# Inferno Tech Talk – December 2024

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## **Inferno Tech Talk Introduction**

- Purpose: to provide regularly scheduled updates on the Inferno tool and its implementation of the (g)(10) test procedure
- Typical agenda to include:
  - Announcements about upcoming releases
  - Training on new features
  - Highlight outstanding issues or known problems
  - Open discussion
- Monthly recurrence: 2<sup>nd</sup> Wednesday at 1PM ET
- This call is being recorded and will be posted on https://inferno.healthit.gov/events/

Content reflects Inferno's implementation of applicable Test Procedure and does not necessarily reflect ASTP/ONC policy.



## Today's Agenda

- (g)(10) Standardized API Test Kit v7.0.1/7.0.2
- Other Test Kits Update
  - UDAP Security Test Kit v0.10.1
  - CARIN IG for Blue Button Test Kit v0.13.3
  - Da Vinci DTR Test Kit v0.14.2
- Discussions / Questions



# ONC (g)(10) Standardized API Test Kit v7.0.1/7.0.2

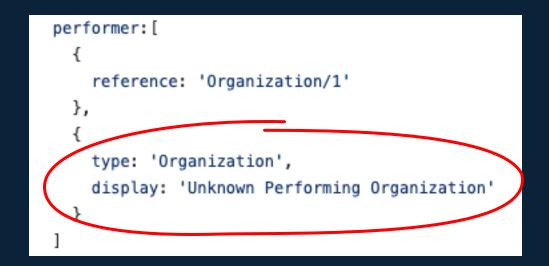
Test Update:

- Changes that may result in new failure: 0
- Changes that will not affect score of passing implementations: 3



## (g)(10) Updates: Fix Reference.reference error (#589)

- When certain Reference elements returned by the system under test do not have Reference.reference populated, Inferno tests provide a system error.
- What's changed:
  - Skip a Reference element if Reference.reference sub-element is empty





## (g)(10) Updates: Smoking Status effectivePeriod validation (#573)

- In v7.0.0, with the US Core 6.1.0 Patch <u>FHIR-43355</u>, certified system implementation could use either effectiveDateTime or effectivePeriod for Observation Smoking Status Must Support requirement.
  - FHIR validator throws validation error on Observation.effectivePeriod because Observation.effectiveDateTime is mandatory element in StructureDefinition
- What's changed:
  - Update validation message filter to exclude validation errors when Observation Smoking Status resource having effectivePeriod populated.



## (g)(10) Updates: Inferno framework update

- Update Inferno Core to v0.5.2
- Update Inferno Resource Validator to v1.0.59 which uses FHIR Validator v6.4.4



# UDAP Security Test Kit v0.10.1

- Redirect URI paths for the authorization code tests were incorrectly configured
- What's Changed
  - Fix custom redirect path to include correct suite ID



# **CARIN IG for Blue Button Test Kit v0.13.3**

## Support Client-Based CARIN Testing

## **Start Testing**

#### Test Suite

- Carin IG for Blue Button<sup>®</sup> v.1.1.0 Server Test Suite
- Carin IG for Blue Button<sup>®</sup> v.2.0.0 Server
  Test Suite

Carin IG for Blue Button® v.2.0.0 Client Test Suite

 Carin IG for Blue Button<sup>®</sup> v.2.0.0-devnonfinancial Server Test Suite

#### $\oplus$ Create Test Session

### CARIN IG for Blue Button® v2.0.0 Client Test Suite

CARIN IG for Blue Button® v2.0.0 Client Test Suite

⊞

- O 1 Wait for Claims Data and Search Requests
- 2 C4BB Patient Profile claims data and search request tests
- 3 C4BB Coverage Profile claims data and search request tests
  - 4 C4BB Organization Profile
- claims data and search request tests Optional
  - 5 C4BB Practitioner Profile claims
- data and search request tests Optional
  - 6 C4BB RelatedPerson Profile
- claims data and search request tests Optional
  - 7 C4BB ExplanationOfBenefit
- Profiles claims data and search request tests
- Attestation

CARIN IG for Blue Button® v2.0.0 Client Test Suite

The CARIN for Blue Button v2.0.0 Client test suite verifies t Requestor and retrieve and use data defined by the CARIN

#### Scope

These tests are a **DRAFT** intended to allow implementers to requirements and may change the test verification logic.

### **Test Methodology**

For these tests Inferno simulates a FHIR server playing the must support elements populated:

- Patient
- <u>Coverage</u>
- Organization
- Practitioner
- RelatedPerson
- Inpatient Institutional ExplanationOfBenefit
- Oral ExplanationOfBenefit
- Outpatient Institutional ExplanationOfBenefit
- <u>Pharmacy ExplanationOfBenefit</u>
- Professional NonClinician ExplanationOfBenefit

During execution, Inferno will wait for the client under test

- Retrieved instances of each <u>CARIN IG for Blue Button</u>
- Performed searches using the search parameters and

## Da Vinci DTR Test Kit v0.14.2

- Add tests to validate that a DTR Full EHR client can perform a full adaptive questionnaire workflow using the mocked Dinner Order Adaptive Questionnaire
- Add "create" and "update" tests for DTR QuestionnaireResponse and CDex Task resources in the DTR Light EHR test suite
- Add US Core 3.1.1 tests to the Light DTR EHR Test Suite



# **Open Discussion / Feedback**



## **Resources and Contact Information**

- https://inferno.healthit.gov/
  - General materials & live demonstration server
- https://inferno-framework.github.io
  - Create your own Inferno Test Kits!
- https://github.com/onc-healthit/onc-certification-g10-test-kit/
  - ONC Certification tests repository, downloads, issues
  - "Watch" repository to receive alerts (new releases, etc)
  - Note: this repository is specific to ONC Certification testing
- inferno@groups.mitre.org (or rscanlon@mitre.org)
- FHIR Zulip Chat: <u>https://chat.fhir.org/#narrow/stream/179309-inferno</u>

## **Upcoming Meetings**

Next Inferno Tech Talk: Wednesday January 8 at 1 PM ET

Please reach out with questions & issues

