

MADiE User Group

September User Group

Hosted by ICF/SemanticBits

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MADiE is owned and operated under contract with CMS

Contracting Officer Representative (COR): Angela McLennan

Disclaimer

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

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

Agenda and Objectives

Agenda

1. MADiE Updates
2. Help Desk Ticket Submission Information
3. User Experience/Design Discussions
4. Community Questions & Discussions
5. Review of Resources

Objectives

- Inform MADiE users of current and planned activities
- Create a forum to gather community feedback on future enhancements
- Foster collaboration through open community discussion

60 Day Account Deactivation

Keeping your MADiE Account Active:

- In accordance with CMS and HHS security requirements, MADiE has implemented an account deactivation policy for all users who have not logged in 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 a deactivated MADiE account again, users will need to request the MADiE role in HARP.
 - **Do NOT respond to the deactivation email.**

*Keep your MADiE account active to continue to receive important email communications!

MADiE

MADiE 2.3.0

MADiE: Current State (1 of 3)

MADiE – 2.3.0 9/17/2025

- Several improvements have been made to the **Owned Measures**, **Shared Measures**, **All Measures**, **Owned Libraries**, **Shared Libraries**, and **All Libraries** tabs to enhance usability and organization ([MADIE-1624](#)):
 - Measures and libraries are now nested with only the most recent draft or version displayed by default.
 - Each tab now displays the number of top-level measures or libraries in parentheses (e.g., *Owned Measures (12)*).
 - The following columns were added on the measure lists:
 - **Status**: Displays the current status (e.g., *Draft*)
 - **Shared**: Displays a green check icon if the measure is shared with other users
 - **CMS ID**: Displays the CMS ID, if applicable
 - **Updated**: Displays the last updated date
 - The following columns were added on the library lists:
 - **Status**: Displays the current status (e.g., *Draft*)
 - **Shared**: Displays a green check icon if the library is shared with other users
 - **Updated**: Displays the last updated date
 - Measure list: The “Measure Name” column is now “Measure”
 - Library list: The “Name” column is now “Library”
 - Improved Sorting and Search:
 - All columns in both measure and library lists are now sortable by clicking the column header
 - The search function now scans all columns by default
 - Users can also filter by a specific column to narrow search results

MADiE: Current State (2 of 3)

MADiE – 2.3.0 9/17/2025

- Users with edit access to a measure can now modify test case configuration settings, including Supplemental Data Elements (SDE), Risk Adjustment Variables (RAV), Expansion Profile (Manifest), and Test Case Data (Shift Dates), without drafting a new measure, allowing them to test updated configurations and assess their impact on test results directly within the versioned measure.
- **QI-Core Measures:** MADiE now validates test cases authored with QI-Core v6.0.0, ensuring they conform to the structure of valid QI-Core v6.0.0 Test Case bundles. As part of this enhancement, users will receive errors and warnings on test case save. These messages help identify structural issues, missing data elements, and other inconsistencies.
Note: Validation is performed asynchronously. Users can continue working in MADiE while validation runs, and errors or warnings will display once the process is complete.
- All test cases on draft measures have been pre-validated as part of this release. However, test cases on versioned measures have not yet been validated and therefore lack a validation status on the backend. Since MADiE only blocks execution of test cases explicitly marked as INVALID, these unvalidated test cases may still execute until they are updated and saved, which triggers validation. Once validated, any structurally invalid test cases will be prevented from executing.
- A test case validation indicator has been added which displays the percentage of QI-Core v6.0.0 test cases that are valid.
- A “Validation” column has been added on the test case list page displaying the validation status for QI-Core v6.0.0 test cases.
- As part of ongoing improvements to MADiE, the ability to import test cases directly from Bonnie has been removed.
- MADiE has been updated to use Liquid Templates 0.4.9 based on QMIG profiles. More information can be found [here](#).

