

Pan-Canadian Projectathon Pre-Projectathon Testing Webinar

December 9th, 2024

Today's Speakers



Attila Farkas
Chief Interoperability Strategist
Canada Health Infoway



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Kereval/IHE Catalyst

Thank you for joining us today!

- This webinar will be recorded and posted online at <https://infoscribe.infoway-inforoute.ca/pages/viewpage.action?spaceKey=PCI&title=IHE+North+America+Connectathon+Week+2025>
- We will host a Q&A session at the end of the webinar
- Submit your questions in advance using the Teams chat feature

Today's Agenda

- Opening Remarks & Welcome | Attila Farkas
- Pan-Canadian Projectathon Final Scope | Attila Farkas
- Projectathon Calendar | Attila Farkas
- Projectathon Registration | Souleymane Thiam
- Pre- Projectathon Objectives | Souleymane Thiam
- Pre- Projectathon Tool set | Souleymane Thiam
- Pre- Projectathon Process in Gazelle | Souleymane Thiam
- Q&A | All

Projectathon Testing Scope : Integration Profiles

- 1** **CA:FeX** Implementable, testable interoperability specification based on HL7 FHIR. Defines building blocks to enable creating, consuming and sharing clinical data via FHIR RESTful exchange patterns.
- 2** **MHD** Defines one standardized interface to health document sharing. This profile is applicable to systems where needs are simple, such as pulling the latest summary for display.
- 3** **IUA** Provides an authorization profile for the HTTP restful transactions. Ensures that the person (e.g., Patient, provider, etc.) And application requesting access to the FHIR document (e.g., Patient summary) are authorized to have access.
- 4** **eReC** It defines building blocks to create electronic referrals and electronic consults that will support communication between healthcare practitioners and service providers performing electronic patient referrals and / or electronic consultations.
- 5** **CA:Sec** Specifies the foundational elements needed to securely execute transactions between two systems. Based on the ATNA profile and aims to bring improvements via loose coupling, with focus on secure communication.
- 6** **CA:Aud** Specifies the foundational elements needed to perform event logging for auditing purposes. It is based on the ATNA profile and aims to bring improvements via loose coupling with focus on auditing using modern formats and technologies.
- 7** **CT** Provides a means to ensure that the system clocks and time stamps of the many computers in a network are well synchronized.
- 8** **CA:SHL** CA:SHL defines building blocks enabling patients to generate shareable links that encode their health data such as patient summaries or immunization records.

A. Testing Secure, Exchange Transactions

Implementation patterns may differ from jurisdiction to jurisdiction and information exchange channels may vary in terms of their security footprint.

Therefore, the Projectathon test cases have been organized into two categories:



Category 1 - Test cases that test **individual actor capabilities in isolation**, e.g., how a system can handle encrypted transactions, how a system can handle a CA:FeX transaction, how a system can handle an OAuth 2 token exchange, etc.



Category 2 - Complex test cases that **group individual actor capabilities with other relevant actor capabilities to simulate real world scenarios**, e.g., how a patient summary creator system can submit the document to a repository by using an OAuth 2 integration, etc.

B. Testing for Document Format and Content

The PS-CA FHIR Content Data model will be tested using a combination of test data and validation tooling.

- ❖ A set of test cases will ensure the Patient Summary document is structured in the expected format and that it contains the required information using the correct data types and valuesets, where specific valuesets are defined as required in the PS-CA.
- ❖ In addition, test cases will validate the harmonized provincial Patient Summary specifications from Ontario (PS-ON) and Alberta (PS-AB), which are very closely aligned to the PS-CA, and from New Brunswick (PS-CA:NB) and British Columbia (PS-CA:BC) which have adopted the PS-CA FHIR profiles. All should be supported by minimal configuration of capability in the vendor systems.
- ❖ These test cases to support Jurisdiction Implementation will ensure that the Patient Summary is formatted and contains the required content according to the respective Jurisdiction Implementation Guide (IG) where applicable. Vendors will need to prepare to validate PT data against both PS-CA and the applicable PT Implementation Guide. In some cases, jurisdictions may not have their own IG and may have adopted the PS-CA IG.
- ❖ Testing will be supported by a combination of test cases, test data sets and tools. Data sets will be available on the Test Data Set page in Excel format.



