Cypress™

Cypress Tech Talk

May 30, 2023

MITRE

The Office of the National Coordinator for Health Information Technology

CMS
CENTERS FOR MEDICARE & MEDICAID SERVICES

Agenda

- Software Updates
  - Cypress 7.0.5 and Cypress 7.0.6
  - Cypress 7.1.0
- Recent Issue
  - Cypress Known Issues Dashboard
- Cypress Versions
- Open Discussion
- Contact Information

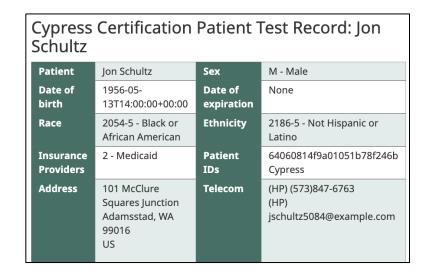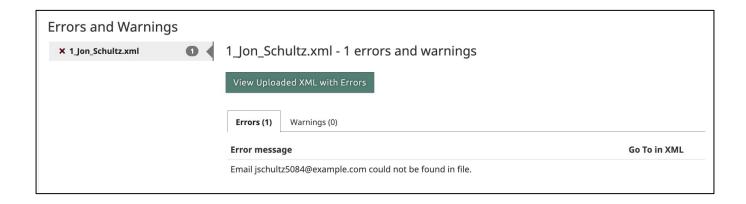*See the Glossary at the back for definitions of terms

Software Updates
Cypress 7 (2023 Annual Update)

- **Cypress 7.0.5**
  - Released on March 23rd 2023.
- **Cypress 7.0.6**
  - Released on May 18th 2023.

- **Include the following feature improvements:**
  - Supports the 3/23/23 update to the 2023 CMS QRDA I Implementation Guide (v1.2) for Hospital Quality Reporting.
    - Round trip validation of test patient phone number and email address.

```xml
<recordTarget>
  <patientRole>
    <!-- Patient Identifier Number. The root OID could be provider's
      organization OID or other value -->
    <id root="2.16.840.1.113883.123.123.1" extension="022354"/>
    <addr use="HP">
      <streetAddressLine>101 North Pole Lane</streetAddressLine>
      <city>Ames</city>
      <state>IA</state>
      <postalCode>50014</postalCode>
      <country>US</country>
    </addr>
    <telecom use="HP" value="tel:+1(781)271-3000"/>
    <telecom use="HP" value="mailto:me@email.com"/>
    <patient>
      <name>
        <given>Jane</given>
        <family>Doe</family>
      </name>
```

Verifying Email and Phone Numbers

- **In Cypress 7.0.5 all Cypress test patients will be updated to include an Email address and Phone number**

- **Missing Email addresses and Phone numbers will result in errors for "C1" tests**

  – Cypress 7.0.6 relaxes validation to only report 'errors' when both email and phone number are missing

Cypress Certification Patient Test Record: Jon Schultz

Patient	Jon Schultz	Sex	M - Male
Date of birth	1956-05-13T14:00:00+00:00	Date of expiration	None
Race	2054-5 - Black or African American	Ethnicity	2186-5 - Not Hispanic or Latino
Insurance Providers	2 - Medicaid	Patient IDs	64060814f9a01051b78f246b Cypress
Address	101 McClure Squares Junction Adamsstad, WA 99016 US	Telecom	(HP) (573)847-6763 (HP) jschultz5084@example.com

Errors and Warnings

✗ 1_Jon_Schultz.xml   ①

1_Jon_Schultz.xml - 1 errors and warnings

[View Uploaded XML with Errors]

Errors (1)   Warnings (0)

Error message	Go To in XML
Email jschultz5084@example.com could not be found in file.	

Software Updates
Cypress 7.1 (2024 Annual Update)

- **Cypress 7.1.0**
  - For the 2024 Reporting and Performance Period
  - Release will be 2023, 2024 compatible
  - 2023 bundle (for the 2024 reporting period) can be loaded alongside the the 2022 bundle (for the 2023 reporting period)

- **Release Schedule**
  - Release scheduled to be available in all release formats June 22, 2023
    - Note: Due significant upgrades to the underlying database and operating system (MongoDB 6 and Ubuntu-22) There will not be an upgrade path from Cypress v7 to Cypress v7.1

Cypress 7.1

- **Cypress Features**
  - Supports the §170.315(c)(1), §170.315(c)(2), §170.315(c)(3), and §170.315(c)(4) certification criteria.
  - For the 2023 and 2024 Reporting Period:
    - Supports validation with Health Level Seven International (HL7) Clinical Document Architecture (CDA®) R2 Implementation Guide: Quality Reporting Document Architecture (QRDA) I, Release 1, Standard for Trial Use (STU) Release 5.3 - US Realm.
    - Supports validation with HL7 CDA® Release 2 Implementation Guide: QRDA III, Release 1
  - Supports the eCQMs for eReporting for the 2023 Reporting Period (eCQM value sets as of May 5, 2022).
  - Supports the eCQMs for eReporting for the 2024 Reporting Period (eCQM value sets as of May 4, 2023).
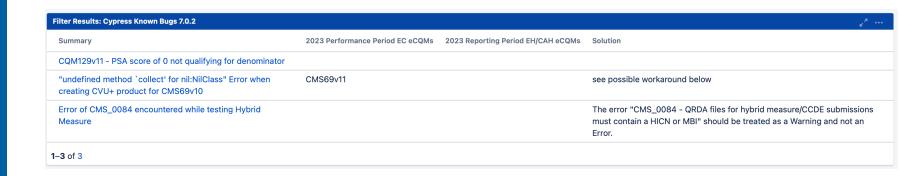   - Including 9 Pre-rulemaking eCQMs (3 EC, 3 EH, 2 Hybrid, 1 OQR)
- **Cypress Validation Utility + Calculation Check (CVU+) Features**
  - Supports validation with the CMS Implementation Guides for QRDA Category I – Implementation Guide for 2023 and 2024.
  - Supports validation with the CMS Implementation Guides for QRDA Category III – Implementation Guide for 2023 and preliminary support for 2024.

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 7.0.2			
Summary	2023 Performance Period EC eCQMs	2023 Reporting Period EH/CAH eCQMs	Solution
CQM129v11 - PSA score of 0 not qualifying for denominator			
"undefined method `collect' for nil:NilClass" Error when creating CVU+ product for CMS69v10	CMS69v11		see possible workaround below
Error of CMS_0084 encountered while testing Hybrid Measure			The error "CMS_0084 - QRDA files for hybrid measure/CCDE submissions must contain a HICN or MBI" should be treated as a Warning and not an Error.
1–3 of 3			

Cypress Versions

Version	Dates	Release Note
V7.0.4	January 19, 2023	Updated 2023 CMS Implementation Guide for QRDA III and QRDA I R5.3 errata
V7.0.5	March 23, 2023	Updated 2023 CMS Implementation Guide for QRDA I
V7.0.6	May 18, 2023	Relaxed telecom validation

Bundle Version	Dates	Features
2022.1.0	July 11, 2022	Measures and patients released in 2022 for the 2023 reporting year. Required bundle for import into v7.0.1 and later
2022.1.1	October 20, 2022	Removed cross-walking codes impacting CMS334

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, June 27, 2023 at 1pm ET

- To join online, visit: https://mitre.zoomgov.com/j/1605680758

- To join via phone, dial: 1-551-285-1373

- Meeting Number: 160 568 0758

- 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 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**