MADiE: Current State (3 of 3)

MADiE – 2.3.0 9/17/2025

- Resolved Know Issues:
 - **Date added: 11/20/2024**
QDM Measures: For Ratio and Continuous Variable measures, in test cases imported from Bonnie with observations, users may receive an error message and be prevented from editing the impacted test cases. ([MADIE-2090](#))
 - **QI-Core Measures:** The model version number has been removed from the file names of measure and test case exports. ([MADIE-2279](#))

MADiE Help Desk Update

- The MADiE Help Desk email address has been updated.
- The new address to use moving forward is:
MADiE@cms.hhs.gov

CMS Web Application Firewall Errors

CMS Web Application Firewall (WAF) Issues

- CMS WAF errors are received when an attempted action (i.e. saving or exporting) is rejected by the CMS security policy, blocking further action by the user
- This can happen when working in a measure or test case that previously did not receive a CMS WAF error, or when making a change to the measure or test case

When an action is blocked, please include the following information in your ONC JIRA ticket.

- Measure Name/ID
- Test case Name (if applicable)
- Action that resulted in unexpected error messages or an inability to save changes (include specific verbiage/CQL/JSON that was unable to save)
- Providing the error message assists the team in confirming the cause of the issue
- When error messages include a 'Support ID' include that ID number in your ticket so that can be provided to CMS to unblock the attempted action

Examples of CMS WAF error messages:

- The Measure Authoring Tool was unable to process the request. Please try again. If the problem persists, please contact the Help Desk.
- System error. Unable to process information
- 403 Forbidden The requested URL was rejected by CMS security policy. If you believe this is in error, please contact the HIDS Security Operations Center QNET_soc@cms.hhs.gov and reference your Support ID: 2586968644408754759

Help Desk Ticket Submission Process (1 of 3)

The **MADiE Ticket Submission Guidance** document on the [Training and Resources](#) tab on the public website provides guidance to measure developers needing assistance with measures or test cases. **This document should be reviewed prior to creating a ticket to verify if the ticket should be submitted to the MADiEIT or to the CQLIT.**

This document includes the following:

- Steps to take prior to submitting a Help Desk ticket
- When to submit a ticket to MADiE Issue Tracker (MADiEIT) and when to submit a ticket to CQL Issue Tracker (CQLIT)
- A list of artifacts to include if a ticket is being created with either CQLIT or MADiEIT for assistance with measure CQL or test case JSON

Reference the [MADiE Help Desk Process Diagram](#)

Help Desk Ticket Submission Process (2 of 3)

Steps to take prior to submitting a ticket:

1. **Search for an Issue:** Have a question or experiencing an issue? Search by keyword or project, see if others have submitted the same question or reported the same issue, and review the responses.
2. **If a ticket needs to be submitted, identify the appropriate Issue Tracker – CQLIT or MADiEIT**
 - Submitting tickets to the incorrect IT will increase the response time as two teams will need to review the ticket. This will delay possible resolution for the submitter.
3. **Identify the Ticket Type to be used**
 - Choices are – Bug/Issue, Delete Library, Enhancement Request, MADiE Access Question, Question, User Group Question/Topic, or User Research Feedback
 - The responses that are auto-generated when a ticket is created is determined by the ticket type and include additional information that may be needed for the ticket to be processed.
 - For example, the auto-response, required information, and format for that information for an Enhancement Request ticket is driven by the “Are you part of a CMS Contract” field. CMS Contractors must attach a completed Enhancement Request Form while other submitters are directed to answer several questions in the description or as a comment.

Help Desk Ticket Submission Process (3 of 3)

Steps to take prior to submitting a ticket (continued):

4. Include all required information based on the type of ticket you are creating

- Populate all applicable available fields when creating the ticket. These fields can be updated after the ticket is created by selecting “Edit” if additional information needs to be added.
- The required fields are specific to the Issue Tracker the ticket is submitted to. For example, the measure name and URL is required for the MADiEIT but is not available for the CQLIT. When tickets are moved only the data in fields available by the IT the ticket is moved to will be retained, and different data may be needed that wasn't originally entered.

