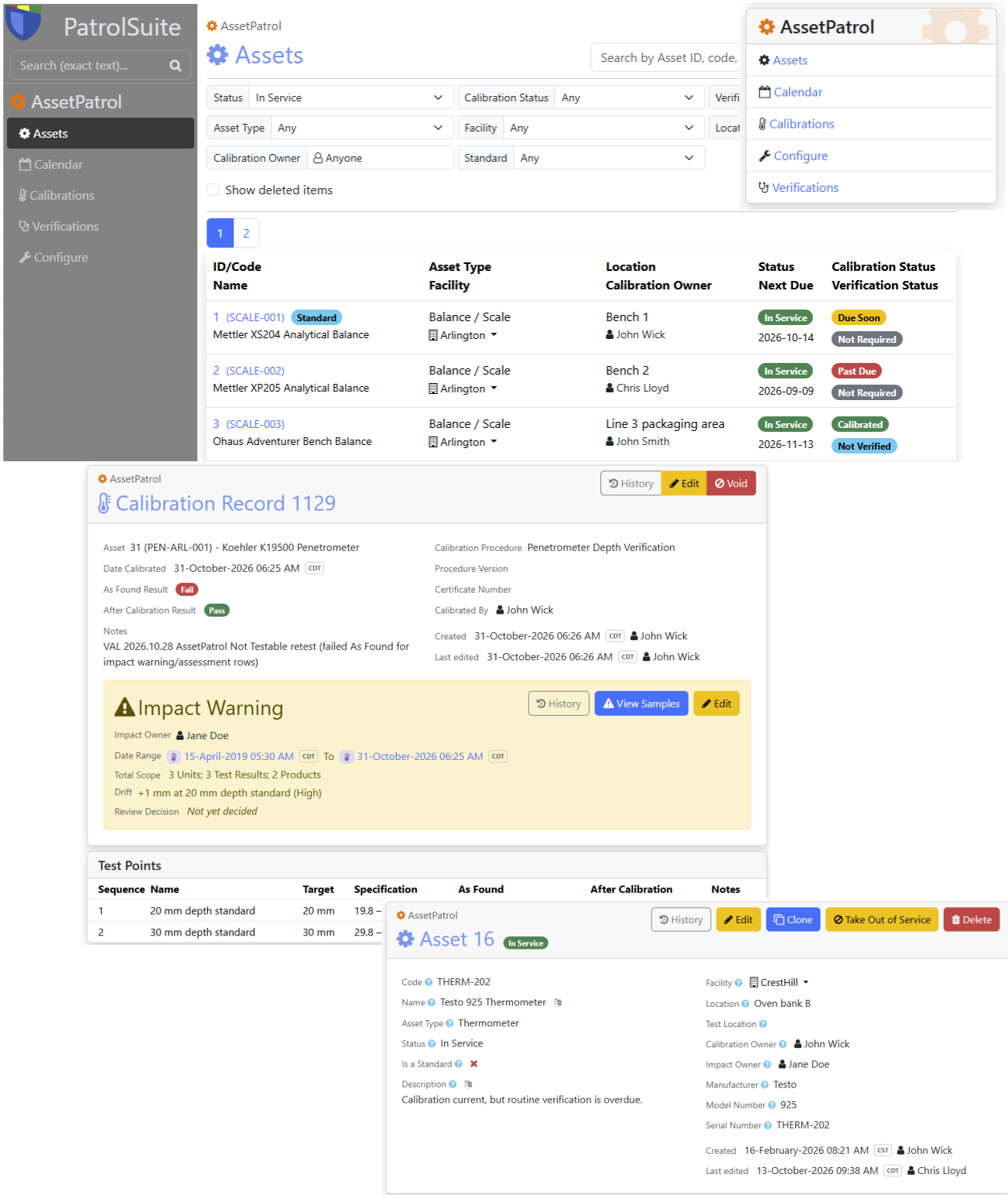
AssetPatrol
User Guide
Version 2026-10



Copyright 2026 MAP America Inc. All Rights Reserved.

Contents

CHAPTER 1: INTRODUCTION 5
INTRODUCTION 5
ACCESS 5
BROWSER 5
DEFINITIONS 5
SYMBOL KEY 7

CHAPTER 2: SECURITY 8
ROLES 8
PERMISSIONS 9

CHAPTER 3: NAVIGATION 12
THE ASSETPATROL CARD 12

CHAPTER 4: CONFIGURE - FACILITIES 13

CHAPTER 5: CONFIGURE - CALIBRATION PROCEDURES 14
INTRODUCTION 14
SEARCH CALIBRATION PROCEDURES 14
ADD A NEW CALIBRATION PROCEDURE 15
EDIT A CALIBRATION PROCEDURE 16
DELETE A CALIBRATION PROCEDURE 17
RESTORE A CALIBRATION PROCEDURE 17
LOCALIZE A CALIBRATION PROCEDURE 18
CALIBRATION PROCEDURE HISTORY 20

CHAPTER 6: CONFIGURE - VERIFICATION PROCEDURES 22
INTRODUCTION 22
SEARCH VERIFICATION PROCEDURES 22
ADD A NEW VERIFICATION PROCEDURE 23
EDIT A VERIFICATION PROCEDURE 23
DELETE A VERIFICATION PROCEDURE 24
RESTORE A VERIFICATION PROCEDURE 25
LOCALIZE A VERIFICATION PROCEDURE 26
VERIFICATION PROCEDURE HISTORY 28

CHAPTER 7: CONFIGURE - ASSET TYPES 30
INTRODUCTION 30
SEARCH ASSET TYPES 30
ADD A NEW ASSET TYPE 30
EDIT AN ASSET TYPE 33
DELETE AND RESTORE AN ASSET TYPE 34
VIEW THE AUDIT TRAIL OF ASSET TYPE CHANGES 35
LOCALIZE AN ASSET TYPE 36

CHAPTER 8: ASSETS 37
INTRODUCTION 37
SEARCH ASSETS 37
ADD A NEW ASSET 38
VERIFICATION STANDARDS 40
TEST POINTS 42

 Copyright 2026 MAP America Inc.

ASSET EDIT 43
ASSET CLONE 46
ASSET OUT OF SERVICE 47
ASSET RETURN TO SERVICE 48
ASSET RETIREMENT 48
ASSET UNRETIREMENT 49
ASSET DELETE 50
ASSET RESTORATION 51
ASSET HISTORY 51
LOCALIZE AN ASSET NAME 52

CHAPTER 9: ASSET CALENDAR 53
INTRODUCTION 53
CALENDAR OVERVIEW 53
FILTERS 54
PAST DUE 54
CALENDAR KEY 54
CALENDAR TASK PREVIEW 55

CHAPTER 10: ASSET CALIBRATION 56
INTRODUCTION 56
ASSET CALIBRATION STATUS 56
CALIBRATE AN ASSET 57
SCHEDULE AD HOC CALIBRATION 61
CANCEL AN AD HOC CALIBRATION 62

CHAPTER 11: ASSET CALIBRATION RECORDS 63
INTRODUCTION 63
CALIBRATION RECORDS SEARCH 63
CALIBRATION RECORD OVERVIEW 64
CALIBRATION RECORD HISTORY 65
EDIT A CALIBRATION RECORD 65
VOID A CALIBRATION RECORD 66

CHAPTER 12: ASSET VERIFICATION 67
INTRODUCTION 67
ASSET VERIFICATION STATUS 67
VERIFY AN ASSET 68
SCHEDULE AD HOC VERIFICATION 71
CANCEL AN AD HOC VERIFICATION 72

CHAPTER 13: ASSET VERIFICATION RECORDS 73
INTRODUCTION 73
VERIFICATION RECORDS SEARCH 73
VERIFICATION RECORD OVERVIEW 74
VERIFICATION RECORD HISTORY 75
EDIT A VERIFICATION RECORD 75
VOID A VERIFICATION RECORD 76

CHAPTER 14: IMPACT ASSESSMENT 77
INTRODUCTION 77
IMPACT WARNING 77
IMPACT ASSESSMENT 81
IMPACT ASSESSMENT – MASS ASSIGNMENT 84
IMPACT ASSESSMENT – CLOSE & REOPEN 86

Copyright 2026 MAP America Inc.

Impact Assessment – Voided 87
Impact Assessment Audit Trail 87
Impact Assessment Configuration Settings 88
Records and their Relation to Impact Activities 89

CHAPTER 15: CALIBRATION-CRITICAL TEST METHODS 90
Introduction 90
Designate a Calibration-Critical Test Method 90
Performing a Calibration-Critical Test in QualityPatrol 93

CHAPTER 16: TASKS 96
Introduction 96
Search All Tasks 96
Search My Tasks 96

CHAPTER 17: LOCALIZATION 98
Introduction 98
Manually Localize a Calibration Procedure 98
Localize a Calibration Procedure using PatrolBot 99

APPENDIX A 100
Regulatory Standards and Clauses 100

Copyright 2026 MAP America Inc.

Chapter 1: Introduction

Introduction

AssetPatrol™ is a regulatory compliance module that prevents the use of measurement equipment that is not in a valid calibration state, helping organizations satisfy requirements for the control of monitoring and measuring equipment under ISO 9001, ISO 22000, ISO 13485, FDA 21 CFR Part 117, BRCGS, and FSSC 22000. See *Appendix A* for a summary of regulatory standards and clauses related to calibration.

AssetPatrol provides the following critical functionality:

A. Documents each piece of equipment, its calibration schedule, and who is responsible for calibrating it.

B. Tracks when calibration is due, assigns the task to the "Calibration Owner," records the calibration results, and assigns the next calibration due date.

C. Evaluates the asset's calibration status at the time it is used for measurement.

D. Prevents the use of out-of-calibration equipment to record test results.

E. When an asset is found to have failed, AssetPatrol identifies the test results that were affected and assigns their review to an Impact Owner.

In regulated industries, AssetPatrol is the measurement equipment control element of the quality management system.

Note: AssetPatrol is designed to manage assets that require calibration. Assets that do not require calibration should not be entered into AssetPatrol.

Access

AssetPatrol is accessed from the PatrolSuite™ homepage. To access the PatrolSuite homepage, obtain the URL and login credentials from your IT department.

PatrolSuite module access is governed by both PatrolSuite and Active Directory security protocols. Users will see different homepage content and will have different access levels based on assigned roles. For assistance with security or permissions, contact your IT department.

Browser

PatrolSuite is accessed through a web browser. The platform and all its applications, including AssetPatrol, are certified for use with Google Chrome, Microsoft Edge and Safari. To ensure full functionality and the best user experience, MAP strongly recommends using one of these supported browsers.

Definitions

Asset. A piece of equipment, instrument, device, standard, or other item that is identified and managed to ensure its suitability and availability for its intended use. For assets in AssetPatrol, the intended use is typically to measure or monitor product quality. Every asset has an AssetPatrol-generated **Number**, a free-text **Code** (sometimes used to reference a number from another system), and a **Name**. In PatrolSuite, assets are displayed as "number (code) name." For example: "5 (THERM-ARL-007) - Vaisala HMP110 Probe."

Copyright 2026 MAP America Inc.

Asset Type. A grouping of similar assets that share common calibration and verification settings. Examples include Balance/Scale, Metal Detector, Thermometer, and Viscometer. When a new asset is created, it inherits the default settings defined for the selected Asset Type. These settings may subsequently be changed as needed at the asset level.

Asset Status. The lifecycle state of an asset. Note that the asset status has nothing to do with the calibration status (an asset that is Past Due for calibration can be In Service).

- **In Service**. Currently being used for testing.
- **Available for Use**. On hand and ready for use. When an asset in this status is used to produce a test result, the asset status is automatically changed to In Service.
- **Out of Service**. Not available for use. Such assets may be awaiting calibration or out for repair.
- **Retired**. An asset that has been permanently removed from service and will no longer be available for use. Such assets still appear in historical calibration and testing records but cannot be used to create future records.

Calibration "As Found." An assessment of the accuracy of an asset immediately prior to being calibrated.

Calibration "After Calibration." An assessment of the accuracy of an asset at the completion of calibration, after any necessary adjustments have been made.

Calibration-Critical. Identifies a test method that must be performed using a calibrated asset. Before the test results of a calibration-critical test method can be saved, QualityPatrol: (i) requires the user to identify the asset used to perform the measurement; and (ii) verifies that the asset is in an acceptable calibration state.

Calibration Procedure. The written instructions that define how to perform a calibration - typically a SOP or work instruction. Procedures must have a unique name and may have a version number and a link to the document itself.

Calibration Record. The documented evidence that an asset's conformance to its defined calibration requirements was evaluated on a specific date, including the As Found and After Calibration results, the test point readings, who performed the calibration, and the resulting calibration status.

Calibration Settings. The collective information that determines an asset's calibration requirements: how often, how many days in advance of the due date that a "calibration due soon" is displayed, the calibration procedure, the calibration party, the Recalibration Past Due Threshold, and whether being past due prevents the asset from being used in QualityPatrol.

Calibration Status. The current state of a measuring instrument with respect to its calibration requirements, indicating whether the instrument is within its required calibration interval and is authorized for use, or not. AssetPatrol calibration statuses are: Calibrated, Due Soon, Not Calibrated, Past Due, Pending Recalibration, and Retired. See Chapter 10 for more information.

Impact Assessment. A documented evaluation performed when an instrument is found to be out of tolerance (a failed verification or calibration) to determine whether the condition may have affected the validity of measurements previously made with the instrument and, consequently, the quality or conformity of products, processes, or other decisions based on those measurements. An event may be created in EventPatrol to document the impact assessment investigation and findings.

Location. Where the asset is physically placed, stored, or used within its facility.

Standard. An asset used to verify the accuracy of another asset in advance of the next full calibration. Standards are themselves assets with their own calibration schedule. A standard can be calibrated but not verified.

Test Points. An ordered list of measurement points with specifications that is defined for an asset for the purpose of performing the calibration. For example, a *200 g check* and *1000 g check* on a balance.

Copyright 2026 MAP America Inc.

Verification. A compliance check performed between full calibrations to confirm that an asset is producing accurate measurements. Verification settings often mirror the calibration settings and typically use a "standard" to measure the asset's accuracy.

Verification Record. The documented evidence that an asset's continued conformance to its defined calibration requirements was verified on a specific date, including the standard used, results obtained, and resulting verification status. A verification event does not constitute a calibration and does not typically involve adjustment of the instrument.

Verification Standard. A controlled reference material or device with known characteristics used to calibrate or verify the calibration status of another asset. In AssetPatrol, a verification standard is an asset with **'Is a Standard'** selected. Verification standards are identified by the **Standard** label on the Assets search page.

Symbol Key

The following symbols are used in this user guide.

Symbol	Description
*	Indicates a required data entry field.
NEW	Indicates a new feature, or new information about existing functionality.
	Indicates rules regarding access security.
	Click the help icon to view additional information.

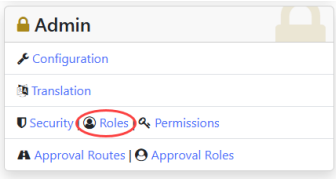
Copyright 2026 MAP America Inc.

Chapter 2: Security

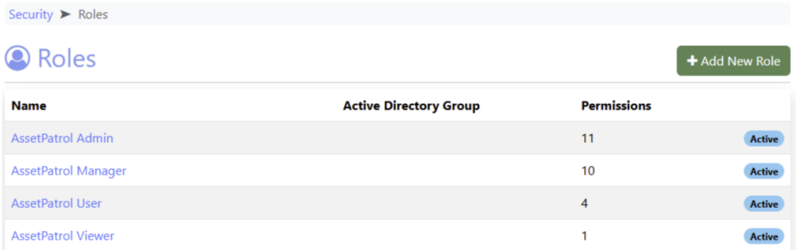
Roles

Roles are located on Page: *{PatrolSuite URL}/Security/Roles*

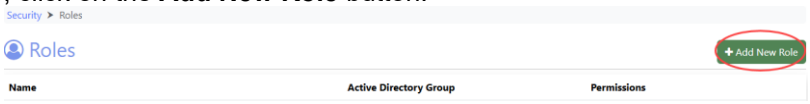
1. To access the PatrolSuite Roles, click on the **Roles** hyperlink in the Admin card on the PatrolSuite homepage.



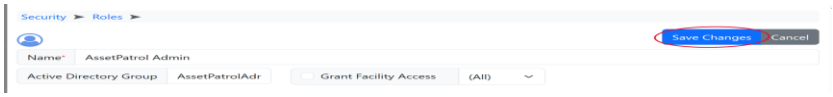
Note: MAP recommends creating the following AssetPatrol Roles:



2. To create a Role, click on the **Add New Role** button.

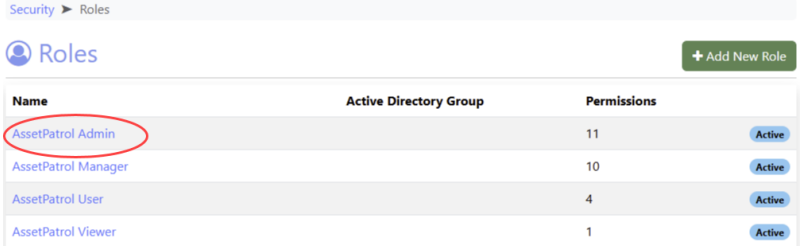


   a. Enter the name of the role and click **Save Changes**.



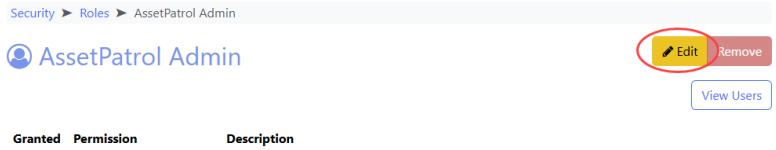
Note: Each PatrolSuite Role must be associated with a Microsoft Active Directory group.

3. To associate an AssetPatrol Role with an Active Directory group:
   a. Contact your IT department and ask them to create an Active Directory group for the PatrolSuite Role. The Active Directory group name is typically the same as the PatrolSuite Role name.
   b. Provide the IT department with the names of all users who need to be added into each Active Directory group.
   c. Click on the desired Role name.

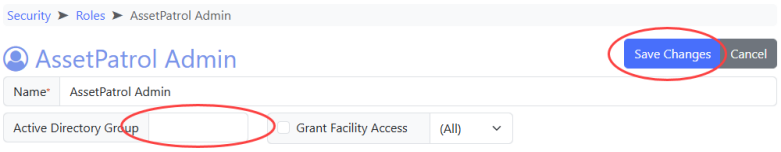


Copyright 2026 MAP America Inc.

d. Click on the **Edit** button.

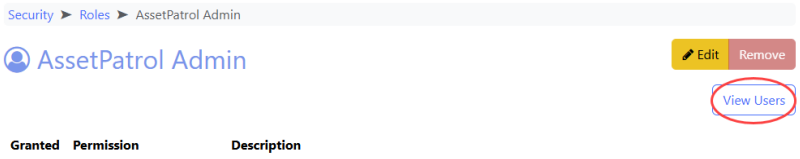


e. Enter the name of the applicable Active Directory group and click **Save Changes**.



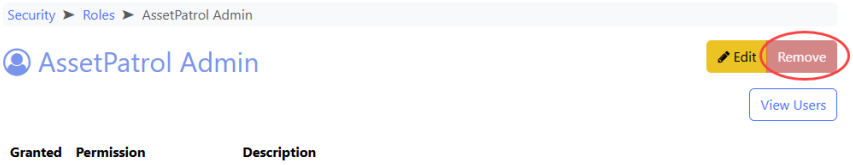
Note: Granting facility access is typically not done for an AssetPatrol Role. Accordingly, MAP recommends leaving the Grant Facility Access checkbox unchecked.

4. To see the users who are in the Active Directory group associated with the Role, click the **View Users** button.



5. To remove an AssetPatrol role, click the **Remove** button and click the **Remove Role** button in the confirmation window.

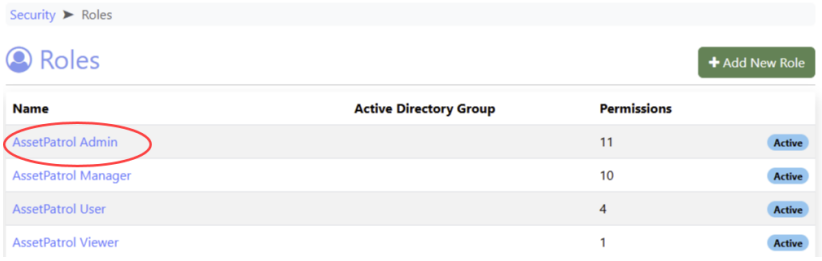
Note: The **Remove** button will not be actionable until all permissions are set to "no."



Permissions

Permissions are located on Page: *{PatrolSuite URL}/Security/Permissions*

6. To grant permissions to an AssetPatrol Role, click on the desired Role name.



a. Scroll down to the **AssetPatrol** section and click on the **No** button for the desired permission. This

Copyright 2026 MAP America Inc.

will change the button to read **Yes**, which means the permission has been granted to the Role, and therefore to all users in the Role.

The **AssetPatrol Admin** Role is typically granted the following permissions:

AssetPatrol		
Yes	Admin	All AssetPatrol permissions, including the ability to edit the Configure pages.
Yes	Asset Edit	Allows users to add, edit, clone, and take assets out of service.
Yes	Asset Type Edit	Allows users to add and edit asset types and their default calibration settings.
Yes	Calibration Procedure Edit	Allows users to manage the calibration procedures.
Yes	Calibration Record Edit	Allows users to create and edit calibration records.
Yes	Calibration Record Void	Allows users to void a calibration record that was entered in error.
Yes	Override Calibration Warning	Allows users to save a sample test result when the chosen asset is past due for calibration or verification and the "Prevent Use When Past Due" checkbox on that asset is checked.
Yes	Verification Procedure Edit	Allows users to manage the verification procedures.
Yes	Verification Record Edit	Allows users to create or edit a verification record.
Yes	Verification Record Void	Allows users to void a verification record that was entered in error.
Yes	View	Allows users to view all AssetPatrol pages.

The **AssetPatrol Manager** Role is typically granted the following permissions:

AssetPatrol		
No	Admin	All AssetPatrol permissions, including the ability to edit the Configure pages.
Yes	Asset Edit	Allows users to add, edit, clone, and take assets out of service.
Yes	Asset Type Edit	Allows users to add and edit asset types and their default calibration settings.
Yes	Calibration Procedure Edit	Allows users to manage the calibration procedures.
Yes	Calibration Record Edit	Allows users to create and edit calibration records.
Yes	Calibration Record Void	Allows users to void a calibration record that was entered in error.
Yes	Override Calibration Warning	Allows users to save a sample test result when the chosen asset is past due for calibration or verification and the "Prevent Use When Past Due" checkbox on that asset is checked.
Yes	Verification Procedure Edit	Allows users to manage the verification procedures.
Yes	Verification Record Edit	Allows users to create or edit a verification record.
Yes	Verification Record Void	Allows users to void a verification record that was entered in error.
Yes	View	Allows users to view all AssetPatrol pages.

The **AssetPatrol User** Role is for the metrology technician who records the work, and is typically granted the following permissions:

Copyright 2026 MAP America Inc.

AssetPatrol		
No	Admin	All AssetPatrol permissions, including the ability to edit the Configure pages.
Yes	Asset Edit	Allows users to add, edit, clone, and take assets out of service.
No	Asset Type Edit	Allows users to add and edit asset types and their default calibration settings.
No	Calibration Procedure Edit	Allows users to manage the calibration procedures.
Yes	Calibration Record Edit	Allows users to create and edit calibration records.
No	Calibration Record Void	Allows users to void a calibration record that was entered in error.
No	Override Calibration Warning	Allows users to save a sample test result when the chosen asset is past due for calibration or verification and the "Prevent Use When Past Due" checkbox on that asset is checked.
No	Verification Procedure Edit	Allows users to manage the verification procedures.
Yes	Verification Record Edit	Allows users to create or edit a verification record.
No	Verification Record Void	Allows users to void a verification record that was entered in error.
Yes	View	Allows users to view all AssetPatrol pages.

The **AssetPatrol Viewer** Role is typically granted only the following permission:

AssetPatrol		
No	Admin	All AssetPatrol permissions, including the ability to edit the Configure pages.
No	Asset Edit	Allows users to add, edit, clone, and take assets out of service.
No	Asset Type Edit	Allows users to add and edit asset types and their default calibration settings.
No	Calibration Procedure Edit	Allows users to manage the calibration procedures.
No	Calibration Record Edit	Allows users to create and edit calibration records.
No	Calibration Record Void	Allows users to void a calibration record that was entered in error.
No	Override Calibration Warning	Allows users to save a sample test result when the chosen asset is past due for calibration or verification and the "Prevent Use When Past Due" checkbox on that asset is checked.
No	Verification Procedure Edit	Allows users to manage the verification procedures.
No	Verification Record Edit	Allows users to create or edit a verification record.
No	Verification Record Void	Allows users to void a verification record that was entered in error.
Yes	View	Allows users to view all AssetPatrol pages.

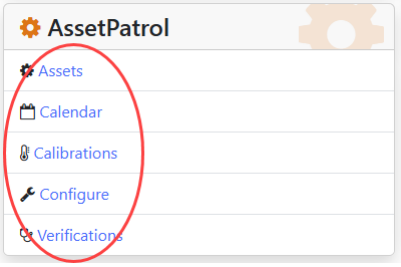
Copyright 2026 MAP America Inc.

Chapter 3: Navigation

The AssetPatrol Card

Users with the **AssetPatrol View** permission can see AssetPatrol and its pages.

The AssetPatrol card on the PatrolSuite homepage contains hyperlinks to the module's pages.



- **Assets**. Find any piece of equipment by number, code, name, type, status, facility, location, Calibration Owner, or calibration and verification status.
- **Calendar**. Upcoming and past-due calibrations and verifications on a calendar, with a pinned past-due rail.
- **Calibrations**. Search the calibration records by asset.
- **Configure**. Asset types, calibration and verification procedures, and which facilities use AssetPatrol.
- **Verifications**. Search the verification records by asset.

Note: Defining which test methods require measurement using a calibrated asset is configured on the QualityPatrol Test Method page, not in AssetPatrol. See **Chapter 15**.

Note: When PatrolBot is enabled, the AssetPatrol menu on the left side of the AssetPatrol pages also has an Ask PatrolBot link, which opens PatrolBot to answer questions about AssetPatrol.

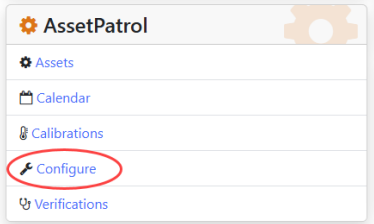
Copyright 2026 MAP America Inc.

