

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: 2nd Wednesday at 1PM ET
- [This call is being recorded and will be posted on https://inferno.healthit.gov/events/](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

```
performer: [  
  {  
    reference: 'Organization/1'  
  },  
  {  
    type: 'Organization',  
    display: 'Unknown Performing Organization'  
  }  
]
```

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

- In v7.0.0, with the US Core 6.1.0 Patch [FHIR-43355](#), 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® v.1.1.0 Server Test Suite
- Carin IG for Blue Button® v.2.0.0 Server Test Suite
- Carin IG for Blue Button® v.2.0.0 Client Test Suite
- Carin IG for Blue Button® v.2.0.0-dev-nonfinancial Server Test Suite

[+ 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

- 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
- 8 CARIN For Blue Button Client Attestation

The CARIN for Blue Button v2.0.0 Client test suite verifies the 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](#)
- [Coverage](#)
- [Organization](#)
- [Practitioner](#)
- [RelatedPerson](#)
- [Inpatient Institutional ExplanationOfBenefit](#)
- [Oral ExplanationOfBenefit](#)
- [Outpatient Institutional ExplanationOfBenefit](#)
- [Pharmacy ExplanationOfBenefit](#)
- [Professional NonClinician ExplanationOfBenefit](#)

During execution, Inferno will wait for the client under test

- Retrieved instances of each [CARIN IG for Blue Button](#)
- 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: <https://chat.fhir.org/#narrow/stream/179309-inferno>

Upcoming Meetings

- Next Inferno Tech Talk: **Wednesday January 8** at 1 PM ET
- Please reach out with questions & issues