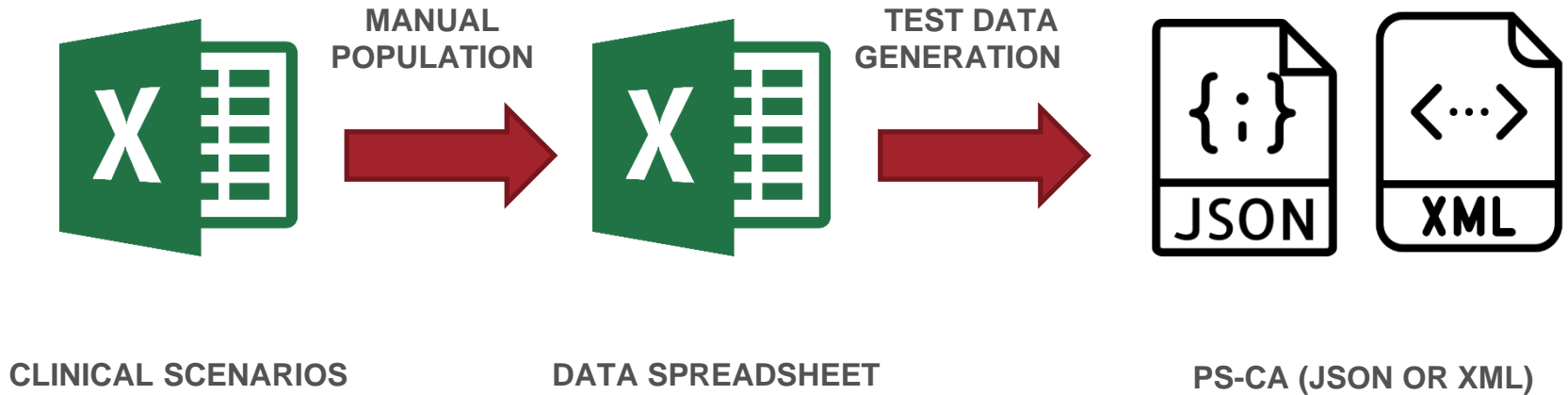


Test Data Generator

- Excel spreadsheet template to author test data;
- Test Data Generator tool converts the Excel data into structured FHIR PS-CA (JSON or XML);
- Several clinical scenarios have been modeled using the Test Data Generator and are shared for reference;
- A “Christmas Tree Document”, with most of the PS-CA data points populated is available in Excel, JSON and XML format;



Test data generation workflow



PS-CA FHIR Renderer

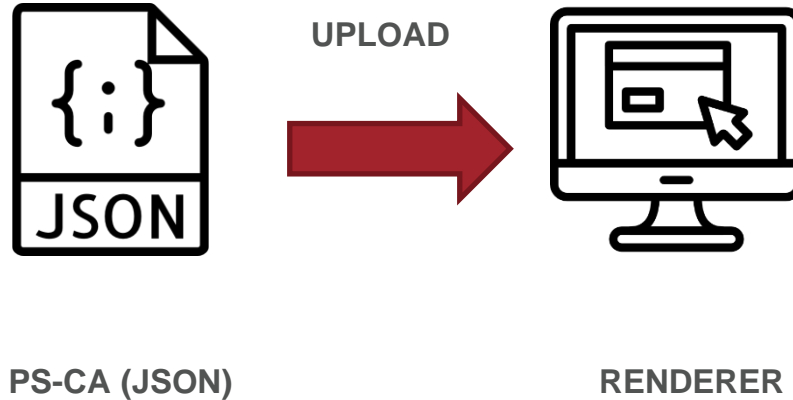


PS-CA FHIR Renderer

- Web application that reads a structured PS-CA JSON instance and renders it in human readable format
- Allows visual verification of the PS-CA FHIR instances against source data;
- Performs basic validation of the FHIR instances (structural, with no terminology binding checks);
- Web URL: <https://ps-ca-renderer.apibox.ca/>



PS-CA FHIR Renderer Workflow





Thank you!

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