Chapter 4: Configure - Facilities

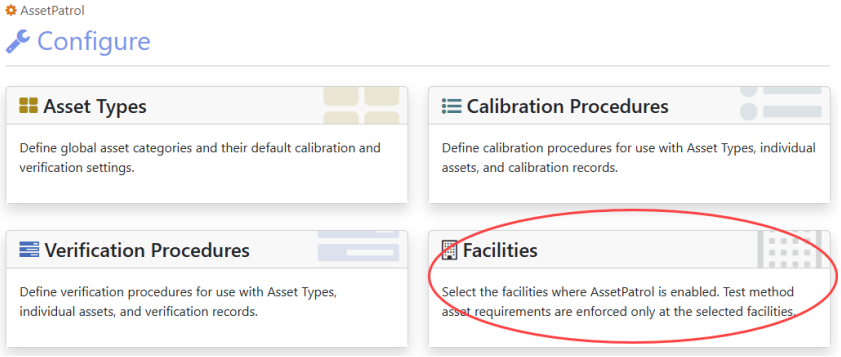
The use of AssetPatrol is controlled at the facility level.

Users with the AssetPatrol Admin permission can edit the Configure/Facility settings.

1. To select the facilities where AssetPatrol is in use, click the **Configure** hyperlink on the AssetPatrol card.



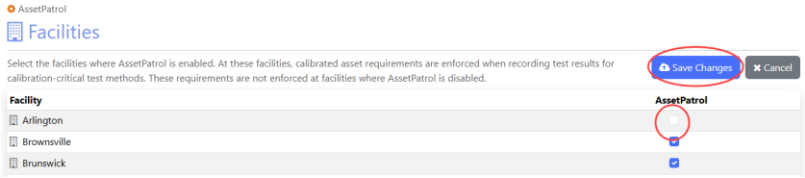
2. Click on the **Facilities** card.



3. Click the **Edit** button.



4. Check the desired facilities and click **Save Changes**.



Copyright 2026 MAP America Inc.

Chapter 5: Configure - Calibration Procedures

Introduction

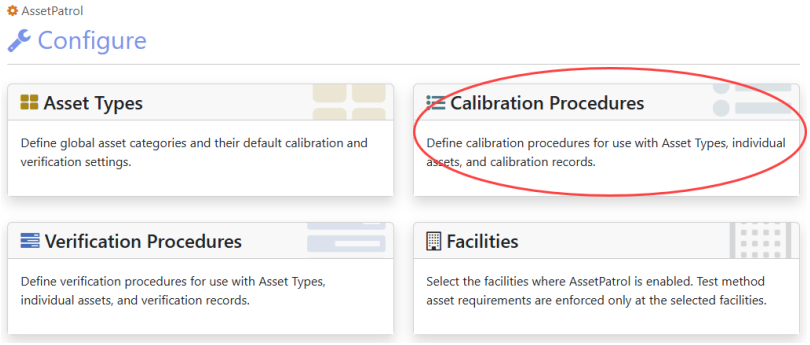
A calibration procedure is the written instruction that explains how to calibrate an instrument. Multiple assets can reference the same procedure, and the calibration records will record the applicable version of the procedure that was used.

Users with the **Calibration Procedure Edit** permission can create and edit calibration procedures.

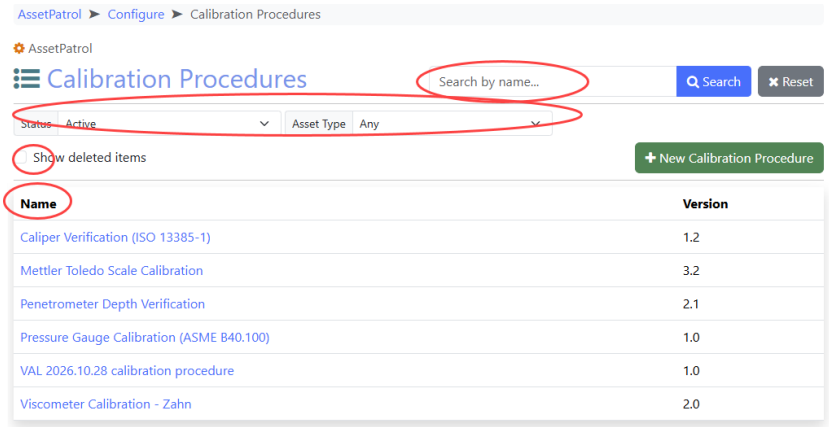
Page: *{PatrolSuite URL}/Asset/Setup/CalibrationProcedures*

Search Calibration Procedures

5. Locate the AssetPatrol card on the PatrolSuite homepage and click **Configure.** Then click **Calibration Procedures**.



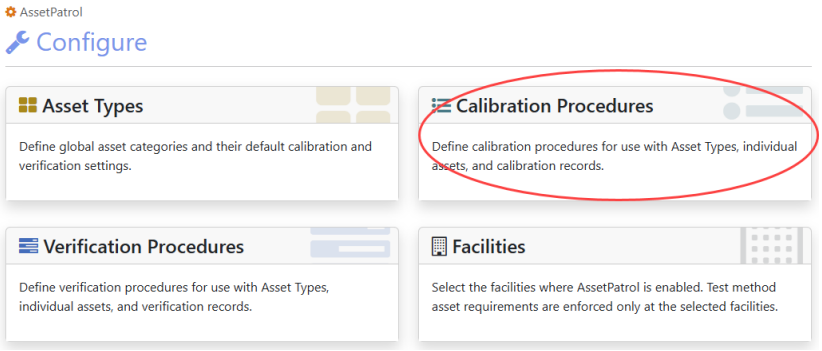
6. Find a procedure by entering a name into the **Search** field. Use the **Status** and **Asset Type** filters to filter the procedures. Check the **Show Deleted Items** checkbox to display deleted procedures. Click on the Name **column header** to sort the procedures.



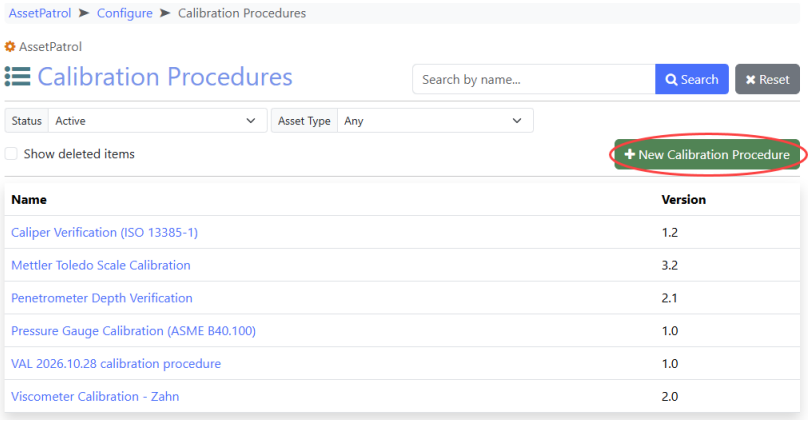
Copyright 2026 MAP America Inc.

Add a New Calibration Procedure

7. Locate the AssetPatrol card on the PatrolSuite homepage and click **Configure.** Then click **Calibration Procedures**.

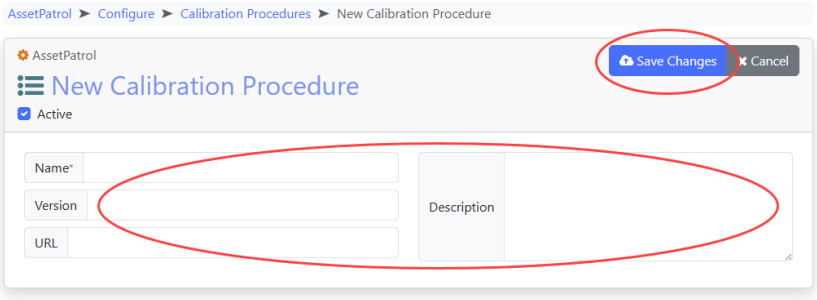


8. Click the **New Calibration Procedure** button.



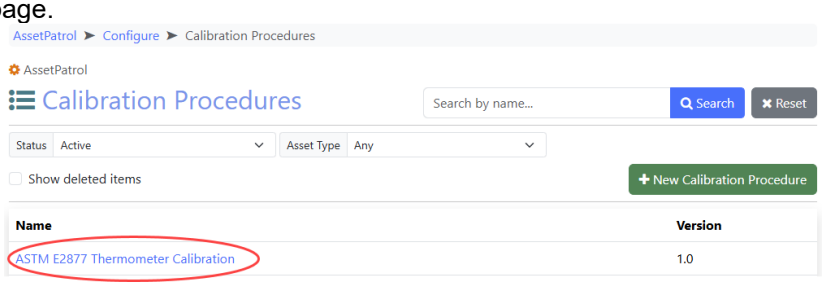
9. Enter the procedure information and click **Save Changes**.
   a. **Name**. All procedure names must be unique. For example: “ASTM E2877 Thermometer Calibration.”
   b. **Version**. The procedure revision number.
   c. **URL**. The full URL path to the document on the network or in the document management system. If a URL is provided, then a hyperlink will be provided in the calibration interface to enable the user to open the procedure.
   d. **Description**. Description of the procedure.

Copyright 2026 MAP America Inc.

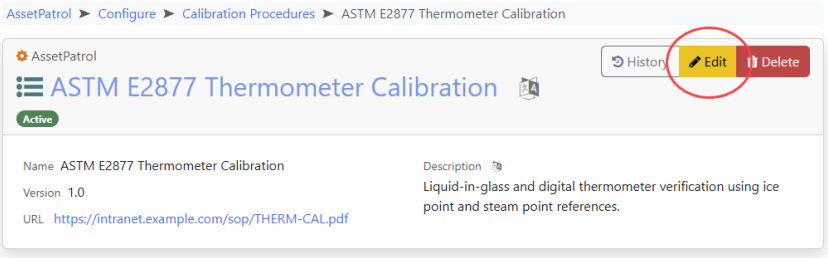


Edit a Calibration Procedure

10. To edit an existing calibration procedure, click on the desired procedure name from the Calibration Procedures page.



a. Click on the Edit button.

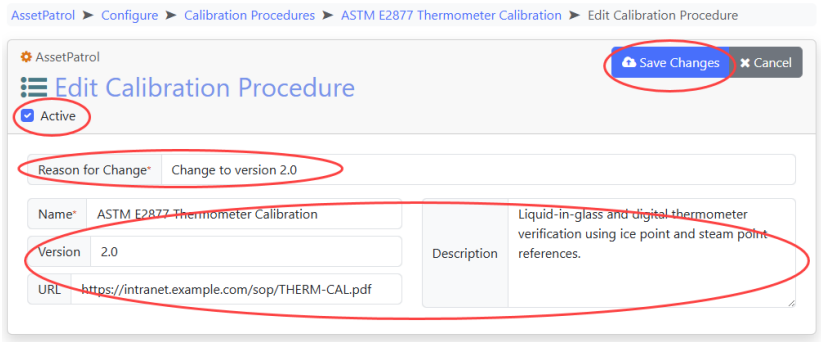


b. To deactivate the procedure, uncheck the **Active** checkbox.

c. Enter the **Reason for Change**.

d. Change the other procedure settings as desired.

e. Click the **Save Changes** button.



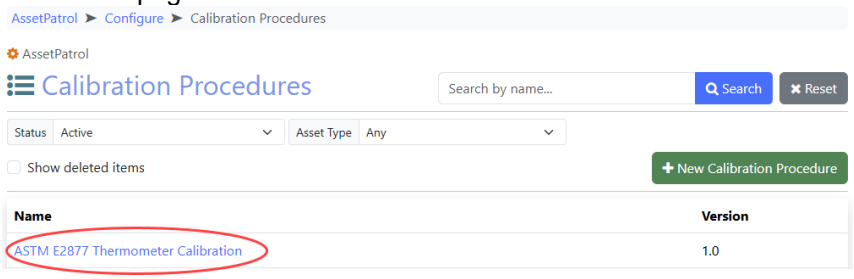
Copyright 2026 MAP America Inc.

Note: Changing the calibration procedure settings affects the asset types and assets that reference the procedure. For example, a change to the URL will be reflected in all asset types and assets that reference the procedure.

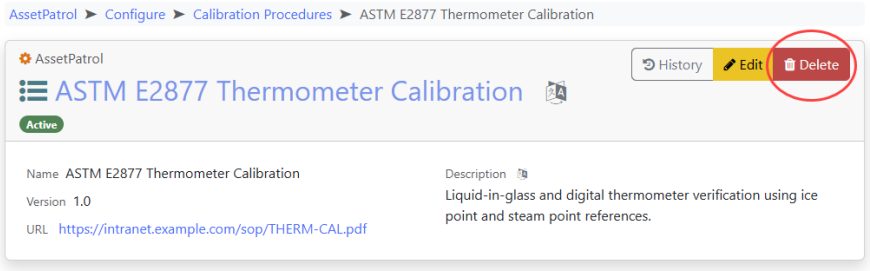
Delete a Calibration Procedure

Deleting a calibration procedure prevents the procedure from being used in searches, dropdowns, and filters. However, asset types and assets that reference the procedure will not be affected (they will continue to reference the procedure).

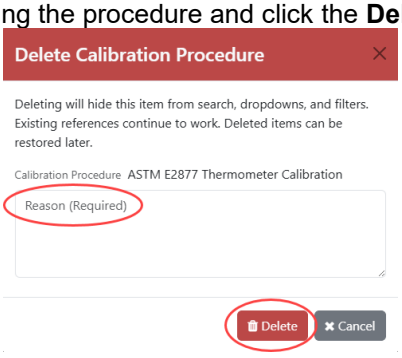
11. To delete an existing procedure, click on the desired **calibration procedure** name from the Calibration Procedures page.



a. Click on the **Delete** button.



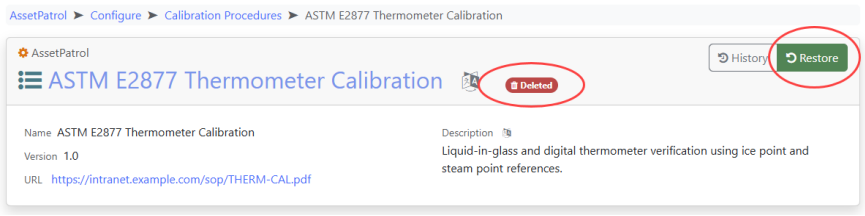
b. Enter the **Reason** for deleting the procedure and click the **Delete** button.



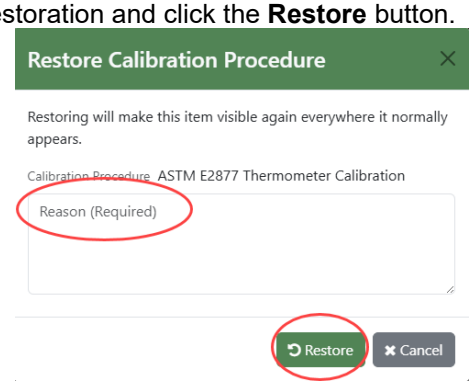
Restore a Calibration Procedure

12. To restore a deleted procedure, click on the **Restore** button.

Copyright 2026 MAP America Inc.

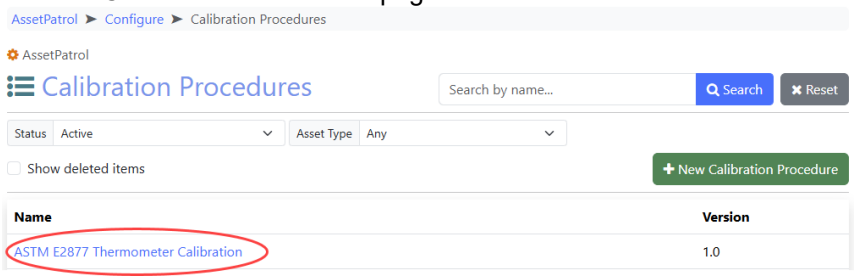


a. Enter the **Reason** for restoration and click the **Restore** button.

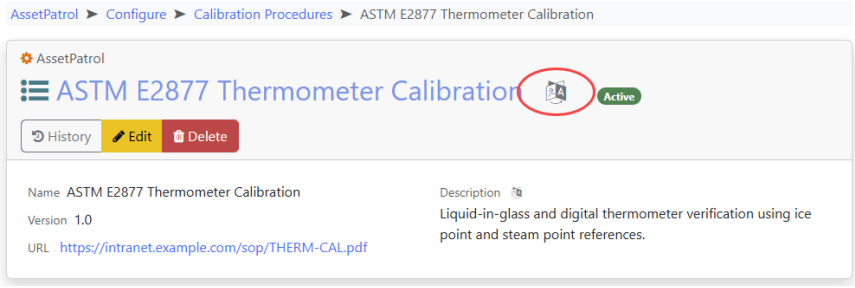


Localize a Calibration Procedure

13. To manually translate the procedure Name into other languages, click on the desired **calibration procedure** from the Calibration Procedures page.

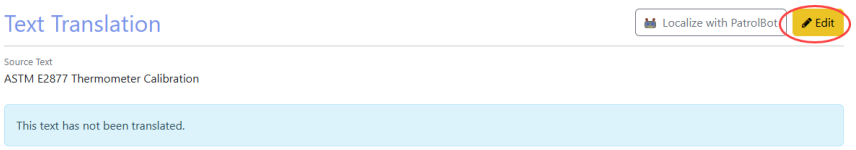


a. Click on the **Localization** icon.

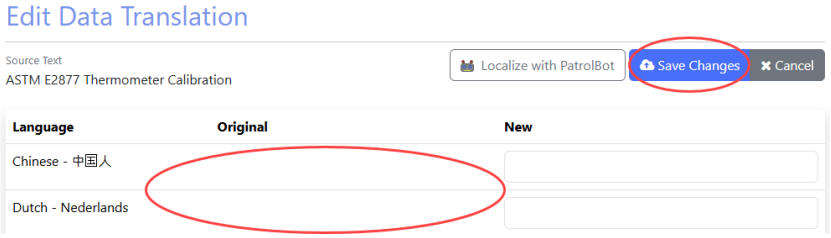


b. Click the **Edit** button.

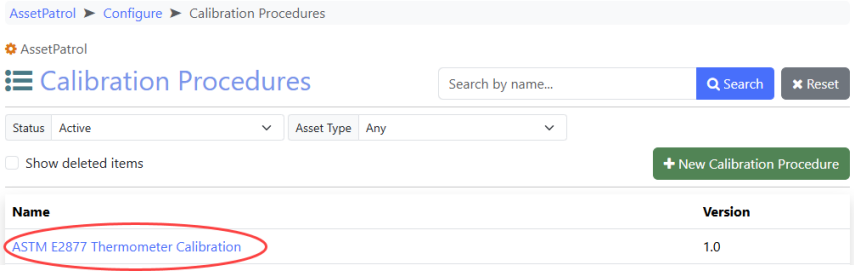
Copyright 2026 MAP America Inc.



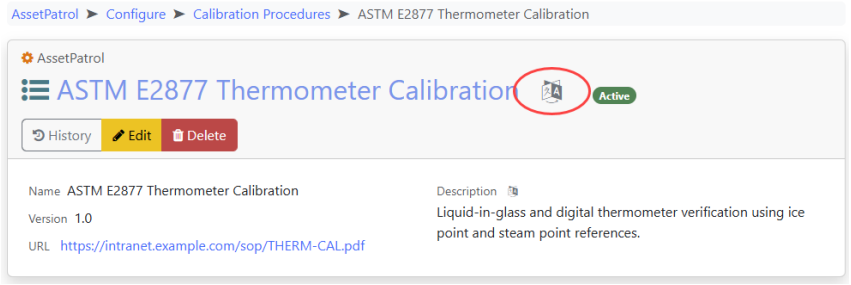
c. Enter the translations as appropriate and click the Save Changes button.



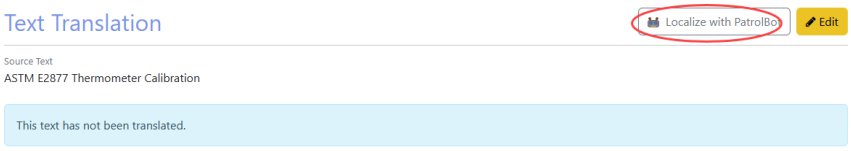
14. To use PatrolBot to translate the procedure Name into other languages, click on the desired **calibration procedure** from the Calibration Procedures page.



a. Click on the **Localization** icon.

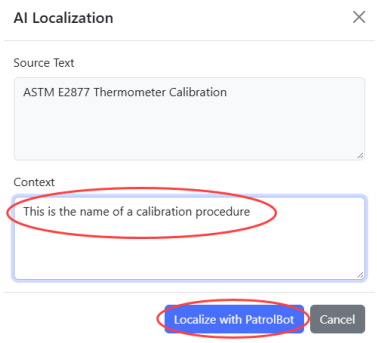


b. Click the **Localize with PatrolBot** button.

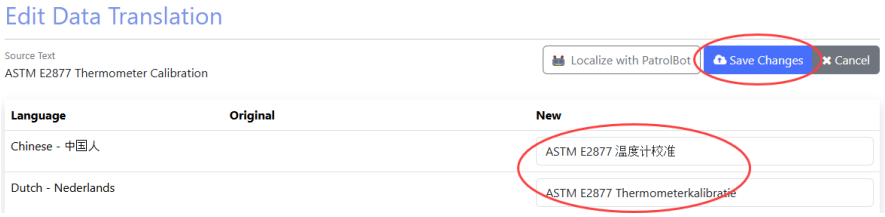


c. Enter any context that might help AI understand the context of what is being translated and click the **Localize with PatrolBot** button.

Copyright 2026 MAP America Inc.



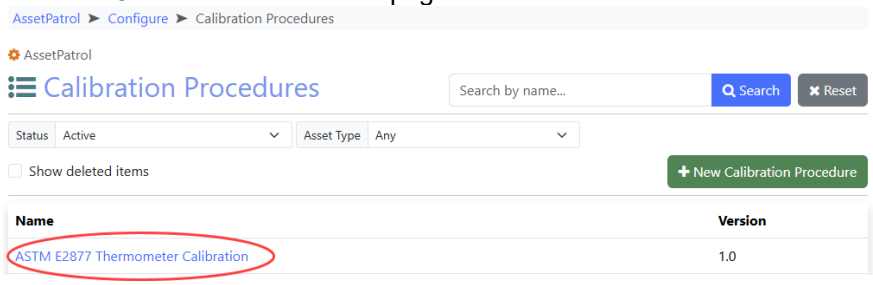
d. Review the translations. If accurate, click the **Save Changes** button. Otherwise click the **Cancel** button and perform the translations manually.



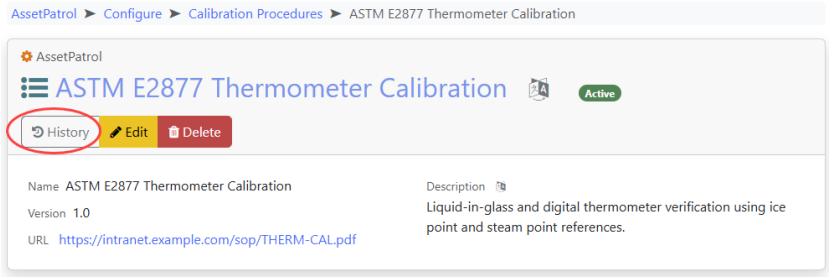
Calibration Procedure History

History buttons appear only for users with the PatrolSuite **History View** permission.

15. To view the audit trail of changes to a calibration procedure, click on the desired **calibration procedure** from the Calibration Procedures page.



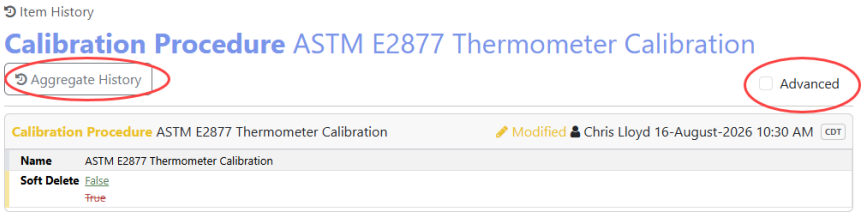
a. Click on the **History** button.



Copyright 2026 MAP America Inc.

b. To view additional details, check the **Advanced** checkbox.

c. To view the aggregate history of changes, click the **Aggregate History** button.



Copyright 2026 MAP America Inc.

Chapter 6: Configure - Verification Procedures

Introduction

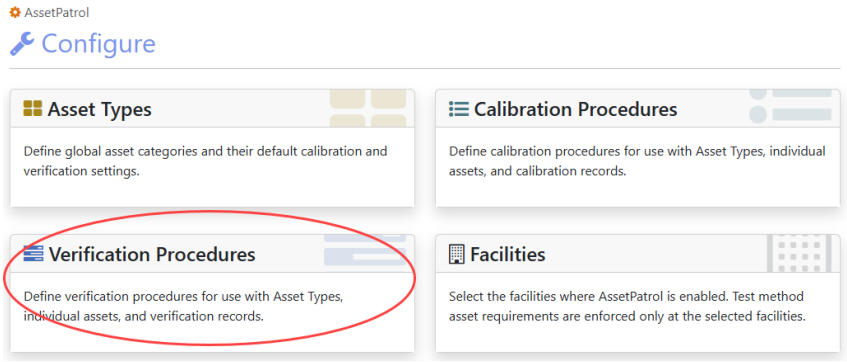
A verification procedure is the written instruction that explains how to perform a compliance check between full calibrations to confirm that an asset is producing accurate measurements. Multiple assets can reference the same procedure, and the verification records will record the applicable version of the procedure that was used.

Users with the **Verification Procedure Edit** permission can create and edit verification procedures.

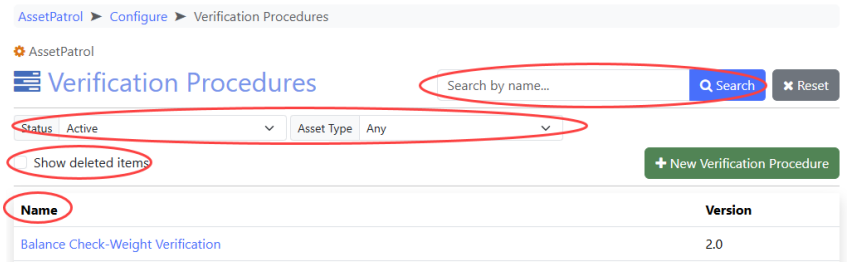
Page: *{PatrolSuite URL}/Asset/Setup/VerificationProcedures*

Search Verification Procedures

16. Locate the AssetPatrol card on the PatrolSuite homepage and click **Configure.** Then click **Verification Procedures**.



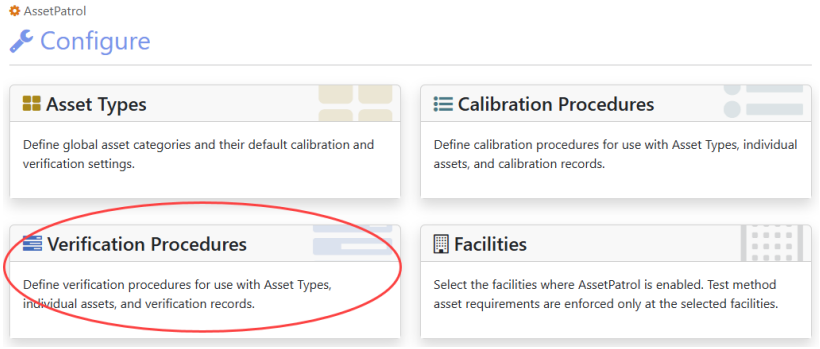
17. Find a procedure by entering a name into the **Search** field. Use the **Status** and **Asset Type** filters to filter the procedures. Check the **Show Deleted Items** checkbox to display deleted procedures. Click on the **Name column header** to sort the procedures.



