Cypress™

Cypress Tech Talk

January 12, 2021

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 6.1.0 Updates
    - Reporting of relevantPeriod and relevantDatetime
    - CVU+ Performance Enhancements
  - Cypress 6.1.1 Updates
- Recent Issue
  - Cypress Known Issues Dashboard
- Cypress Versions
- Open Discussion
- Contact Information

*See the Glossary at the back for definitions of terms

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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*

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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.

Relevant Period
Low - 12/1/20 @ 1:00 PM
High - 12/1/20 @ 1:30 PM

→

Relevant DateTime
12/1/20 @ 1:00 PM

Relevant Period
Low – @nullFlavor = NA
High - 12/1/20 @ 1:30 PM

→

Relevant DateTime
12/1/20 @ 1:30 PM

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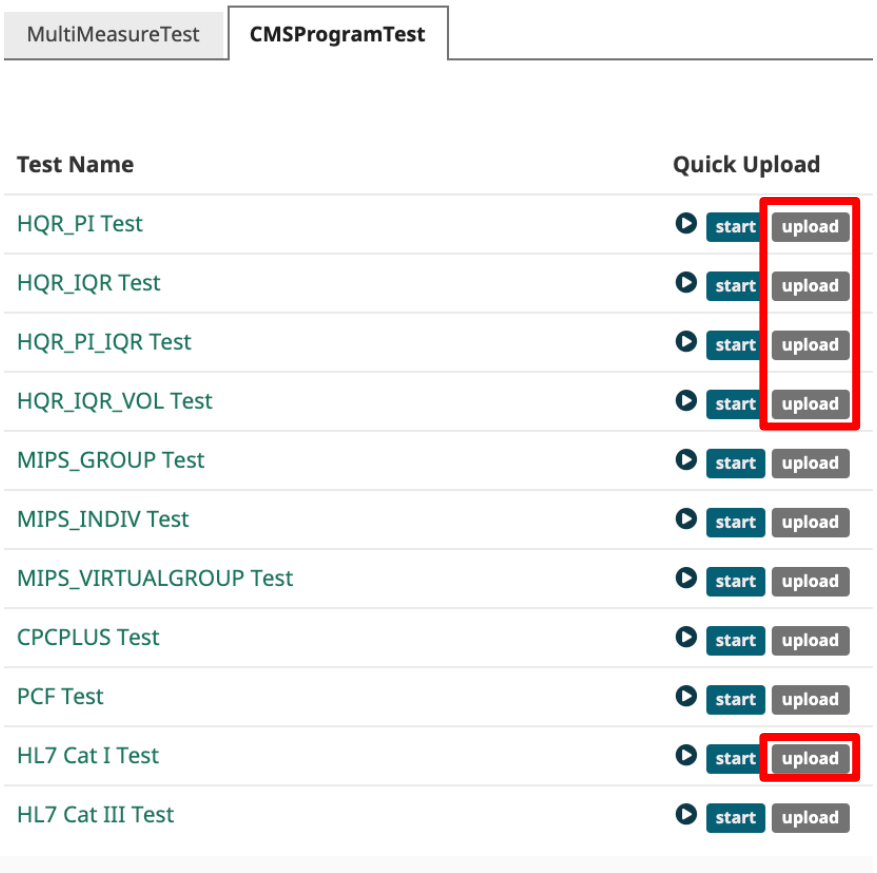
Software Updates

