Cypress™

Cypress Tech Talk

November 16, 2021

MITRE

The Office of the National Coordinator for
Health Information Technology

CMS
CENTERS FOR MEDICARE & MEDICAID SERVICES

Agenda

- Software Updates
  - Cypress 6.2.2
- Recent Issue
  - Cypress Known Issue 2307
  - Cypress Known Issue 2305
  - Cypress Known Issues Dashboard
- Cypress Versions
- Open Discussion
- Contact Information

*See the Glossary at the back for definitions of terms

Software Updates
Cypress 6.2.2

- **Cypress 6.2.2**
  - Was released on September 23, 2021
- **Features**
  - Strict enforcement of Author templateIds
  - Display rank for Encounter Diagnosis in HTML views (Cypress-2280)
  - Measure ID check for CVU+ QRDA Category III validations (Cypress-2295)
    - Will verify that all expected measures are being reported
    - Will return warnings when measures are missing
  - Scoop and filter applied to C1 Record Sample patients
    - Limits patient data to the relevant eCQMs

Software Updates
Strict enforcement of Author templateIds

- **Background**
  - QRDA defines 2 author templates
    - Author (2.16.840.1.113883.10.20.24.3.155:2019-12-01)
      - Used by 37 QDM Datatypes
    - Author Participation (2.16.840.1.113883.10.20.22.4.119)
      - Used by 1 QDM Datatype (Discharge Medication)
  - For 2020 Reporting, Hospital Quality Reporting (HQR) and The Joint Commission (TJC) systems ignored the templateId when importing Author dateTime
  - For 2021 Reporting, HQR and TJC will enforce that the correct templateId is provided when importing Author dateTime

- **Starting with Cypress 6.2.2 Author dateTimes reported using the incorrect templateId will not be used in eCQM calculations**

Recent Issue

Author Participation IDs

- **Known issue Cypress-2307**

  - nullFlavored IDs provided by Cypress in Author Participation templates do not strictly conform with QRDA guidance.

- **Addressed with a v6.2.2.1 patch that has been made available via the upgrade path.**

3. **SHALL** contain exactly one [1..1] **assignedAuthor** (CONF:1098-31472).

   a. This assignedAuthor **SHALL** contain at least one [1..*] **id** (CONF:1098-31473). Note: This id may be set equal to (a pointer to) an id on a participant elsewhere in the document (header or entries) or a new author participant can be described here. If the id is pointing to a participant already described elsewhere in the document, assignedAuthor/id is sufficient to identify this participant and none of the remaining details of assignedAuthor are required to be set. Application Software must be responsible for resolving the identifier back to its original object and then rendering the information in the correct place in the containing section's narrative text. This id must be a pointer to another author participant.

      i. If the ID isn't referencing an author described elsewhere in the document, then the author components required in US Realm Header are required here as well (CONF:1098-32628).
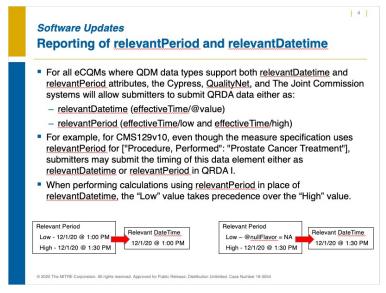
```
<author>
  <templateId root="2.16.840.1.113883.10.20.22.4.119"/>
  <!-- QDM Attribute: authorDatetime -->
  <time value="20200407123000"/>
  <assignedAuthor>
    <id nullFlavor="NA"/>
  </assignedAuthor>
</author>
```
Before

```
<author>
  <templateId root="2.16.840.1.113883.10.20.22.4.119"/>
  <!-- QDM Attribute: authorDatetime -->
  <time value="20200407123000"/>
  <assignedAuthor>
    <id extension="1362607735" root="2.16.840.1.113883.4.6"/>
  </assignedAuthor>
</author>
```
After

Recent Issue

C1 Record Sample - using relevantPeriod and relevantDatetime

- **Known issue Cypress-2305**
  - The 2020 Bundle for 2021 reporting allowed for interchangeable use of Relevant Period and Relevant Datetime.
  - A bug in C1 Record Sample tests in Cypress 6.2.0 no longer allowed for interchangeable use with the 2020 Bundle.

- **Addressed with a v6.2.2.1 patch that has been made available via the upgrade path.**

- **Note: The 2021 Bundle does not allow for interchangeable use of Relevant Period and Relevant Datetime.**

Original Slide from December 29, 2020

Recent Issue
Cypress Known Issues Dashboard

- https://oncprojectracking.healthit.gov/support/secure/Dashboard.jspa?selectPageId=18000

- The dashboard collects all labeled known issues in one place, sorted by Cypress version

- Easily navigate to the dashboard from the Cypress summary page

Filter Results: Cypress Known Bugs 6.2.0			
Summary	2022 Performance Period EP/EC eCQMs	2022 Reporting Period EH/CAH eCQMs	Solution
QDM::InterventionPerformed failing for Certification C1 Record Sample for some measures in 6.2.2			A Cypress 6.2.2.1 patch (https://www.healthit.gov/cypress/release.html#6.2.2.1) has been made available to address this issue. It can be applied to any version of Cypress v6.
Cypress 6.2.2 Introduces author templateId restrictions but provides malformed documents			A Cypress 6.2.2.1 patch (https://www.healthit.gov/cypress/release.html#6.2.2.1) has been made available to address this issue. It can be applied to any version of Cypress v6.
[Cypress 6.2.0] Full Test Deck Download Fails After Updating To 6.2.0			Re-running the update script should fix this issue. https://github.com/projectcypress/cypress/wiki/Cypress-6.x-Upgrade-Instructions
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Cypress Versions

Version	Dates	Measures Supported
V6.1.2	February 11, 2021	Updates to support new schematron and MIPS APM Entity for the 2021 reporting/performance period eCQMs.
V6.2.0	June 24, 2021	Full support for the 2022 reporting/performance period eCQMs.
V6.2.1	July 22, 2021	Full support for the 2022 reporting/performance period eCQMs adding released CMS QRDA III IG.
V6.2.2	September 23, 2021	Strict enforcement of Author templateIds
V6.2.2.1	October 5, 2021	Patch to address Known Issues 2305 and 2307

Bundle Version	Dates	Features
2020.0.5	February 19, 2021	**Cypress v6 only** Calculations for Master Patient List updated to reflect updated guidance for Relevant dateTime/Relevant Period and addresses issues with time zone offsets.
2021.0.2	June 24, 2021	**Cypress v6 only** Measures and patients released in 2021 for the 2022 reporting year.

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, December 14, 2021 at 1pm ET
- To join online, visit: https://global.gotomeeting.com/join/529898157
- To join via phone, dial: 1-646-749-3122
- Meeting Number: 529 898 157
- Meeting link, as well as a calendar event file, available at:
    – https://www.healthit.gov/cypress/techtalks.html

- **Note: Cypress Tech Talks will now occur every 4 weeks**

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

Glossary

- **API – Application Programming Interface**
- **CCDE – Core Clinical Data Elements**
- **CQL – Clinical Quality Language**
- **CVU – Cypress Validation Utility**
- **CVU+ – Cypress Validation Utility Plus Calculation Check**
- **EC – Eligible Clinician**
- **eCQM – Electronic Clinical Quality Measure**
- **EH – Eligible Hospital**
- **EP – Eligible Professional**
- **HL7 – Health Level Seven International**
- **IG – Implementation Guide**
- **QPP – Quality Payment Program**
- **QRDA – Quality Reporting Document Architecture**
- **UMLS – Unified Medical Language System**