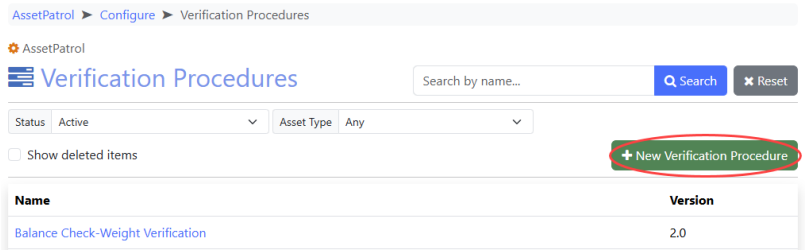
Copyright 2026 MAP America Inc.

Add a New Verification Procedure

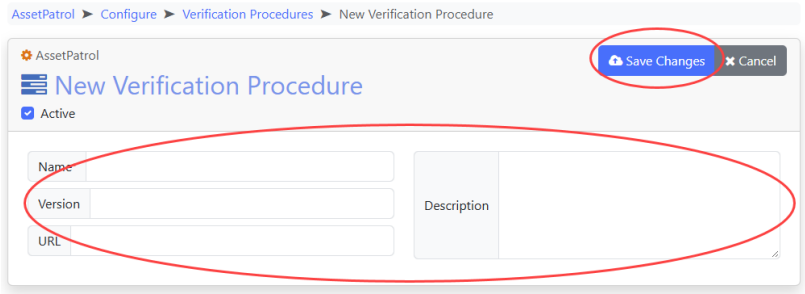
18. Locate the AssetPatrol card on the PatrolSuite homepage and click **Configure.** Then click **Verification Procedures**.



19. Click the **New Verification Procedure** button.



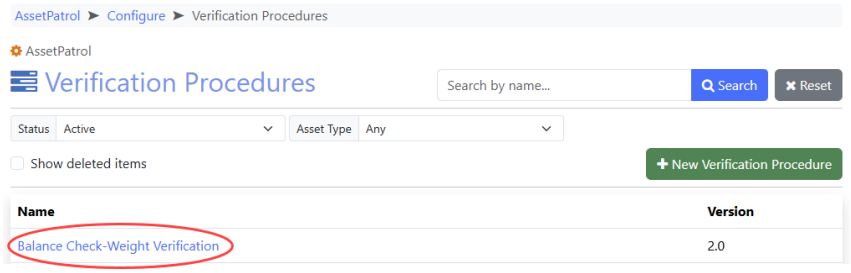
20. Enter the procedure information and click **Save Changes**.
    a. **Name**. All procedure names must be unique. For example: “ASTM E2877 Thermometer Verification.”
    b. **Version**. The procedure revision number.
    c. **URL**. The full URL path to the document on the network or in the document management system. If a URL is provided, then a hyperlink will be provided in the verification interface to enable the user to open the procedure.
    d. **Description**. Description of the procedure.



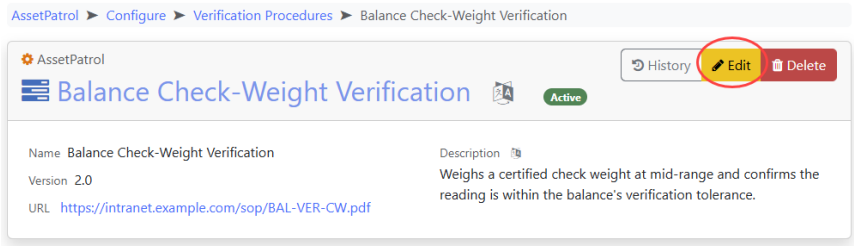
Edit a Verification Procedure

21. To edit an existing verification procedure, click on the desired procedure name from the Verification Procedures page.

Copyright 2026 MAP America Inc.



a. Click on the Edit button.

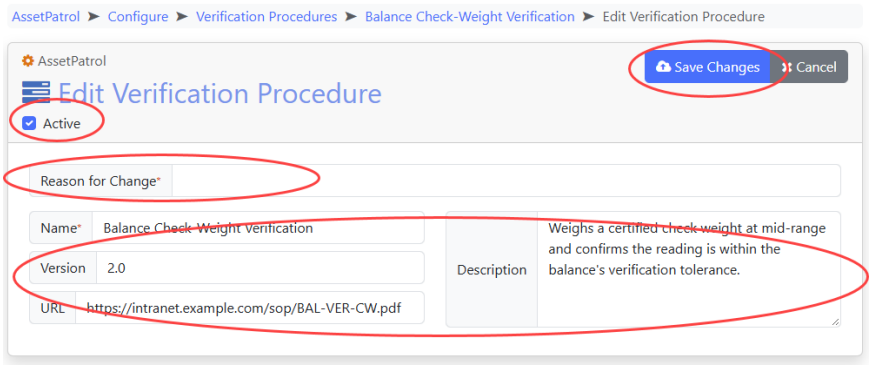


b. To deactivate the procedure, uncheck the **Active** checkbox.

c. Enter the **Reason for Change**.

d. Change the other procedure settings as desired.

e. Click the **Save Changes** button.



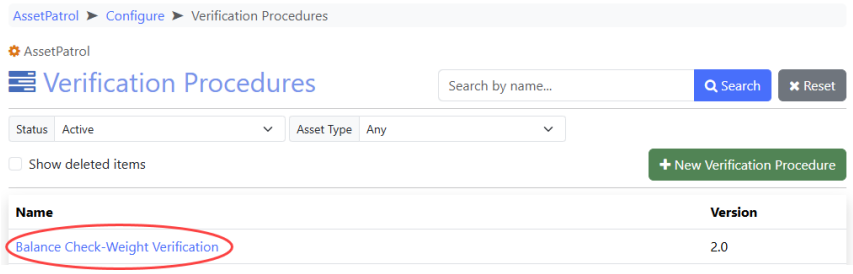
Note: Changing the verification procedure settings affects the asset types and assets that reference the procedure. For example, a change to the URL will be reflected in all asset types and assets that reference the procedure.

Delete a Verification Procedure

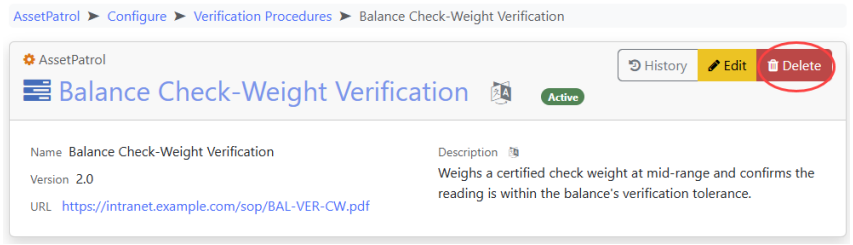
Deleting a verification procedure prevents the procedure from being used in searches, dropdowns, and filters. However, asset types and assets that reference the procedure will not be affected (they will continue to reference the procedure).

22. To delete an existing procedure, click on the desired **verification procedure** name from the Verification Procedures page.

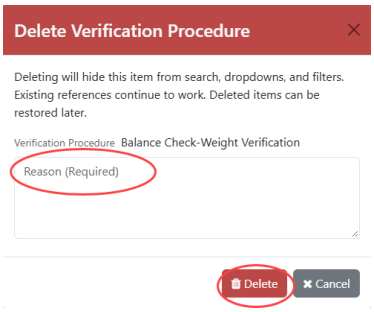
Copyright 2026 MAP America Inc.



a. Click on the **Delete** button.

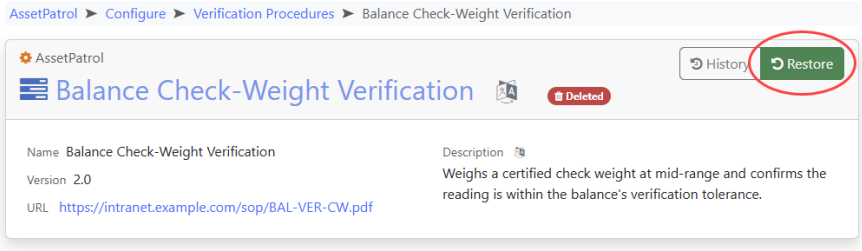


b. Enter the **Reason** for deleting the procedure and click the **Delete** button.



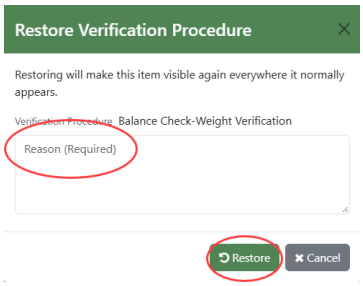
Restore a Verification Procedure

23. To restore a deleted procedure, click on the **Restore** button.



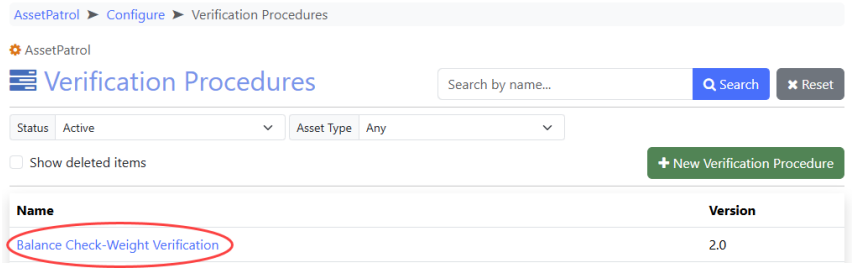
a. Enter the **Reason** for restoration and click the **Restore** button.

Copyright 2026 MAP America Inc.

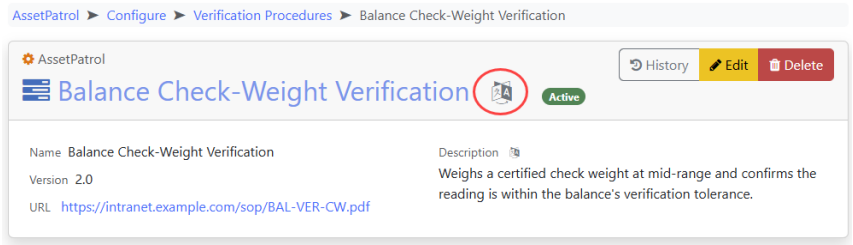


Localize a Verification Procedure

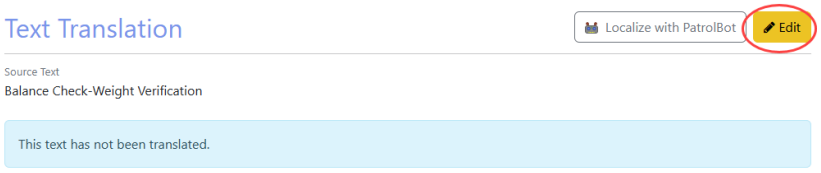
24. To manually translate the procedure Name into other languages, click on the desired **verification procedure** from the Verification Procedures page.



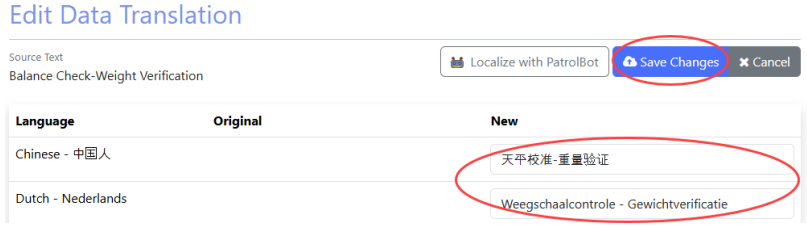
a. Click on the **Localization** icon.



b. Click the **Edit** button.



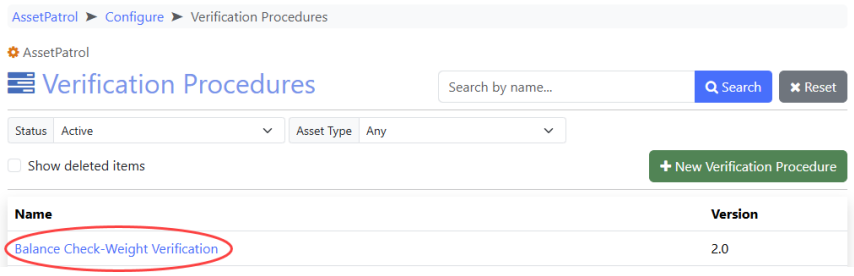
c. Enter the translations as appropriate and click the Save Changes button.



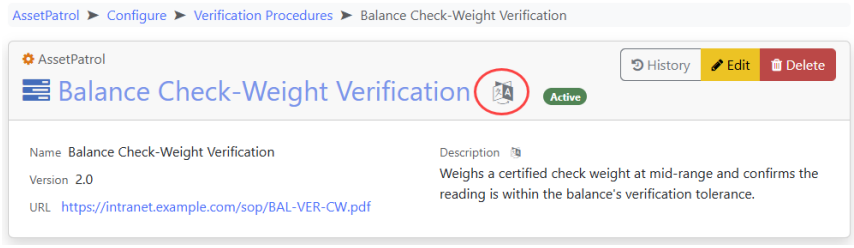
25. To use PatrolBot to translate the procedure Name into other languages, click on the desired

Copyright 2026 MAP America Inc.

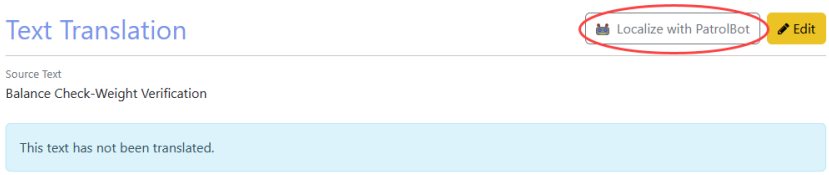
verification procedure from the Verification Procedures page.



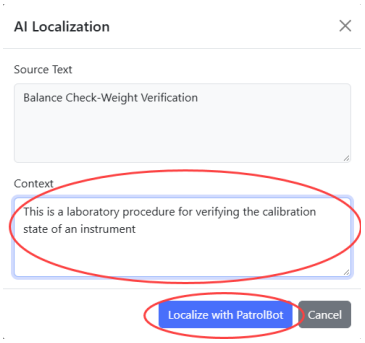
a. Click on the **Localization** icon.



b. Click the **Localize with PatrolBot** button.

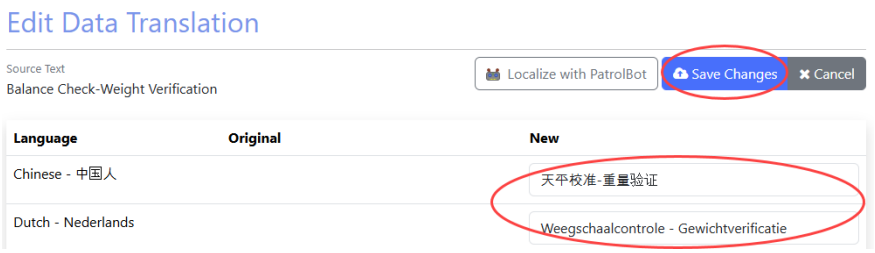


c. Enter any context that might help AI understand the context of what is being translated and click the **Localize with PatrolBot** button.



d. Review the translations. If accurate, click the **Save Changes** button. Otherwise click the **Cancel** button and perform the translations manually.

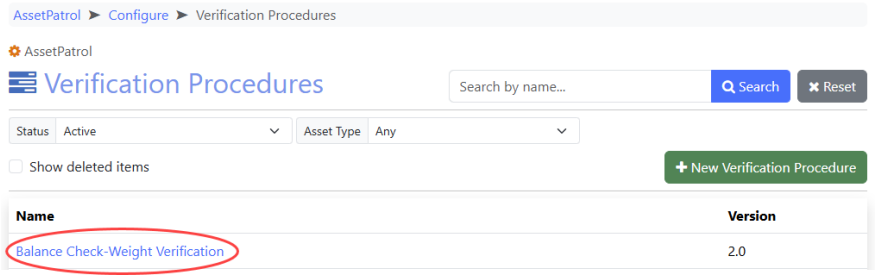
Copyright 2026 MAP America Inc.



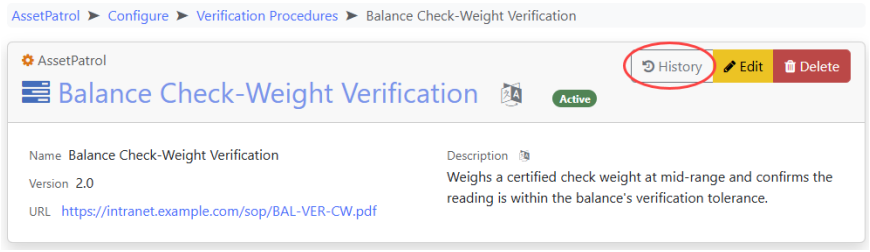
Verification Procedure History

History buttons appear only for users with the PatrolSuite **History View** permission.

26. To view the audit trail of changes to a verification procedure, click on the desired **verification procedure** from the Verification Procedures page.



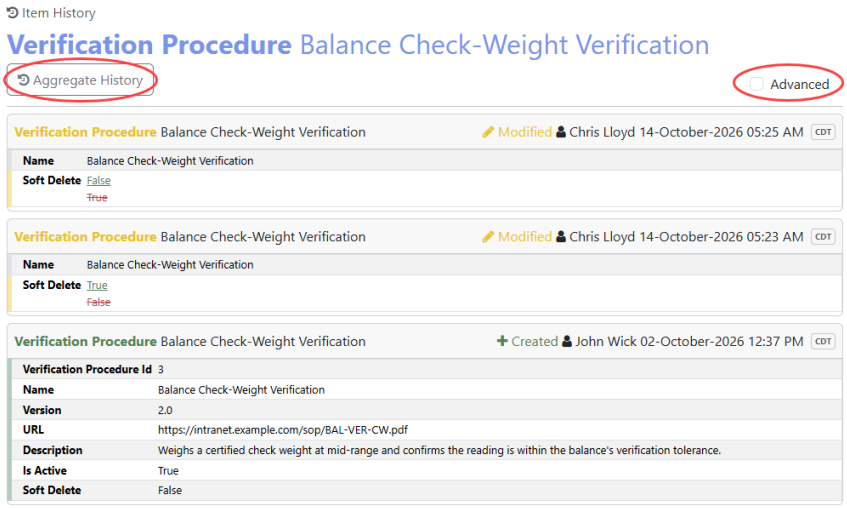
a. Click on the **History** button.



b. To view additional details, check the **Advanced** checkbox.

c. To view the aggregate history of changes, click the **Aggregate History** button.

Copyright 2026 MAP America Inc.



Copyright 2026 MAP America Inc.

Chapter 7: Configure - Asset Types

Introduction

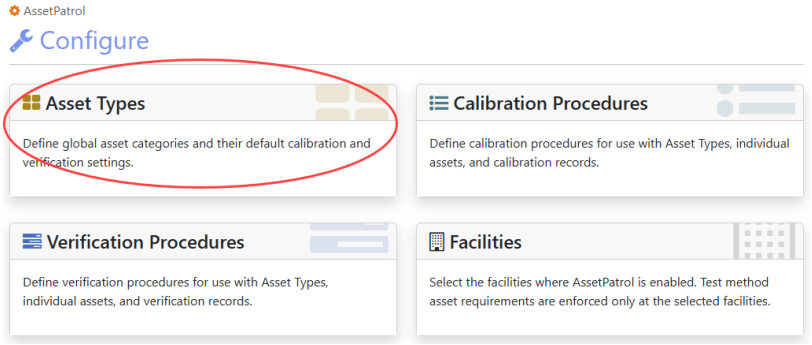
Measurement equipment is organized into logical groups (e.g. calipers, scales, thermometers, etc.) that share the same calibration defaults and settings ("**Asset Type**"). Creating asset types first makes adding the individual assets more efficient because each new asset inherits its asset type's settings.

Users with the **Asset Type Edit** permission can add, edit, delete and restore asset types.

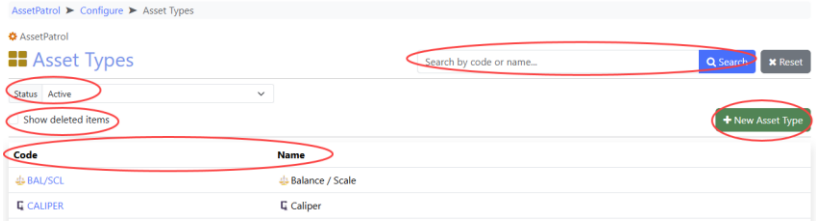
Page: *{PatrolSuite URL}/Asset/Setup/AssetTypes*

Search Asset Types

27. Locate the AssetPatrol card on the PatrolSuite homepage and click **Configure.** Then click **Asset Types**.



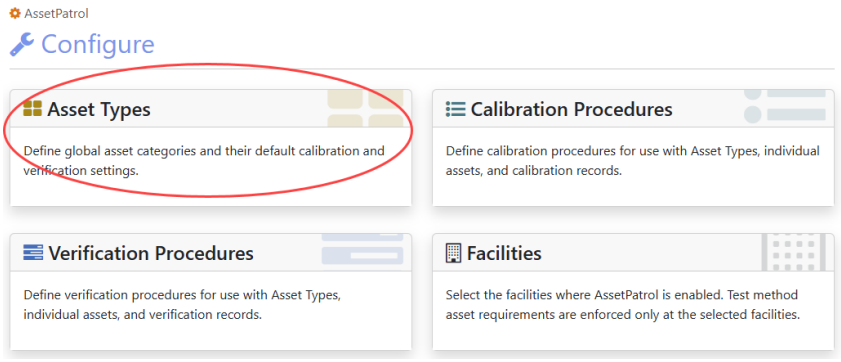
28. Find an asset type by entering a code or name into the **Search** field. Use the **Status** filter to filter the asset types (Active, Inactive or Any). Check the **Show Deleted Items** checkbox to display deleted asset types. Click on a **column header** to sort the asset types.



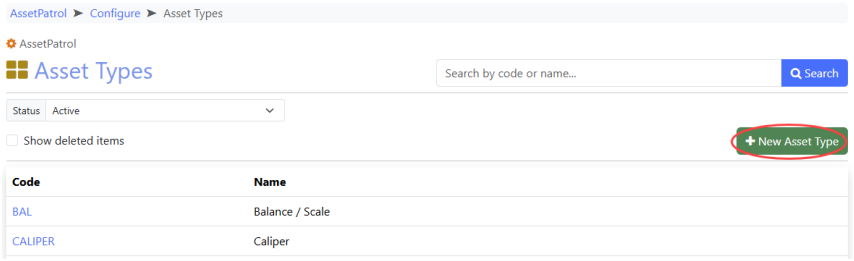
Add a New Asset Type

29. Locate the AssetPatrol card on the PatrolSuite homepage and click **Configure.** Then click **Asset Types**.

Copyright 2026 MAP America Inc.



30. Click the **New Asset Type** button.



31. Enter the asset type information and click **Save Changes**.

    a. **Active**. The default setting for a new asset type is Active. Uncheck this checkbox to make the new asset type inactive.

    b. **Code**. Enter a short identifier, unique across other asset type codes, used to identify the asset type. The code is often used to reference an asset type from a legacy system. For example: “SCALE” or “CALIPER.”

    c. **Name**. Enter a short, descriptive name used to identify the asset type. Asset type names need to be unique across other asset type names.

    Note: If a Code or Name already exists, then a warning that contains a hyperlink to open the existing asset type will appear.

    d. **Description**. Enter a description of the asset type.

    Default Calibration & Verification Settings

    a. **Prevent Use When Past Due**. When checked, QualityPatrol prevents test results measured using an asset with a Past Due calibration or verification from being saved. When unchecked, QualityPatrol displays a Past Due warning but allows the test result to be saved.

    b. **Frequency Value**. Enter how often assets of this type are due for calibration or verification, based on the selected Frequency Unit. For example, a Frequency of ‘6’ with a Frequency Unit of ‘Months’ establishes a six-month interval. New assets of this type inherit this value by default; it may be changed for an individual asset.

    c. **Frequency Unit**. Select the unit used to calculate the calibration or verification frequency: Days, Weeks, Months, or Years.

    Note: Frequency and Frequency Unit must either both be specified or both be left blank.

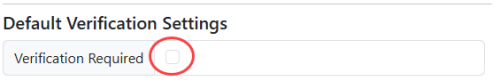
    d. **Due Soon Threshold**. Enter the number of days before the calibration or verification due date that the asset is identified as Due Soon. Leave blank to use the default value of 30 days.

Copyright 2026 MAP America Inc.

e. **Recalibration Past Due Threshold**. Enter the number of days following a calibration or verification failure within which the asset must be recalibrated before the recalibration is identified as Past Due. The default is 30 days. Changes to this value at the Asset Type level do not affect assets to which the value was previously assigned.

f. **External Calibration By.** If the asset is calibrated by an external service provider, select the Business Partner (supplier) that performs the calibration. If the asset is calibrated internally, select "None."

g. **Verification Required.** AssetPatrol assumes that assets entered therein require calibration. Check the 'Verification Required' checkbox if assets of this type also require periodic verification between calibrations. New assets of this type will inherit this setting by default, and it may be changed at the asset level. Changes to this setting at the Asset Type level do not affect assets to which the setting was previously assigned.



