

MAT & Bonnie User Group



October User Group

Hosted by:

ICF

October 20th, 2022

Disclaimer

This meeting is being recorded to ensure notes and action items are captured accurately.

Attendees who have objections to the meeting being recording are asked to let the facilitator know at this time.

Agenda and Objectives

Agenda

1. MAT Updates
2. Bonnie Updates
3. MADiE Updates - Preparing for the MVP Release
4. Community Questions & Discussion
5. Review of Resources

Objectives

- Inform MAT & Bonnie users of current and planned activities
- Create a forum to gather community feedback on future enhancements
- Foster Collaboration through open community discussion

Measure Authoring Tool

MAT 6.10 QDM & FHIR

Measure Authoring Tool: Current State

MAT 6.10

- MAT 6.10
- Maintenance release on 7/18/22 included:
 - Newly created FHIR measures and libraries now reference the updated versions of the following libraries:
 - FHIR Helpers, called FHIRHelpers, version 4.1.000
 - Supplemental Data Elements, called SupplementalDataElementsFHIR4, version 3.0.000
 - MAT Global, version 7.0.000
 - For QDM/CQL measure packages, file names for the primary measure CQL, XML, JSON and HQMF files have been updated to include the revision number of '.xxx' at the end of the file name. This update corrects a known issue of the file names in the package not including the revision number by aligning with the naming convention used in the HQMF file.
- Release Notes are available on the MAT web site under Training and Resources
- QDM measures continue to use version 1.5.3 of the CQL-ELM translator.
- FHIR measures continue to use version 1.5.4 of the CQL-ELM translator.

Measure Authoring Tool

Maintenance:

- A release of MAT will occur in alignment with the MADiE release to allow measure owners to transfer measures to MADiE. This release is targeted for November 16th, 2022.
- Maintenance is usually zero down time.
- Any known downtime for maintenance will be communicated to all users via email.

Known Issues:

1. For FHIR measures, when the same CQL definition is used in Supplemental Data Elements (SDE) and as a Risk Adjustment Variable (RAV), the measure is not able to be packaged. Users will receive an error for 'duplicate id value'. The workaround is to create different definition(s) when they are needed in both SDE and RAV. ([BonnieMAT-1212](#))
2. For FHIR measures, if the CQL Editor is used to enter value sets, the value sets are validated each time the CQL is saved. If the value set name and OID are not a match to the VSAC a CQL error will display and users may update the value set directly in the editor. When using the CQL Editor the 'Update from VSAC' button should not be used as this will display an 'Unable to Process' error message. This message does not prevent users from completing or saving work. They should continue to save their CQL to validate value sets in VSAC. ([BonnieMAT-1235](#)).

Bonnie

Bonnie 4.3.1 QDM (Prior)

Bonnie 5.1.2 QDM

Bonnie 6.2.4 FHIR

Bonnie Prior: Current State

Bonnie 4.3.1 Prior

- Supports QDM 5.5
- Requested patient conversion defaults implemented
- Users use HARP IDs for authentication
- Group Account functionality is available
- Users will receive a warning after 10 minute of inactivity and logged out after 15 minutes
- Bonnie 4.3.1 Prior maintenance release on 7/19/22
 - Privacy Policy button linking to the [CMS Privacy Policy](#) added on the landing page

Bonnie QDM: Current State

Bonnie 5.1.2 QDM

- Bonnie 5.1.2 QDM maintenance release on 7/19/22
 - Privacy Policy button linking to the [CMS Privacy Policy](#) added on the landing page
- Supports QDM 5.6
- Supports QDM/CQL and CQL 1.5
- Patient conversion functionality will remain disabled

Bonnie FHIR: Current State

Bonnie 6.2.4 FHIR

- Bonnie 6.2.4 FHIR maintenance released on 10/17/22
 - An export zip file now contains a JSON file with all test cases and JSON files for each individual test case
 - Users can export files and save them to desired location
 - Following the release of MADiE in November, users can copy and paste the contents of the JSON files into the test case editor in MADiE. Bonnie FHIR 6.2.4 can also be used for UAT 5 testing.
 - Please note - test cases will need to be updated to reflect QI-Core

Bonnie FHIR File Size

- A configuration change was made to increase the file size for measure uploads into Bonnie FHIR. Please contact the help desk if you receive an error when uploading a measure.

Bonnie FHIR Attributes

- Attributes supported by Bonnie FHIR are linked on the Bonnie and MAT issue tracker on the summary page
- Updates have been made to reflect the current state of attribute support, naming conventions and to add clarifying footnotes
- <https://oncprojecttracking.healthit.gov/support/projects/BONNIEMAT/summary>

Bonnie

Maintenance:

No planned maintenance currently.