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

1000 Files
60 eCQMs
60,000 Calculations

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



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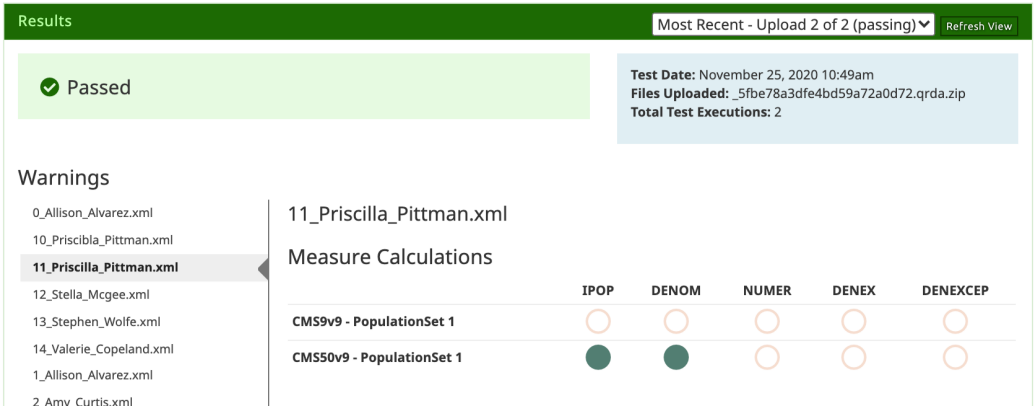
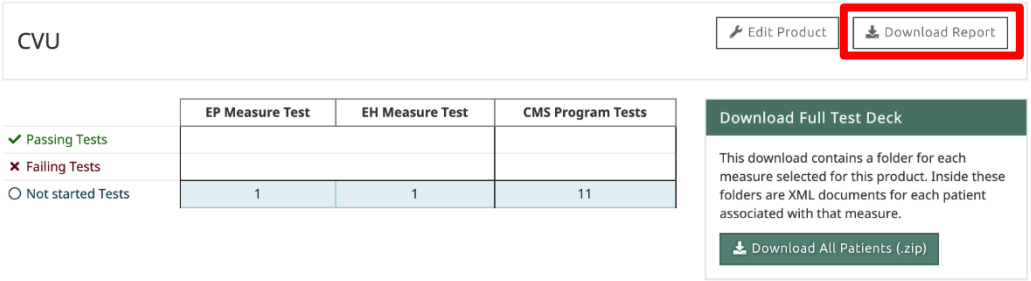
Software Updates

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 includes (most recent) Calculations/Results as part of the downloadable report



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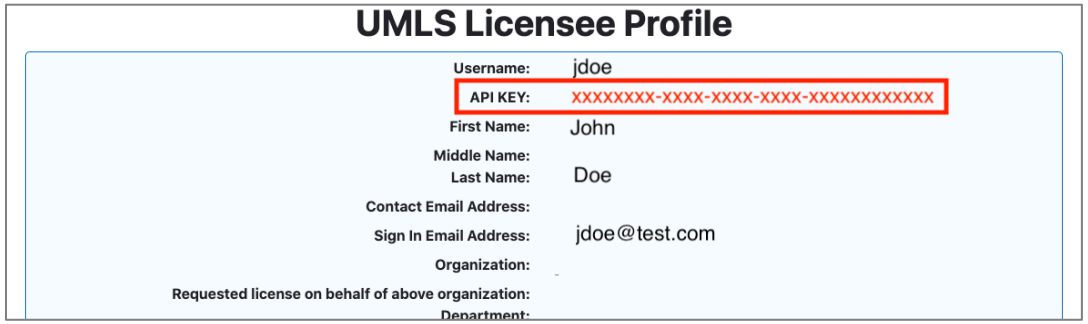
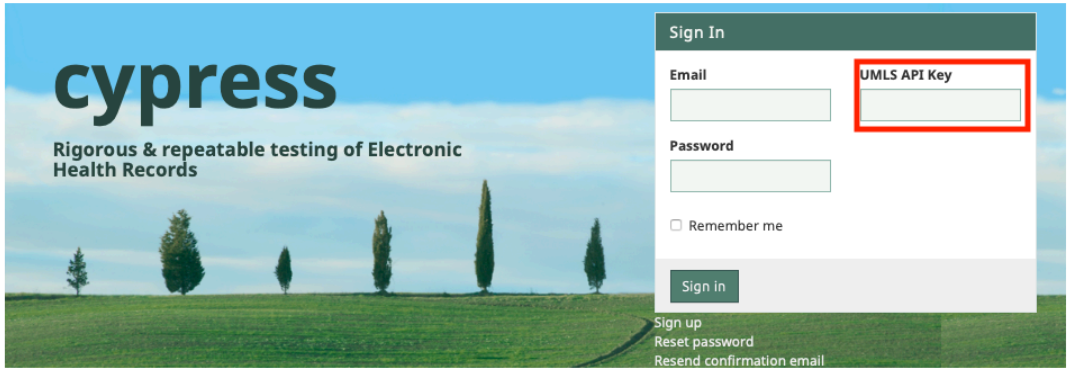
Software Updates

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 is verified using the UMLS API Key from the UMLS Licensee Profile information page.



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Software Updates

Cypress 6.1.1 Update

- **In the previous Cypress version, CVU+ calculations were not properly accounting for negated valuesets**
  - Caused by an update to save certain patient information during CVU+ calculations
  - Patient negation adjustments did not get appropriately saved
- **Cypress 6.1.1 update saves negation adjustments**
  - Released January 6, 2021

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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 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			

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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	**December 17, 2020**	Support for calculations with relevantPeriod or relevantDatetime
V6.1.1	**January 6, 2021**	Update to CVU+ calculations to fix valueset negations

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.

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OPEN DISCUSSION

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Next Cypress Tech Talk

- Tuesday, January 26, 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

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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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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

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