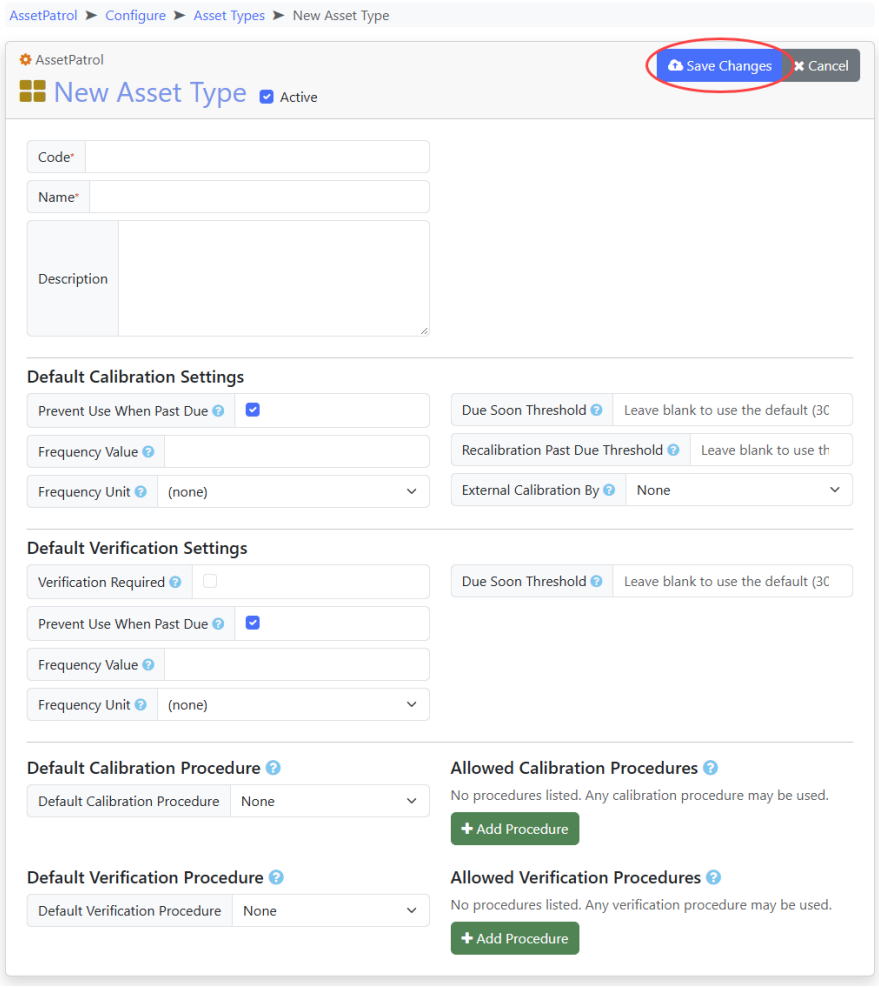
h. **Default Calibration Procedure.** Select the calibration procedure to be assigned when a new asset of this type is created. The assigned procedure may subsequently be changed at the asset level. If no default calibration procedure is selected, no procedure will be assigned to new assets.

i. **Allowed Calibration Procedures**. To restrict assets of this type to specific procedures, click the **Add Procedure** button and select one or more allowed procedures. If no procedures are specified, any applicable calibration procedure may be assigned to a new or existing asset of this type. Changes to the Asset Type's allowed calibration procedures do not affect assets for which a calibration procedure has already been assigned.

j. **Default Verification Procedure.** Select the verification procedure to be assigned when a new asset of this type is created. The assigned procedure may subsequently be changed at the asset level. If no default verification procedure is selected, no procedure will be assigned to new assets**.**

k. **Allowed Verification Procedures**. To restrict assets of this type to only certain verification procedures, click the **Add Procedure** button and select the procedures. If no procedures are specified, any applicable verification procedure may be assigned to a new or existing asset of this type. Changes to the Asset Type's allowed verification procedures do not affect assets for which a verification procedure has already been assigned.

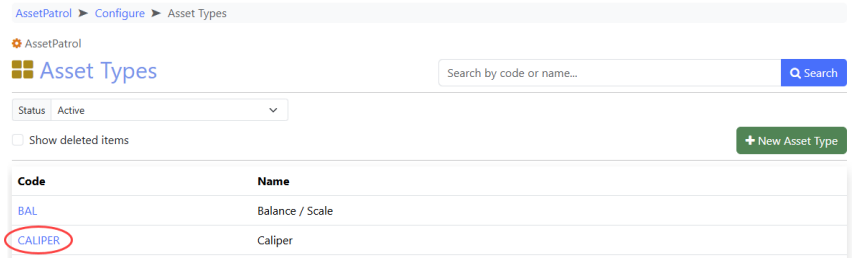
Copyright 2026 MAP America Inc.



Edit an Asset Type

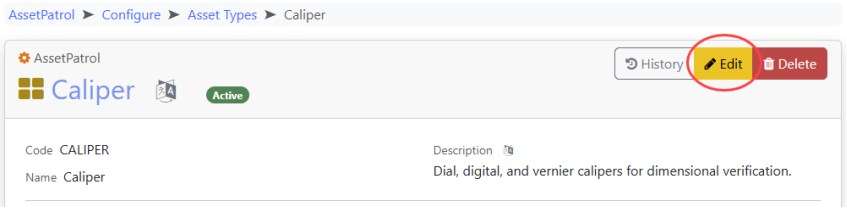
Asset Type settings are inherited by new assets at the time they are created. Subsequent changes to Asset Type settings do not affect existing asset settings.

32. To edit an existing asset type, click on the desired asset type from the Asset Types page.



a. Click on the Edit button.

Copyright 2026 MAP America Inc.

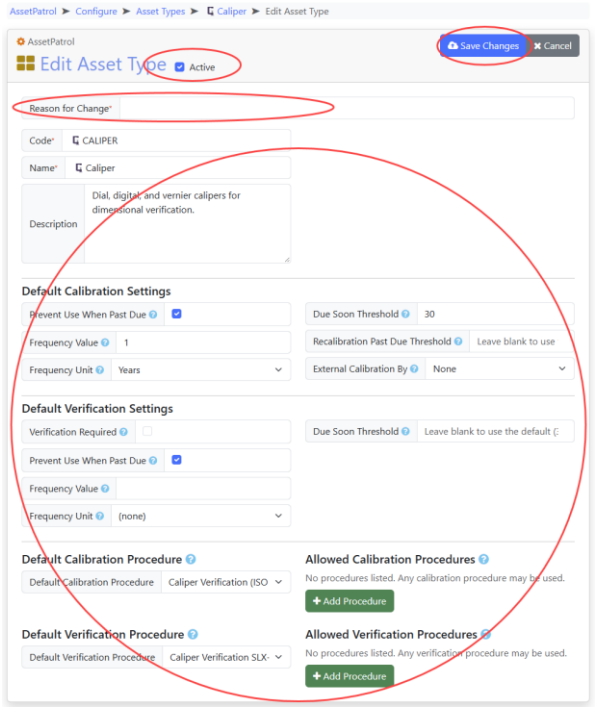


b. To deactivate the asset type, uncheck the **Active** checkbox.

c. Enter the **Reason for Change**.

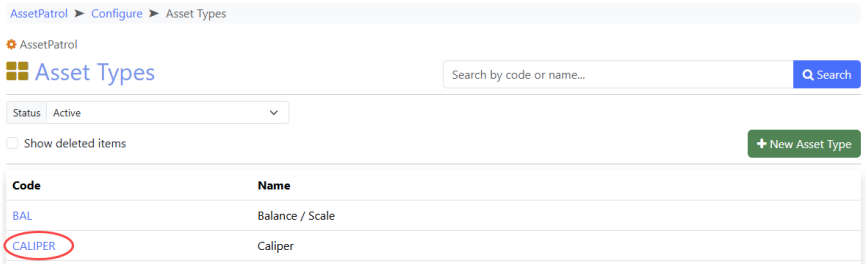
d. Change the other asset type settings as desired.

e. Click the **Save Changes** button.



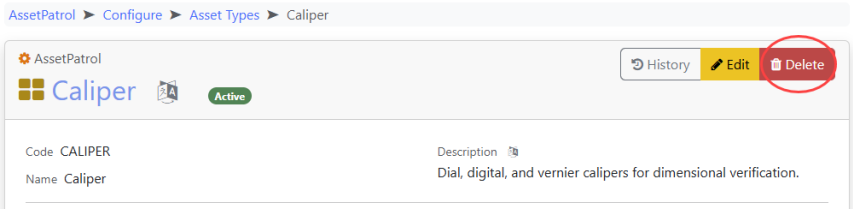
Delete and Restore an Asset Type

33. To delete an existing asset type, click on the desired **asset type** from the Asset Types page.

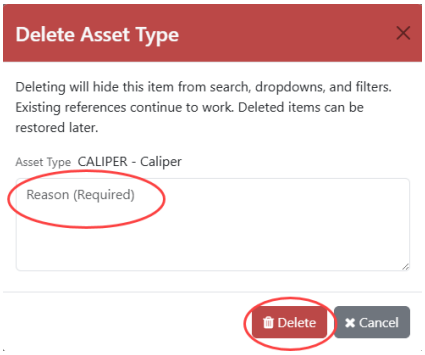


Copyright 2026 MAP America Inc.

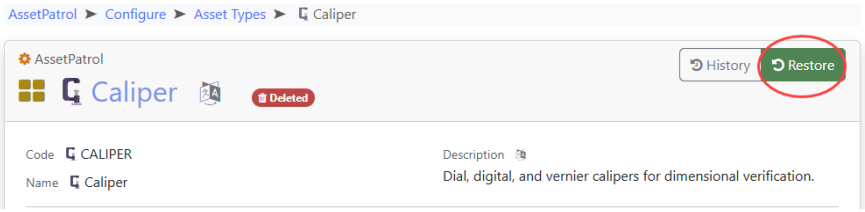
a. Click on the **Delete** button.



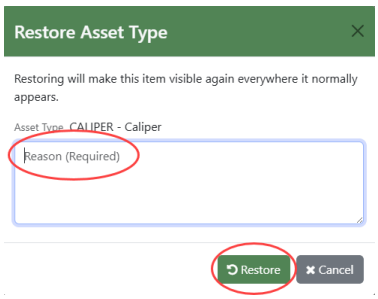
b. Enter the **Reason** for deleting the asset type and click the **Delete** button.



34. To restore a deleted asset type, click on the **Restore** button.



a. Enter the **Reason** for restoration and click the **Restore** button.

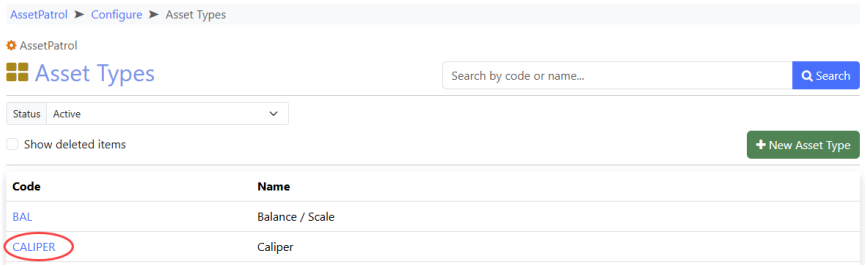


View the Audit Trail of Asset Type Changes

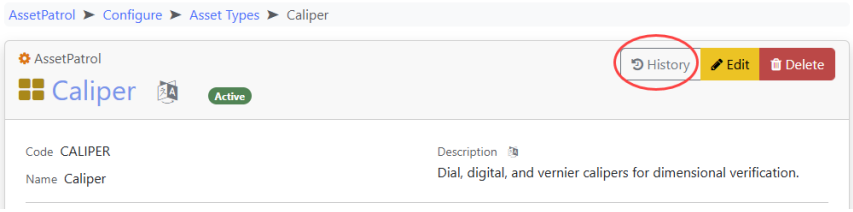
History buttons appear only for users with the PatrolSuite **History View** permission.

35. To view the audit trail of changes to an asset type's settings, click on the desired **asset type** from the Asset Types page.

Copyright 2026 MAP America Inc.

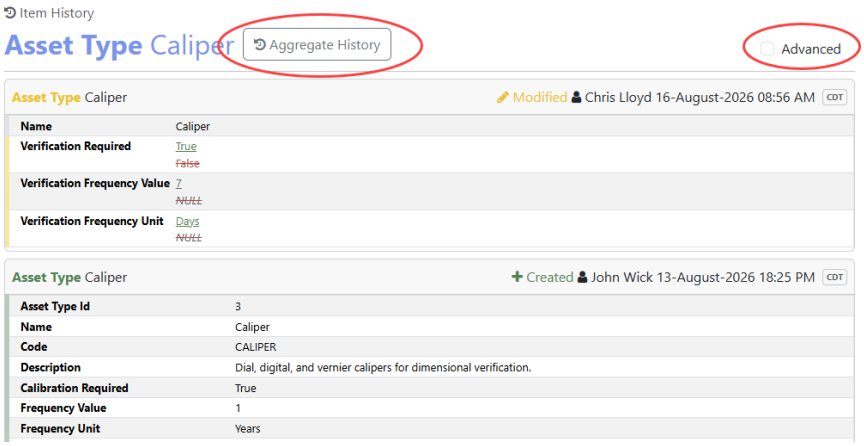


a. Click on the **History** button.



b. To view additional details, check the **Advanced** checkbox.

c. To view the aggregate history of changes, click the **Aggregate History** button.



Localize an Asset Type

36. See the “Localization” chapter at the end of this user guide for an example of the localization process, which can be used to translate user-entered data such as the asset type.

Copyright 2026 MAP America Inc.

Chapter 8: Assets

Introduction

An asset is a single, specific, individually identifiable instrument that is used to measure or monitor the manufacturing process (process parameters) or the product itself (product characteristics). Almost all functionality throughout AssetPatrol is related to an asset.

Note: AssetPatrol is designed to manage assets that require calibration. Assets that do not require calibration should not be entered into AssetPatrol.

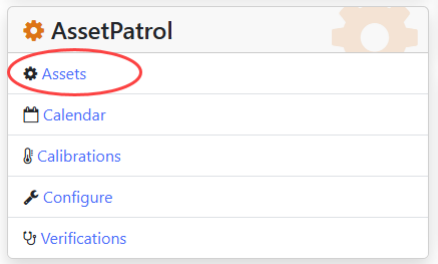
Users with the **Asset Edit** permission can create and edit assets.

Page: *{PatrolSuite URL}/Asset/Assets*

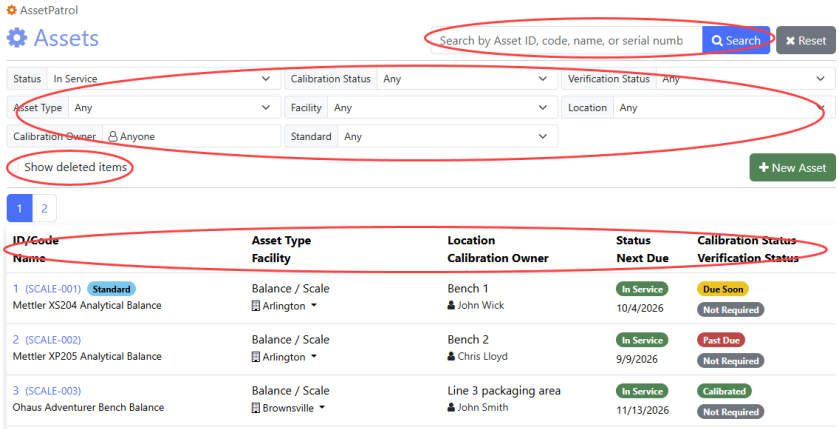
Search Assets

The Assets page is used to find an instrument and to review and manage its calibration and verification status.

37. To search for an asset, locate the AssetPatrol card on the PatrolSuite homepage and click **Assets.**



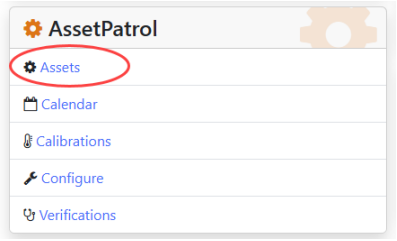
a. Find an asset by entering an asset ID, code, name, or serial number into the **Search** field. Use the filters to filter the assets as desired. Check the **Show Deleted Items** checkbox to display deleted assets. Click on the **column headers** to sort the assets.



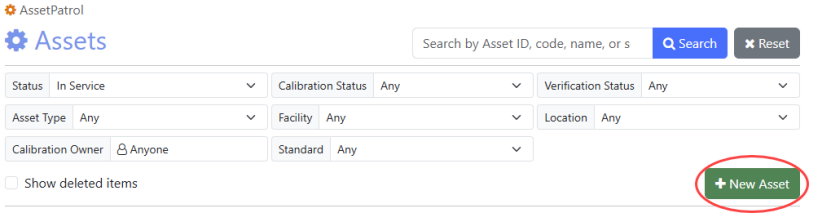
Copyright 2026 MAP America Inc.

Add a New Asset

38. To add a new asset, locate the AssetPatrol card on the PatrolSuite homepage and click **Assets.**



39. Click the **New Asset** button.



40. Enter the asset information.

    a. **Code**. Enter a short identifier, unique across all assets, used to identify the asset. The code is often used to reference the asset number from a legacy system. For example: “SCALE-002”

    b. **Name**. Enter a short, descriptive name used to identify the asset. Asset names do not need to be unique; multiple assets may have the same name. For example, multiple assets may be named “**Mettler XP205 Analytical Balance**.”

    Note: Click the **Auto-generate** button to automatically create the name using the information entered into the Manufacturer and Model fields.

    c. **Asset Type**. Select the applicable Asset Type. The asset’s calibration and verification settings are automatically populated using the defaults currently defined for the selected Asset Type.

    Note: Asset Type defaults may change over time. Click **Apply Defaults** to update the asset’s calibration and verification settings using the current defaults defined for its Asset Type.

    d. **Status**. Select the current operational status of the asset:

    - **Available for Use**: The asset is calibrated and available for use but is not currently in service.
    - **In Service:** The asset is currently in use.
    - **Out of Service:** The asset is temporarily unavailable for use but may be returned to service.
    - **Retired:** The asset has been removed from service.

    e. **Is a Standard**. Leave the checkbox unchecked if the asset is equipment used to perform measurements or monitoring. Check the checkbox if the asset is a controlled reference standard used to calibrate or verify other assets.

    Note: An asset with ‘Is a Standard’ checked can never require verification. If checked, then any Verification Settings will be removed from the page when saved.

    f. **Description**. Enter a description of the asset.

    g. **Facility**. Select the facility where the asset resides.

Copyright 2026 MAP America Inc.

h. **Location**. Enter the location within the facility where the asset resides. Location is a free-text field and may describe a specific bench, room, production line, area, or other locally recognized location.

i. **Test Location**. If the asset is located at a test location as defined in QualityPatrol, select the applicable Test Location.

j. **Calibration Owner**. Select the person responsible for ensuring the asset is calibrated. When calibration becomes due, the Calibration Owner is assigned a task to perform or coordinate the calibration. The Calibration Owner is typically a technician, maintenance person, or other individual responsible for equipment calibration.

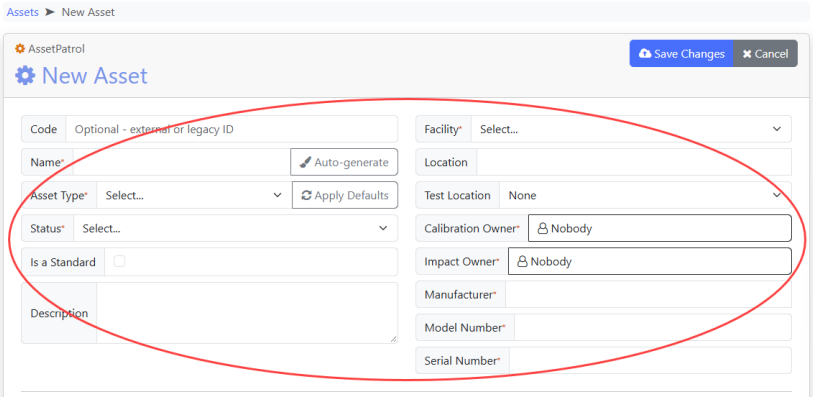
k. **Impact Owner**. Select the person responsible for assessing the impact of an out-of-calibration asset on affected test results and products. The Impact Owner is typically a quality engineer, quality manager, or other qualified individual authorized to evaluate product impact and make or coordinate product disposition and recall decisions.

Note: Be sure to choose **Calibration Owners** and **Impact Owners** who have access to the asset's facility.

l. **Manufacturer**. Enter the name of the company who made the asset.

m. **Model Number**. Enter the model number of the asset.

n. **Serial Number**. Enter the serial number of the asset. This number is typically assigned by the Manufacturer.



41. Review the Calibration and Verification Settings inherited from the Asset Type and make any necessary changes specific to the asset.

a. **Prevent Use When Past Due**. When checked, QualityPatrol prevents test results measured using an asset with a Past Due calibration or verification from being saved. When unchecked, QualityPatrol displays a Past Due warning but allows the test result to be saved.

b. **Frequency Value**. Enter how often the asset is due for calibration or verification, based on the selected Frequency Unit. For example, a Frequency of '6' with a Frequency Unit of 'Months' establishes a six-month interval.

Note: On an asset, the calibration Frequency Value and Frequency Unit are **always required**. The verification values are required when Verification Required is checked; otherwise they must be both set or both blank.

c. **Frequency Unit**. Select the unit used to calculate the calibration or verification frequency: Days, Weeks, Months, or Years.

Copyright 2026 MAP America Inc.

Note: Frequency Value and Frequency Unit must either both be specified or both be left blank.

d. **Due Soon Threshold**. Enter how many days ahead of the due date the asset is displayed as *Due Soon*. The default is 30 days.

e. **Recalibration Past Due Threshold**. Enter the number of days following a calibration or verification failure within which the asset must be recalibrated before the recalibration is identified as Past Due. The default is 30 days.

f. **Calibration Procedure.** Select the calibration procedure used to calibrate the asset.

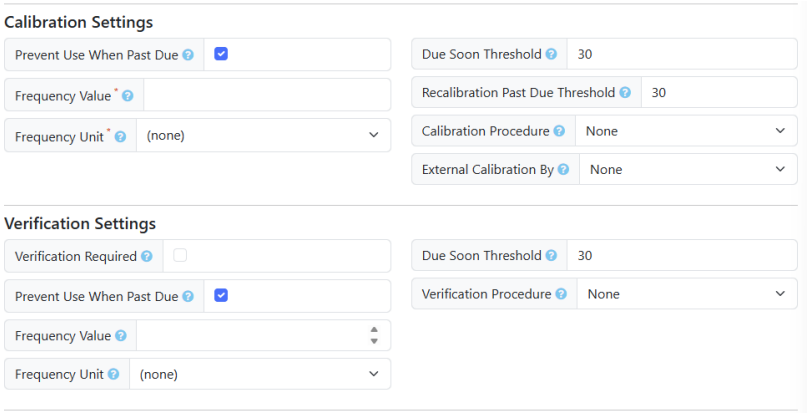
g. **External Calibration By**. If the asset is calibrated by an external service provider, select the Business Partner (supplier) that performs the calibration. If the asset is calibrated internally, select 'None.'

h. **Verification Required**. Check the 'Verification Required' checkbox if the asset requires periodic verification between calibrations.

Note: When Verification Required is checked, the verification Frequency Value and Frequency Unit are required, and at least one verification standard must be listed (see Verification Standards below).

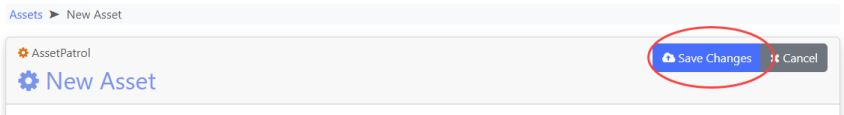
i. **Verification Procedure.** Select the procedure used to verify the asset is performing within established acceptance criteria.

Note: If no verification procedure is selected, users will not be able to record the procedure actually used.



42. Click the **Save Changes** button.

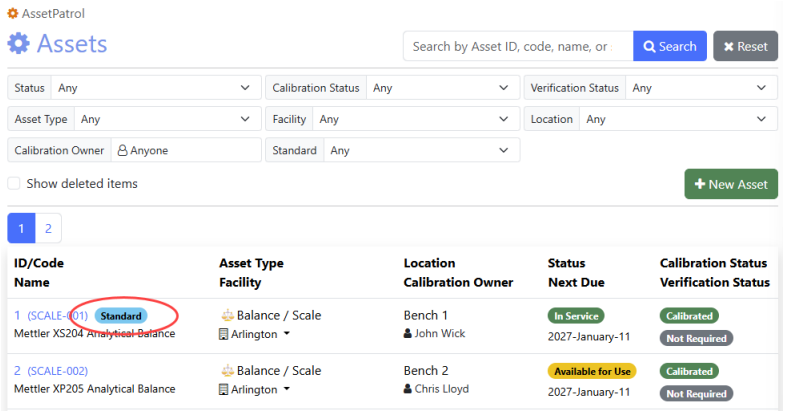
Note: AssetPatrol automatically assigns a unique **Asset Number** when an asset is created.



Verification Standards

A verification standard is a controlled reference material or device with known characteristics used to calibrate or verify the calibration status of another asset. In AssetPatrol, a verification standard is an asset with **'Is a Standard'** selected. Verification standards are identified by the **Standard** label on the Assets search page.

Copyright 2026 MAP America Inc.

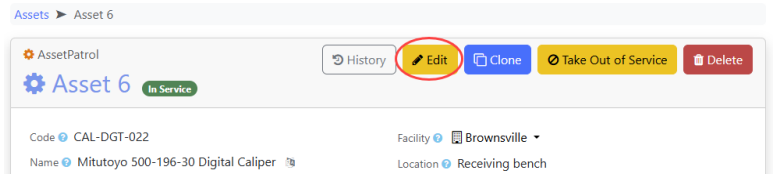


43. To add a verification standard to AssetPatrol, follow the steps in the preceding **Add a New Asset** section and select '**Is a Standard**' for each asset that is a verification standard.

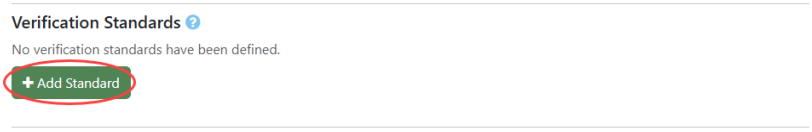
44. To identify the verification standard(s) used to calibrate or verify an asset, locate the desired asset on the Assets search page and click on the **asset ID/Code** to open the asset.



a. Click on the asset **Edit** button.

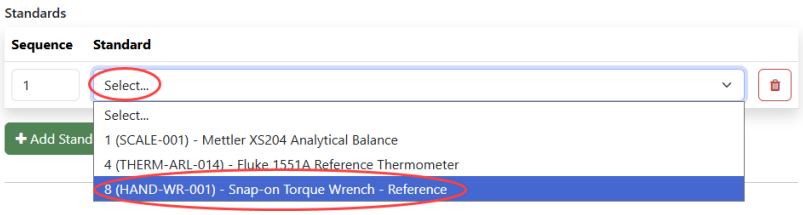


b. Click the **Add Standard** button.

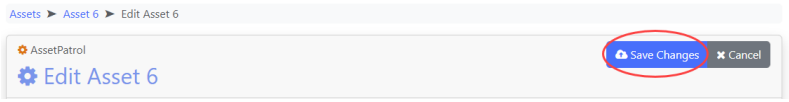


c. Click into the Select dropdown, select the desired standard.

Note: The Verification Standard dropdown displays only verification standards assigned to the same facility as the asset. If the dropdown is empty, no verification standards have been defined for that facility. The dropdown also omits retired and deleted standards, the asset itself, and any standard already listed on the asset.



d. Click the **Save Changes** button.



Test Points

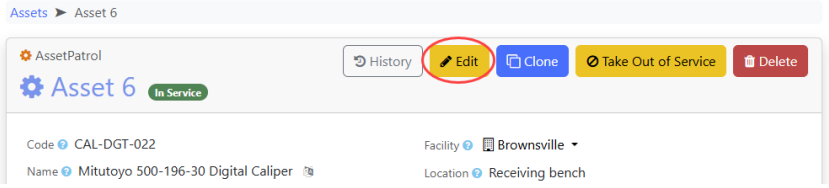
Test Points define an ordered list of defined measurement points and associated specifications used to evaluate an asset during calibration or verification. For example, test points for a balance might include a **100g Check** and a **1000g Check**.

