

Cypress™

Cypress Tech Talk

December 15, 2020



MITRE

The Office of the National Coordinator for
Health Information Technology



Agenda

- Software Updates
 - Cypress 6.1.0 Updates
 - Reporting of relevantPeriod and relevantDatetime
 - CVU+ Performance Enhancements
- Recent Issue
 - Cypress Known Issues Dashboard
- Cypress Versions
- Open Discussion
- Contact Information

*See the Glossary at the back for definitions of terms

Software Updates

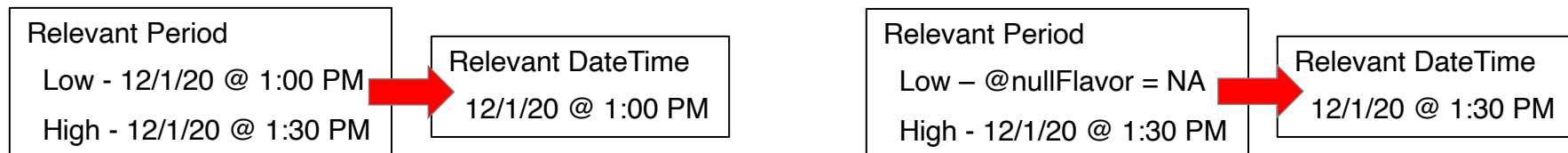
eCQMs using relevantPeriod and relevantDatetime

- As specified in QDM 5.5, several QDM data types, such as “Procedure, Performed”, support either relevantDatetime or relevantPeriod timing attributes.
- Issues have been raised through ONC Jira projects in regards to varying use of relevantDatetime and relevantPeriod in eCQMs for these QDM data types.
- For Example:
 - CMS129v10:
 - ["Procedure, Performed": "Prostate Cancer Treatment"] uses *relevantPeriod*
 - ["Procedure, Performed": "Cancer staging (tumor staging)"] uses *relevantDatetime*

Software Updates

Reporting of relevantPeriod and relevantDatetime

- For all eCQMs where QDM data types support both relevantDatetime and relevantPeriod attributes, the Cypress, QualityNet, and The Joint Commission systems will allow submitters to submit QRDA data either as:
 - relevantDatetime (effectiveTime/@value)
 - relevantPeriod (effectiveTime/low and effectiveTime/high)
- For example, for CMS129v10, even though the measure specification uses relevantPeriod for ["Procedure, Performed": "Prostate Cancer Treatment"], submitters may submit the timing of this data element either as relevantDatetime or relevantPeriod in QRDA I.
- When performing calculations using relevantPeriod in place of relevantDatetime, the “Low” value takes precedence over the “High” value.














Software Updates

CVU+ Performance Enhancements

- Users have reported that bulk uploads of QRDA I files can take an exceedingly long time
- One of the causes is Cypress v6.0.1 performs calculations for every QRDA file, for every eCQM selected

$$\frac{1000 \text{ Files} \times 60 \text{ eCQMs}}{60,000 \text{ Calculations}}$$

- Cypress v6.1.0 has been updated to perform calculations in batches

| MultiMeasureTest | | CMSProgramTest | |
|------------------------|--|----------------|--|
| Test Name | Quick Upload | | |
| HQR_PI Test |  start upload | | |
| HQR_IQR Test |  start upload | | |
| HQR_PI_IQR Test |  start upload | | |
| HQR_IQR_VOL Test |  start upload | | |
| MIPS_GROUP Test |  start upload | | |
| MIPS_INDIV Test |  start upload | | |
| MIPS_VIRTUALGROUP Test |  start upload | | |
| CPCPLUS Test |  start upload | | |
| PCF Test |  start upload | | |
| HL7 Cat I Test |  start upload | | |
| HL7 Cat III Test |  start upload | | |

Software Updates

CVU+ Performance Enhancements

- In Cypress v6.0.1, CVU+ Calculations/Results are only viewable in the Cypress user interface
 - For bulk uploads, this page can take a while to load and is cumbersome to view
- Cypress v6.1.0 will include (most recent) Calculations/Results as part of the downloadable report

Results Most Recent - Upload 2 of 2 (passing) [Refresh View](#)

✓ Passed

Test Date: November 25, 2020 10:49am
Files Uploaded: _5fbc78a3dfe4bd59a72a0d72.qrda.zip
Total Test Executions: 2

