

Cypress™

Cypress Tech Talk

May 18, 2021



MITRE

The Office of the National Coordinator for
Health Information Technology



Agenda

- Software Updates
 - Cypress 6.x Annual Update
 - Community Suggested Features and Bug Fixes
- 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 6.x (Annual Update)

■ Cypress 6.x

- For the 2022 Reporting and Performance Period
- Release will be 2021 and 2022 compatible
- 2021 bundle (for the 2022 reporting period) can be loaded alongside the the 2020 bundle (for the 2021 reporting period)

■ Release Schedule

- Preview will be available as a VM (Virtual Machine) May 20, 2021
- Final Release will be available in all release formats Summer 2021

Community Suggested Features and Bug Fixes

- UI Updates
 - Ability to view calculation results for subpopulations when filtering Vendor and Master Patient Lists ([CYPRESS-2218](#))
 - Ability to view Measure Observation calculations in patient lists, and individual patient calculations ([CYPRESS-2236](#))
 - Removed caching of Vendor Patients which hid updates to uploaded patients ([CYPRESS-2212](#))
 - Validation progress displayed for long running tests
- Validation Updates
 - CVU+ Reporting Period validation updated for CMS529 to reflect CMS Guidance ([CYPRESS-2230](#))
- API Updates
 - Hosting of API Documentation on Cypress Web Server
 - API method to view Cypress Version ([CYPRESS-2068](#))
 - API methods to run CMS/HL7 Schematron validation ([CYPRESS-2041](#), [CYPRESS-2133](#))
- VM Updates
 - VM repackaged without compressed disks to support VMWare users on Windows OS ([CYPRESS-2207](#))

Software Updates

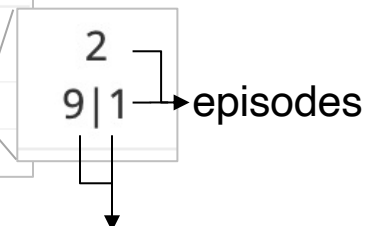
View Measure Observations

- **Ability to view Measure Observation calculations in patient lists, and individual patient calculations ([CYPRESS-2236](#))**
 - Observed values can be seen in the patient details view. Multiple values from different measurements may be observed in a single episode. The view may also show values from different episodes for the same patient.

	IPOP	DENOM	NUMER	DENEX	DENEXCEP
CMS871v1 - PopulationSet 1	2	2	1		
Episode 1 Observations:		9	1		
Episode 2 Observations:		2			
View Logic Highlighting					

- Similar observed values can also be seen in the patient list summary view.



CMS871v0 - PopulationSet 1 Patients							
Patient Name	Template Name	DOB	Gender	IPOP	DENOM	NUMER	OBSERV
Chester Simpson	Z3 N Eye	February 12, 1971	Male				
Debra Collins	1 N performed GP Adult	March 17, 1978	Female				
Jessica Taylor	4 Diabetes Adult	March 9, 1967	Female	2	2	1	
Joann Lowe	7 Diabetes Adult	March 9, 1967	Female	1	1		9



Software Updates

Validation API

- **API methods to run CMS/HL7 Schematron validation ([CYPRESS-2041](#), [CYPRESS-2133](#))**
 - Adds validation endpoint that can be used to post QRDA artifacts for only program-based schematron validation as was available in the previous CVU tool
 - Provides validation information as a QRDA validation json response

/qrda_validation	
QRDA Validations on the system	
/qrda_validation	GET 
/qrda_validation/{year}/{qrda_type}/{implementation_guide}	POST 

URI Parameters

- **Performance Period:** *required (string)*
- **QRDA Types (I or III):** *required (string)*
- **Implementation Guide (CMS or HL7):** *required (string)*

Form Parameters

- **file:** *required (file)*
Artifact to be tested

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.
V6.1.2	February 11, 2021	Updates to support new schematron and MIPS APM Entity for the 2021 reporting/performance period eCQMs.
<i>V6.x Preview</i>	<i>May 20, 2021</i>	Support for the 2022 reporting/performance period eCQMs.

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.
2020.0.5	February 19, 2021	Cypress v6 only Calculations for Master Patient List updated to reflect updated guidance for Relevant dateTime/Relevant Period and addresses issues with time zone offsets.
<i>2021.0.1</i>	<i>May 20, 2021</i>	Cypress v6 only Measures and patients released in 2021 for the 2022 reporting year.

* Cypress v5 and the 2019 bundle are outdated as the 2020 reporting has ended.

The Cypress v5 server will be decommissioned on May 31, 2021.

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, June 1, 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>

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

- **API – Application Programming Interface**
- **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**