5. Attach required artifacts and supporting documentation

- Tickets created with required information and supporting documentation missing will be sent back to the submitter with a comment listing the missing information and supporting documentation. Populating all applicable fields while creating the ticket will assist the MADiE team when processing this ticket.
- **IMPORTANT NOTE:** Until all required information and supporting documentation are included, the ticket cannot be processed. Including this information at the time of ticket creation will expedite the time from ticket creation to when the team may begin processing the ticket. **Specifically: Attach the measure package and test case export, include measure, library and/or test case URLs, and include the Enhancement Request Form when applicable for the ticket you are submitting.**

Tickets to be Submitted to the CQLIT

Tickets submitted to the CQL Issue Tracker will be evaluated and the standards team may identify the ticket needs to be moved on to the MADiE Issue Tracker to evaluate MADiE functionality.

The following types of tickets should be submitted to the [CQL Issue Tracker](#):

- User is experiencing a CQL error in the MADiE CQL Editor that is not resolved after reviewing resources (see list in the Ticket Submission Guidance document) and consulting with SMEs
- User is unable to resolve JSON test case error message(s) after reviewing resources (see list in the Ticket Submission Guidance document) and consulting with SMEs
- MADiE test case results are not as expected, and the following has been confirmed:
 - JSON does not contain validation errors
 - Valid CQL
 - Appropriate utilization of QI-Core Profiles:
 - hl7.org/fhir/us/qicore/STU4.1.1/profiles.html
 - hl7.org/fhir/us/qicore/STU6/profiles.html

Tickets to be Submitted to the MADiE IT

The following types of tickets should be submitted to the [MADiE Issue Tracker](#):

- Enhancement requests
- Issues accessing the applications after verifying network or internet connection
- Tool performance issues in which do not subside after verifying network or internet connection
- Error message received which instructs the user to contact the Help Desk
- Clarification needed for functionality after review of resources
- MADiE CQL error that was not resolved after review of available resources, consulting with SMEs and/or [CQL Issue Tracker](#)
- MADiE test case error that was not resolved after review of available resources, consulting with SMEs and/or [CQL Issue Tracker](#)
- MADiE measure export inquiries
- Issues with the measure HTML file (referred to as the 'Human Readable'), in the measure package export
- MADiE test case export (QRDA or Excel) inquiries
- Library deletion requests

Help Desk Requests Including HARP IDs

- The following requests must be submitted via email at MADiE@cms.hhs.gov as they contain HARP IDs
 - Measure or library ownership transfer requests
 - CMS ID deletion requests
 - Revert measure version requests
 - or other inquiries with a HARP ID
- Do not submit these requests until you have confirmed that all users involved in the request have active MADiE accounts
- MADiE allows users two options for adding or removing share access for libraries and measures
 - **Preferred Method:** Users can share or unshare one or more libraries or measures via the MADiE UI
 - If users require assistance, users can submit a request to share or unshare one or more libraries or measures via email MADiE@cms.hhs.gov

UXR Update

- Introducing Matt Barba as the new UX Research asset.
- PRA approval has been provided for the System Usability Scale Survey and it is currently live and waiting for your input.
 - Survey link - https://surveys.CMS.gov/jfe/form/SV_6zgX4G13GQhuWNg
- We are currently accumulating user data in Matomo on how MADiE is being used
 - Recording user interaction with tabs and buttons
 - We are looking into conducting a report analysis so we can build easier reports for stakeholders to read.

User Group Discussion



- Topic suggestions and questions for the User Group can also be submitted through the MADiE Issue Tracker located here:
<https://oncprojecttracking.healthit.gov/support/projects/MADiE/summary>
- Additional questions or comments can be submitted by using the chat feature or unmuting your own line.
- Our next User Group will be held October 16th at 2 pm ET.