Note: Test points are not required. For assets without defined test points, the overall result (**Pass** or **Fail**) is recorded instead of individual test point measurements.

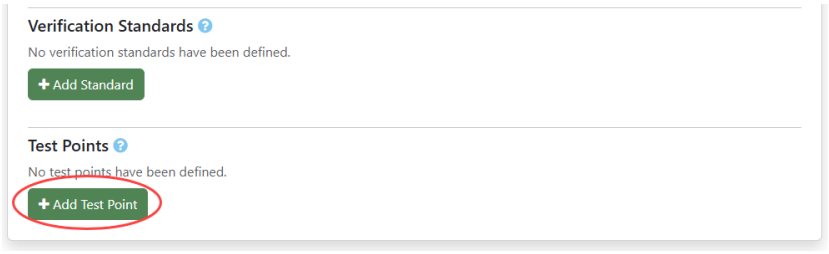
45. To define the Test Points used to evaluate an asset during calibration or verification, locate the desired asset on the Assets search page and click on the **asset ID/Code** to open the asset.



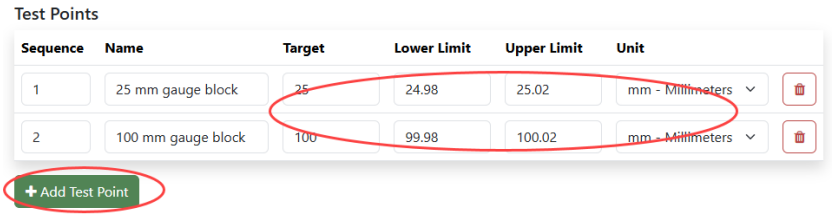
a. Click on the asset **Edit** button.



b. Click the **Add Test Point** button.



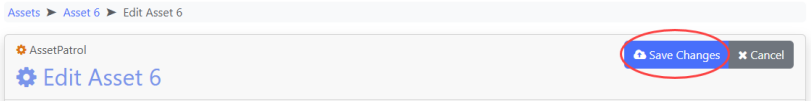
c. Enter the test point name, target, spec limits, and units of measure.



d. To add additional test points, click **Add Test Point** for each additional test point.

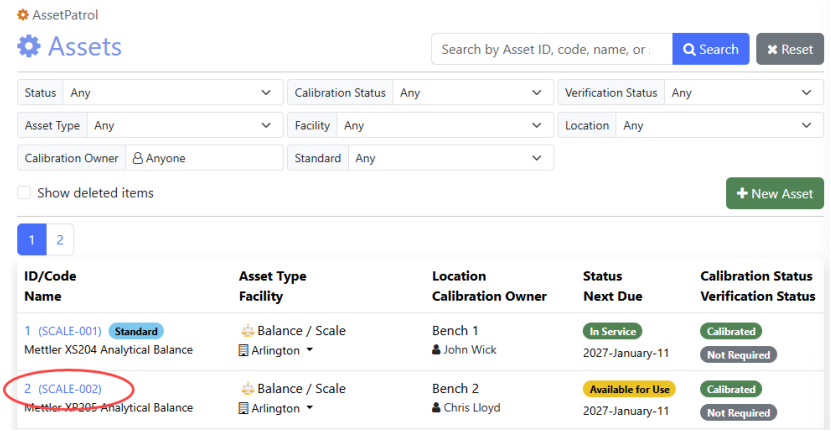
e. Click the Save Changes button.

Copyright 2026 MAP America Inc.

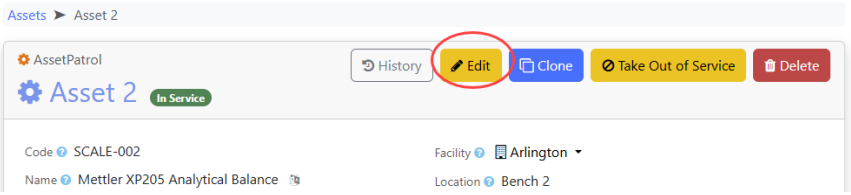


Asset Edit

46. To edit an asset, locate the desired asset on the Assets search page and click on the **asset ID/Code** to open the asset**.**



47. Click the Edit button.



48. Review the asset information and make any necessary changes.

    a. **Reason for Change**. Record the reason for the changes to the asset.

    b. **Code**. Enter a short identifier, unique across all assets, used to identify the asset. The code is often used to reference the asset number from a legacy system. For example: “SCALE-002.”

    c. **Name**. Enter a short, descriptive name used to identify the asset. Asset names do not need to be unique; multiple assets may have the same name. For example, multiple assets may be named “**Mettler XP205 Analytical Balance**.”

    Note: Click the **Auto-generate** button to automatically create the name using the information entered into the Manufacturer and Model fields.

    d. **Asset Type**. Select the applicable Asset Type. The asset’s calibration and verification settings are automatically populated using the defaults currently defined for the selected Asset Type.

    Note: Asset Type defaults may change over time. Click **Apply Defaults** to update the asset’s calibration and verification settings using the current defaults defined for its Asset Type.

    e. **Status**. Select the current operational status of the asset:

Copyright 2026 MAP America Inc.

- **Available for Use**: The asset is calibrated and available for use but is not currently in service.
- **In Service:** The asset is currently in use.
- **Out of Service:** The asset is temporarily unavailable for use but may be returned to service.
- **Retired:** The asset has been permanently removed from service.

f. **Is a Standard**. Leave the checkbox unchecked if the asset is equipment used to perform measurements or monitoring. Check the checkbox if the asset is a controlled reference standard used to calibrate or verify other assets.

g. **Description**. Enter a description of the asset.

h. **Facility**. Select the facility where the asset resides.

i. **Location**. Enter the location within the facility where the asset resides. Location is a free-text field and may describe a specific bench, room, production line, area, or other locally recognized location.

j. **Test Location**. If the asset is located at a test location as defined in QualityPatrol, select the applicable Test Location.

k. **Calibration Owner**. Select the person responsible for ensuring the asset is calibrated. When calibration becomes due, the Calibration Owner is assigned a task to perform or coordinate the calibration. The Calibration Owner is typically a technician, maintenance person, or other individual responsible for equipment calibration.

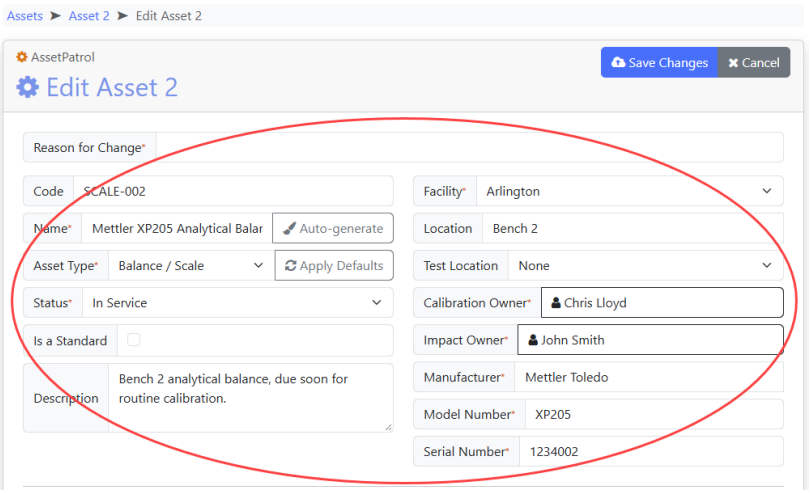
l. **Impact Owner**. Select the person responsible for assessing the impact of an out-of-calibration asset on affected test results and products. The Impact Owner is typically a quality engineer, quality manager, or other qualified individual authorized to evaluate product impact and make or coordinate product disposition and recall decisions.

Note: **Calibration Owner** and **Impact Owner** are both required because the roles have different responsibilities. Be sure to choose owners who have access to the asset's facility.

m. **Manufacturer**. Enter the name of the company who made the asset.

n. **Model Number**. Enter the model number of the asset.

o. **Serial Number**. Enter the serial number of the asset. This number is typically assigned by the Manufacturer.



49. Review the Calibration and Verification Settings and make any necessary changes.

Copyright 2026 MAP America Inc.

a. **Prevent Use When Past Due**. When checked, QualityPatrol prevents test results measured using an asset with a Past Due calibration or verification from being saved. When unchecked, QualityPatrol displays a Past Due warning but allows the test result to be saved.

b. **Frequency Value**. Enter how often the asset is due for calibration or verification, based on the selected Frequency Unit. For example, a Frequency of '6' with a Frequency Unit of 'Months' establishes a six-month interval.

   Note: On an asset, the calibration Frequency Value and Frequency Unit are always required. The verification values are required when Verification Required is checked; otherwise they must be both set or both blank.

c. **Frequency Unit**. Select the unit used to calculate the calibration or verification frequency: Days, Weeks, Months, or Years.

   Note: Frequency Value and Frequency Unit must either both be specified or both be left blank.

   Note: For an asset that has already been calibrated, the form shows the resulting due date below the frequency fields as they are changed. For example: "Next Calibration Due will be 1/11/2027." If that date has already passed, the form also displays "The selected date is in the past. Saving will immediately mark the asset as Past Due."

d. **Due Soon Threshold**. Enter how many days ahead of the due date the asset is displayed as *Due Soon*. If this value is defined at the applicable asset type, then it will be populated from the applicable asset type. If not defined at the asset type, then it will be populated with the default of 30 days.

e. **Recalibration Past Due Threshold**. Enter the number of days following a calibration or verification failure within which the asset must be recalibrated before the recalibration is identified as Past Due. If this value is defined at the applicable asset type, then it will be populated from the applicable asset type. If not defined at the asset type, then it will be populated with the default of 30 days.

f. **Calibration Procedure.** Select the calibration procedure used to calibrate the asset.

   Note: If no calibration procedure is selected, users will not be able to record the procedure actually used. Only users with the AssetPatrol Admin permission can select a different procedure on a calibration record (see Calibrate an Asset in Chapter 10).

g. **External Calibration By**. If the asset is calibrated by an external service provider, select the Business Partner (supplier) that performs the calibration. If the asset is calibrated internally, select 'None.'

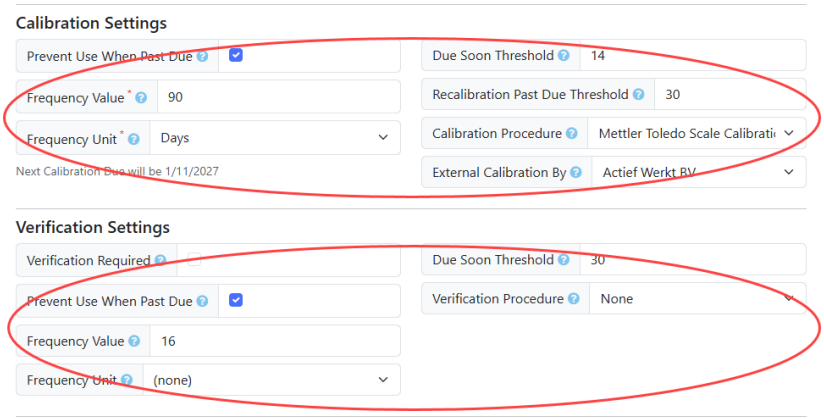
h. **Verification Required**. Check the 'Verification Required' checkbox if the asset requires periodic verification between calibrations.

   Note: When Verification Required is checked, the verification Frequency Value and Frequency Unit are required, and at least one verification standard must be listed in the Verification Standards section of the asset.

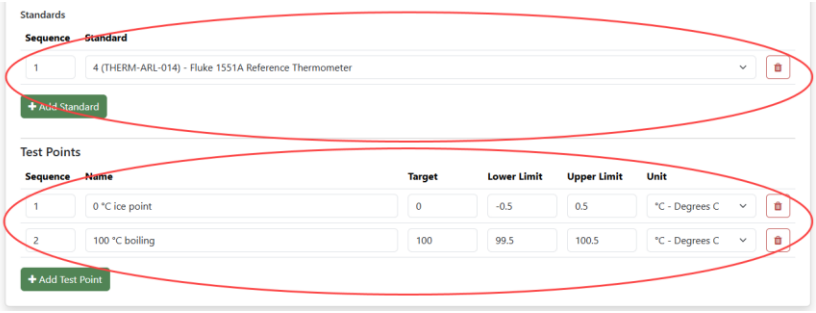
i. **Verification Procedure.** Select the procedure used to verify the asset is performing within established acceptance criteria.

   Note: If no verification procedure is selected, users will not be able to record the procedure actually used. Only users with the AssetPatrol Admin permission can record a different procedure on a verification record (see Verify an Asset in Chapter 12).

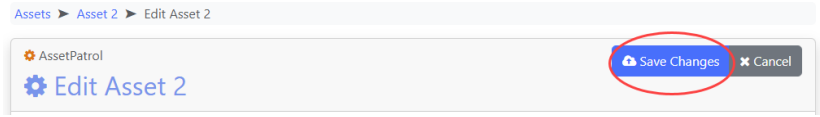
Copyright 2026 MAP America Inc.



50. Review the Standards and Test Points and make any necessary changes.



51. Click the **Save Changes** button.



Asset Clone

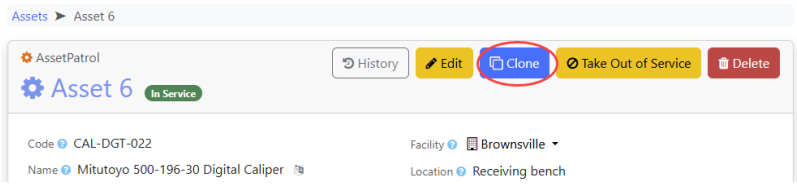
The Clone feature can be used to quickly create a new asset based on an existing asset. The new asset inherits the settings, verification standards, and test points from the source asset, but the Code, Name and Serial Number are left blank for the user to define.

52. To clone an asset, locate the desired asset on the Assets search page and click on the **asset ID/Code** to open the asset.

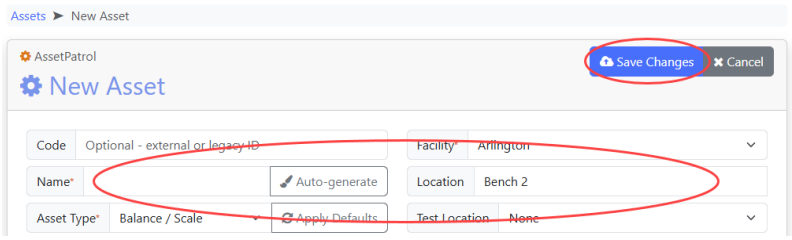


a. Click the **Clone** button.

Copyright 2026 MAP America Inc.



b. Enter the Code, Name and Serial Number, and change the asset settings, the verification standards, and the test points as desired, and click the **Save Changes** button.



Note: Clicking the **Cancel** button returns to the source asset without creating anything.

Asset Out of Service

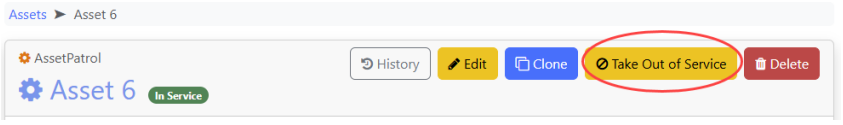
An asset should be taken **Out of Service** whenever it should not be available for use, regardless of its current calibration status. This may include assets that are damaged, malfunctioning, suspected of producing inaccurate measurements, awaiting calibration or repair, past their calibration or verification due date, or otherwise unsuitable for their intended use.

Note: Assets should be taken out of service immediately before recalibration.

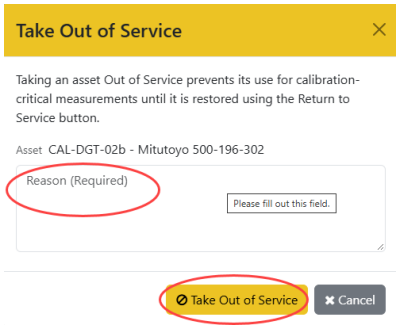
53. To take an asset out of service, locate the desired asset on the Assets search page and click on the **asset ID/Code** to open the asset.



a. Click the **Take Out of Service** button.



b. Enter the reason for removing the asset from service and click the **Take Out of Service** button.



Copyright 2026 MAP America Inc.

Note: Assets marked out of service are identified as such in the Asset Search page.

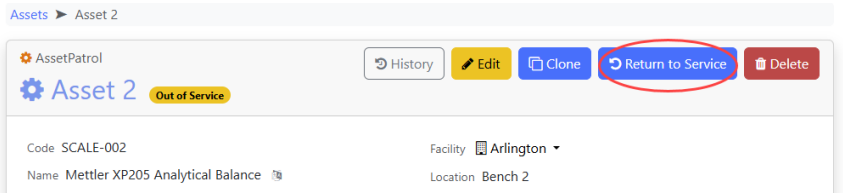


Asset Return to Service

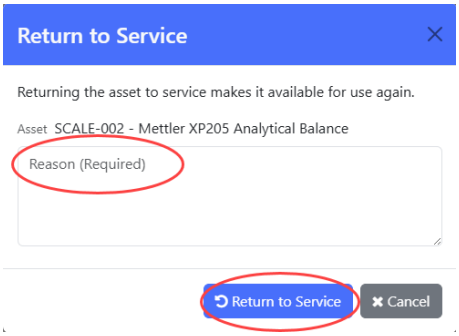
54. To place an asset back into service, locate the desired asset on the Assets search page and click on the **asset ID/Code** to open the asset.



a. Click the **Return to Service** button.



b. Enter the reason for placing the asset into service and click the **Return to Service** button.



Asset Retirement

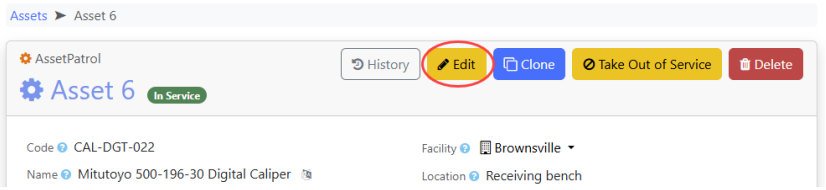
An asset should be retired when it is permanently removed from service and will no longer be available for use. Retiring an asset prevents the asset from being selected or used for calibration-critical measurements unless it is subsequently un-retired.

55. To retire an asset, locate the desired asset on the Assets search page and click on the **asset ID/Code** to open the asset.

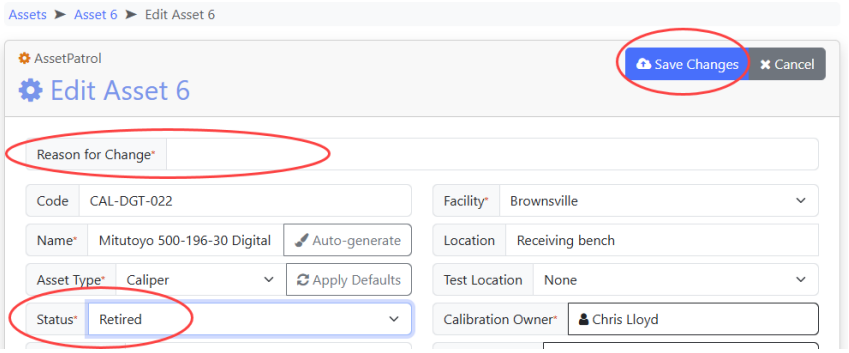
Copyright 2026 MAP America Inc.



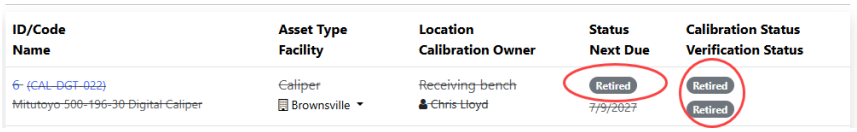
a. Click on the asset **Edit** button.



b. Change the Status to **Retired**, document the **reason for the change**, and click the **Save Changes** button.



Note: Retired assets are identified as such in the Asset Search page.

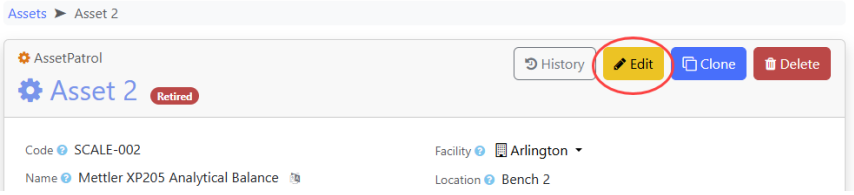


Asset Unretirement

56. To un-retire an asset, locate the desired asset on the Assets search page and click on the **asset ID/Code** to open the asset.

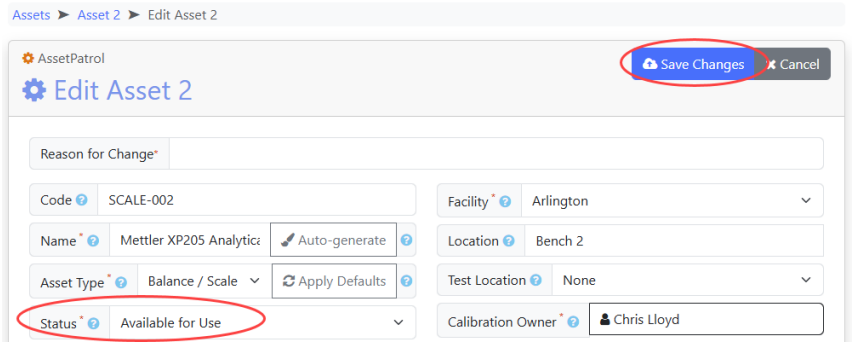


a. Click on the asset's **Edit** button.



b. Select a status other than "Retired," document the **reason for the status change**, and click the

Save Changes button.



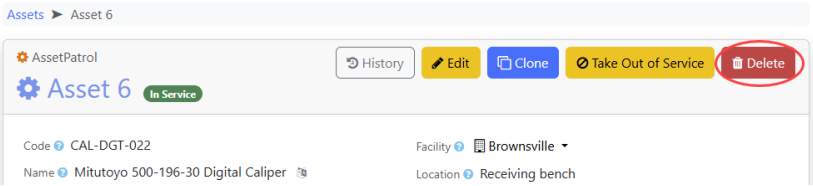
Asset Delete

Deleting an asset will hide it from searches, dropdowns, and filters, and it will prevent the asset from being selected or used for calibration-critical measurements. Deleting an asset will not affect existing references to the asset. Deleted assets can be restored later.

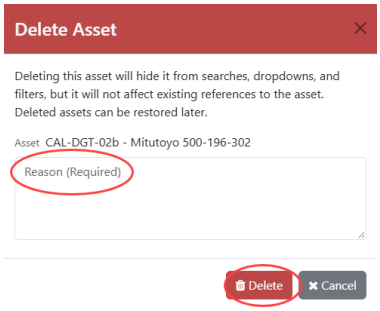
57. To delete an asset, locate the desired asset on the Assets search page and click on the **asset ID/Code** to open the asset.



a. Click on the asset's **Delete** button.

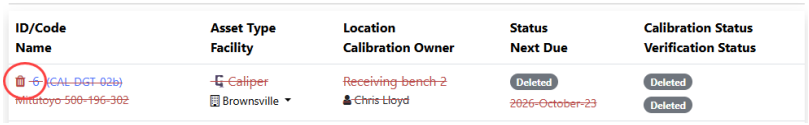


b. Enter the reason for deleting the asset and click the **Delete** button.



Note: Deleted assets are identified as such in the Asset Search page and in the asset header.

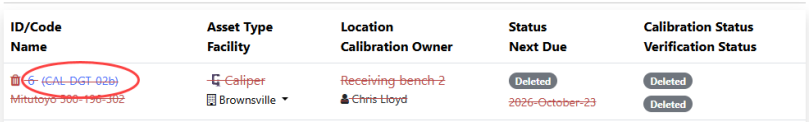
Copyright 2026 MAP America Inc.



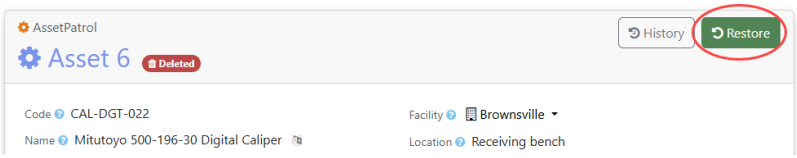
Asset Restoration

Restoring a deleted asset will make it available again in searches, dropdowns, filters, and other applicable areas of AssetPatrol.

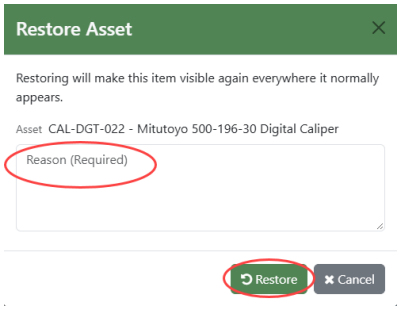
58. To restore a deleted asset, locate the desired asset on the Assets search page and click on the **asset ID/Code** to open the asset.



a. Click on the **Restore** button.



b. Document the **reason for restoration** and click the **Restore** button.

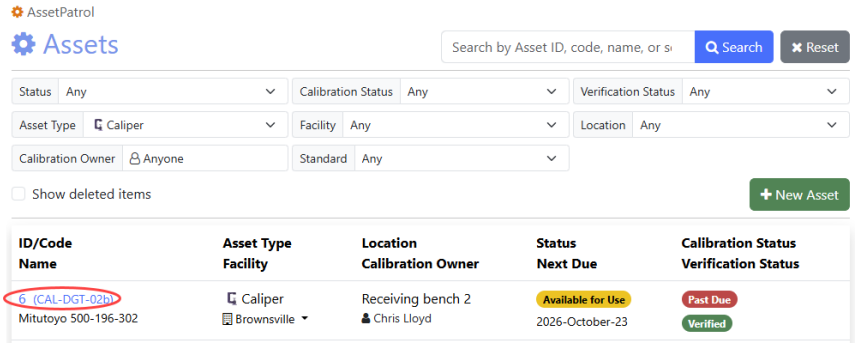


Asset History

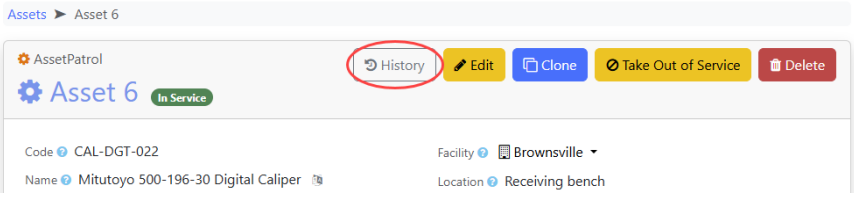
History buttons appear only for users with the PatrolSuite **History View** permission.