Refer to the Test Cases for Document Format and Content table on InfoScribe for details about each PT implementation guide [here](#).

Areas of interest for Industry partners

Integrations, Technology & Innovation

Existing specifications

Evolution of specifications

Projectathon 2025 focus:

Profile	Version	Notes
PS-CA (FHIR Profile)	PS-CA V2.0.0 DFT-Ballot	FHIR Profile
CA:FeX	CA:Fex v2.1.0 DFT-Ballot	With PS-CA
MHD	MHD v4.1.0	With PS-CA
IUA (with CA:FeX)		CA:FeX API resource server
IUA (with MHD)		MHD API resource server
CA:eRec (Only eReferral)	1.0.0 DFT	Point to Point integrations
CA:Sec		mTLS out of scope
CA:Aud		Selected events
CT		
CA:SHL	CA:SHL v0.1 DFT-preBallot	With PS-CA

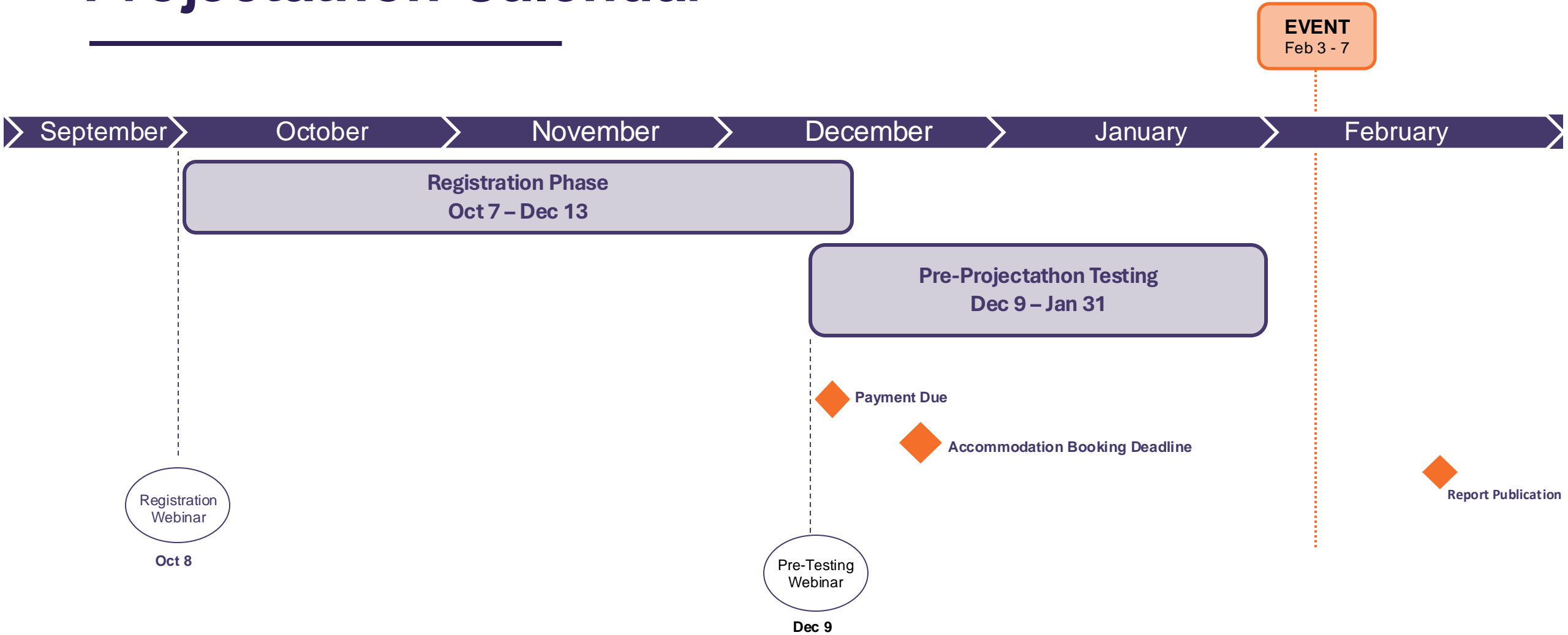
Plugathon 2025 focus:

Profile	Version
CA:eReC (Central Model) (Only eReferral)	1.0.0 DFT
CA:FeX	2.1.0 DFT-preBallot
CA:CSD	1.0.0 DFT-preBallot
CA Core+	0.3.0 DFT-preBallot
HALO	
CA:SHL	0.1 DFT-preBallot


Projectathon: Industry partners will play a key role in the **testing their products with the profiles and specifications**. They will also oversee if the interoperability is happening on the PT side as well, as the systems are getting ready for integrations.