Warnings

- 0_Allison_Alvarez.xml
- 10_Priscilla_Pittman.xml
- 11_Priscilla_Pittman.xml**
- 12_Stella_Mcgee.xml
- 13_Stephen_Wolfe.xml
- 14_Valerie_Copeland.xml
- 1_Allison_Alvarez.xml
- 2_Amy_Curtis.xml

11_Priscilla_Pittman.xml

Measure Calculations

| | IPOP | DENOM | NUMER | DENEX | DENEXCEP |
|---------------------------|------|-------|-------|-------|----------|
| CMS9v9 - PopulationSet 1 | ○ | ○ | ○ | ○ | ○ |
| CMS50v9 - PopulationSet 1 | ● | ● | ○ | ○ | ○ |

CVU Edit Product Download Report

| | EP Measure Test | EH Measure Test | CMS Program Tests |
|---------------------|-----------------|-----------------|-------------------|
| ✓ Passing Tests | | | |
| ✗ Failing Tests | | | |
| ○ Not started Tests | 1 | 1 | 11 |

Download Full Test Deck

This download contains a folder for each measure selected for this product. Inside these folders are XML documents for each patient associated with that measure.

[Download All Patients \(.zip\)](#)

Software Updates

UMLS Login Update

- UMLS has deprecated previous login libraries, now requiring an API key to verify user accounts
- Cypress requires UMLS account verification in order to access used valuesets. In Cypress v6.1.0, this will be verified using the UMLS API Key from the UMLS Licensee Profile information page.

UMLS Licensee Profile

| | |
|--|---------------------------------|
| Username: | jdoe |
| API KEY: | XXXXXXXX-XXXX-XXXX-XXXXXXXXXXXX |
| First Name: | John |
| Middle Name: | |
| Last Name: | Doe |
| Contact Email Address: | |
| Sign In Email Address: | jdoe@test.com |
| Organization: | |
| Requested license on behalf of above organization: | |
| Department: | |

cypress
Rigorous & repeatable testing of Electronic Health Records

Sign In

| | |
|---|--------------------------|
| Email | <input type="text"/> |
| UMLS API Key | <input type="text"/> |
| Password | <input type="password"/> |
| <input type="checkbox"/> Remember me | |
| <input type="button" value="Sign in"/> | |
| Sign up | |
| Reset password | |
| Resend confirmation email | |

Recent Issue

Cypress Known Issues Dashboard

- <https://oncprojecttracking.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 Known Issues | | | |
|--|-------------------------------------|------------------------------------|----------|
| Filter Results: Cypress Known Bugs 6.0.0 | | | |
| Summary | 2021 Performance Period EP/EC eCQMs | 2021 Reporting Period EH/CAH eCQMs | Solution |
| CMS72v9-QRDA1 issue | | | |
| CMS134v9 Denominator Exclusion count | CMS134v9/NQFna | | |
| CMS68v10 procedure performed incomplete issue | | | |
| CMS-190v9 C1 Sample testing returning Internal Error with code nullFlavor in Facility Location | | | |
| CMS-108/190 returning warning when submitting Z29 VTE for C1/C3 testing | | | |
| 1-5 of 5 | | | |

Cypress Versions

| Version | Dates | Measures Supported |
|---------|--------------------------------------|--|
| V5.4.2 | September 17, 2020 | Latest version supporting eCQMs for the 2020 Reporting/Performance Period and CQL. Contains updates to support telehealth checking |
| V6.0.1 | October 15, 2020 | Support for QRDA Category 1 R5.2, Updated CMS IGs, and 2021 reporting/performance period eCQMs. Updated support for telehealth checking. |
| V6.1.0 | <i>Anticipated December 17, 2020</i> | Support calculations with relevantPeriod or relevantDatetime |

| Bundle Version | Dates | Features |
|----------------|--------------------|--|
| 2019.2.0 | September 17, 2020 | Cypress v5 only CQL-based measures released in 2019 for the 2020 reporting year. Contains updates for ELM issues found in CMS128v8, CMS146v8, and CMS56v8. |
| 2020.0.4 | October 15, 2020 | Cypress v6 only CQL-based measures released in 2020 for the 2021 reporting year. Updated patients to use relevant dateTime or relevant period, as appropriate. |

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, December 29, 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://oncprojecttracking.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**