

Cypress™

Cypress Tech Talk

April 23, 2019



MITRE

The Office of the National Coordinator for
Health Information Technology



CMS
CENTERS FOR MEDICARE & MEDICAID SERVICES

Agenda

- Software Updates
 - Cypress Validation Utility + Calculation Check (CVU+)
 - Bring Your Own Patient Feature
 - Multi-measure Feature
 - Upcoming Software Discussions and Releases
- Recent Issues
- Cypress Versions
- Open Discussion
- Contact Information

Cypress Validation Utility + Calculation Check (CVU+)

- **Cypress v5 will include a new set of features called Cypress Validation Utility + Calculation Check (CVU+)**
- **CVU+ seeks to address the vendor concern that the ‘certification process does not mirror a production scenario for electronic Clinical Quality Measure (eCQM) reporting’**
 - Certification uses a constrained set of test patients
 - Certification does not enforce reporting program requirements (i.e., CMS Implementation Guide)
- **CVU+ will supplement the existing certification program**
 - Use of the CVU+ is not currently a requirement of the program

Software Update

CVU+ Feature – Bring Your Own Patients

- **Enhanced verification of a Health IT system's eCQM calculations**
 - Using a combination of Cypress-defined patients and “bring your own” (BYO) patients
- **QRDA (Quality Reporting Document Architecture) patient upload**
 - Feature demoed during 3/12/19 Tech Talk
 - A user can upload BYO patient files, specific to a Vendor
 - This will allow them to make CVU+ products with those patients
 - CVU+ products allow for more extensive testing

Software Update

CVU+ Feature – BYO Patients Upload Demo

Dashboard Vendor: My Vendor Patient List > Add Patient

Import Patients

Add Patients

Choose File good_patient...oad.xml.zip

Import Patients Cancel

Dashboard Vendor: My Vendor Patient List

i Imported 1 patient ×

+ Import Patients

Patient List

All Patients

Patient Name	DOB	Gender
John Doe	May 11, 1985	Male

Software Update

CVU+ Feature – Multi-measure Tests

- **Testing that better aligns with CMS quality reporting requirements**
 - Ability to calculate across multiple measures at once
- **Multi-measure Test Creation**
 - Feature demoed during 3/26/19 Tech Talk
 - A user can create a CVU+ tests for their product
 - A user can select which patients they want to draw from for test creation
 - Upon creation, CVU+ tests will include a multi-measure test for all Eligible Hospital (EH) measures and a multi-measure test for all Eligible Professional (EP)/Eligible Clinician (EC) measures selected
 - EH tests will test QRDA Category I reports against CMS guidelines
 - EP/EC tests will test QRDA Category III reports against CMS guidelines

Software Update

CVU+ Feature – Multi-measure Test Creation

Add Product

Name

Version

Description

Product Types

- Certification Product
- CVU+ Product

Records Options

- Randomize Records
- Duplicate Records

Recommended for most robust testing.

Patient Bundle

- 2020 Alternative Minimal Bundle for QDM 5.4 2020.0.0.1
- Minimal Bundle for QDM 5.4 2019.0.0.1

Select the measure versions Cypress should use to certify this product.

- Include bundle patients
- Include vendor patients

Choose patient sets to include in product

- Shift Records

Selecting Shift Records will move patient data forward into the appropriate reporting period. Otherwise patient data will remain in a previously completed calendar year.

Measures Options

- Eligible Hospital eCQMs
- Eligible Professional eCQMs
- All eCQMs
- Custom...

Indicate the clinical quality measures Cypress should use to certify this product. Testing will be performed on a measure-by-measure basis. Click 'Custom' to specify individual measures.

cypress 5.0.x Dashboard Master Patient List dczulada@mitre.org Admin Log Out

Dashboard Vendor: Demo Product: CVU+ Test

CVU+ Test Edit Product Download Report

EP Measure Test
 EH Measure Test

Passing Tests
 Failing Tests
 Not started Tests

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.

MultiMeasureTest

Test Name	Measures	Quick Upload	Last Updated
EH Measures	CMS32v8, CMS55v7, CMS111v7	<input type="button" value="upload"/>	🕒 Wednesday at 4:28pm
EP Measures	CMS2v8, CMS66v8, CMS136v8	<input type="button" value="upload"/>	🕒 Wednesday at 4:28pm

Software Update

Upcoming Software Discussions and Releases

- **April 25, 2019 CMS Quality Vendor Workgroup**
 - CVU+ Discussion
 - April 25, 2019, 12-1:30 p.m. ET
 - Contact cmsqualityteam@ketchum.com to sign up

- **May 2, 2019 (Tentative Date) Updates**
 - CVU Update
 - Calculations for CQL Measures (2019 Reporting Period)
 - 4.0.3 Patch Release
 - Record Sample Issue Fixes
 - Address “KnownBug4.0.2” Jira Issues
 - 2017 Bundle Retirement
 - Coinciding with the Closing of the Submission Window for the 2018 Reporting Period

Recent Issue

Bugs in 4.0.2 Patch Release

CYPRESS Issue Tracker / CYPRESS-1619

Immunization, administered not complete for Record Sample test

Export

Details

Type: Bug/Issue Status: **IN PROGRESS**

Priority: **Moderate** Resolution: Unresolved

Labels: [KnownBug4.0.2](#) [RecordSampleBug](#)

Description

Duplication of issue on [google group](#) for tracking purposes.

