

Cypress™

Cypress Tech Talk

March 12, 2019



MITRE

The Office of the National Coordinator for
Health Information Technology



Agenda

- Software Updates
 - Cypress Validation Utility + Calculation Check (CVU+)
 - Bring Your Own Patient Feature
 - Upload Patients Demo
- Recent Issues
 - Record Sample Bugs: CYPRESS-1619, CYPRESS-1627, CYPRESS-1629
- 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” patients
- **Demo feature: QRDA patient upload**
 - 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

- When a user is on their Vendor page, they can select 'Vendor Patients' to view their Patient List
- From their Patient List, they can choose to import new patients

The screenshot displays the CVU+ software interface. At the top, a dark green header bar contains the text 'cypress 5.0.1' and navigation links: 'Dashboard', 'Master Patient List', 'Validation Utility', 'user@mitre.org', and 'Log Out'. Below this, a breadcrumb trail shows 'Dashboard > Vendor: My Vendor'. The main content area is divided into two sections. The top section, titled 'My Vendor', includes a 'Vendor Patients' button with a group of people icon and an 'Edit Vendor' button with a wrench icon. A red arrow points from the 'Vendor Patients' button down to the 'Patient List' section. The bottom section, titled 'Patient List', has a breadcrumb trail 'Dashboard > Vendor: My Vendor > Patient List'. It displays 'All Patients' and a message 'No patient results for the current criteria.' A red arrow points to a '+ Import Patients' button in the top right corner of this section.

Software Update

CVU+ Feature – BYO Patients Upload Demo

- A user can import a zip file of patients (using the QRDA Cat I Format), which updates the Patient List with the new patients

Dashboard > Vendor: My Vendor > Patient List > Add Patient

Import Patients

Add Patients

good_patient...oad.xml.zip

Dashboard > Vendor: My Vendor > Patient List

Imported 1 patient

Patient List

All Patients

Patient Name	DOB	Gender
John Doe	May 11, 1985	Male

Software Update

CVU+ Feature – BYO Patients Upload Demo

- Patient Upload does some basic error checking. When a user imports a zip file with some invalid patient files, only valid patients are added
- The user will see an error message for files that cannot be imported

The screenshot shows the 'Add Patient' interface. A red arrow points from the 'Import Patients' button in the top section to the error message in the bottom section.

Import Patients

Add Patients

Choose File half_fail_pat...t_upload.zip

Import Patients Cancel

Dashboard Vendor: My Vendor Patient List

Imported Patients

'brokendoug.xml' had errors: 303:0: ERROR: Element '{urn:hl7-org:v3}templateId': This element is not expected. Expected is one of ({urn:hl7-org:v3}entry, {urn:hl7-org:v3}component); 321:0: ERROR: Element '{urn:hl7-org:v3}entry': This element is not expected. Expected is ({urn:hl7-org:v3}component).

Imported 1 patient

Patient List

All Patients

Patient Name	DOB	Gender
John Doe	May 11, 1985	Male
Darryl Parker	April 24, 1985	Male

Software Update

CVU+ Feature – BYO Patients Upload Demo

- When a user selects a specific patient, they can view the calculations and HTML rendering for the uploaded patient

Dashboard
Vendor: My Vendor
Patient List
Patient: Darryl Parker

Measure Information

	IPOP	DENOM	NUMER	DENEX	DENEXCEP
CMS68v8 Documentation of ...					

Cypress Certification Patient Test Record: Darryl Parker

Patient	Darryl Parker	Sex	M
Date of birth	19850424152410	Date of expiration	
Race	2028-9	Ethnicity	2135-2
Insurance Providers	2	Patient IDs	Cypress
Contact info			

QDM::EncounterPerformed

Codes:

SNOMED-CT: 10197000

CPT: 59400

HCPCS: G0101

Time Elements:

Relevant Period Start: 2017-12-04T10:24:10.000Z

Relevant Period End: 2017-12-04T10:39:10.000Z

Author Date/Time: 2017-12-04T10:24:10.000+00:00

Other Fields:

QDM::ProcedurePerformed

Codes:

SNOMED-CT: 428191000124101

Time Elements:

Relevant Period Start: 2017-12-04T10:24:10.000Z


Relevant Period End: 2017-12-04T10:39:10.000Z

Author Date/Time: 2017-12-04T10:24:10.000+00:00


Other Fields:

Recent Issue


Record Sample 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 127v7 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  Export  Tools


 labels = KnownBug4.0.2 AND labels = RecordSampleBug  **Search** Basic 

Order by  


-  CYPRESS-1629
500 Server Error when loa...
-  CYPRESS-1627
"C1 Execution: An internal ...
-  CYPRESS-1619
Immunization, administere...

 CYPRESS Issue Tracker / CYPRESS-1629


500 Server Error when loading C1 Sample including STK-6

 Export

Details

Type:  Bug/Issue

Status: **IN PROGRESS**


Priority:  Moderate


Resolution: Unresolved

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

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

People

Assignee:  Lauren DiCristofaro

Reporter:  Alex Liu

Votes: **0**

Recent Issue

4.0.2 Record Sample Bugs

- [CYPRESS-1619](#): Immunization, Administered authorDatetime in Record Sample
- [CYPRESS-1627](#): Substance, Administered template not found in Record Sample submissions
- [CYPRESS-1629](#): Criteria (LDL-c) in CMS105v7 causes error when accessing Record Sample
- **Workaround:**
 - Only necessary if Record Sample Test is generated with problematic criteria
 - That data criteria may be swapped out for any other available data criteria option
 - May reach out to ATL to edit the test and swap this criteria
 - Search with [labels = KnownBug4.0.2 AND labels = RecordSampleBug](#) to find marked relevant bugs

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, March 26, 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>

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>