



MAT & Bonnie User Group



*Hosted by:
SemanticBits
May 20, 2021*

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 and Topics for Community Discussion
2. Bonnie Updates and Topics for Community Discussion
3. Tool Modernization Update
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 6.04 QDM

MAT 6.04 FHIR

Measure Authoring Tool

Current State:

- MAT 6.04 is currently available to users.
- This version of the MAT supports the authoring of both the QDM/CQL as well as FHIR based measures.
- A demonstration video of the FHIR features is located on the Training and Resource page of the MAT public web site, under the Helpful Links section here:
<https://www.emasuretool.cms.gov/training-resources>

Measure Authoring Tool

Maintenance:

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

Measure Authoring Tool

Known Issues to be addressed in upcoming MAT 6.1 release:

- When packaging a FHIR measure for the first time, the measure text in the JSON is not included. This only occurs the first time the measure is packaged. The workaround is to package the measure a second time.
 - The same defect is responsible for some discrepancies in OIDs across a measure's exports
- Users are currently unable to edit or delete function *arguments* using the Function section of the CQL Workspace. The workaround is to edit or delete function argument using the CQL Editor.
- When a measure uses a Direct Reference Code without a version, they are unable to edit or delete the code using the Code section of the CQL Workspace. The workaround is to edit or delete the code using the CQL Editor.
- QDM Human Readable export artifact missing a Definition

Measure Authoring Tool

Planned Enhancement Release MAT 6.1.0:

The MAT team is targeting a June release to:

- Incorporate QDM 5.6
 - Some data types and attributes deprecated
 - New attributes
 - Cardinality changes
- Update QDM/CQL to CQL 1.5
- Enhance the MAT to prompt for removal of unused FHIR libraries:
Three options (cancel, keep, discard)
- Update QDM export folder and artifact names in a similar way as was done for FHIR
- Continuous Variable and Ratio measures can be patient-based
- Add target units for measure scores
- The release date will be shared with the community when it is finalized

Measure Authoring Tool

Planned Enhancement Release MAT 6.1.0:

After the MAT 6.1.0 Release:

- Any QDM measures and libraries in a Draft status will be updated to QDM 5.6 for you
- You will need to edit your measure or library CQL if it contains any deprecated QDM attributes

Measure Authoring Tool

MAT 6.1.0 (QDM 5.6) User Acceptance Testing (UAT):

- Will begin the week of May 24 – 29
- UAT test script will be provided
- Any active MAT user who wants to participate can contact the MAT Help Desk via email to express interest: sb-mat-help@semanticbits.com
- Test scripts will be sent to interested and active MAT users
- Test scripts will contain information to access the UAT staging area
- UAT participants will report any issues found via ONC Jira Tickets

Topics for Discussion: MAT

Helpful Reminders when working with QDM and FHIR measures:

FHIR measures are not created as part of the same measure family when you convert a QDM measure to FHIR. The same is true for QDM Libraries converted to FHIR.

- We found instances where a FHIR measure library or measure name was taken by someone before the owner of a QDM measure or library converted it to FHIR.
 - The QDM measure developer was unable to convert to FHIR until the manually generated FHIR library or measure was renamed or the measure deleted.
 - Remember, versioned libraries cannot be deleted.
- If you manually create a FHIR library or measure, remember:
 - Please follow the standards laid out by CMS and append FHIR to the name to avoid a collision with an existing QDM measure that will be converted.
 - Make sure when you create a FHIR measure that no QDM measure already has the same name

Topics for Discussion: MAT

Helpful Reminders when working with QDM and FHIR measures:

- This also means that when converting a QDM measure to FHIR, the FHIR version number starts over.
- The QDM and FHIR version numbers cannot be kept in sync. They are separate measure or library families.
- Example:
If QDM Measure Diabetes Management 5.0 is converted to FHIR, the FHIR measure will be created as Diabetes Management FHIR and will start with a new numbering system as draft v0.0.000.

Bonnie

Bonnie 3.3 QDM (Prior)

Bonnie 4.2.1 QDM

Bonnie 6.1.2 FHIR

Bonnie

Current State:

- Bonnie Prior (QDM 5.4), Bonnie QDM (QDM5.5) and Bonnie FHIR are all available in production environments with separate credentials.
- Bonnie 4.2.1 QDM – export test patients for FHIR
- Bonnie 6.1.2 FHIR – import test patients, calculate Supplemental Data Elements (SDE), additional attribute support

Bonnie

Maintenance:

No planned maintenance currently.

Known Issues:

1. The QRDA export is not correctly reflecting relevant date time. There is no workaround, but this will be addressed in an upcoming release.
2. For Bonnie FHIR, a measure calculation error may be encountered. The tuple naming convention requires an update. The team is working with additional contributors and will address this in an upcoming release.

Bonnie

Planned Releases:

Bonnie FHIR will be releasing incrementally to add new FHIR features. Users will be notified when those release dates are determined.