Plugathon: Industry partners are encouraged by participating in **adopting and driving future components of the Roadmap**.

Projectathon Calendar

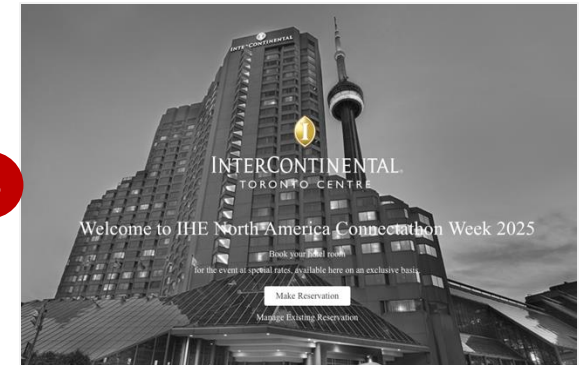


Projectathon Registration

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Registration Activities

- Step 1:** See the List of [Pan-Canadian Profiles](#) offered for Testing (Also on slide 8)
- Step 2:** Complete [Administrative Registration via ClickUp](#)
- Step 3:** Complete [Technical Projectathon Registration in Gazelle](#)
- Step 4:** Complete [Badge Registration](#)
- Step 5:** Book your stay at the InterContinental Toronto Centre - <https://book.passkey.com/go/CHIConnectathon2025>
- Step 6:** System Registration Payment Due



Book Hotel
(Discounts until **December 31, 2024**)

2025 Pan-Canadian Projectathon System Registration Form

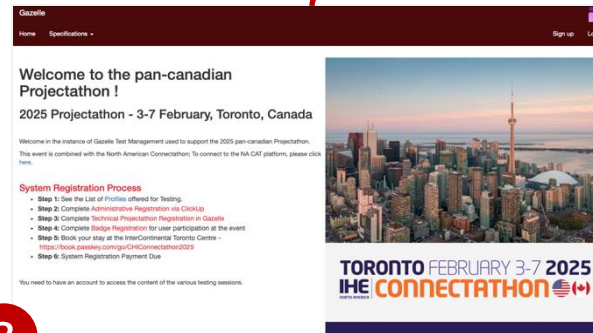
Canada Health Infoway Inforoute Santé du Canada

The Canadian Projectathon 2025 will be held at InterContinental Toronto Centre, Toronto Canada, February 3-7, 2025 .

- Step 1: See the List of [Profiles](#) offered for Testing.
- **Step 2 (you are here) :** Complete [Administrative Registration via ClickUp](#)
- Step 3: Complete [Technical Projectathon Registration in Gazelle](#)
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- Step 5: Book your stay at the InterContinental Toronto Centre - <https://book.passkey.com/go/CHIConnectathon2025>
- Step 6: System Registration Payment Due

System Registration Fees: System registration incur a charge of **\$1,000 CAD** for each system registered for testing.
*Infoway will waive the registration fee this year for stakeholders engaged in the Connected Care program. interoperability@infoway-inforoute.ca for discount code!

