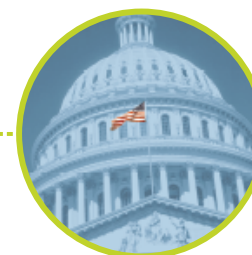


Cypress™

Cypress Tech Talk

February 12, 2019



MITRE

The Office of the National Coordinator for
Health Information Technology



Agenda

- Software Updates
 - Overview bugs addressed in 4.0.2 patch release
- Recent Issues
 - CYPRESS-1611: Reason template extension
 - CYPRESS-1612: Diagnostic Study, Performed reason export
 - CYPRESS-1619: Immunization, Administered authorDatetime in Record Sample
- Cypress Versions
- Open Discussion
- Contact Information

Software Updates

Bugs addressed in 4.0.2 patch release

- An “Assessment, Performed” Result should not be reported in a nested Result Template. ([CYPRESS-1498](#), [CYPRESS-1544](#))
- ‘Randomized’ patient birthdate can cause calculation errors. ([CYPRESS-1503](#))
- Confusing display of Direct Reference Codes in “C4 Filter Tests.” ([CYPRESS-1533](#))
- Use updated ‘Related To’ template instead of ‘Fulfills’ for C1 Record Sample test. ([CYPRESS-1537](#))
- Strictly enforce the existence of a code-negation pair within the same entry for C1 Record Sample verification. ([CYPRESS-1538](#))
- Do not export patients using the ‘Other’ code 2131-1. ([CYPRESS-1539](#))
- An id not required in the Encounter Performed Act template in QRDA Category I R5. ([CYPRESS-1541](#))

Software Updates

Bugs addressed in 4.0.2 patch release

Resources Tech Talks Release Notes **Future Releases** FAQ

Cypress v4.0.2

The Cypress 4.0.2 patch is scheduled for released on 1/31/18. Changelog for the release is below

Cypress Bugs Addressed

- An "Assessment, Performed" Result should not be reported in a nested Result Template. ([CYPRESS-1498](#), [CYPRESS-1544](#))
- 'Randomized' patient birthdate can cause calculation errors. ([CYPRESS-1503](#))
- Confusing display of Direct Reference Codes in "C4 Filter Tests." ([CYPRESS-1533](#))
- Use updated 'Related To' template instead of 'Fulfills' for C1 Record Sample test. ([CYPRESS-1537](#))
- Strictly enforce the existence of a code-negation pair within the same entry for C1 Record Sample verification. ([CYPRESS-1538](#))
- Do not export patients using the 'Other' code 2131-1. ([CYPRESS-1539](#))
- An id not required in the Encounter Performed Act template in QRDA Category I R5. ([CYPRESS-1541](#))

CYPRESS Issue Tracker / CYPRESS-1533

C4 Filter does not display correct code or value set for Problems

Edit Comment Assign More Open In Progress (2) Workflow

Details

Type: Bug/Issue Status: **IN PROGRESS** (View Workflow)

Priority: Moderate Resolution: Unresolved

Labels: KnownBug4.0.1

Description

Hi, we are going through certification in just a few hours and are seeing the following filter criteria for C4:

Problems SNOMEDCT codes in Congenital absence of cervix (disorder) (code: drc-2aee01847828ef298f92805dcf74e47c73f590a1ce12a00cedb235f1e691e47e)

My assumption is that this is happening because the code is not contained in a value set but rather as a cql "code" element as follows:

code "Congenital absence of cervix (disorder)": '37687000' from "SNOMEDCT:2017-09"

Search Save as Share Ex

labels = KnownBug4.0.1

Order by

- CYPRESS-1541 File failed import error for ...
- CYPRESS-1537 Cypress is still expecting t...
- CYPRESS-1533 C4 Filter does not display ...
- CYPRESS-1504 C1 Test error - QRDA Cat I ...
- CYPRESS-1503 Multiple QRDA files for on...