PII / PHI

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



Resources

MADiE Resources (1 of 4)

The [MADiE public website](#) provides a Login button to access MADiE

The [Training and Resources](#) tab on the public website provides:

- **User Access Guide** – how to get your MADiE account
- **User Guide** – provides details regarding tool functionality
- **JSON Test Case Guide v2.1** – steps for using the JSON test case editor. This document has been updated to include QI-Core v6.0.0 information.
- **Known Issues** – updated regularly
- **Version Information** – provides information about third party tools used by MADiE and the global shared libraries
- **MADiE Enhancement Request Form for CMS Contractors** – additional details required when submitting an enhancement request
- **MADiE CMS ID Deletion Request Form v1.1** – to request the CMS ID associated with a draft measure with no prior versions be deleted
- **MADiE Add or Remove Measure and Library Sharing Request Form v1.2**
 - Used to request measures (and the measure's test cases) or libraries to be shared, submitted by or on behalf of the owner via email OR
 - Used to request measures (and the measure's test cases) or library sharing access be removed – submitted by or on behalf of the owner or by the user the measure or library is shared with via email
- **MADiE Measure or Library Ownership Transfer Request Form v2.1** – to request transferring ownership of measures (and the measure's test cases) or libraries - form should be submitted by the owner via email
- **MADiE Revert Measure Version Request Form v1.1** – to request a measure version number be reverted to a previous version number if the measure was versioned in error
- **MADiE Independent Testing Supplemental Guide v2.0**
- **Release Notes** – posted with each MADiE release
- **MADiE In Depth Training Videos**
- **External JSON Testing Help Guide** – provides instructions for users to externally test their QI-Core v6.0.0 test case JSON until MADiE can begin performing those validations

MADiE Resources (2 of 4)

MADiE QI-Core Profile Examples – Updated to Include QI-Core v6.0.0

- The MADiE Test Case JSON Guide v2.1, available on the [Training and Resources](#) tab on the public website, has been updated to also provide guidance to aid MADiE users in updating or creating QI-Core v6.0.0 test cases in MADiE.
- The MADiE team has created a measure in MADiE (**QI-Corev6.0.0 Test Case Template**) with an included test case JSON bundle (**QI-Corev6Example Bundle**) which contains entries for many QI-Core v6.0.0 profiles.
- To continue to support QI-Core v4.1.1 test case creation, the measure (**QI-Corev4.1.1 Test Case Template**) with one test case (**QI-Corev4.1.1 Example Bundle version 2**) is available in MADiE.
- The purpose of these test case JSON bundles is to provide users the framework for commonly used QI-Core v4.1.1 and v6.0.0 profiles that can be leveraged with their own test case development.
- The QI-Core profiles examples in the v4.1.1 and the v6.0.0 JSON bundles are for guidance and are not intended to fulfill any measure or testing requirement. Updates to reflect the specific details of your test case will be necessary.
- Measure developers may copy any of the profiles from either of the test cases to your test case(s) (of the same QI-Core version) or use a source code editor (e.g., Notepad++ and Visual Studio Code) and make any updates needed to meet your testing needs. The test cases may also be exported.

MADiE Resources (3 of 4)

MADiE In Depth Training Videos

- Located on the public website [Training and Resources](#) tab
 - [Log In and Measures](#)
 - [QI-Core Test Cases](#)

MADiE Process Workflows:

- [MADiE Help Desk Process](#)
- [MADiE Enhancement Request Process](#)

JIRA Status and Resolution Use Cases

- Located on the [MADiE Issue Tracker](#) Summary page

MADiE Resources (4 of 4)

MADiE 2.3.0

<https://madie.cms.gov>

MADiE Release Schedule

Located on the public website [Training and Resources](#) tab

MADiE Issue Tracker:

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

eCQI Resource Center:

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