Administrative System Registration



Gazelle Registration

Badge Registration

TORONTO FEBRUARY 3-7 2025
IHE CONNECTATHON

Company/Organization* First Name*

Last Name* Country*

contact email* Role*

Floor event* Discount code

Badge Registration

5

4

3

2

Important Dates and Vendor Resources

Important Dates

Registration Due Date
December 13, 2024

Hotel Booking for
Discounted Rates
December 31, 2024



[Vendor Playbook](#)

Overview of the Projectathon event and activities in the event



[Vendor Registration Manual](#)

Detailed steps for how to register your organization, system and users in Gazelle



[Tips for Registering to test Patient Summary and eReferral](#)

Detailed steps for how to sign up for Patient Summary and/or e-Referral in Gazelle



[Projectathon Tools and Training Link](#)

Training for tooling, e.g. Simulators, Validators, etc

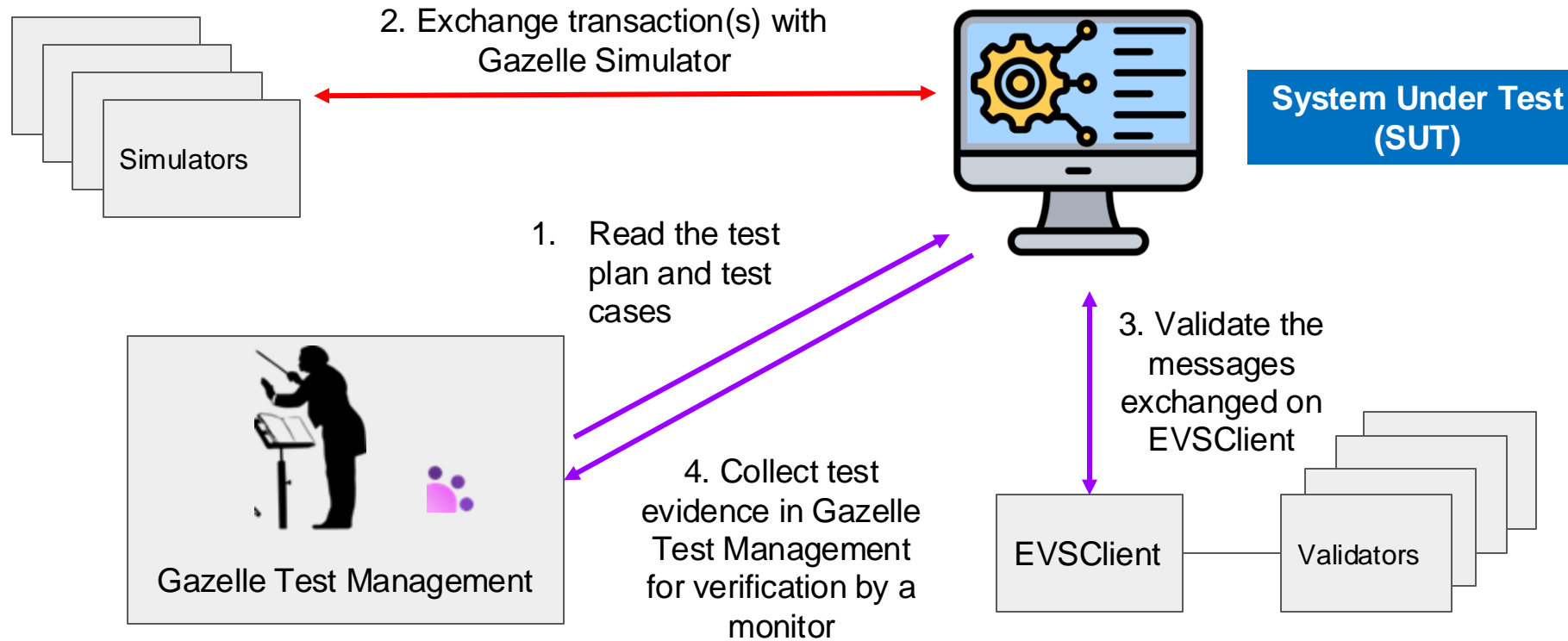
Pre-Projectathon Objectives

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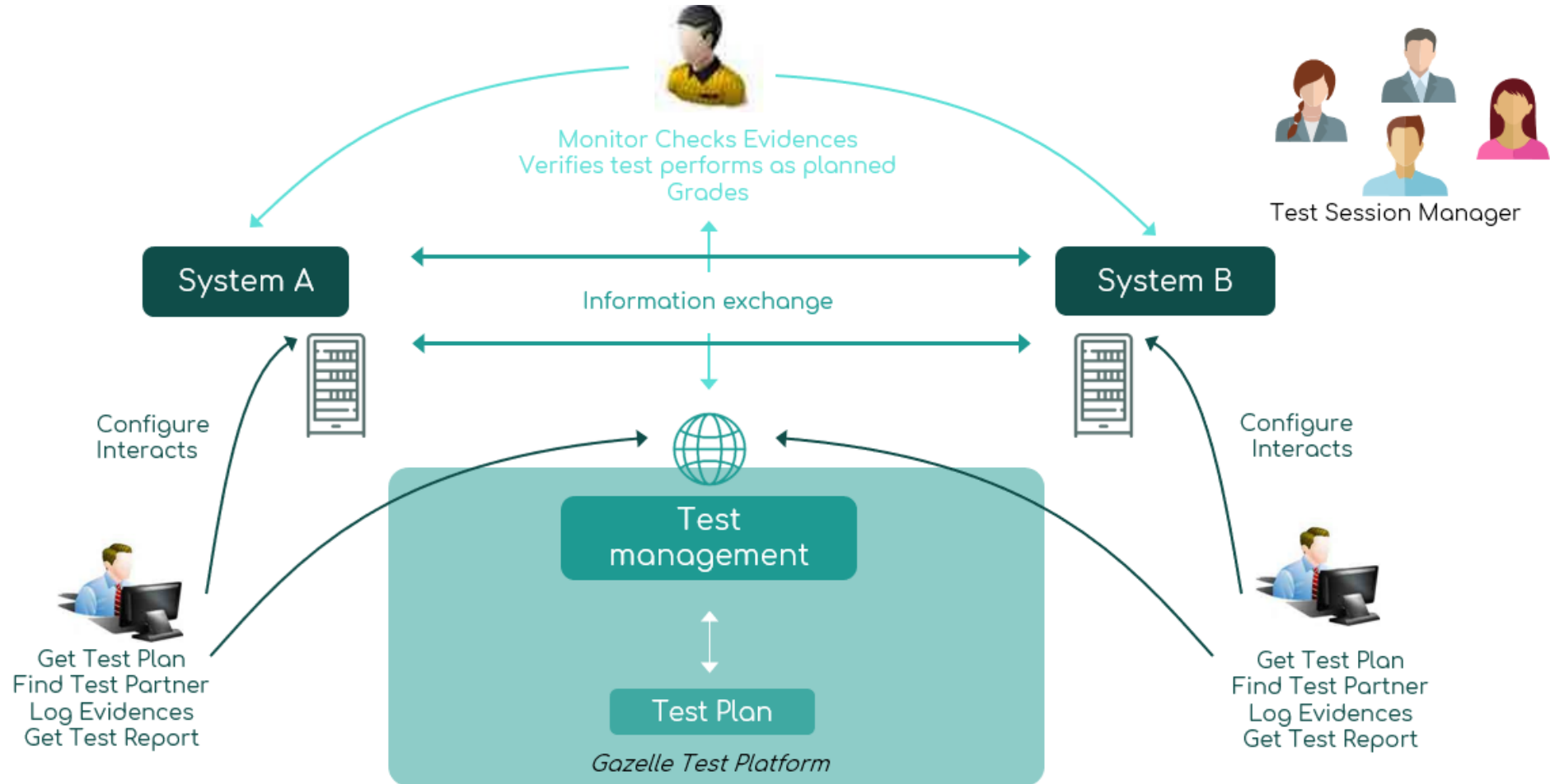
Three Main Phases of Projectathon 2025



Testing Process in Gazelle (Pre-Projectathon)



Testing Process in Gazelle (Projectathon)



Tools for Pre-Projectathon Phase

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Pre-Testing Phase: Tool Set

Gazelle Testing Support Tools

- Gazelle Test Management
- Gazelle Proxy
- Gazelle Security Suite

FHIR Validator / Renderer Tools

- FHIR Validator
- PS-CA FHIR Renderer

Simulator Tools

- CA:FeX Client & Server Simulator
- MHD Client & Server Simulator
- eReC Client & Server Simulator
- IUA Server Simulator
- IUA Client Simulator



To learn more about the tool set, go [here](#).

