Measure Authoring Tool 6.03 QDM and FHIR

MAT 6.03 QDM and MAT 6.03 FHIR

Release Notes

Scheduled Release 12/15/2020

Dec 15, 2020
The MAT Bonnie Team
MAT 6.03 FHIR

FHIR Measure and Library Updates
The MAT 6.03 QDM and FHIR release contains the following Updates:

**FHIR is Available for all MAT Measure Developers**

- Measure developers working in MAT 6.03 QDM and FHIR will see (FHIR) in the MAT header.
- These measure developers will be able to build and maintain FHIR measures and libraries as well as QDM.
The MAT User is editing a QDM Measure:
The MAT User is editing a FHIR Measure:
New FHIR Features: Run FHIR Validation and Convert to FHIR

- Run FHIR Validation: Displays a report in a separate browser tab of remaining FHIR syntax errors that must be corrected for the selected measure.

- Convert to FHIR: Allows the user to convert a versioned QDM/CQL measure to FHIR. A draft FHIR measure is created when this action is performed.
Measure History and Library History:

- Displays when a measure or library was converted to FHIR, the time and date it was converted and the person who converted it.
Now displaying Models in Measure and CQL Library grids:

- This column contains the models and expression logic of the measure: QDM / QDM, QDM / CQL or FHIR/CQL.

<table>
<thead>
<tr>
<th>Measure</th>
<th>Model</th>
<th>Expression Logic</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDM / QDM</td>
<td>QDM</td>
<td>QDM</td>
</tr>
<tr>
<td>QDM / CQL</td>
<td>QDM</td>
<td>CQL</td>
</tr>
<tr>
<td>FHIR / CQL</td>
<td>FHIR</td>
<td>CQL</td>
</tr>
</tbody>
</table>
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Enhanced Search for Measure and CQL Library grids:

- Filter by All model types
- Filter specifically for FHIR/CQL model type
- Filter specifically for QDM/CQL model type
- Filter specifically for QDM/QDM model type
- This search filter can be combined with other search filters
Create a New Measure or New CQL Library:

- Choose the Model Type: FHIR or QDM
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FHIR Measures have new required fields:

- Experimental (defaults to No)
- Population Basis

FHIR Measure Scoring:

- Please do NOT use Ratio at this time
- When standards are complete Ratio functionality will be added for FHIR measures
FHIR Measure Measurement Period has two options:

- Next Calendar Year defaults to next calendar year.
- Custom Date Range

![Measurement Period](image)

FHIR Measure Improvement Notation has two options:

- Specify Increase or Decrease

![Improvement Notation](image)
Reference Type:

- Required for each reference added to a Measure. Choices are: Citation, Documentation, Justification.
- The default reference type is Citation.
Save FHIR CQL with Errors:

- Unlike QDM/CQL measures, FHIR Measure CQL code can be saved when it has errors. Severe FHIR syntax errors may cause some CQL to be hidden until the error is corrected.

- The save-time message indicates the state of the CQL.
Importing FHIR Measures:

- You can now import entire FHIR measures into the editor. Refer to the User Guide for details. This is only available in FHIR.
- On Save, the measure will be built. You’ll be notified if the CQL was saved with errors or saved with no errors.
- If FHIR CQL contains severe errors, a portion of the CQL may not be visible until the severe errors are corrected.
- FHIR Value Sets and Code Systems can be entered directly in the editor.
- Make sure you’re logged into VSAC when creating and editing measures.
FHIR Measures do not currently allow the following actions. They are disabled:

- Composite Measures
- Cloning
- Expression Builder
FHIR Measures must:

- Use FHIR syntax.
- Include only FHIR libraries.
- All UI reflects FHIR options, resources, Value Sets, Code Systems and attributes.
- Refer to the MAT on FHIR User Guide for details.
Packaging FHIR Measures produces FHIR bundles.

The FHIR Exports generated during packaging include XML, JSON and Human Readable files.
Bulk Export: Users will click the Export button to perform bulk exports.

- Select the measure(s) you wish to export and click the toolbar Export button.
- You can include both QDM and FHIR measures in one bulk export.
CQL Libraries: Convert to FHIR

- To convert a CQL library to FHIR, select the grid row and click the Convert to FHIR button.
FHIR CQL Library General Information tab includes new required fields:

- Experimental
- Description
- Publisher (Steward)
Defects Corrected in 6.03 and Enhancements:

- A space is no longer missing prior to the word default when pasting in CQL code into the Parameters page CQL editor.
- Grid Number of Items Selected now accurately states number of grid rows selected upon navigation back to the Measure Library page after editing a measure.
- Measurement Period parameter should always be editable within the parameters page.
- QDM model type is always enabled when creating de novo measure immediately after creating a draft measure from a versioned FHIR measure.
- More detailed error messages given on packaging, rather than System Error, to provide users more insight into errors to correct.
- FHIR data requirements now include type retrieves. Example: First([Encounter] E where E.class = 'inpatient' sort by period.start desc is now captured as a data requirement { "type": "Encounter"}
508 Compliance Enhancements in 6.03:

• Underscores in exported artifact file and folder names have been replaced with dashes (-)
• Tab and Shift Tab keyboard navigation is available everywhere in the MAT. Skip to Main Content link is visible to aid keyboard navigation.
• Space and Enter keyboard actions are available in appropriate places in the MAT
• Screen Readers correctly read field labels, prompts and watermark text in the MAT
• Required Fields are clearly labeled in the MAT
• Field Level Validation error handling has been enhanced for 508 compliance
Questions?

Contact Us!

Create a MAT and Bonnie Issue Tracker here:

https://oncprojecttracking.healthit.gov/support/projects/BONNIEMAT/summary