CYPRESS Issue Tracker / CYPRESS-1541

File failed import error for 2019 eQMs

Edit Comment Assign More Open In Progress (2) Workflow

Details

Type: Bug/Issue Status: **IN PROGRESS** (View Workflow)

Priority: Moderate Resolution: Unresolved

Labels: KnownBug4.0.1 QRDA-I

Measure Type: EH

People

Assignee:

Reporter:

Votes:

Recent Issue

CYPRESS-1611: Reason template extension

■ Precondition:

- A Cypress 4.x instance
- Measure with Reason
 - ex: CMS147v8

■ Issue:

- The Reason template uses an outdated extension
- “2014-12-01” extension should be “2017-08-01”

■ Workaround:

- All other components of template are in line with the implementation guide
- Read template as otherwise expected

Was:

```
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01"/>
    <id root="1.3.6.1.4.1.115" extension="fb5ae700-053a-0137-9fbb-0e95690c4dba"/>
    <code code="77301-0" codeSystem="2.16.840.1.113883.6.1" displayName="reason" codeSystemName="LOINC"/>
    <statusCode code="completed"/>
    <value code="105480006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" xsi:type="CD"/>
  </observation>
</entryRelationship>
```

Implementation Guide:

3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3343-11359) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.88" (CONF:3343-11360).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-08-01" (CONF:3343-27027).

Should Be:

```
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2017-08-01"/>
    <id root="1.3.6.1.4.1.115" extension="fb5ae700-053a-0137-9fbb-0e95690c4dba"/>
    <code code="77301-0" codeSystem="2.16.840.1.113883.6.1" displayName="reason" codeSystemName="LOINC"/>
    <statusCode code="completed"/>
    <value code="105480006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" xsi:type="CD"/>
  </observation>
</entryRelationship>
```

CYPRESS-1612: Diagnostic Study, Performed reason export

■ Precondition:

- A Cypress 4.x instance
- Measures with “Diagnostic Study, Performed”
 - Ex: CMS129v8
- Patient with “Reason”
 - Ex: ONE CANCER MALE template

■ Issue:

- Cypress does not export the reason code shown in the html
- Reason does not show up in the corresponding QRDA template

■ Workaround:

- Does not impact calculation because of other population-impacting patient criteria
- Because reason is not necessary for correct population, it may be ignored in the html patient document

Diagnostic Study Performed HTML:

Diagnostic Study

Diagnostic Study, Performed: Bone Scan

Times:

Time Field	Time Value
Relevant Period Start:	2017-04-06 08:00:00 UTC
Relevant Period End:	2017-04-06 08:30:00 UTC
Author Date/Time:	2017-04-06T08:00:00+00:00

Codes:

Code System	Code
LOINC	39880-0

Other Fields:

Name	Value
Reason	433611000124109 (SNOMED-CT)

Fields

Reason: code:
433611000124109
code_system: SNOMED-CT
title: Procedure reason
record (record artifact)

Exported QRDA (missing reason):

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Consolidated Procedure Activity Observation templateId (Implied Template) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.13" extension="2014-06-09"/>
  <!-- Diagnostic Study, Performed template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.18" extension="2017-08-01"/>
  <id root="1.3.6.1.4.1.115" extension="5c4f114559d2330568759f26"/>
  <code code="39880-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
  <text>Diagnostic Study, Performed: Bone Scan</text>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20170406080000"/>
    <high value="20170406083000"/>
  </effectiveTime>
  <value nullFlavor="NA" xsi:type="CD"/>
  <author>
    <templateId root="2.16.840.1.113883.10.20.24.3.155" extension="2017-08-01"/>
    <time value="20170406080000"/>
    <assignedAuthor>
      <id nullFlavor="NA"/>
    </assignedAuthor>
  </author>
</observation>
```

Recent Issue

CYPRESS-1619: Immunization, Administered authorDatetime in Record Sample

Precondition:

- A Cypress 4.x instance
- Measures with “Immunization, Administered”
 - Uses “authorDatetime” attribute
 - Ex: CMS127v7
- Record Sample Test with Immunization, Administered data criteria selected

Issue:

- Cypress is looking for an authorDatetime in an element for which there is no authorDatetime
- Implementation guide indicates effectiveTime element is used for that the authorDatetime (Cypress looking for wrong attribute)

Workaround:

- Only necessary if Record Sample Test is generated with a “Immunization, Administered” and authorDatetime attribute
- That data criteria may be swapped out for any other available data criteria option
- May reach out to ATL to edit the test and swap this criteria

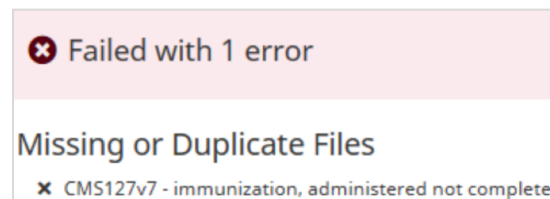
Immunization, Administered Criteria:

Validated in QRDA	Data Criteria	Section	Required Attributes	Value Set(s)	Recorded Code/Attribute Value
				Pneumococcal Vaccine	✓ Code
		Valuesets		2.16.840.1.113883.3.464.1003.110.12.1027	33
	Immunization, Administered				✓ Recorded result
		Attributes	authorDatetime	authorDatetime	20170201

Proper Immunization, Administered:

```
<entry>
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!-- Immunization Activity template -->
    <templateId root="2.16.840.1.113883.10.20.22.4.52" extension="2014-06-09"/>
    <!-- Immunization, Administered template -->
    <templateId root="2.16.840.1.113883.10.20.24.3.140" extension="2017-08-01"/>
    <id root="1.3.6.1.4.1.115" extension="5be052db63623903f95940ea"/>
    <code code="416118004" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Administration"/>
    <statusCode code="completed"/>
    <effectiveTime value="20170201160000"/>
    <doseQuantity value="1" unit="{dose(s)}/>
  </substanceAdministration>
  <manufacturedProduct classCode="MANU">
    <!-- Immunization Information (consolidation) template -->
    <templateId root="2.16.840.1.113883.10.20.22.4.54" extension="2014-06-09"/>
    <id root="8aedd8e0-0dd3-0137-0cde-080027cf1095"/>
    <manufacturedMaterial>
      <code code="33" codeSystem="2.16.840.1.113883.12.292" codeSystemName="CVX"/>
      <lotNumberText>1</lotNumberText>
    </manufacturedMaterial>
  </manufacturedProduct>
</substanceAdministration>
</entry>
```

Cypress Fail Results:



Cypress Versions

Version	Dates	Measures Supported
V 3.2.3	December 14, 2017	Support for the eCQMs for the 2018 Reporting/Performance Period *will be supported alongside Cypress v4
V4.0.1	October 11, 2018	Support for the eCQMs for the 2019 Reporting/Performance Period Support for Clinical Quality Language (CQL) calculation
V4.0.2	January 31, 2019	

Bundle Version	Dates	Features
2017.0.3	April 24, 2018	Cypress v3 only “Z1 BH Adult” updated for CMS128v6
2017.0.4	September 25, 2018	Cypress v3 only Errata update to fix ‘Download All Patients’ feature when 2017.0.3 and 2017.0.2 are installed simultaneously
2018.0.1	July 26, 2018	Cypress v4 only CQL-based measures released in 2018 for the 2019 reporting year eCQM Value Sets as of 5/4/2018.
2018.1.0	October 11, 2018	Cypress v4 only CQL-based measures released in 2018 for the 2019 reporting year eCQM Value Sets as of 9/17/2018.

HIMSS 2019 Conference Sessions

- We invite those attending the Health Information and Management Systems Society (HIMSS) Conference in Orlando, FL, to join us:

Cypress Office Hours by Appointment			FHIR's Impact on eCQM Development and Testing	Balancing Value & Burden: CMS Electronic Quality Reporting	Collaborative Measure Development Workspace Feedback Session
2/12/19	2/13/19	2/14/19	2/13/19	2/14/19	2/14/19
1-2:30pm ET	12-1:30pm ET	1-3pm ET	10-11am ET	8:30-9:30am ET	11am-12pm ET
Booth 701	Booth 701	Booth 701	W310A MITRE Government Relations Room	W307A	W310A MITRE Government Relations Room

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, February 26, 2019 at 1pm ET
- To join online, visit:
<https://meetings.cms.gov/orion/joinmeeting.do?MTID=98271705d4bc4ad148cf1e39d5c7408>
- To join via phone, dial: 1-877-267-1577
- Meeting Number: 998 084 717
- Meeting link, as well as a calendar event file, available at:
 - <https://www.healthit.gov/cypress/techtalks.html>

Notes

- **Completed Webinars will be posted on the Cypress Website on the Timeline Tab**
 - <https://www.healthit.gov/cypress/techtalks.html>
- **Send questions and feedback to the Cypress Talk List at**
 - project-cypress-talk@googlegroups.com
- **Report bugs and issues to the Cypress JIRA at**
 - <https://oncprojecttracking.healthit.gov/support/browse/CYPRESS>