59. To view the audit trail of changes to an asset, locate the desired asset on the Assets search page and click on the **asset ID/Code** to open the asset.

Copyright 2026 MAP America Inc.

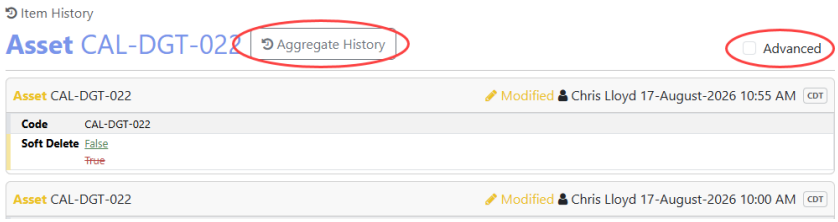


a. Click on the **History** button.



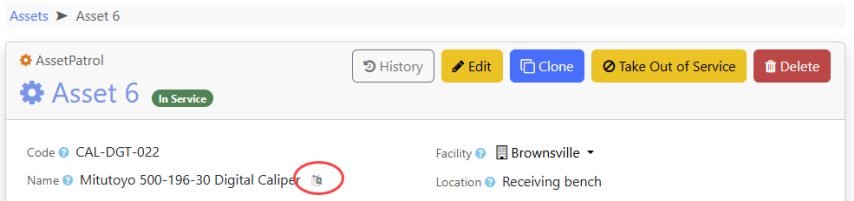
b. To view additional details, check the **Advanced** checkbox.

c. To view the aggregate history of changes, click the **Aggregate History** button.



Localize an Asset Name

60. Click on the localization icon next to the asset name. See the “Localization” chapter at the end of this user guide for an example of the localization process, which can be used to translate user-entered data such as the asset name.



Copyright 2026 MAP America Inc.

Chapter 9: Asset Calendar

Introduction

The AssetPatrol Calendar page provides a calendar view of scheduled calibration and verification tasks. It is a read-only reflection of the due dates based on the calculated calibration and verification intervals defined in each asset.

Note: If facility-access security is being used, then the calendar is automatically filtered to show only those assets that are associated with a user's facility.

Page: *{PatrolSuite URL}/Asset/Calendar*

Calendar Overview

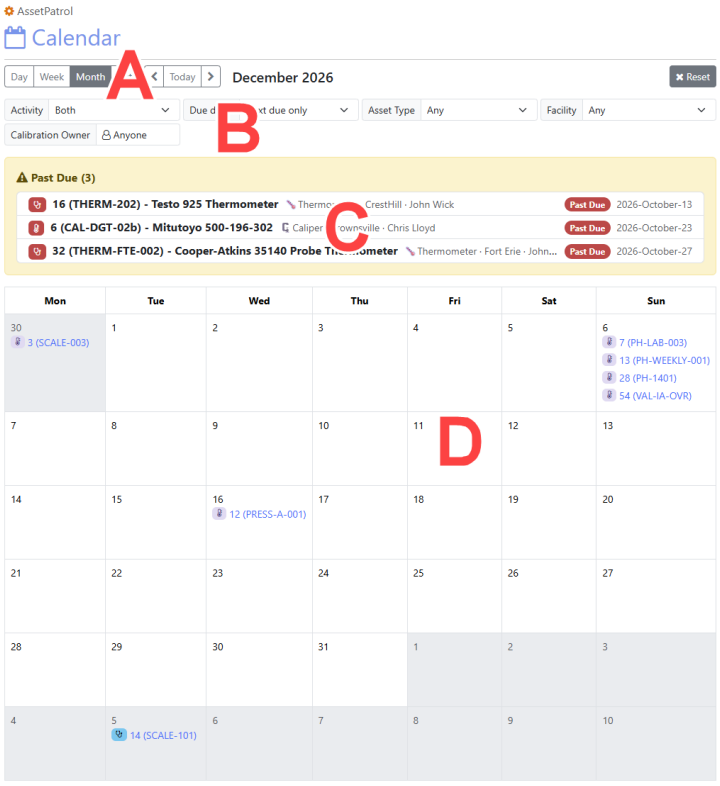
The Calendar page is organized into four sections.

A. The **view buttons**. Use these to change the view style and date ranges. Click **Today** to return to the current period. Click **List** to see the tasks in a list instead of a calendar.

B. The **filters**. Use the filters to see only specific tasks. Click the **Reset** button to clear the filters.

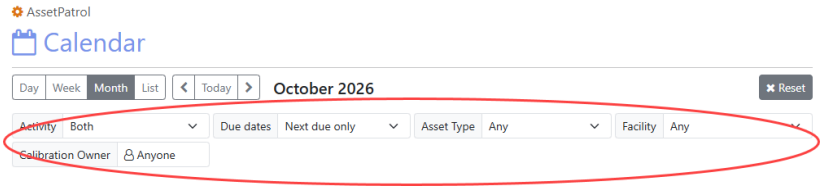
C. The **Past Due legend**. Highlights all assets with past due tasks. Click on the task to open the asset.

D. The **calendar** itself. Click on the task to open the asset.



Copyright 2026 MAP America Inc.

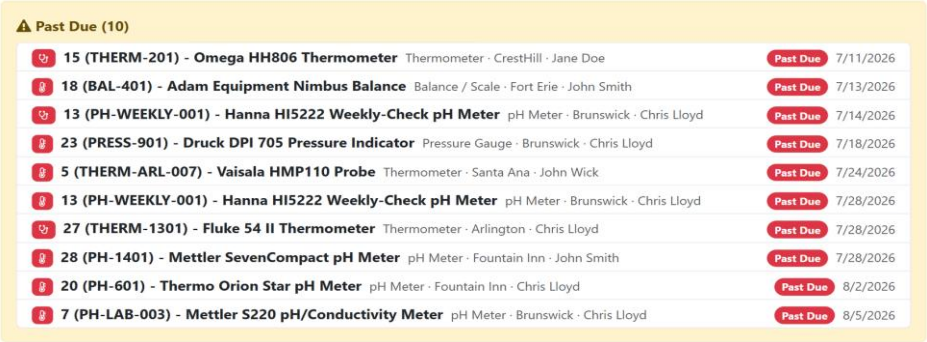
Filters



Filter	What it does
Activity	Show only *Calibration*, or only *Verification*, or Both
Due dates	*Next due only* shows each asset's next due task. *All upcoming dates* shows all upcoming dates.
Asset Type	Limit the tasks to a single asset type or show any asset types.
Facility	Limit the tasks to a single facility or show any facilities.
Calibration Owner	Limit the tasks to a single user or show any users. Select yourself to see only those calibration or verification tasks assigned to you.

Past Due

The **Past Due** card highlights all assets with past due tasks. The most overdue task is shown at the top of the list. The filters also filter the contents of the Past Due card. Click on the task to open the asset.



Calendar Key

Each calendar item reflects one asset and one due date (collectively a "task"). Click the task to open the asset.

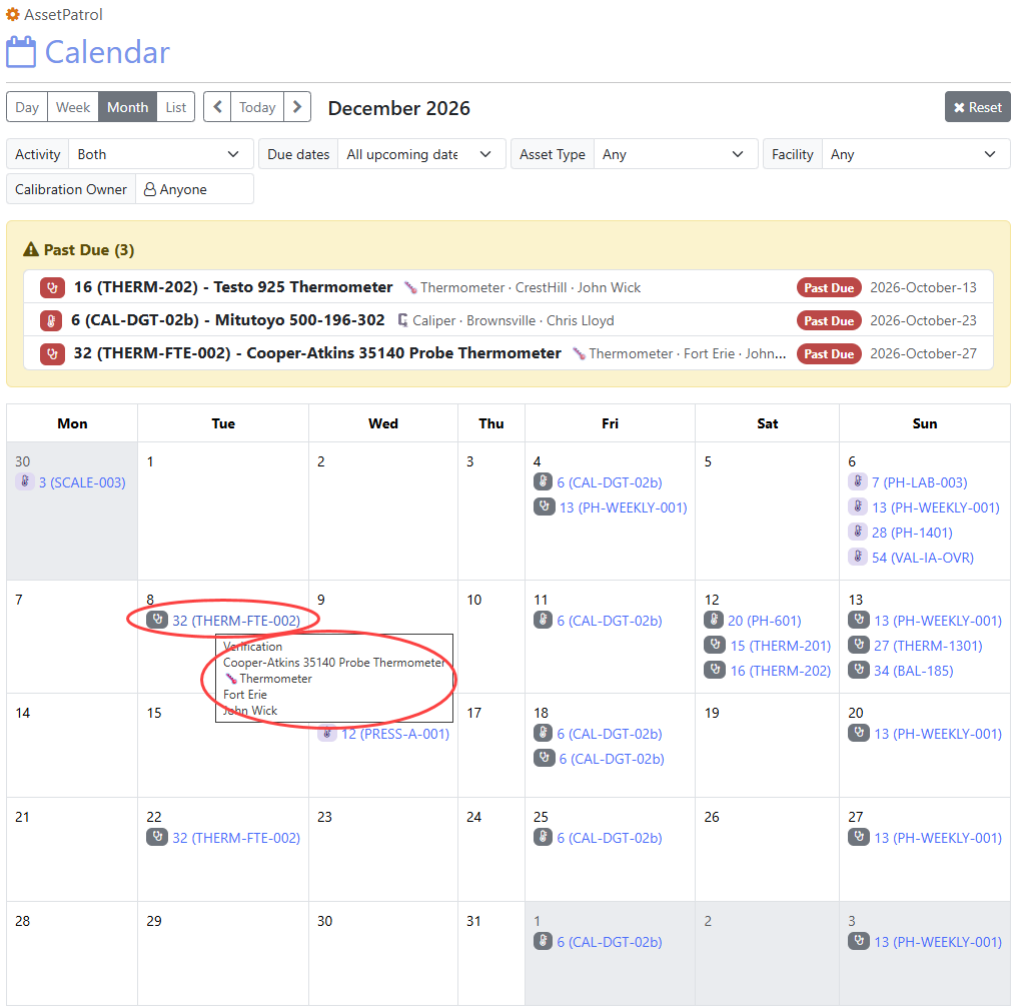
Calibration and verification tasks are shown with different icons, and the icon color reflects the type of due date:

Copyright 2026 MAP America Inc.

Color	Meaning
Red	A calibration or verification task that is past due.
Purple	The next calibration task due for the asset.
Teal	The next verification task due for the asset.
Grey	A future calibration or verification task scheduled for the asset after its *next* scheduled task. These tasks appear only when the **Due dates** filter is set to **All upcoming dates**.

Calendar Task Preview

Hold the cursor over a calendar task to see a preview of that task. Click on the task to open the asset.



Chapter 10: Asset Calibration

Introduction

Calibration is the process of comparing an instrument's measurement results against a known reference standard with established accuracy and traceability to determine whether the instrument is performing within specified tolerances. Calibration establishes the instrument's measurement accuracy at the time of testing and identifies any deviation from the expected values.

If the instrument is found outside the allowable tolerance, or off target, then the calibration event typically includes adjusting the instrument so that it produces an acceptable measurement or reading.

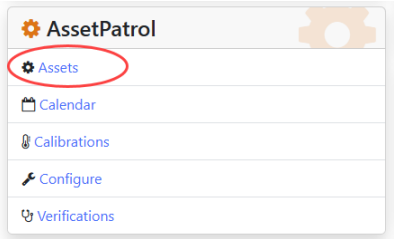
Users with the **Calibration Record Edit** permission can create and edit calibration records.

Users with the **Calibration Record Void** permission can void a calibration which makes the record no longer a valid record of calibration for the asset. Voided calibration records are not deleted and remain in the system as part of the asset's audit trail.

Page: *{PatrolSuite URL}/Asset/Calibrations*

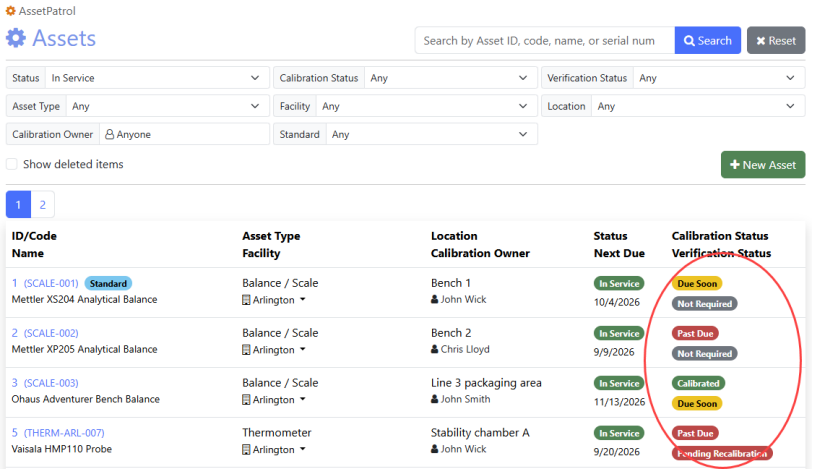
Asset Calibration Status

61. To view the calibration status of an asset, click on the **Assets** hyperlink in the AssetPatrol card.



The **Assets** page will open. The right column displays the asset's current **Calibration** and **Verification** status. Calibration and verification are tracked independently, so an asset may have different statuses for each. The meaning of each status is defined in the table below.

Copyright 2026 MAP America Inc.



Calibration Status	Verification Status	Meaning
Calibrated	Verified	The requirement has been successfully completed, and the asset is not yet within its **Due Soon** threshold.
Due Soon	Due Soon	The requirement has been successfully completed, but the next due date falls within the **Due Soon** threshold defined for the asset.
Past Due	Past Due	The due date has passed. Whether the asset may continue to be used depends on its settings.
Not Calibrated	Not Verified	The requirement applies to the asset but has not yet been successfully completed.
Pending Recalibration	Pending Recalibration	The most recent calibration or verification failed. The asset requires recalibration and cannot be used until calibration is successfully completed.
-	Not Required	The asset does not require verification.

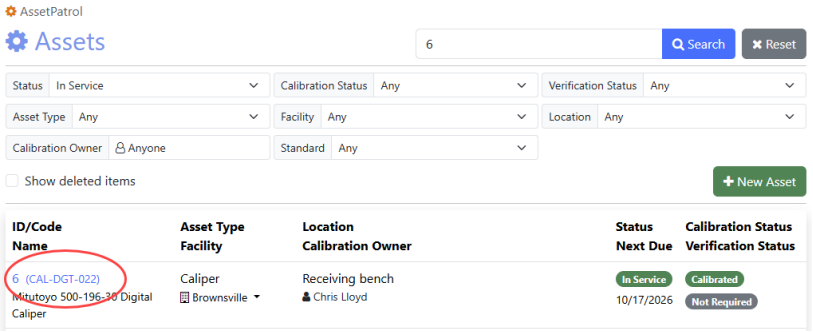
Note: A failed verification sets both the Calibration and Verification statuses to **Pending Recalibration**.

Calibrate an Asset

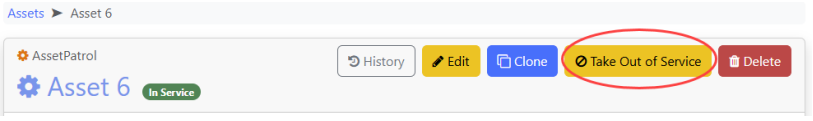
All assets that are used for quality-critical measurements should be calibrated before the asset is placed into service and periodically on an appropriate schedule thereafter.

62. To calibrate an asset, locate the desired asset on the Assets search page and click on the **asset ID/Code** to open the asset.

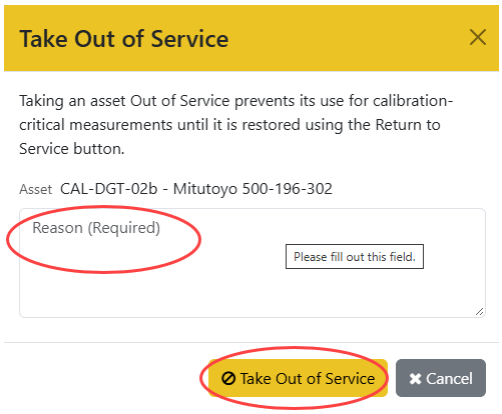
Copyright 2026 MAP America Inc.



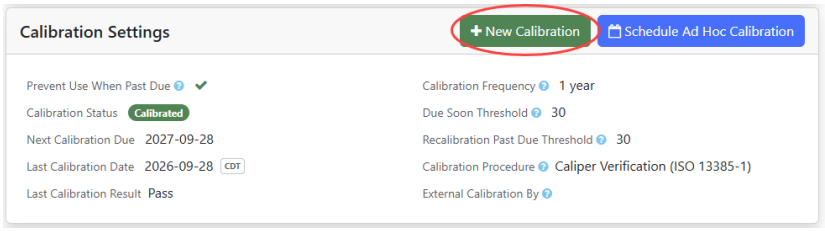
63. Click the **Take Out of Service** button to indicate that the asset is no longer in service. This will prevent using the asset to record test results in QualityPatrol.



a. Enter the reason for out of service (e.g. “Being calibrated”) and click the **Take Out of Service** button.



64. On the Calibration Settings card, click the **New Calibration** button.



65. Record the calibration information and click **Save Changes**.

a. **Date Calibrated**. This will be auto populated with the current date/time. If the asset was calibrated before the current time, then click into the Date Calibrated date and time cells and edit to reflect the actual date/time the calibration was performed. The date cannot be in the future.

b. **As Found Result.** Indicates whether the asset met its calibration requirements (**Pass** or **Fail**) in its condition as found, before any calibration adjustments were made.

- If the asset does not have calibration Test Points, select Pass or Fail.

Copyright 2026 MAP America Inc.

- If the asset has calibration Test Points, the As Found Result is automatically determined from the test point values entered.

Note: An As Found failure triggers an impact warning. The asset's Impact Owner reviews the warning and decides whether an impact assessment is required.

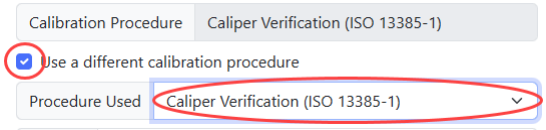
c. **After Calibration Result**. Indicates whether the asset met its calibration requirements (**Pass** or **Fail**) after calibration adjustments were made.

- If the asset does not have calibration Test Points, select Pass or Fail.
- If the asset has calibration Test Points, the After Calibration Result is automatically determined from the test point values entered.

d. **Notes**. Enter any additional information relevant to the calibration.

e. **Calibration Procedure**. If the asset has a pre-defined calibration procedure, then it is displayed here for reference.

f. **Use a different calibration procedure**. This option will appear only for users with the AssetPatrol Admin permission. Check the checkbox if the calibration was performed using a different procedure and then select the procedure that was used. The procedure dropdown will appear only if there is another procedure to choose (based on the Allowed Calibration Procedures list defined in the Asset Type).



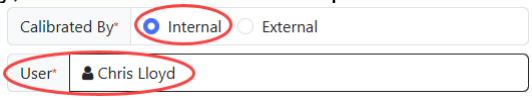
g. **Reason**. If the calibration was performed using a procedure other than the one predefined for the asset, then enter the reason a different procedure was used.

h. **Procedure Version**. Enter the version of the procedure used to perform the calibration.

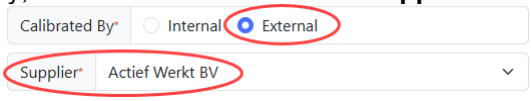
i. **Certificate Number**. If the calibration was performed by an external service provider, enter the calibration certificate number provided by the service provider.

j. **Calibrated By**. Select the radio button to indicate whether the calibration was performed **Internally** or **Externally** (by an external service provider).

- If performed Internally, then select the **User** who performed the calibration.



- If performed Externally, then select the name of the **Supplier** who performed the calibration.

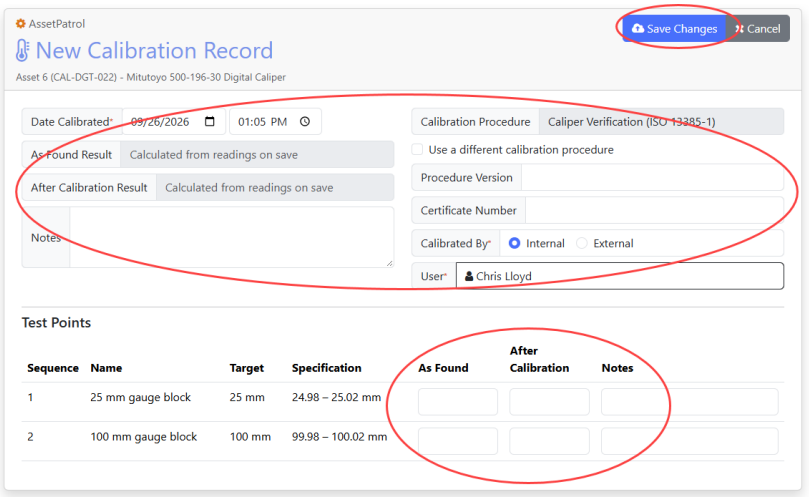


k. **Test Points As Found** and **After Calibration**. Enter the As Found and After Calibration values for each calibration Test Point. The target value and applicable specification limits are displayed for reference, making it clear whether each recorded value is within tolerance.

l. **Test Points Notes**. Enter any relevant information regarding the recalibration results.

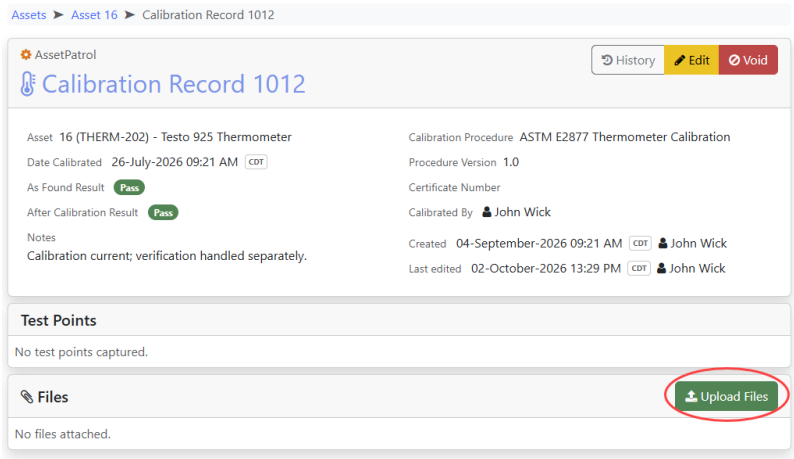
m. Click the **Save Changes** button.

Copyright 2026 MAP America Inc.

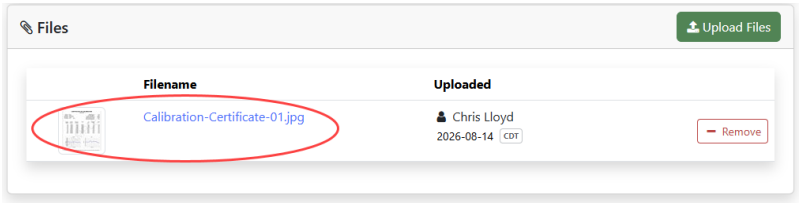


Note: When a successful (**Pass**) calibration record is saved, AssetPatrol automatically calculates the asset's next calibration due date based on its defined calibration frequency.

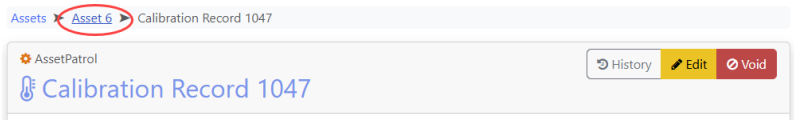
66. The saved calibration record will be displayed. To attach related files, such as a calibration certificate provided by an external service provider, click the **Upload Files** button.



a. Select the desired file from your computer and click the **Open** button. The file will be displayed in the Files frame.

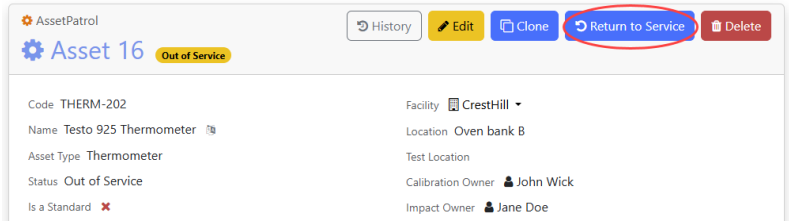


67. Click on the Asset in the breadcrumb menu to return to the asset.

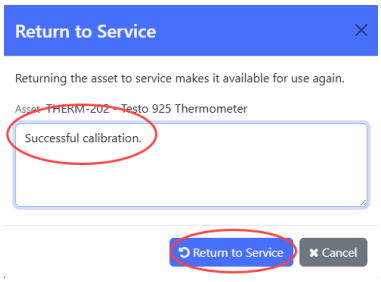


Copyright 2026 MAP America Inc.

68. Click the **Return to Service** button.



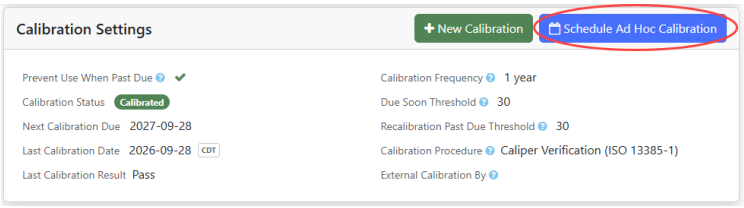
a. Enter the reason for the return to service and click the **Return to Service** button.



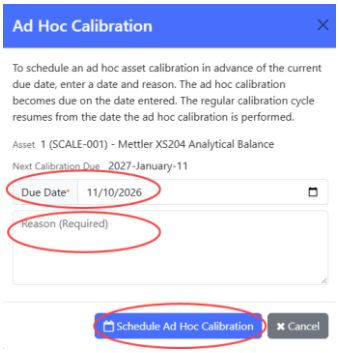
Schedule Ad Hoc Calibration

The Next Calibration Due Date is automatically calculated based on the most recent calibration date and the Calibration Frequency defined for the asset.

69. To schedule an ad hoc calibration prior to the Next Calibration Due Date, open the asset and click on the **Schedule Ad Hoc Calibration** button.



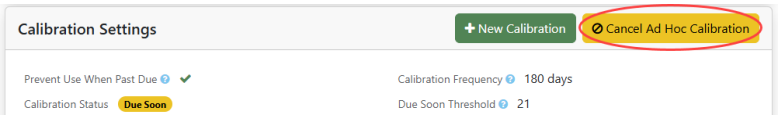
a. Enter the **Due Date**, the **Reason** for scheduling the ad hoc calibration, and click the **Schedule Ad Hoc Calibration** button. The calibration task becomes due on the date entered, and the regular calibration cycle resumes from the date the ad hoc calibration is performed.



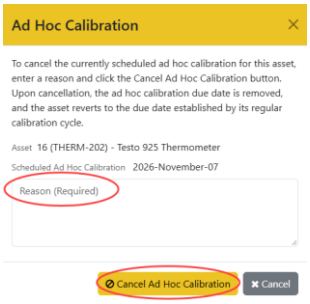
Copyright 2026 MAP America Inc.