Known Issues:

1. The QRDA export is not correctly reflecting relevant date time. There is no workaround. We don't have plans to address this in Bonnie at this time.
2. For Bonnie FHIR, measures that include stratification are not displaying properly for users to test. There is no workaround at this time. We don't have plans to address this in Bonnie at this time.
3. For Bonnie QDM, if the result of any CQL aggregate functions, such as Count, Min, Max, Average, etc, is 0, then Bonnie currently displays 'No Result Calculated'. The Execution Engine is producing the correct results. This is a display issue only. We don't have a planned release to address this in Bonnie at this time ([BONNIEMAT-1096](#)).
4. For Bonnie QDM, when measure observations are used in ratio measures, the measure observation logic is being executed against test cases, even if that test case did not first meet the numerator or denominator criteria. When measure logic cannot be modified, there is no workaround. This will affect the pass rate of the measure. There are not plans to address this in a future release. ([BONNIEMAT-1106](#))
5. For Bonnie QDM, the CQM Model used in Bonnie does not currently support the 'is' operator when it is referencing any 'entity', which can include practitioner, patient, organization care partner or location. Logic may be able to be altered as a workaround. ([BONNIEMAT-1158](#))
6. For Bonnie Prior, test cases that include certain QDM attributes are preventing test case conversion from QDM to FHIR. The QDM attributes are PatientEntity, CarePartner, Practitioner and Organization. A workaround of removing these QDM attributes will allow the conversion to process. ([BONNIEMAT-1177](#))

Bonnie 60 Day Account Deactivation

Keeping your Bonnie Accounts Active:

- In accordance with CMS and HHS security requirements, the Bonnie team will be implementing an account deactivation policy for all users who have not logged into at least one of the Bonnie environments within the previous 60 days or more.
- Users will receive warning messages after 30 days of inactivity.
- After 60 days of inactivity, accounts will be deactivated.
- To access deactivated Bonnie accounts again, users will need to request reactivation of their account by contacting the Help Desk.
- Activity in at least one of the three Bonnie environments (every 60 days) is needed to keep accounts active.
- Users received an email detailing the policy on Monday 9/19.
- The first 30 day warning email was sent on 9/26.
- **60 day deactivation emails will be sent on 10/26.**

*MADiE will also have a similar policy implemented following the release of

Bonnie and MAT: Future State

All future MAT and Bonnie enhancements or updates will be evaluated for:

- Priority – Is it needed to support CMS contracted measure development work? Does it correct an issue?
- Level of Effort – Does this impact the delivery of MADiE?
- Benefit – Can users complete their work with or without the enhancement?

Any future MAT or Bonnie releases will be communicated to users during User Group, community and stakeholder meetings and via email communication.

MADiE

MVP Release and User Acceptance Testing (UAT) Updates

MADiE Timelines

UAT Timelines:

- Drop 5 in October kicked off on 10/19 and will be the final Drop before the MADiE MVP release in November 2022.
- Post-MVP release to update the Translator and FQM Execution Engine targeted for December 2022
- Post-MVP release with export functionality targeted for February 2023

Release Timelines:

- MADiE is targeting a public release on November 16, 2022.
- MADiE pre and post release communication will be sent to all active MAT and Bonnie users

MADiE Access:

- MADiE MVP tab will be added to the MAT Public Website
- The page will contain User Access Guide, login button and MADiE User Guide

MADiE Access

How Will Users Access MADiE?

- All individuals will need to request access, even if you have participated in UAT
- All MADiE users are required to have a valid HCQIS Access Roles and Profiles (HARP) ID.
- If you have a MAT or Bonnie account, you already have HARP ID.
- If you do not have a MAT or Bonnie account you can sign up by navigating to <https://harp.cms.gov> and completing the registration form to create a HARP account
- Once you have a HARP ID, in order to access MADiE, you will need to request the MADiE-User role in HARP
- **Individuals will be able to request this role following the release of MADiE on November 16th, 2022.**
- A MADiE Access Guide will be provided that will detail the steps needed to request this role - this will be posted to the MAT public website under a new tab for MADiE MVP - which will be forthcoming.

Moving from MAT to MADiE

Transferring Measures:

- Only Measure Owners will be able to transfer measures from MAT to MADiE
- Measures can only be transferred once.
- The CMS ID will only be issued in MAT. If a CMS ID is needed for a measure, please assign it one in MAT before transferring.
- Once measures are moved from MAT to MADiE there is no longer an association between the applications, meaning changes in MAT are not automatically reflected in MADiE and vice versa.
- Measures will need to be updated from base FHIR (MAT) to use QI-Core profiles once they are in MADiE
- For Cohort and Proportion measures with stratifications, the measure group(s) will be created, but no stratification data will be transferred
- For Continuous Variable measures, no measure group(s) will be created. This is because for CV measures, the observation is required.
- For Ratio measure, the measure group(s) will be created but no measure observation data will be transferred

Moving from MAT to MADiE (continued)

Global Shared Libraries:

- Global Common Library, FHIR Common, FHIR Helpers, QI-Core Common and Supplemental Data Element (SDE) will be moved to MADiE in the days following the MADiE release. Targeting November 16th - 18th.
- Users should be aware that these libraries may not be available for reference immediately following the release.

