Inferno Tech Talk – June 2025

Yunwei Wang MITRE Inferno Team June 11, 2025



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/

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 v7.2.3
- Test Kits Updates
- Discussions / Questions

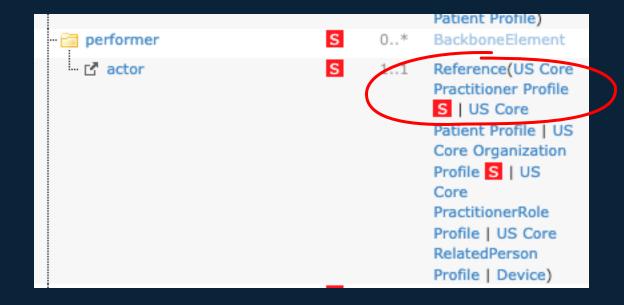
Inferno (g)(10) Test Kit v7.2.3

Test Kit Update

- Changes that may result in new failure: 0
- Changes that will not affect score of passing implementations: 6
 - US Core patches are approved by ASTP/ONC. CCG published on June 6.

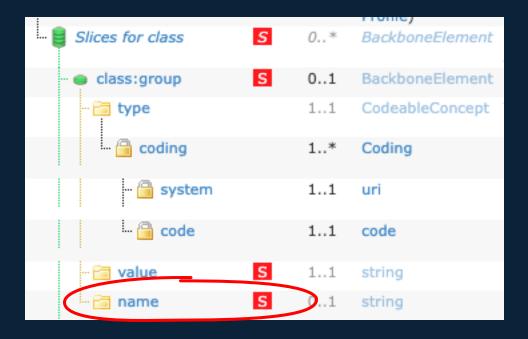
US Core Patches FI-50239

- US Core MedicationDispense
 - Remove MustSupport requirement from Reference(US Core Practitioner)



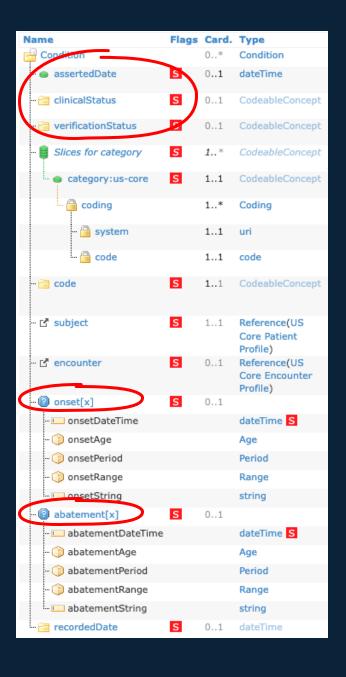
US Core Patch FI-50283

- US Core Coverage
 - Remove MustSupport requirement for class:group.name



US Core Patch FI-50288

- US Core Condition Encounter Diagnosis
 - Remove MustSupport requirements for
 - clinicalStatus
 - verificationStatus
 - assertedDate extension
 - onsetDatetime
 - abatementDateTime



Inferno (g)(10) Test Kit Update (4/6)

- Search tests updated to prefer searching by coding from Well-Known code systems
 - v7.2.2
 - When searching with token value, such as Observation.code, Inferno uses the first coding data found in resources returned for the first search.
 - Such coding could be proprietary, and server may not support searching with.
 - v7.2.3
 - Inferno uses the first coding from well-known code systems
 - All HL7 and FHIR code systems
 - o LOINC
 - SNOMED-CT

Inferno (g)(10) Test Kit Update (5/6)

- Avoid system error from "Server support either Practitioner.address or PractitionerRole" test
 - v7.2.2
 - Test failed when server does not provide any practitioner references

Inferno (g)(10) Test Kit (6/6)

- Terminology Update
 - Fix VSAC package URL
 - Fix URL redirect
 - Developer having successful terminology build does NOT need to run this update.

Test Kit Updates

Updates for US Core Test Kit

- US Core Test Kit v0.11.4
 - Support Client testing
 - Perform Read and Search tests
 - Limitations

US Core Server v3.1.1
US Core Server v4.0.0
US Core Server v5.0.1
US Core Server v6.1.0
US Core Server v7.0.0
US Core Client v3.1.1
US Core Client v4.0.0
US Core Client v5.0.1
US Core Client v5.0.1
US Core Client v6.1.0
US Core Client v7.0.0

 US Core Client vs.o.1
 US Core Client v7.0.0
 US Core Client v7.0.0
 Client Security Type
 SMART App Launch Public Client
 SMART App Launch Confidential Symmetric Client
 SMART App Launch Confidential Asymmetric Client

Updates for Other Inferno Test Kits

- Da Vinci DTR Test Kit v0.16.1: Release Notes
 - Support Questionnaire MustSupport Workflow
- Bulk Data Test Kit v0.12.2: Release Notes
- CARIN IG for Blue Button® Test Kit v0.15.1: Release Notes
- Da Vinci CRD Test Kit v0.12.1: Release Notes
- Da Vinci PAS Test Kit v0.13.2: Release Notes
- Da Vinci PDEX Test Kit v0.12.1: Release Notes
- UDAP Security Test Kit v0.11.5: Release Notes

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 July 9 at 1 PM ET

Please reach out with questions & issues