Cypress™

Cypress Tech Talk

August 27, 2019

MITRE

The Office of the National Coordinator for Health Information Technology

CMS CENTERS FOR MEDICARE & MEDICAID SERVICES

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Agenda

- Software Updates
  - Cypress 5.0.1 Patch Release
  - Measure Logic Highlighting
  - Status updates for long running uploads
- Recent Issues
  - C2 test returning “Internal Error” message
  - Patient Import Fails when missing Low value
- Cypress Versions
- Open Discussion
- Contact Information

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Software Update

Cypress 5 Releases

- Cypress 5.0.1 is planned for release on Thursday, August 29th

- **Cypress Features**
  - Measure Logic Highlighting for vendor provided test patients.
  - Increased granularity of status message for bundle and vendor patient uploads.

- **Cypress Bugs Addressed**
  - Internal Error returned by Cypress instead of error message for incorrect population counts. (CYPRESS-1785)
  - Patient Import Fails when missing Low value. (CYPRESS-1785)

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Software Update

Measure Logic Highlighting

- **CVU+ is being updated to display eCQM calculation and Measure Logic Highlighting for uploaded developer-generated test patients**

Measure Information

	IPOP	DENOM	NUMER	DENEX	DENEXCEP
CMS2v9 - PopulationSet 1					

View Logic Highlighting

Populations

Initial Population

```
define "Initial Population":
    "Patient Age 12 Years or Older at Start of Measurement Period"
        and exists ( "Qualifying Encounter for Depression Screening" )
```

Denominator

```
define "Denominator":
    "Initial Population"
```

Denominator Exclusions

```
define "Denominator Exclusions":
    "Has Diagnosis of Bipolar Starting Before Qualifying Encounter"
        or "Has Diagnosis of Depression Starting Before Qualifying
Encounter"
```

Numerator

```
define "Numerator":
    ( "Patient Age 12 to 17 Years at Start of Measurement Period"
        and ( "Most Recent Adolescent Depression Screening
Negative" is not null
            or "Follow up for Positive Adolescent Depression
```

QDM::Diagnosis

Depression diagnosis
Codes:
ICD10CM: F34.1
SNOMEDCT: 78667006
Time Elements:
Prevalence Period Start: 2017-05-31T08:30:00.000Z
Other Fields:

Depression diagnosis
Codes:
SNOMEDCT: 14183003
ICD10CM: F32.0
Time Elements:
Prevalence Period Start: 2018-02-26T08:00:00.000Z
Other Fields:

QDM::EncounterPerformed

BP Screening Encounter Codes
Codes:
CPT: 99205
Time Elements:
Relevant Period Start: 2017-05-31T08:00:00.000Z
Relevant Period End: 2017-05-31T09:00:00.000Z
Other Fields:
Length Of Stay: 0 d

BP Screening Encounter Codes
Codes:

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Software Update

Status updates for long running uploads

- **Current the Bundle upload and Vendor Patient upload can take a long time**
  - Original status messages

Current Vendor Uploads

File	Status	
0_Alexander_Mcgee.xml.zip	working	Importing

  - Updated status messages

Current Bundle Import Jobs

File	Status	
bundle-2019.zip	working	Calculating (3 of 59 measures complete)

Current Vendor Uploads

File	Status	
Archive.zip	working	Calculating (18% complete)

