



# MAT & Bonnie User Group



*Hosted by:  
SemanticBits  
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# 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

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**MAT 6.10 QDM**

**MAT 6.10 FHIR**

# Measure Authoring Tool

## Current State:

- MAT 6.10 was released June 16<sup>th</sup> and is currently available to users.
- Detailed release notes and an updated user guide are available on the MAT web site under Training and Resources
- This version of the MAT supports the authoring of both the QDM/CQL using QDM version 5.6 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.emeasuretool.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 additional planned maintenance releases at this time.

# Measure Authoring Tool

## MAT 6.10 Release Recap (Enhancements):

- Incorporated QDM 5.6
  - Some data types and attributes deprecated
  - New attributes
  - Cardinality changes
- Updated QDM/CQL to CQL 1.5
- Enhanced the MAT to prompt for removal of unused measure and library elements from FHIR measures:  
Three options (cancel, keep, discard)
- Updated QDM export folder and artifact names in a similar way as was done for FHIR
- QDM Continuous Variable and Ratio measures can be patient based
- FHIR Ratio measures can be patient-based
- Added score units for measure scores

# Measure Authoring Tool

## MAT 6.10 Release Recap (Corrections):

- When packaging a FHIR measure for the first time, the measure text in the JSON was not included. This only occurred the first time the measure was packaged. This has been corrected.
- Users were unable to edit or delete function *arguments* using the Function section of the CQL Workspace. This has been corrected.
- When a measure uses a Direct Reference Code without a version, users were unable to edit or delete the code using the Code section of the CQL Workspace. This has been corrected.



# Measure Authoring Tool

Following the MAT 6.10 Release:

- QDM measures and libraries in a Draft status were updated to reflect QDM 5.6 in the model version indicator
- You will need to edit your measure or library CQL if it contains any deprecated QDM attributes
- Between the MAT 6.10 release and the Bonnie 5.0 QDM release, users will not be able to connect to Bonnie through the MAT. Users will need to export MAT packages for upload into Bonnie. The connection will be reestablished following the Bonnie 5.0 QDM release.

# Bonnie

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**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 QDM

## Planned Releases:

Bonnie 5.0.0 QDM is slated for release late June/ early July

- Incorporate QDM 5.6
- Update QDM/CQL to CQL 1.5
- Patient data will be removed if it used deprecated 5.6 attributes
- Transition users to authentication with HARP IDs
- Group Accounts will be created
- Patient conversion functionality disabled until a future Bonnie QDM release to update patient conversion defaults (mid-July)
- Users will receive a warning after 10 minute of inactivity and logged out after 15 minutes. Options for extending this timeout will be explored for future releases.
- The release date will be shared with the community when it is finalized

# Bonnie Prior

## Planned Releases:

Bonnie Prior will be released at the same time as Bonnie 5.0.0 QDM

- Reflect Bonnie 4.2.1 and will support QDM 5.5
- Users will NOT use HARP IDs to authenticate until a future release
- Group Accounts will not be reflected

# Bonnie FHIR

## Planned Releases:

Bonnie FHIR will be releasing incrementally to add new FHIR features

- Users will be notified when those release dates are determined.
- Submit requests for additional QI-Core Attribute support to the MAT and Bonnie Issue Tracker:

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

# Bonnie

## Current State:

Bonnie Prior	Bonnie QDM	Bonnie FHIR
Tool version 3.3	Tool version 4.2.1	Tool version 6.1.2
QDM version 5.4	QDM version 5.5	N/A
Next Release: early July	Next release: early July	Next release: TBD



# Bonnie

Future state (early July):

Bonnie Prior	Bonnie QDM	Bonnie FHIR
Tool version 4.2.1	Tool version 5.0	Tool version 6.1.2
QDM version 5.5	QDM version 5.6	N/A
User Sign In: Bonnie Credentials	User Sign In: HARP ID	User Sign In: Bonnie Credentials

# Bonnie Transition to HARP

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# Bonnie Transition to HARP

- Bonnie Prior, Bonnie QDM and Bonnie FHIR will all be migrating to a new CMS environment
- Bonnie QDM - Users will sign into Bonnie using their HCQIS Access Roles and Profile (HARP) IDs in early July
- Bonnie Prior and Bonnie FHIR will use HARP IDs following future releases
- 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](mailto: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.

# Bonnie User Authentication

What to expect when signing into Bonnie QDM following the 5.0 release:

- Users will sign in using their HARP ID
- If the email address previously used with your Bonnie account matches your HARP ID your account will be linked for you
- If the email address previously used is different, you will receive a message to contact the Bonnie Help Desk at: [Sb-bonnie-help@semanticbits.com](mailto:Sb-bonnie-help@semanticbits.com) to provide your HARP credentials

# Tool Modernization

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

# Tool Modernization

- What is MADiE?

Measure Authoring Development Integrated Environment

- Current Activities

Ambassador interviews



# Community Questions & Discussion

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# 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

MAT Public Website:

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

MAT 6.10 QDM and MAT 6.10 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/>