Pre-Testing Phase: Tool Set

Profiles	Simulators	Validators	Support Tool
Content Profiles			
PS-CA PS-ON PS-AB	NA	FHIR Validator	NA
Transport Profiles			
CA:FeX	Swagger UI	NA	Gazelle Proxy
MHD	Swagger UI	FHIR Validator	Gazelle Proxy
Security Profiles			
CT	NA	NA	NA
IUA	IUA Server Simulator (Authorization Server) IUA Client Simulator (Authorization Client)	NA	NA
CA:AUD	NA	NA	Gazelle Syslog Collector
CA:SEC	Gazelle Security Suite	NA	Gazelle Proxy

Pre-Testing Phase: Tool Set

Profiles	Simulators	Validators	Support Tool
Others			
CA:eReC	CA:eReC Client Simulator Server requester simulator Server performer simulator	FHIR Validator	NA
CA:SHL	NA	Manual	NA

Pre-Projectathon process in Gazelle



Pre-Testing Phase: Prerequisites

System registration and acceptance

- ✓ Your registration is fully completed in Gazelle
- ✓ Your system registration is accepted in Gazelle

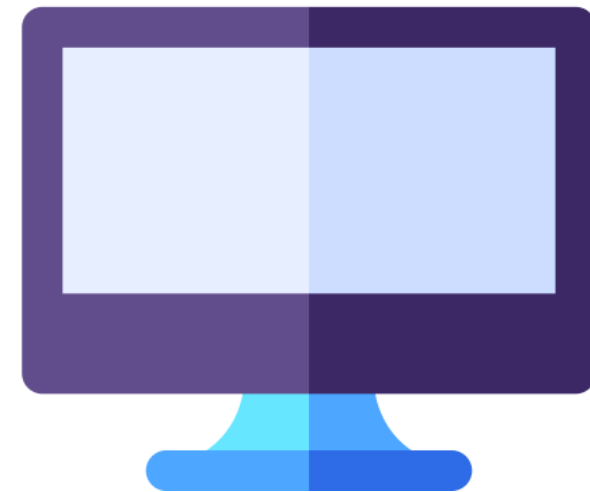
Declare your system configuration

- ✓ Hosts
- ✓ Ports

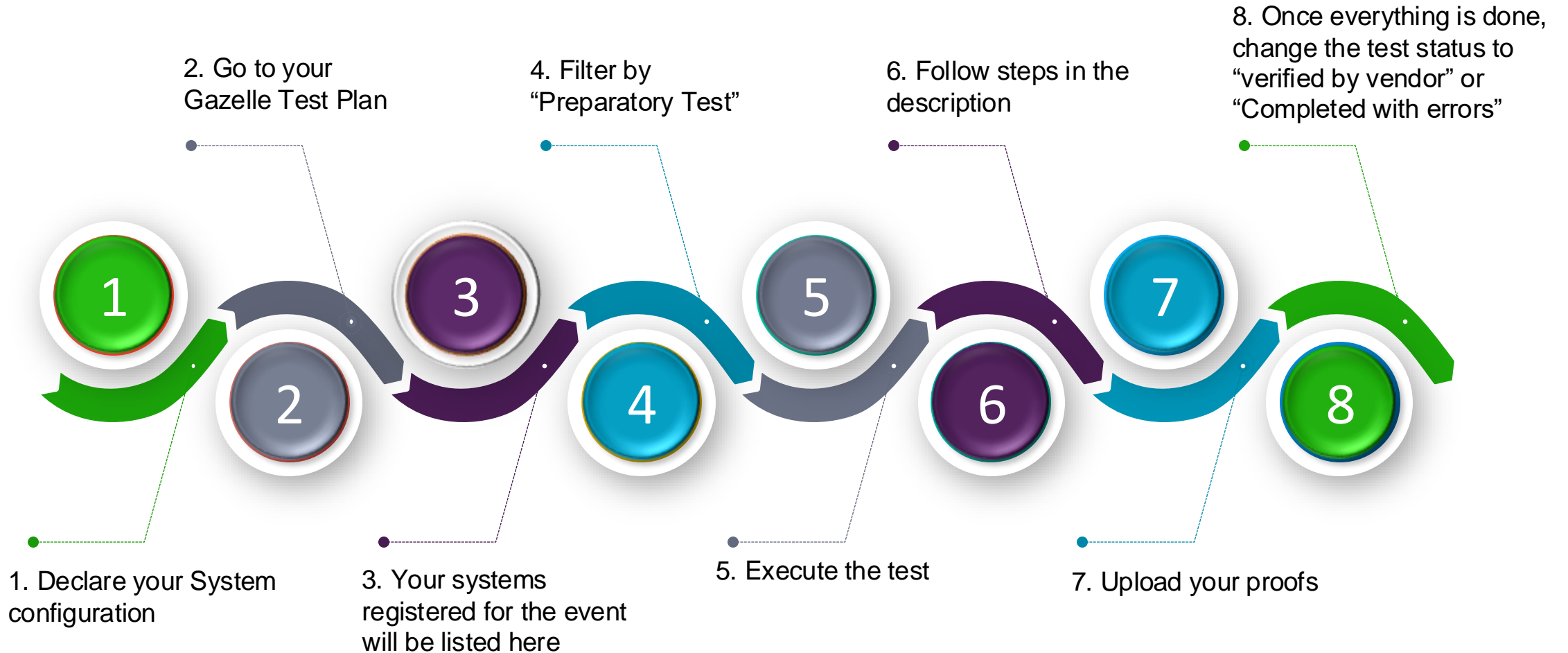
Pre-Projectathon Process in Gazelle



DEMO



Pre-testing Phase: Process summary



Next Steps

- Registration (if not already completed). Thank you to those who have registered!
- Pre-Projectathon testing



Reminder:

Personal Health Information must not be included in any Projectathon testing.

- Provide certificate information – required prior to Connectivity Testing (send to interoperability@infoway-inforoute.ca)
- Contact us for any questions and/or support related to the Projectathon registration and testing

Questions & Answers



Feel free to unmute at this time.



Add questions to the chat in Teams.


Support Team during the registration period



canadian-pat-manager@ihe-catalyst.net

interoperability@infoway-inforoute.ca

Appendix – Plugathon



Plugathon

Discover, Learn, and Shape the Future of Digital Health through interactive sessions, demonstrations, and collaborative discussions.

The Canadian Track of the Plugathon is your opportunity to:

- Take lessons learned from international attendees and colleagues, and apply them to Canada's digital health interoperability efforts
- Provide thought leadership on the future of the frameworks and standards representing the foundation of the pan-Canadian Roadmap
