Cypress™

Cypress Tech Talk

April 20, 2021

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 2021
  - Final Release will be available in all release formats Summer 2021

Software Updates
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 with 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	OBSERV
CMS871v0 - PopulationSet 1	2	2	1	○	○	2 9|1

View Logic Highlighting

→ episodes

↓ observed values

  – 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	1	1	1	9|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)*
- **Implemenation Guide (CMS or HL7)**: *required (string)*

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

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			
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.
V6.1.1	January 6, 2021	Update to CVU+ calculations to fix valueset negations.
V6.1.2	February 11, 2021	Updates to support new schematron and MIPS APM Entity for the 2021 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.
2020.0.4	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.
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.

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, May 4, 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://oncprojectracking.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**