




# Test Tools and Training: Projectathon 2023



Welcome to the Projectathon 2023 Tools and Training page!

**NOTE:** The Projectathon 2023 event has been completed. The final report is available [here](#).

This page will provide you with details about the tools and other supporting materials that will be used for the pre-Projectathon testing and during the Projectathon event.

Welcome to the Projectathon 2023 Tools and Training page.

Tool	Description	Tool Links	Training Material
Gazelle Testing Platform	<p>Gazelle is the primary testing tool. This platform allows vendors to test and prove that their products align with the published specifications.</p> <p>From the Gazelle home page, you may access training/support documentation for Gazelle and other tools/utilities included within Gazelle, by clicking on the respective PDF icon.</p>	<ul style="list-style-type: none"><li>Gazelle Testing Platform: <a href="https://pancanadianio.ca/">https://pancanadianio.ca/</a></li></ul>	<a href="#">Gazelle Test Management User Guide</a>
CA:FeX Client & Server Simulator	<p>CA:FeX Client Simulator: A web application, based on the Swagger UI, used to simulate the CA:FeX clients. It is used for no-peer testing of server-side implementation during the Projectathon.</p> <p>CA:FeX Server Simulator: FHIR REST APIs used to simulate CA:FeX servers. Used for no-peer testing of client-side implementation during the Projectathon. The APIs are accessible using two endpoints: with and without authorization.</p>	<ul style="list-style-type: none"><li>CA:FeX Client Simulator: <a href="https://ps-swagger.apibox.ca/?spec=PS-CA_(CA-FeX)">https://ps-swagger.apibox.ca/?spec=PS-CA_(CA-FeX)</a></li><li>CA:FeX Server Simulator (REST API endpoints):<ul style="list-style-type: none"><li>without authorization: <a href="https://pancanadianio.ca:10001/cafex">https://pancanadianio.ca:10001/cafex</a></li><li>with authorization: <a href="https://pancanadianio.ca:10001/cafex-ia">https://pancanadianio.ca:10001/cafex-ia</a></li></ul></li></ul>	<a href="#">Training Video: CA:FeX Simulators</a>  Projectat...ators.pdf
MHD Client & Server Simulator	<p>MHD Client Simulator: A web application, based on the Swagger UI, used to simulate the MHD clients. It is used for no-peer testing of server-side implementation during the Projectathon.</p> <p>MHD Server Simulator: FHIR REST APIs used to simulate MHD servers. Used for no-peer testing of client-side implementation during the Projectathon. The APIs are accessible using two endpoints: with and without authorization.</p>	<ul style="list-style-type: none"><li>MHD Client Simulator: <a href="https://ps-swagger.apibox.ca/?spec=PS-CA_(MHD)">https://ps-swagger.apibox.ca/?spec=PS-CA_(MHD)</a></li><li>MHD Server Simulator (REST API endpoints):<ul style="list-style-type: none"><li>without authorization: <a href="https://pancanadianio.ca:10001/mhd">https://pancanadianio.ca:10001/mhd</a></li><li>with authorization: <a href="https://pancanadianio.ca:10001/mhd-ia">https://pancanadianio.ca:10001/mhd-ia</a></li></ul></li></ul>	<a href="#">Training Video: MHD Simulators</a>  Projectat...ators.pdf
PS-CA FHIR Renderer	<p>A web application deployed in the AWS Sandbox. It reads a Patient Summary in structured FHIR format and renders it in a human readable form. This tool can be used by vendors to verify that a Patient Summary includes all the expected clinical data.</p>	<ul style="list-style-type: none"><li>PS-CA FHIR Renderer: <a href="https://ps-ca-renderer.apibox.ca/">https://ps-ca-renderer.apibox.ca/</a></li></ul>	<a href="#">Training Video: FHIR Renderer</a>  Projectat...derer.pdf

FHIR Validator	An online FHIR validator tool to structurally and semantically verify a FHIR instance against its FHIR profile. Based on the Inferno tool ( <a href="https://github.com/onc-healthit/inferno">https://github.com/onc-healthit/inferno</a> ), it includes a Web UI and a REST API endpoint.	<ul style="list-style-type: none"> <li>FHIR Validator UI and REST endpoint: <ul style="list-style-type: none"> <li>Web UI: <a href="https://inferno-validator-app.apibox.ca/">https://inferno-validator-app.apibox.ca/</a></li> <li>REST endpoint: <a href="https://inferno-validator.apibox.ca/">https://inferno-validator.apibox.ca/</a></li> </ul> </li> </ul>	<p><a href="#">Training Video: FHIR Validator</a></p> <div>  <p>Projectat...dator.pdf</p> </div> <p><a href="#">Expected Errors or Warnings:</a> This document includes a list of expected errors or warnings which may occur during testing with the FHIR Validator.</p>
IUA Simulators	Simulators for the IUA (Internet User Authorization) IHE profiles. It includes a Client-side simulator UI and a Server-side simulator based on Keycloak.	<ul style="list-style-type: none"> <li>IUA Simulators: <ul style="list-style-type: none"> <li>Client-side simulator UI: <a href="https://iua.apibox.ca/">https://iua.apibox.ca/</a></li> <li>Server-side simulator: <a href="https://pancanadianio.ca:10100/auth/realms/ps-ca/">https://pancanadianio.ca:10100/auth/realms/ps-ca/</a></li> </ul> </li> </ul>	<p><a href="#">Training Video: IUA Simulator</a></p> <div>  <p>Projectat...ators.pdf</p> </div>