

# MAT & Bonnie User Group



## *July User Group*

*Hosted by:*

*SemanticBits*

*July 21st, 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. Tool Modernization - MADiE Updates
4. Creation, Execution and Assessment of Test Cases
5. Community Questions & Discussion
6. 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

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## 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:

- No planned maintenance releases at this time.
- Maintenance is usually zero down time.
- Any known downtime for maintenance will be communicated to all users via email.

## Known Issues:

No known issues

# Bonnie

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**Bonnie 4.3.1 QDM (Prior)**

**Bonnie 5.1.2 QDM**

**Bonnie 6.2.3 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 6.2.3 FHIR

- Bonnie 6.2.3 FHIR maintenance release on 7/19/22
  - Privacy Policy button linking to the [CMS Privacy Policy](#) added on the landing page

## Bonnie FHIR File Size

- A configuration change has been 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, it is a display issue in Bonnie. 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 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

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**Development and User Acceptance Testing (UAT) Updates**

# MADiE Timelines

## UAT Timelines:

- Drop 4 of MADiE will be available for User Acceptance Testing in August
- Drop 5 in October will be the final Drop before the MADiE MVP release in Fall of 2022
- Each testing cycle will run for 2 weeks – access will only be available during the active testing cycles
- MVP for public use targeted for Fall 2022
- Post-MVP release with export functionality targeted for February 2023

## Interested in participating?

- Individuals interested in testing should send an email to [sb-mat-help@semanticbits.com](mailto:sb-mat-help@semanticbits.com)
- System preparation instructions will be provided to gain appropriate access

# MADiE Design Updates

## MADiE Test Case Creation, Execution & Assessment

Design updates are planned in the following areas:

- Test Deck Overview
  - Sorting by Series
  - Assessing Test Case Execution Status via "Individual Population Pass/Fail Pill" vs. "Broad Pass/Fail Pill"
- Test Case Creation
  - Test Case Name
  - Test Case Description
  - JSON Patient History vs. current Bonnie UI
  - Expected Calculations Entry
  - Measure CQL Referencing
- Test Case Execution
  - Expected/Actual Calculations Assessment
  - Test Case History/JSON Assessment

# MADiE Design Updates

[Prototype Walkthrough Video](#)

**How do you foresee your work being affected by updates in these areas?**  
(Click the link above to watch the walkthrough)

Please let us know! We would like **ALL feedback**, whether positive or negative.

Please email additional feedback to: [\*\*chris.nam@semanticbits.com\*\*](mailto:chris.nam@semanticbits.com)



# Community Questions & Discussion

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# Jira Ticket Notifications

- The ONC Jira Issue Tracking system made a security update on 5/24.
  - Following this update, users have reported that email notifications on tickets are now being sent to their junk/spam folder
    - If you do not receive an email acknowledgement of your ticket after you have submitted an issue...
    - OR
    - If you are not receiving email updates for on tickets for which you have added yourself as a watcher...
- \*\*Review junk/spam folder and review your email rules to have the email domain sent to your inbox.

# 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)

# 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 raising your hand and we will unmute your line.

# Resources

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# 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 6.2.3 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/>