Cancel an Ad Hoc Calibration

70. To cancel a previously scheduled ad hoc calibration, open the asset and click on the **Cancel Ad Hoc Calibration** button.



a. Enter the reason for the cancellation and click the **Cancel Ad Hoc Calibration** button.



Copyright 2026 MAP America Inc.

Chapter 11: Asset Calibration Records

Introduction

Calibration is the process of comparing an instrument's measurement results against a known reference standard with established accuracy and traceability to determine whether the instrument is performing within specified tolerances. Asset calibration records document the findings of the calibration event.

Users with the **Calibration Record Edit** permission can create and edit calibration records.

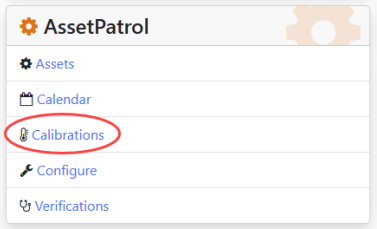
Users with the **Calibration Record Void** permission can void a calibration which makes the record no longer a valid record of calibration for the asset. Voided calibration records are not deleted and remain in the system as part of the asset's audit trail.

Page: *{PatrolSuite URL}/Asset/Calibrations*

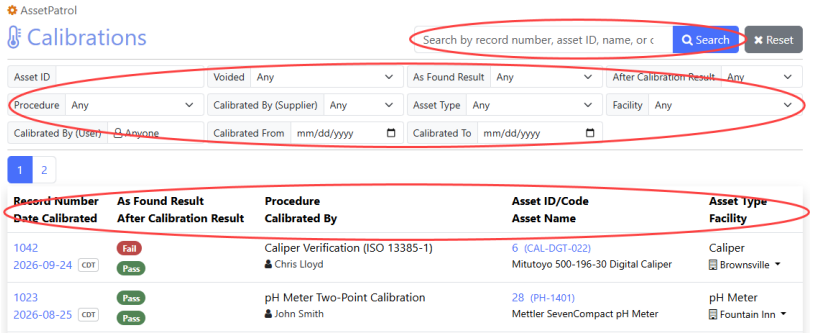
Calibration Records Search

The Calibrations page displays all **completed** calibration records for all assets.

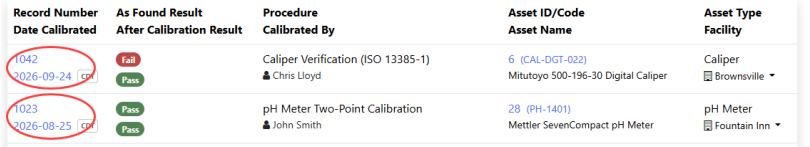
71. To search for a calibration record, locate the AssetPatrol card on the PatrolSuite homepage and click **Calibrations**.



a. To locate a calibration record of interest, enter an asset ID, name, or a record number into the Search field, or use the filters, or click on the column headers.

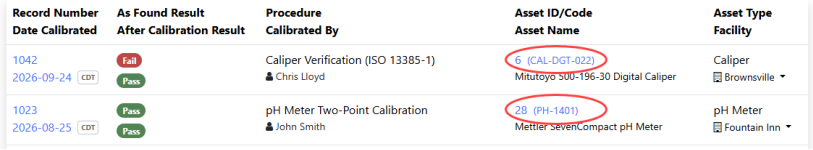


b. To open a calibration record, click on the desired calibration **record number/date**.

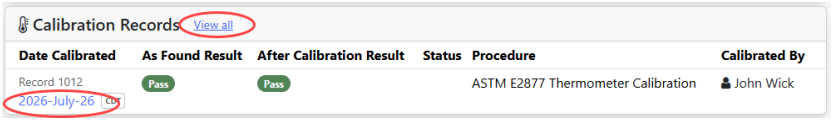


Copyright 2026 MAP America Inc.

72. Alternatively, click on the **asset ID/Code** to open the asset.



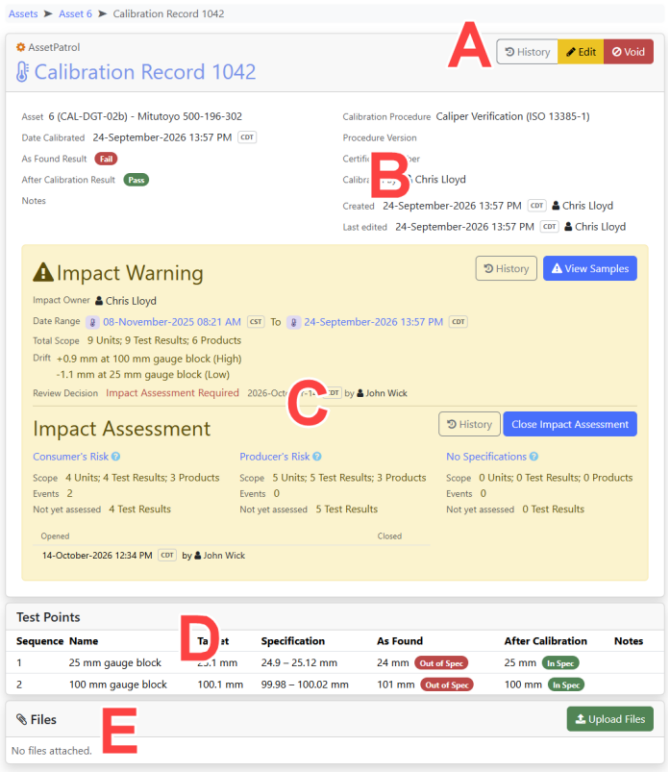
a. To view the asset's five most recent calibrations, scroll to the **Calibration Records** card at the bottom of the Asset page. Click a **calibration date** to view the calibration record. To view all calibration records for the asset, click **View All**



Calibration Record Overview

The calibration record is organized into five sections.

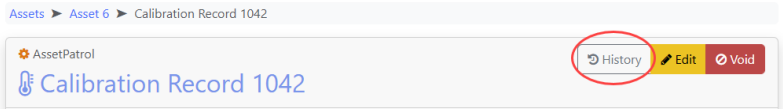
A. The action buttons.
B. The calibration event summary. Perhaps most importantly, the As Found and After Calibration results are shown here.
C. The impact warning information and, if an impact assessment is required, the impact assessment information.
D. The calibration Test Point results.
E. Files related to the calibration.



Calibration Record History

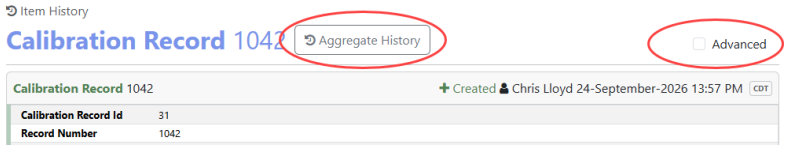
History buttons appear only for users with the PatrolSuite **History View** permission.

73. To view an audit trail of changes to the calibration record, open the desired calibration record and click the **History** button.



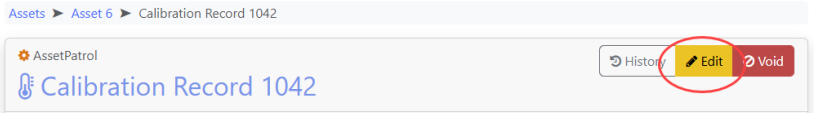
a. To view additional details, check the **Advanced** checkbox.

b. To view the aggregate history of changes, click the **Aggregate History** button.



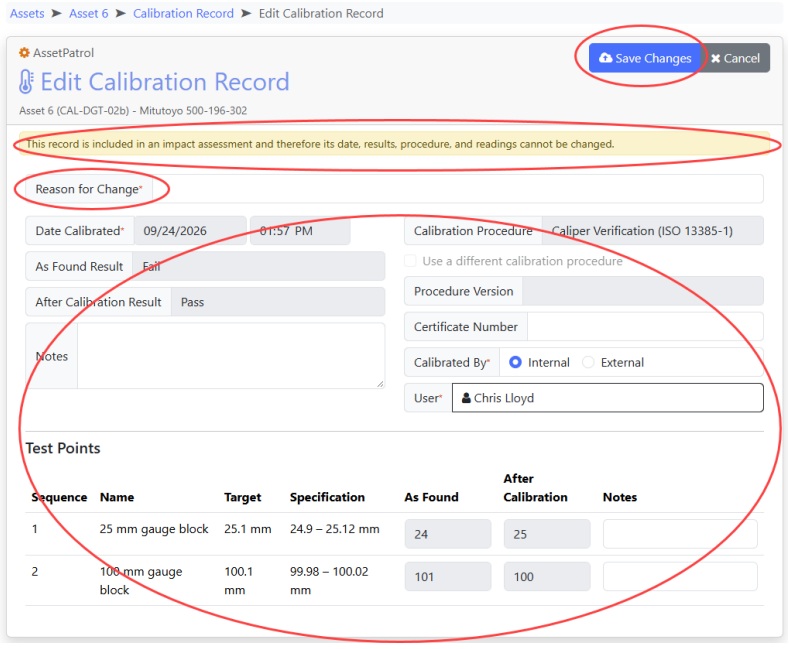
Edit a Calibration Record

74. To edit a calibration record, open the desired calibration record and click the **Edit** button.



a. Document the reason for the changes, enter or change data as desired, and click the **Save Changes** button.

Note: If the record is part of an impact assessment, then not all the information can be edited.



Void a Calibration Record

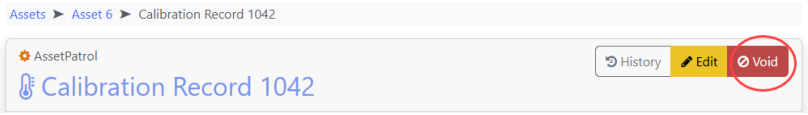
A calibration record can be **voided** when it should no longer be considered a valid record of calibration for the asset. Voided calibration records remain in the asset's history as part of the asset's audit trail but are not considered when determining its calibration status and due dates.

Note: Voiding a calibration record is permanent and cannot be undone.

Note: A calibration record can be voided if it is part of an impact warning. Voiding such record will also void the impact warning.

Note: Voiding a failed calibration record that opened an Impact Assessment also voids its Impact Warning and Impact Assessment. Both remain in the asset's history. Until that failed record is voided, the record at the start of the Impact Assessment's date range and the record that returned the asset to an acceptable state after the failure cannot be voided. See Records and their Relation to Impact Activities in Chapter 14.

75. To void a calibration record, open the desired calibration record and click the **Void** button.



a. Document the **reason for voiding** the record and click the **Void Calibration Record** button.



Chapter 12: Asset Verification

Introduction

Verification is a compliance check performed between full calibrations to confirm that an asset is producing accurate measurements. Verification settings mirror the calibration settings and typically use a “standard” to measure the asset’s accuracy.

Note: A verification event does not constitute a calibration and does not typically involve adjustment of the instrument.

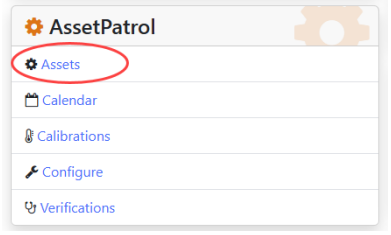
Users with the **Verification Record Edit** permission can create and edit verification records.

Users with the **Verification Record Void** permission can void a verification which makes the record no longer a valid record of verification for the asset. Voided verification records are not deleted and remain in the system as part of the asset’s audit trail.

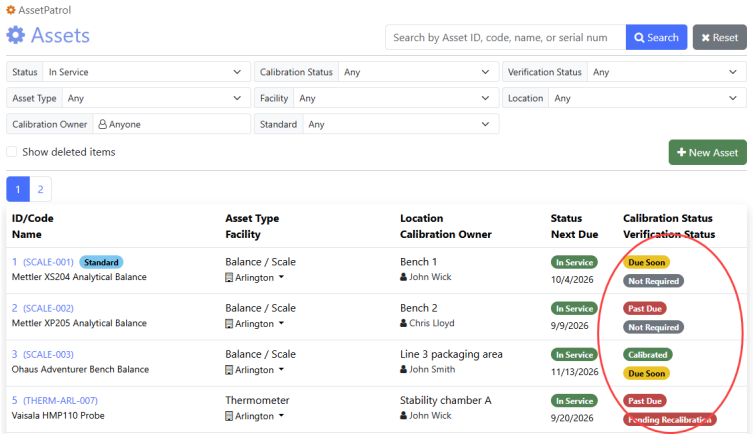
Page: *{PatrolSuite URL}/Asset/Verifications*

Asset Verification Status

76. To view the verification status of an asset, click on the **Assets** hyperlink in the AssetPatrol card.



The **Assets** page will open. The right column displays the asset’s current **Calibration** and **Verification** status. Calibration and verification are tracked independently, so an asset may have different statuses for each. The meaning of each status is defined in the table below.



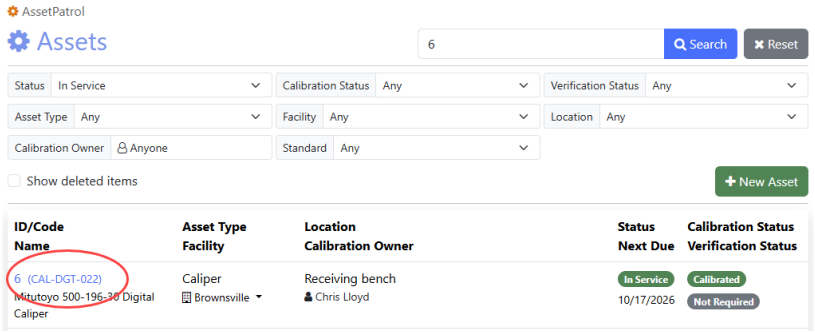
Copyright 2026 MAP America Inc.

Calibration Status	Verification Status	Meaning
Calibrated	Verified	The requirement has been successfully completed, and the asset is not yet within its **Due Soon** threshold.
Due Soon	Due Soon	The requirement has been successfully completed, but the next due date falls within the **Due Soon** threshold defined for the asset.
Past Due	Past Due	The due date has passed. Whether the asset may continue to be used depends on its settings.
Not Calibrated	Not Verified	The requirement applies to the asset but has not yet been successfully completed.
Pending Recalibration	Pending Recalibration	The most recent calibration or verification failed. The asset requires recalibration and cannot be used until calibration is successfully completed.
-	Not Required	The asset does not require verification.

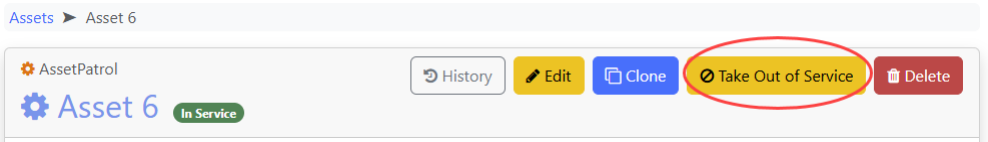
Note: A failed verification sets both the Calibration and Verification statuses to **Pending Recalibration**.

Verify an Asset

77. To verify that an asset continues to meet its measurement performance requirements, locate the desired asset on the Assets search page and click on the **asset ID/Code** to open the asset.

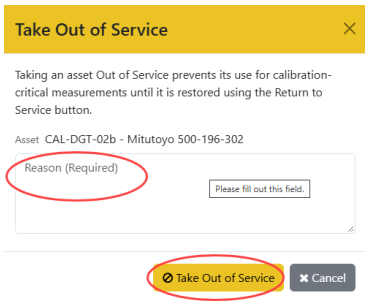


78. Performing an asset verification does not typically require taking the asset out of service. However, if it does, then click **Take Out of Service**. This prevents the asset from being used to record test results in QualityPatrol until it is returned to service.

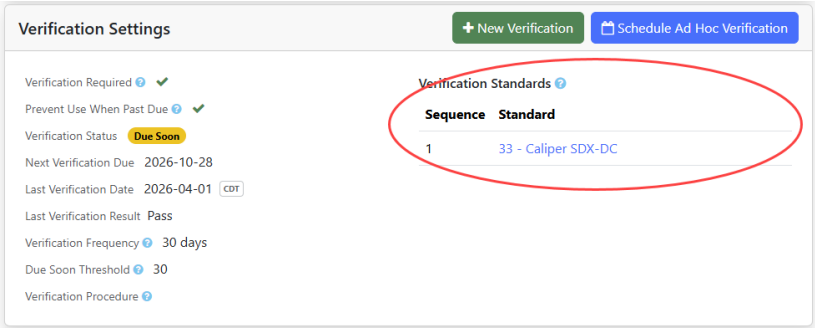


a. Enter the reason for out of service (e.g. “Being verified”) and click the **Take Out of Service** button.

Copyright 2026 MAP America Inc.



79. On the **Verification Settings** card, identify the standard(s) required to perform the verification. If necessary, click a standard hyperlink to view additional information about the standard. Obtain the required standard(s) before beginning the verification.



80. Click the **New Verification** button.



81. Record the verification information and click **Save Changes**.

    a. **Standard**. Select the standard used to perform the verification.

    b. **Date Verified**. This will be auto populated with the current date/time. If the asset was verified before the current time, then click into the Date Verified date and time cells and edit as necessary to reflect the actual date/time the verification was performed. The date cannot be in the future.

    c. **Result**. A Pass or Fail assessment of the verification outcome.

    - If the asset does not have Test Points, then select Pass or Fail from the dropdown.
    - If the asset has test points, then Pass or Fail will be automatically calculated from the Test Point values entered.

    Note: A failed verification Result triggers an impact warning to determine whether an impact assessment is required.

    d. **Verification Procedure**. If the asset has a pre-defined verification procedure, then it is displayed here for reference.

    e. **Use a different verification procedure**. Check the checkbox if the verification was performed using a different procedure. This option appears only for users with the AssetPatrol Admin permission, and only when there is another procedure to choose (if the asset type has an Allowed Verification Procedures list, only those procedures are offered).

    f. **Procedure Used**. Select the procedure used to perform the verification.

Copyright 2026 MAP America Inc.

g. **Reason**. Enter the reason a different procedure was used.

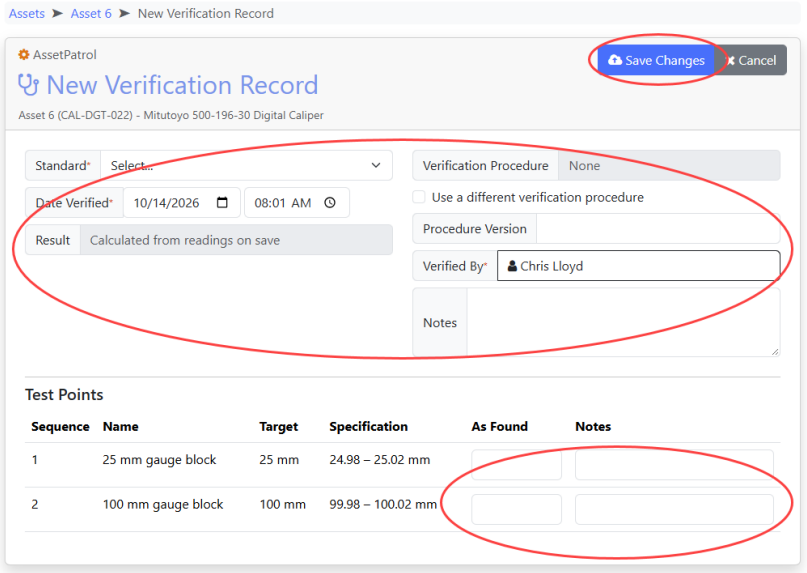
h. **Procedure Version**. Enter the version of the procedure used to perform the verification.

i. **Verified By**. Select the person who performed the verification.

j. **Notes**. Enter any additional information relevant to the verification.

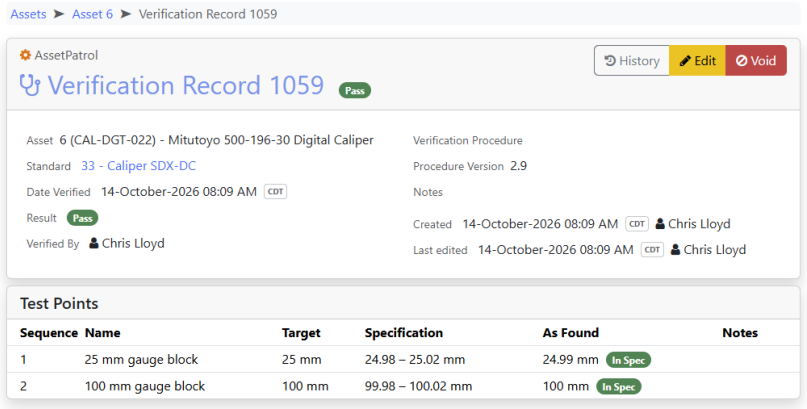
k. **Test Points As Found**. If required, enter the measured values for each Test Point. The target value and applicable specification limits are displayed for reference, making it clear whether each recorded value is within tolerance.

l. **Test Points Notes**. Enter any relevant information regarding the verification results.



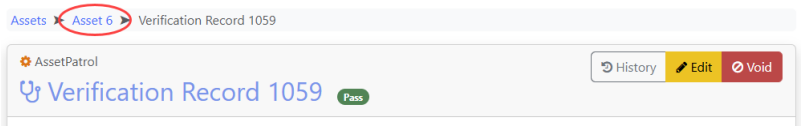
Note: When a successful (**Pass**) verification record is saved, AssetPatrol automatically calculates the asset's next verification due date based on its defined verification frequency.

The saved verification record will be displayed.

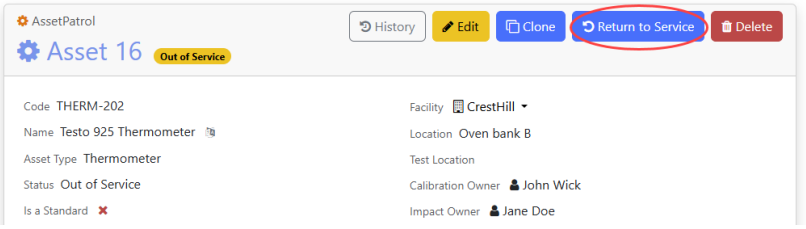


82. If the asset was removed from service prior to the verification, then click on the asset in the breadcrumb menu to return to the asset page.

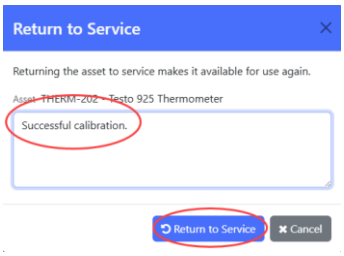
Copyright 2026 MAP America Inc.



a. Click the **Return to Service** button.



b. Enter the reason for the return to service and click the **Return to Service** button.



Schedule Ad Hoc Verification

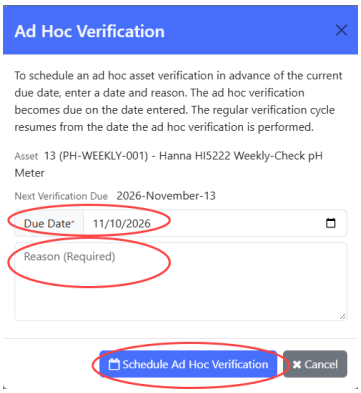
The Next Verification Due Date is automatically calculated based on the most recent verification date and the Verification Frequency defined for the asset.

83. To schedule an ad hoc verification prior to the Next Verification Due Date, open the asset and click on the **Schedule Ad Hoc Verification** button.



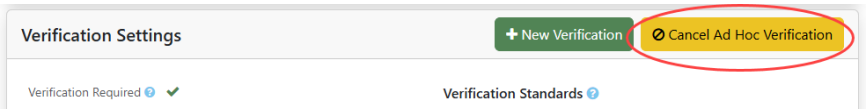
a. Enter the **Due Date**, the **Reason** for scheduling the ad hoc verification, and click the **Schedule Ad Hoc Verification** button. The verification task becomes due on the date entered, and the regular verification cycle resumes from the date the ad hoc verification is performed.

Copyright 2026 MAP America Inc.

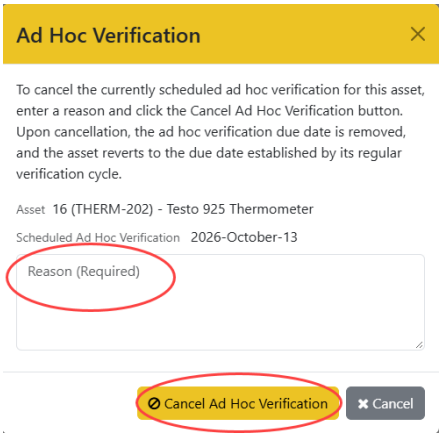


Cancel an Ad Hoc Verification

84. To cancel a previously scheduled ad hoc verification, open the asset and click on the **Cancel Ad Hoc Verification** button.



a. Enter the reason for the cancellation and click the **Cancel Ad Hoc Verification** button.



Copyright 2026 MAP America Inc.

Chapter 13: Asset Verification Records

Introduction

A **verification record** is the documented evidence that an asset was verified on a specific date, including the standard used, results obtained, and the resulting verification status.

Users with the **Verification Record Edit** permission can create and edit verification records.

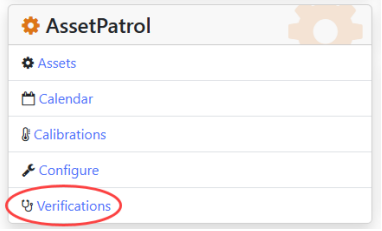
Users with the **Verification Record Void** permission can void a verification which makes the record no longer a valid record of verification for the asset. Voided verification records are not deleted and remain in the system as part of the asset's audit trail.

Page: *{PatrolSuite URL}/Asset/Verifications*

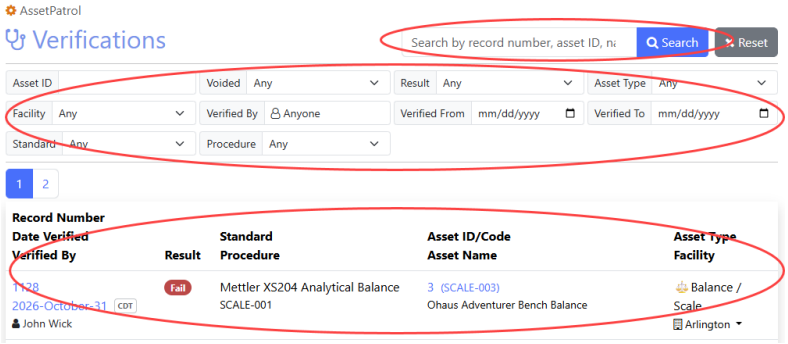
Verification Records Search

The Verification page displays all **completed** verification records for all assets.