- Collaborate on cutting-edge initiatives already realizing success in parts of Canada and elsewhere

Proposed Plugathon Canada Tracks

1. Pan-Canadian Digital Health Interoperability Roadmap Highlights and Insights

Get the big picture! Discover how the interoperability roadmap incorporates interdependent building blocks like PS-CA, CA:FeX, and CA Core+ to create a unified healthcare system.

2. Patient-Mediated Access and Demonstration with PS-CA & CA:SHL

Explore the use of CA:SHL for patient-mediated access, how it's evolving into Verifiable Health Links, and how it enables patient-centric data sharing. Witness a live demonstration showcasing how patients can securely access and share their health data through Sharable Health Links, with insights into deployment challenges, benefits, and lessons learned. This topic includes joint international IPS discussions as well as Canadian focused discussions.

3. Regulated APIs and Framework Refinement with CA:FeX

Dive into the “recipe” for crafting compliant, secure, and interoperable APIs in healthcare. Real-world examples from vendors, such as Venuiti, will inspire innovative thinking as we jointly consider potential improvements that can launch CA:FeX into an international approach.

4. Data Management with CA:eReC & CA:CSD

Explore how to manage large datasets, maintain real-time data accuracy, and standardize queries for seamless system interoperability. Learn best practices for data maintenance, bulk exports, query parameters, and have a role in evolving the future of the pan-Canadian eReferral/eConsult specifications.

5. Testing Readiness and Gap Analysis with CA Core+

Prepare for system validation with a focus on testing tools, workflows, and environments. This session will identify interoperability challenges and provide actionable steps to enhance conformance and functionality.

6. HALO Sessions

Delve into key elements of an innovative interoperability approach that can reduce the design and development burden on vendors and accelerate connected care. See British Columbia's implementation of HALO in action and support further development of the specification, covering practical applications and innovative developments in digital health interoperability.