Cypress™

Cypress Tech Talk

June 2, 2020

MITRE

The Office of the National Coordinator for
Health Information Technology

CMS
CENTERS FOR MEDICARE & MEDICAID SERVICES

Agenda

- Software Updates
  - Cypress v5.4.0 Cures Patch Release
    - Cypress v5.4.1
  - Cypress v6 Releases
  - Cypress 6 and Cures Features Demo
- 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 v5.4.0 Cures Patch Release

- **A Cypress v5.4.0 patch release was on May 14, 2020**

- **Cures Features**
  - Live demo on today's Cypress Tech Talk
  - Updates for the 21st Century Cures Interoperability Rule
  - CMS Implementation Guide (IG) used to validate QRDA structure, including v1.2 QRDA-I updates from 3/13/2020
  - QRDA-I C3 validation only for EH measures; QRDA-III C3 validation only for EP/EC

- **De-duplication Features**
  - De-duplication updated to add more realism
  - Addresses are randomized, but the same address is used for duplicate patients
  - Birthdate changes in duplicate patients are rare and limited to changes in the day of the month

- **CVU+ Tests**
  - Provide HL7-only tests for full coverage of previous CVU features

Cypress v5.4.1 2015 Edition Options

- **As packaged, Cypress 5.4.0 is Cure Edition only**
  - Currently 5.3.0 is currently required to test for original 2015 Edition
- **Cypress v5.4.1 will give both options**
  - 2015 Edition, and
  - 2015 Edition Cures Update
- **Cypress v5.4.1 planned**
  - Anticipated June 4th, 2020

Software Updates
Cures Features

- **ONC Interoperability Rule released on March 9, 2020 to support the 21st Century Cures Act**

- **Cypress updates for C3 certification and schematron validation**

  – CMS IG is used for validation and shows errors for CMS IG validation issues

  – Uses latest CMS schematron, updated on March 13, 2020

  – QRDA-I C3 validation only required for EH measures

  – QRDA-III C3 validation only required for EP/EC measures

  – Example, EP/EC measure with C3 certification will have no QRDA-I tests:

| C3 (QRDA-I) | C2 + C3 (QRDA-III) |

Test the EHR system's ability to submit (C3) measure based data.

There are no additional tests for this criteria.
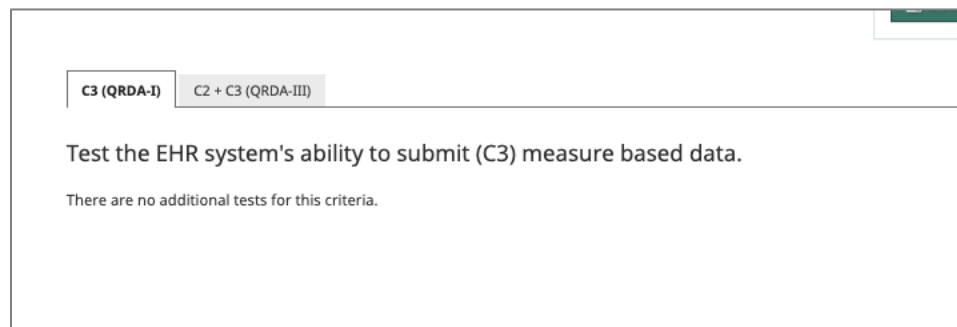
Software Updates
De-duplication Features

- **Address Changes**
  - Previously, Cypress created all patients with the same address
  - Cypress update creates patients with different addresses, where addresses will not be changed when duplicating patients
- **Birthdate Changes**
  - Previously, birthdate was often changed in duplicate patients to a random date in a range from the original patient birthdate
  - Updates make birthdate changes less common
  - Birthdate changes only update the *day* while keeping the month and year the same

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  ▼<patientRole>
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      <state>MA</state>
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    </addr>
    <telecom use="WP" value="tel:+1-781-271-3000"/>
  ▼<patient>
```

```
▼<recordTarget>
  ▼<patientRole>
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      <state>NY</state>
      <postalCode>11758</postalCode>
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    </addr>
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```

Software Updates
CVU+ HL7 Tests

- **HL7-only tests provided as CVU+ functionality**

  – Previously, the Cypress Validation Utility provided simple validation with the HL7 schematron

  – Users have expressed continued interest in HL7 validation

  – HL7 Cat I and HL7 Cat III tests are both provided as options in CVU+

Software Updates
Cypress v6 Releases

- **Cypress v6 Alpha release May 21, 2020**
  - HL7 QRDA category 1 R5.2
  - 2021 CMS QRDA Implementation Guide for Hospital Quality Reporting
  - Initial support for 2021 reporting/performance period eCQMs
    - 9 EH/CAH eCQMs
    - 47 EP/EC eCQMs
    - 1 Hybrid eCQM (CMS529)
- **Final Cypress v6 release anticipated late July 2020**

Cypress 6 and Cures Features Demo

- **Demo**

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

Cypress Versions

Version	Dates	Measures Supported
V5.3.0	March 12, 2020	Latest version supporting eCQMs for the 2020 Reporting/Performance Period and CQL. Contains feature improvements and fixes for bugs found in Cypress v5.2.0.
V5.4.0	May 14, 2020	Support for certification changes due to regulation updates in the Cures Interoperability Rule. Adds more de-duplication realism.
V6 Alpha	May 21, 2020	Initial support for QRDA category 1 R5.2 and 2021 reporting/performance period eCQMs.
V5.4.1	*Anticipated June 4, 2020*	Support for 2015 Certification Edition OR 2015 Certification Cures Updated Edition

Bundle Version	Dates	Features
2019.1.1	December 19, 2019	**Cypress v5 only** CQL-based measures released in 2019 for the 2020 reporting year. Removed retired measures as announced on November 19, 2019.

*Cypress v4 and the 2018 bundle are moving into retirement due to the end of the 2019 reporting period.

Reporting end dates: April 30 for EP (source: QPP). May 1st for EH (source: QualityNet).

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, June 16, 2020 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

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

- **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**