The Bonnie team is targeting a Bonnie 5.0.0 QDM June release to:

- Incorporate QDM 5.6
- Update QDM/CQL to CQL 1.5
- Transition users to authentication with HARP IDs
- Group account access
- The release date will be shared with the community when it is finalized

Bonnie

Bonnie 5.0.0 (QDM 5.6) User Acceptance Testing (UAT):

- Targeted to begin the week of June 7th - 11th
- The scope of UAT will also include testing Bonnie Group Accounts and HARP
- UAT test script will be provided
- Any active Bonnie user who wants to participate can contact the Bonnie Help Desk via email to express interest: sb-bonnie-help@semanticbits.com
- Test scripts will be sent to interested and active Bonnie users
- Test scripts will contain information to access the UAT staging area
- UAT participants will report any issues found via ONC Jira Tickets

Topics for Discussion: Bonnie

Negation Rationale in FHIR

- We plan to default the specific negation rationale attributes
- Communication for example:

8.7.1.1 Negation Rationale for Communication, Performed

Use [QICoreCommunicationNotDone](#), which contains:

- [Communication.modifierExtension:notDone](#) - Value Boolean fixed to "true"
- [Communication.status](#) - Fixed as "not-done"
- [Communication.statusReason](#) - Use value set [NegationReasonCodes](#)
- [Communication.extension:recorded](#) - When this was made available
- [Communication.reasonCode](#) - Use [Communication.reasonCode.coding.extension:notDoneValueSet](#) to indicate the specific Communication that was not performed

Topics for Discussion: Bonnie

Negation Rationale in FHIR

- If indicating negation rationale, would a checkbox at the top of the card be helpful?
 - In QDM, the checkbox is at the bottom

Topics for Discussion: Bonnie

Assessment: Performed: Major osteoporotic fracture 10-year probability
[Likelihood] Fracture Risk Assessment

 **RELEVANT PERIOD** - relevantPeriod ▼

 **START**

 **END**

<input checked="" type="checkbox"/>	05/18/2012	8:00 AM	<input checked="" type="checkbox"/>	05/18/2012	8:15 AM
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 **RELEVANT DATETIME** - relevantDatetime

<input checked="" type="checkbox"/>	05/18/2012	8:00 AM
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 **AUTHOR DATETIME** - authorDatetime

<input checked="" type="checkbox"/>	05/18/2012	8:00 AM
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 **CODES**

LOINC: 90265-0 

Code System	▼	--	▼	
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 **ATTRIBUTES**

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NOT PERFORMED



Topics for Discussion: Bonnie

Negation Rationale in FHIR

- Where on a Resource Card should the negation specific attributes be displayed?
 - A specific Negation Rationale section below the Modifier Extension Section
 - In the specific section it correlates to
 - attribute, extension, modifierExtension, etc

Topics for Discussion: Bonnie

Bonnie Patient QDM to FHIR Test Case Conversion

- We are adding the defaults requested
- When converting and importing patients, when is it valuable to carry over expected values of those test cases?
- Are there scenarios where the expected value should be the same?
- Are there scenarios where the expected value would be different?

Bonnie Transition to HARP

Bonnie Transition to HARP

- Bonnie Prior, Bonnie QDM and Bonnie FHIR will all be migrating to a new CMS environment
- Users will sign into Bonnie using their HCQIS Access Roles and Profile (HARP) IDs
- Users can request a HARP account here: <https://harp.cms.gov/register/profile-info>

Bonnie Group Account Usage Changes

- Register for a HARP account
- Register for an individual Bonnie account
- Identify accounts used as Group Accounts
- Complete the Group Account Form for new account requests or updates
 - The form can be located [here](#)
 - Email the completed form to sb-bonnie-help@semanticbits.com

Group Account Measures and Test Patients

- Measures and test patients residing in each Bonnie account will remain unchanged during this group account access process.
- This activity is related to access only. No changes will be made to the data residing in any existing Bonnie account.
- Note: Please contact the Bonnie team through the MAT and Bonnie Issue Tracker if any changes are needed to the measures and or test patients that reside in a specific account.

Tool Modernization

**Measure Authoring Development
Integrated Environment (MADiE)**

Tools Modernization

- What is MADiE?

Measure Authoring Development Integrated Environment

- Why do we need MADiE?

Modernization

MADiE

- Preliminary Architectural Decisions
- Evaluating Enhancement Requests from our Users

Modernization

- MDP Approach (minimum delightful product)
- What is in MDP

Modernization

- What is NOT in MDP
- Iterative Drops for Evaluation and Feedback

Modernization

- MADiE Ambassadors - What is an Ambassador?
 - Who are the Ambassadors?
 - End User Stakeholders Included

 - Development Begins Q4 2021
 - 75% Dedication to MADiE
 - 25% Production Support
- *Full Bonnie and MAT support with entire team until October

Community Questions & Discussion

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

Resources

MAT Public Website:

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

MAT 6.04 QDM and MAT 6.04 FHIR:

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

Bonnie 3.3 QDM (Prior) (QDM version 5.4):

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

Bonnie 4.2.1 QDM (QDM version 5.5):

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

Bonnie 6.1.2 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/>