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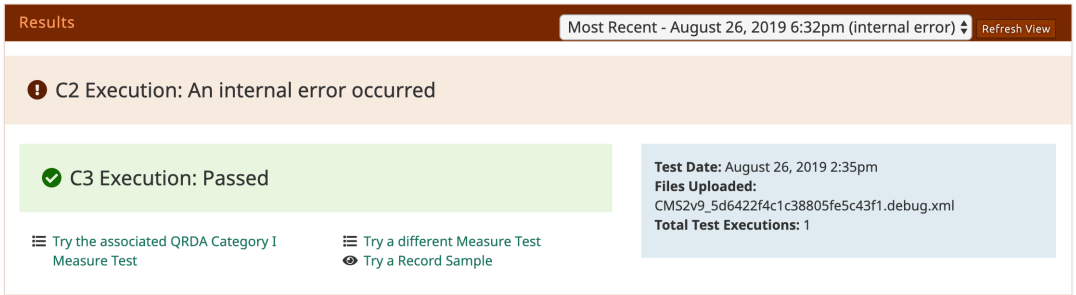
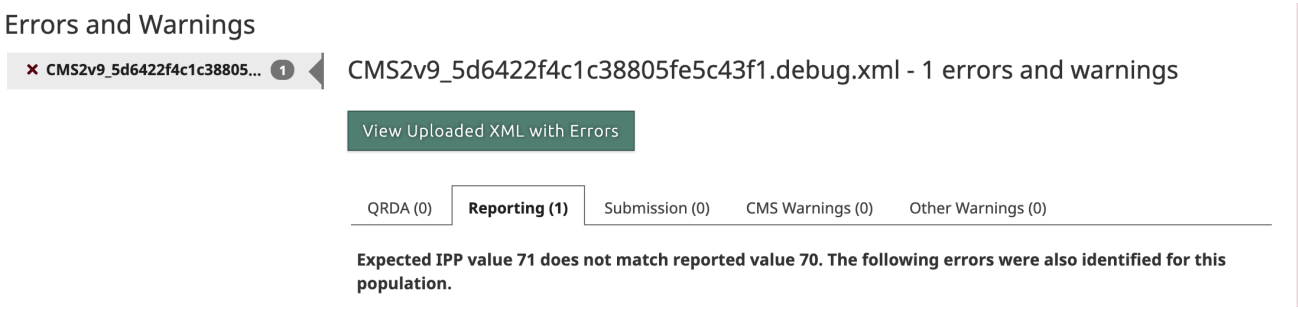
Recent Issues

Internal Error returned by Cypress instead of error message (CYPRESS-1785)

- **C2 test returning "Internal Error" message**
  - This error message is being returned when 'expected' population counts do not match 'reported' population counts



- **The error message should appear as below**
  - Will be fixed in 5.0.1 patch release



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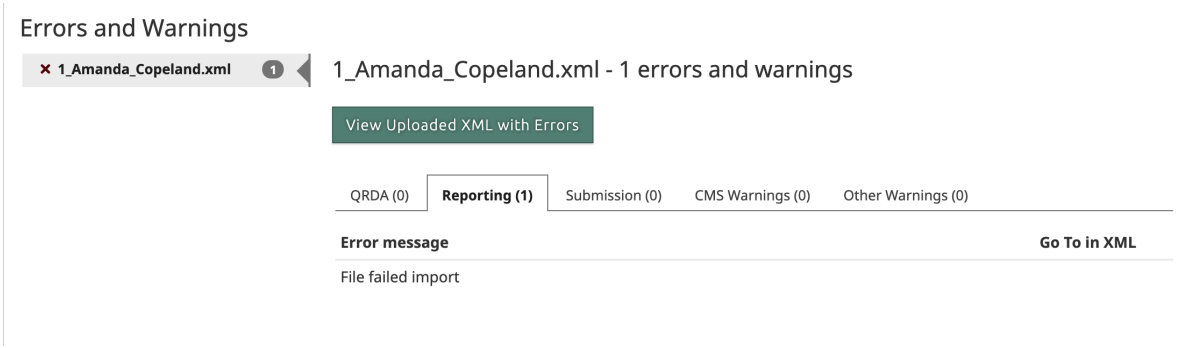
Recent Issues

Patient Import Fails when missing Low value (CYPRESS-1785)

- **Cypress Patient Import fails when an interval's low value is missing or unknown**
  - Will be fixed in 5.0.1 patch release




```xml
<!-- QDM Attribute: Relevant Period -->
<effectiveTime>
  <low nullFlavor="UNK"/>
  <high nullFlavor="UNK"/>
</effectiveTime>
```

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Cypress Versions

Version	Dates	Measures Supported
V4.0.3	**May 2, 2019**	Latest version supporting eCQMs for the 2019 Reporting/Performance Period and CQL. Fixes record sample and other 4.0.2 bugs.
V5.0.0	**July 25, 2019**	Latest version supporting eCQMs for the 2020 Reporting/Performance Period and CQL.
V5.0.1	**August 29, 2019***	

Bundle Version	Dates	Features
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.
2019.0.1	**July 25, 2019**	**Cypress v5 only** CQL-based measures released in 2019 for the 2020 reporting year eCQM Value Sets as of 5/10/2019.

*Planned

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OPEN DISCUSSION

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Next Cypress Tech Talk

- Tuesday, September 10, 2019 at 1pm ET
- To join online, visit: https://meetings.cms.gov/orion/joinmeeting.do?MTID=98271705d4bcc4ad148cf1e39d5c7408
- 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

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Notes

- **Completed Webinars will be posted on the Cypress website on the Tech Talks 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://oncprojectracking.healthit.gov/support/browse/CYPRESS

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