Record Sample test for CMS 12/v7 may include an Immunization, Administered data criteria. When this is correctly put into a file with the correct code and time recorded, it does not pass. Cypress is looking for an authorDatetime in an element for which there is no authorDatetime. There **shouldn't** be an authorDatetime because as the implementation guide indicates, the effectiveTime element is used for that the authorDatetime element in question.

People

Assignee: Lauren DiCristofaro

Reporter: Lauren DiCristofaro

Votes: **0** Vote for this issue

Watchers: **1** Start watching this issue

Dates

Created: 02/11/19 9:35 AM

Search Save as

labels = KnownBug4.0.2 Search

Order by

- CYPRESS-1654 I created a test deck for a ...
- CYPRESS-1653 Negation template getting ...
- CYPRESS-1634 For all result attributes are...
- CYPRESS-1629 500 Server Error when loa...**
- CYPRESS-1627 "C1 Execution: An internal ...
- CYPRESS-1624

CYPRESS Issue Tracker / CYPRESS-1629

500 Server Error when loading C1 Sample including STK-6

Edit Comment Assign More Open In Progress (2) Workflow

Details

Type: Bug/Issue Status: **IN PROGRESS** (View Workflow)

Priority: **Moderate** Resolution: Unresolved

Labels: [KnownBug4.0.2](#) [RecordSampleBug](#)

Impact: Unable to open C1 Sample for CMS 105 (STK-6)

Description

In a local install of Cypress v4.0.2, I am encountering a 500 error when opening a c1 Sample test for CMS105v7. I can create the Product successfully and access c1+c3 and c2+c3 tests. I only get the 500 error when clicking any of the c1

People

Assignee:

Reporter:

Votes:

Watchers:

Dates

Cypress Versions

Version	Dates	Measures Supported
V 3.2.3	December 14, 2017	Support for the electronic clinical quality measures (eCQM) for the 2018 Reporting/Performance Period. *will be supported alongside Cypress v4
V4.0.1	October 11, 2018	Support for the eCQMs for the 2019 Reporting/Performance Period Support for Clinical Quality Language (CQL) calculation.
V4.0.2	January 31, 2019	

Bundle Version	Dates	Features
2017.0.3	April 24, 2018	Cypress v3 only "Z1 BH Adult" updated for CMS128v6
2017.0.4	September 25, 2018	Cypress v3 only Errata update to fix 'Download All Patients' feature when 2017.0.3 and 2017.0.2 are installed simultaneously.
2018.0.1	July 26, 2018	Cypress v4 only CQL-based measures released in 2018 for the 2019 reporting year eCQM Value Sets as of 5/4/2018.
2018.1.0	October 11, 2018	Cypress v4 only CQL-based measures released in 2018 for the 2019 reporting year eCQM Value Sets as of 9/17/2018.

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, May 7, 2019 at 1pm ET
- To join online, visit:
<https://meetings.cms.gov/orion/joinmeeting.do?MTID=98271705d4bc4ad148cf1e39d5c7408>
- To join via phone, dial: 1-877-267-1577
- Meeting Number: 998 084 717
- Meeting link, as well as a calendar event file, available at:
 - <https://www.healthit.gov/cypress/techtalks.html>

Announcements

- **April 25, 2019 CMS Quality Vendor Workgroup**
 - **CVU+ Discussion**
 - April 25, 2019, 12-1:30 p.m. ETContact cmsqualityteam@ketchum.com to sign up

- **Just Added to the CMD (Collaborative Measure Development) Workspace, Data Element Repository**
 - [CMD Workspace](#) on the Electronic Clinical Quality Improvement (eCQI) Resource Center (RC)
 - Interconnected resources, tools, and processes
 - Promotes interaction across stakeholder communities that develop, implement, and report electronic clinical quality measures
 - 5 Planned Modules
 - Data Element Repository (DERep) is first CMD module to go live
 - provides clarity for clinicians, quality measurement specialists, electronic health record (EHR) vendors, and information technology staff when representing and mapping data required for eCQMs used in these programs
 - **New additional 42 CMS Eligible Clinician eCQMs** and Data Element Definitions have just been added!
 - All available 2019 CMS eCQMs now in DERep
 - CMS encourages users to explore the CMD Workspace and DERep. **Join** the interactive user-centered community and provide feedback at ecqi-resource-center@hhs.gov.

Notes

- **Completed Webinars will be posted on the Cypress website on the Timeline 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>