CQL Libraries owned by MAT users:

- Stand alone CQL libraries will not transfer like measures
- Library owners will need to create the shell library in MADiE and then copy and paste the contents of the library from MAT into the library in MADiE
- To ensure your library version number matches what was in MAT and used by your measure, users will need to major/minor version their library until the desired version number is reached.
- Reminder, versioned libraries cannot be deleted so version carefully

Moving from Bonnie FHIR to MADiE

Test Cases:

- Bonnie FHIR 6.2.4 will allow users to export a zip file containing a single JSON file of all test cases and JSON files for each individual test cases
- Release notes can be found on the MAT Public Website, under Training and Resources > Bonnie Release Notes
- Contents of these files can be copied and pasted into the MADiE test case editor
- MADiE users will need to update test cases for QI-Core profiles
- A JSON Help document will be made available for users to reference upon the release of MADiE

Group Accounts:

- Group Accounts are not in MADiE MVP
- To access tests cases for a measure, users will need to have the measure owner submit a sharing request. This will allow users to have access to the measure and all associated test cases.

Measure and Test Case Sharing

Measure and Test Case Sharing:

- When a measure is shared, by default all test cases will also be shared.
- In MADiE MVP, if a measure and its test cases are shared with others, those individuals can edit the measure and any test case
- MADiE MVP will not lock a measure or test cases when a user is accessing a measure or test case
- When sharing with others, you will need to coordinate who is working on what part of the measure or test case to prevent overwriting other's work
- Requests to share a measure and its test cases will need to be submitted to the Help Desk
- The measure owner must submit the request. As this request will contain user HARP IDs it must be submitted by emailing Semanticbits-madie-help@icf.com
- At this time, MADiE does not support the ability to 'unshare' a measure with a user
- A form will be provided in the future - however measure owners can start preparing for this step now

Measure and Test Case Sharing (continued)

Preparing for Sharing:

- Measure owners should review who they have shared the measure with by clicking on the Share button in the Measure Library in MAT
- Review Bonnie Group Account forms to identify who has access to a measure's test cases in Bonnie FHIR
- Measure owners will need to collect the HARP IDs for any user they want to share the measure and all test cases with
- Upon release of MADiE, measure owners will need to transfer the measure to MADiE
- **IMPORTANT: The form should not be submitted until the measure is in MADiE and all users on the form have the MADiE HARP role**

Community Questions & Discussion

PHI/ PII

- PHI and PII are prohibited in MAT, Bonnie or MADiE.
- Measure testing should only represent synthetic patient test data.
- Report any questions or concerns to the Help Desk.



Reminder when submitting tickets...

MAT Tickets

- Indicate the tool type and Measure Model: QDM vs. FHIR
- Attach the measure package if appropriate
- Provide Screenshots of error messages

Bonnie Tickets

- Be sure to indicate tool type: Prior, QDM, FHIR
- Attach the affected test cases and reference them in the ticket by name if possible
- Attach the measure package used with the test cases
- Provide which account was used to test the measure(s)

MADiE Tickets

- ONC Jira will be updated to reflect MADiE in the near future
- All sharing requests or inquiries with a HARP ID must be submitted via email at semanticbits-madie-help@icf.com

User Group Discussion

- Topic suggestions and questions for the User Group can also be submitted through the Bonnie MAT Issue Tracker located here: <https://oncprojecttracking.healthit.gov/support/projects/BONNIEMAT/summary>
- Additional questions or comments can be submitted by using the chat feature or unmuting your own line.

Resources

Resources for Users

Bonnie and MAT Troubleshooting Guides

- Located on the ONC Jira Bonnie MAT Issue Tracker – Summary page
 - [Bonnie Troubleshooting Guide](#)
 - [MAT Troubleshooting Guide](#)

Tool Release Table

- Located on the MAT Public web site under Training and Resources/MAT Helpful Links
- [Bonnie and MAT Release Schedule](#)

Negation Rationale in Bonnie FHIR

- Located on the MAT Public web site under Training and Resources/Bonnie Helpful Links
- [Bonnie FHIR: How to use Negation Rationale](#)

Resources

MAT Public Website:

<https://www.emasuretool.cms.gov/>

MAT 6.10:

<https://www.emasuretool.cms.gov/MeasureAuthoringTool/Login.html>

Bonnie 4.3.1 QDM (Prior) (QDM version 5.5):

<https://bonnie-prior.healthit.gov/>

Bonnie 5.1.2 QDM (QDM version 5.6):

<https://bonnie.healthit.gov/>

Bonnie 6.2.4 FHIR:

<https://bonnie-fhir.healthit.gov/>

Bonnie MAT Issue Tracker:

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

eCQI Resource Center:

<https://ecqi.healthit.gov/>