

Cypress™

Cypress Tech Talk

December 1, 2020



MITRE

The Office of the National Coordinator for
Health Information Technology



CMS
CENTERS FOR MEDICARE & MEDICAID SERVICES

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

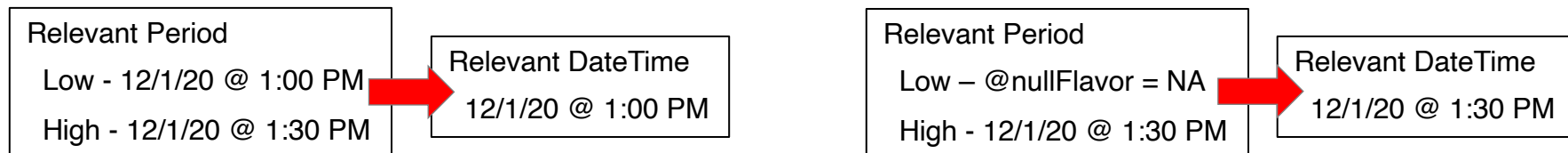
eCQMs using relevantPeriod and relevantDatetime

- 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

1000 Files
60 eCQMs

60,000 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 \(.zip\)](#)

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 15, 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**