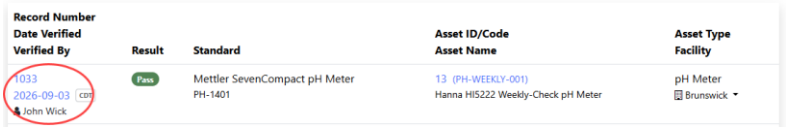
85. To search for a verification record, locate the AssetPatrol card on the PatrolSuite homepage and click **Verifications**.



a. Enter an asset ID, name, standard, or record number into the Search field, or use the filters, or click on the column headers to locate a record of interest.

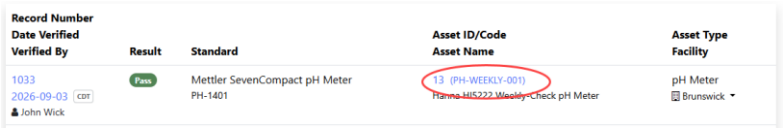


b. To open a verification record, click on the desired verification **record number date**.



86. Alternatively, click on the **asset ID/Code** to open the asset.

Copyright 2026 MAP America Inc.



a. To view the asset's five most recent verifications, scroll to the **Verification Records** card at the bottom of the Asset page. Click a **verification date** to view the verification record. To view all verification records for the asset, click **View All**.



Verification Record Overview

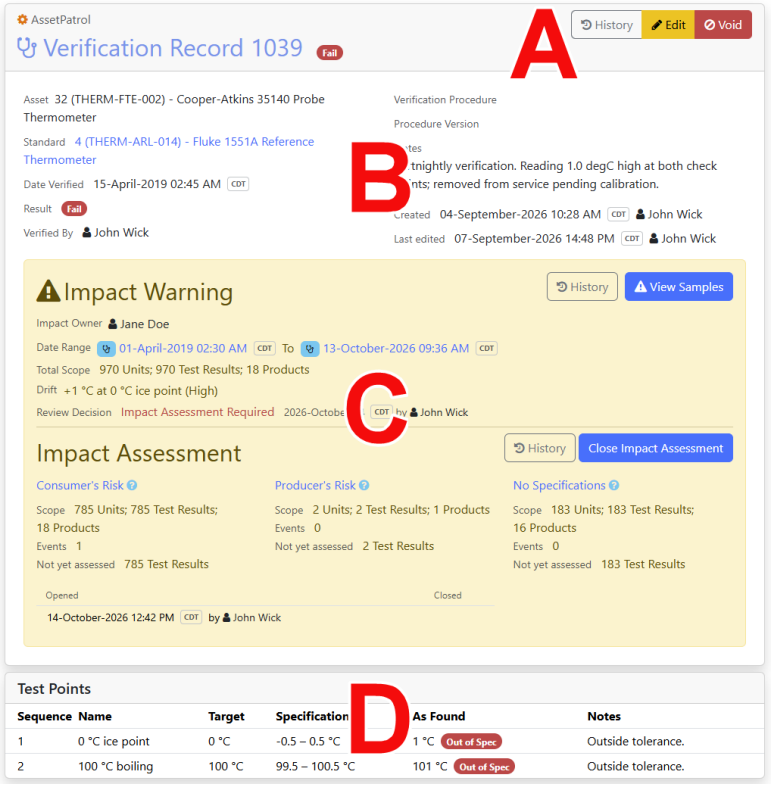
The verification record is organized into four sections.

A. The action buttons.

B. The verification event summary. Perhaps most importantly, the verification result (pass/fail) is shown here.

C. The impact warning information and, if an impact assessment is required, the impact assessment information.

D. The verification Test Point results.

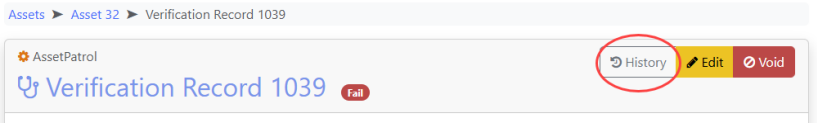


Copyright 2026 MAP America Inc.

Verification Record History

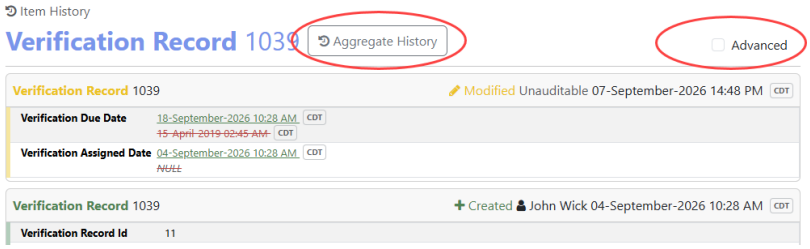
History buttons appear only for users with the PatrolSuite **History View** permission.

87. To view an audit trail of changes to the verification record, click the **History** button.



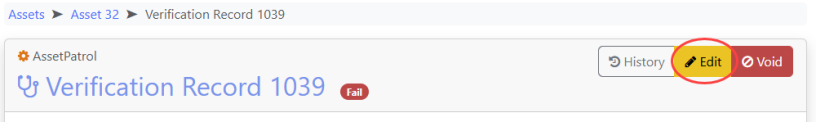
a. To view additional details, check the **Advanced** checkbox.

b. To view the aggregate history of changes, click the **Aggregate History** button.

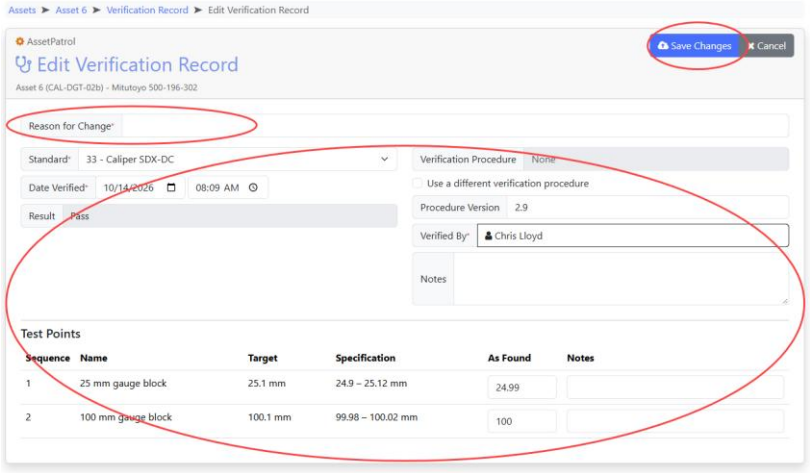


Edit a Verification Record

88. To edit a verification record, click the **Edit** button.



a. Document the Reason for Change, edit the data as desired, and click the **Save Changes** button.



Copyright 2026 MAP America Inc.

Void a Verification Record

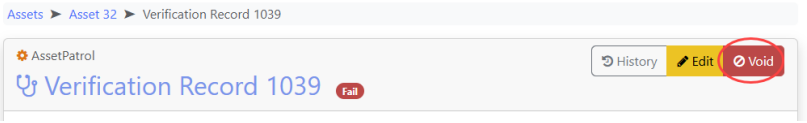
A verification record can be **voided** when it should no longer be considered a valid record of verification for the asset. Voided verification records remain in the asset's history as part of the asset's audit trail but are not considered when determining its verification status and due dates.

Note: Voiding a verification record is permanent and cannot be undone.

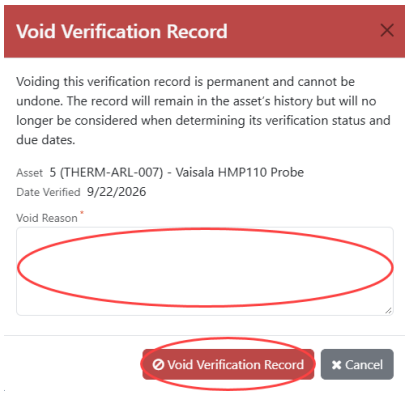
Note: A verification record can be voided if it is part of an impact warning. Voiding such record will also void the impact warning.

Note: Voiding a failed verification record that opened an Impact Assessment also voids its Impact Warning and Impact Assessment. Both remain in the asset's history. Until that failed record is voided, the record at the start of the Impact Assessment's date range and the record that returned the asset to an acceptable state after the failure cannot be voided. See Records and their Relation to Impact Activities in Chapter 14..

89. To void a verification record, open the desired verification record and click the **Void** button.



a. Document the **reason for voiding** the record and click the **Void Verification Record** button.



Copyright 2026 MAP America Inc.

Chapter 14: Impact Assessment

Introduction

An impact assessment is a documented evaluation performed when an instrument is found to be out of tolerance (a failed verification or calibration) to determine whether the condition may have affected the validity of measurements previously made with the instrument and, consequently, the quality or conformity of products, processes, or other decisions based on those measurements.

Note: AssetPatrol automatically generates an Impact Warning when a calibration record's **As Found Result** is Fail, or a verification record's **Result** is Fail. A failed After Calibration Result alone does not generate an impact warning. **The asset's Impact Owner is assigned an Impact Warning task and decides whether to open an Impact Assessment**.

Note: As part of the Impact Assessment, an event may be created in EventPatrol to delegate an investigation, risk analysis, and definition of action items to a subject matter expert with responsibility for the product or customer.

Impact Warning

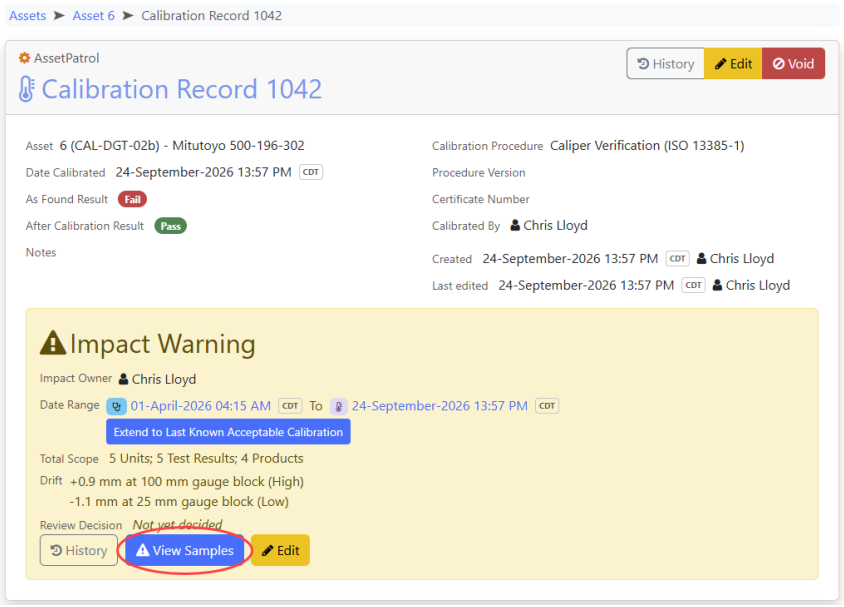
Upon completion of a calibration or verification record that includes a failed "as found" measurement, AssetPatrol automatically creates an Impact Warning.

- **Impact Owner**: The impact owner for the asset is responsible for determining whether an impact assessment is warranted and, if warranted, for performing the actual assessment.
- **Date Range**: The dates the asset was used to record QualityPatrol test results since the last known acceptable verification or calibration record.
- **Total Scope**: How many units were tested, how many tests were performed, and how many products were tested using the asset during the date range.
- **Drift**: The difference between an instrument's as-found measurement (when the asset has test points) and the applicable reference or expected value, used to estimate the potential error in measurements made during the impact-assessment period.
- **Review Decision**: Displays the impact owner's decision whether no action is required or to initiate an impact assessment.

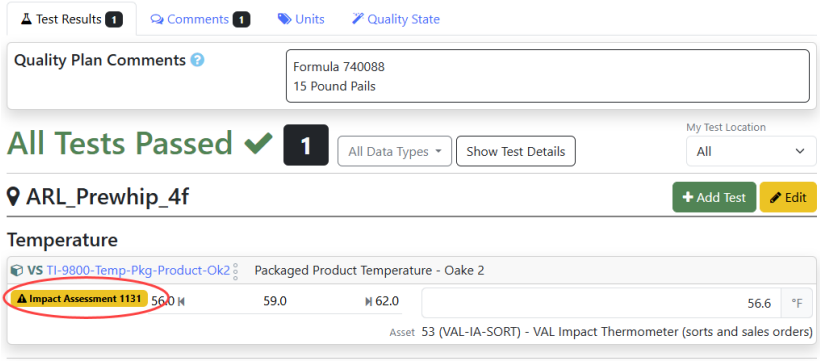
Note: Only the first failed record after the asset was last in an acceptable state creates an Impact Warning. If another failed calibration or verification record is entered before the asset is successfully recalibrated, that record does not create a second Impact Warning. Instead, its record page displays "Part of an out-of-tolerance episode opened on Record N." with a link to the record that created the Impact Warning.

90. To review the QualityPatrol measurements made with the asset over the date range, click the **View Samples** button.

Copyright 2026 MAP America Inc.



Note: Test results that are part of an impact warning are identified as such in QualityPatrol. These results and the associated asset cannot be changed. Click on the Impact Assessment badge to view the impact assessment information.

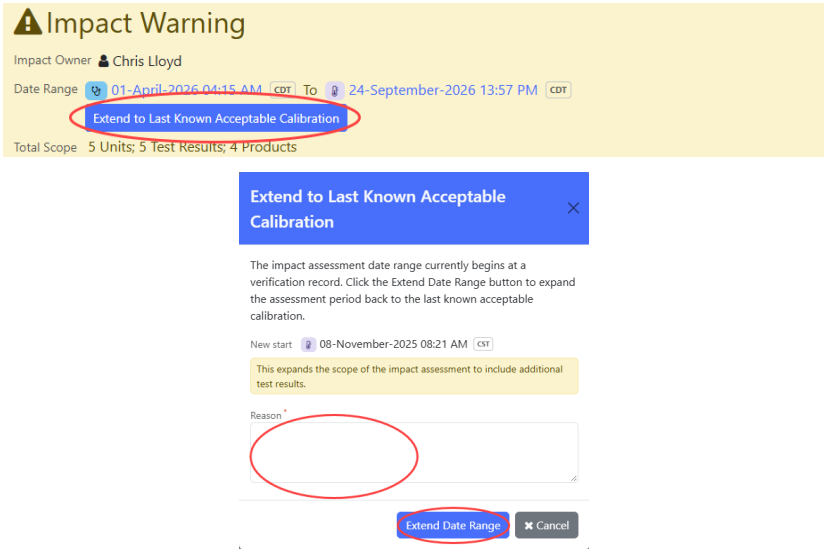


91. Hold your cursor over the Date Range icons to determine if the dates reflect calibration or verification records. In the example below, the last known acceptable verification or calibration record was a verification test performed on April 1.



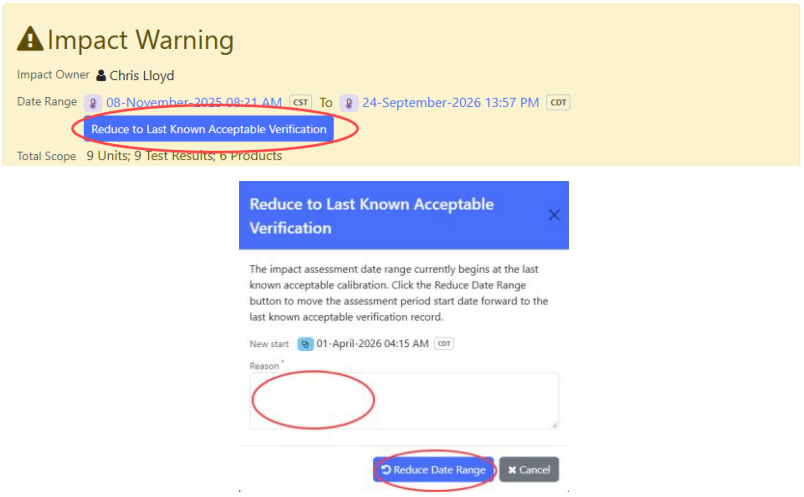
92. To expand your review backwards in time to the last known passing calibration, click the **Extend to Last Known Acceptable Calibration** button.
    a. In the confirmation popup, provide a reason for the expansion and click the **Extend Date Range** button.

Copyright 2026 MAP America Inc.



93. To undo the review expansion backwards in time to the last known passing calibration, click on the **Reduce to Last Known Acceptable Verification** button.

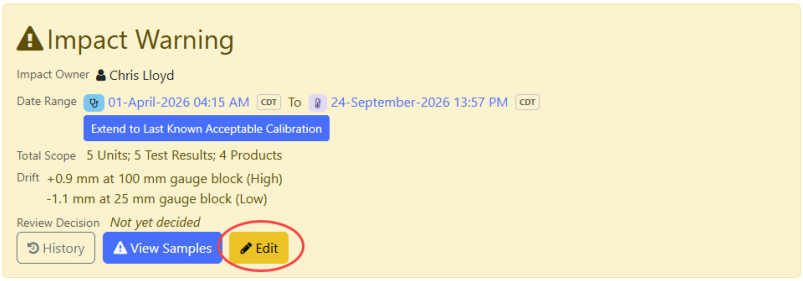
    a. In the confirmation popup, provide a reason for the reduction and click the **Reduce Date Range** button.



94. Upon finishing the review of the affected test result data and adjusting the date range as appropriate, click the Edit button.

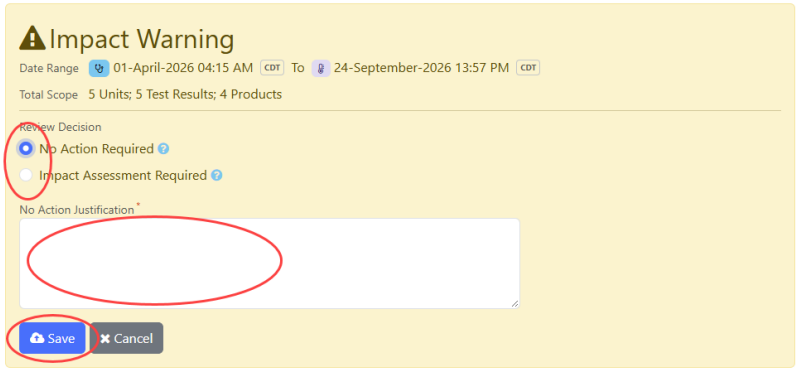
    Note: Only the asset's Impact Owner or a user with the AssetPatrol Admin permission can edit the Impact Warning, extend or reduce its date range, or create the Impact Assessment.

Copyright 2026 MAP America Inc.

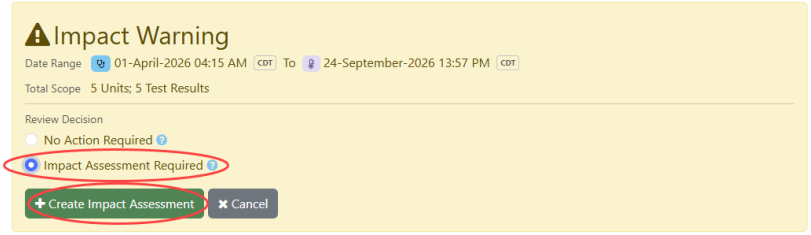


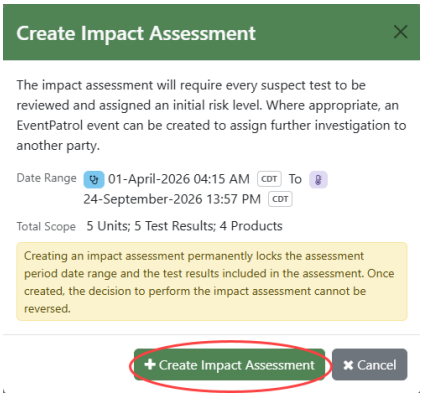
95. Record the outcome of the Impact Warning review.

    a. If no impact assessment is required, then select the corresponding radio button, enter the justification, and click the **Save** button.



    b. If an impact assessment is required, then select the corresponding radio button and click the **Create Impact Assessment** button and then click the **Create Impact Assessment** button in the confirmation window.





Copyright 2026 MAP America Inc.

96. To see the audit trail of changes to the Impact Warning, click on the History button.

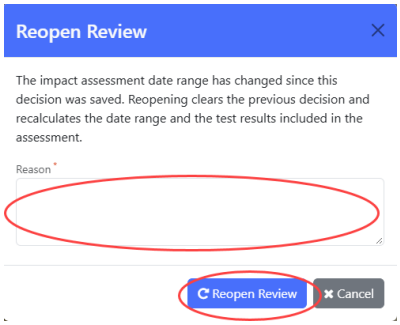


97. If the Review Decision is No Action Required and the records that determine the date range have changed since the decision was saved (for example, the record at the start of the date range was voided), the Impact Warning displays "The assessment date range calculated from current records no longer matches the date range at the time this decision was saved." and a **Reopen Review** button. To review the Impact Warning again using the recalculated date range, click the **Reopen Review** button.



a. Enter the Reason and click the **Reopen Review** button. The previous decision is cleared, the date range and the test results included are recalculated, and the Review Decision returns to Not yet decided. Record the new outcome as described in step 95.

Note: Only the asset's Impact Owner or a user with the AssetPatrol Admin permission can reopen the review. A review cannot be reopened once an Impact Assessment has been created.



Impact Assessment

The impact assessment consists of two primary activities:

I. **Assigning an "Initial Risk Classification"** (None, Low, Medium, High, Uncertain) to each of the test results measured by the asset during the Date Range.

II. **Determining whether the test result warrants creating an event in EventPatrol** to delegate further investigation, risk analysis, and definition of action items to a subject matter expert with responsibility for the applicable product and customer.

Copyright 2026 MAP America Inc.

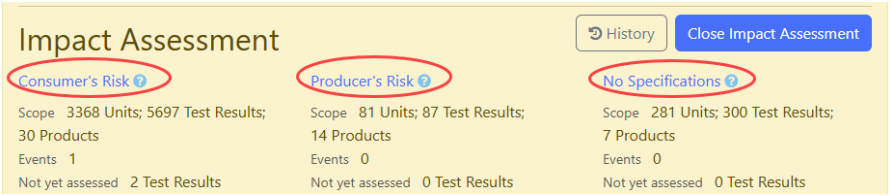
Upon initiation of an Impact Assessment, the Impact Assessment information will appear. The Impact Assessment is organized into three risk types:

I. **Consumer's Risk (beta error)**. The risk that your organization might have shipped nonconforming product to your customer. These test results were in specification when measured. The test results that become out of specification once the drift is applied are marked **Potentially Affected**. These results typically warrant the most scrutiny when assessing risk due to potential liability with regard to the customer.

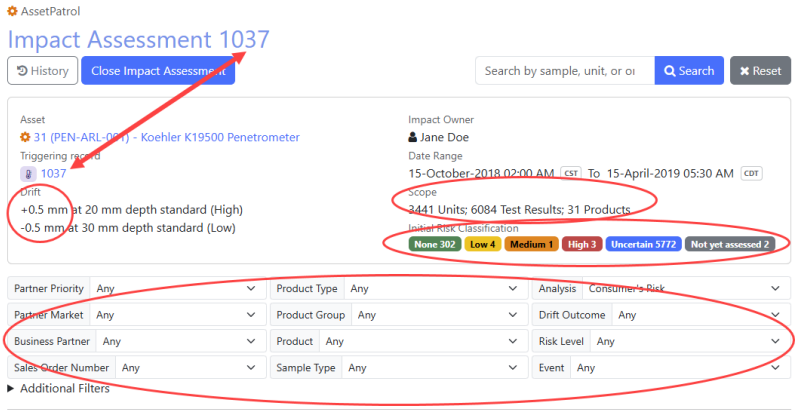
II. **Producer's Risk (alpha error)**. The risk that your organization might have rejected product that could have been shipped to the customer. These test results were out of specification when measured. The test results that become in specification once the drift is applied are marked **Potentially Affected**.

III. **No Specifications**. These test results do not have a corresponding specification, so it is not possible to determine the effect of the drift on product conformance. An initial risk classification of "None" or "Uncertain" is typically applied to these tests.

98. To begin the impact assessment, click on one of the hyperlinks that corresponds to a risk type.



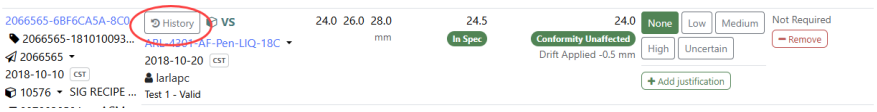
a. The Impact Assessment page will open pre-filtered to display all test results that reflect the chosen risk type. The impact assessment is given the same number as the triggering record. Note the Drift, Scope, and initial risk classification summary in the header. Use the filters to organize the test results to make assessment as efficient as possible.



b. Use the information and action buttons in the data grid to perform the impact assessment of all test results in the assessment record. The data grid is organized as follows:

A. The sample information.

B. The test method information. Click on the **History** button to see impact assessment changes related to the test result.



C. The specifications applicable at the time the test was performed.

D. The test value (determined when using the suspect asset) and the specification status of that result (in spec, out of spec, or the lack of specifications).

E. The test value when applying the drift and the corresponding conformity to the specifications.

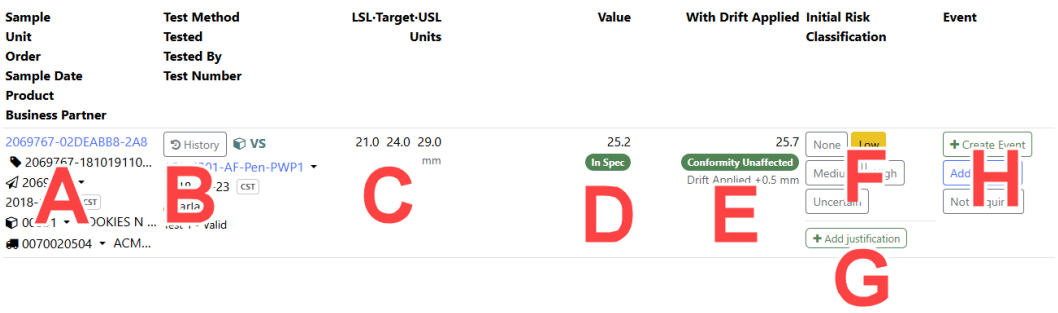
   i. **Conformity Unaffected**. This means that applying the drift does not change whether the test result is in or out of specification. However, this does not mean that there is no risk.
   ii. **Potentially Affected**. This means that applying the drift changes whether the test result is in or out of specification. This is an indicator of potential risk.
   iii. **Unable to Determine**. This means that no drift could be applied or there are no specifications to which the application of drift can be used to help assess risk.

F. Click the applicable **Initial Risk Classification** button.

   i. **None** – Click this button to indicate that there is no risk to the company or customer.
   ii. **Low** – Click this button to indicate that the risk to the company and customer is low. Creation of an EventPatrol event to determine appropriate action items is up to the discretion of the impact owner.
   iii. **Medium** – Click this button to indicate that the risk to the company and customer is moderate. Creation of an EventPatrol event to determine appropriate action items is typically recommended.
   iv. **High** – Click this button to indicate that the risk to the company and customer is high. Creation of an EventPatrol event to determine appropriate action items is typically mandatory.
   v. **Uncertain** – Click this button to indicate that the risk to the company and customer is not able to be determined at this time.

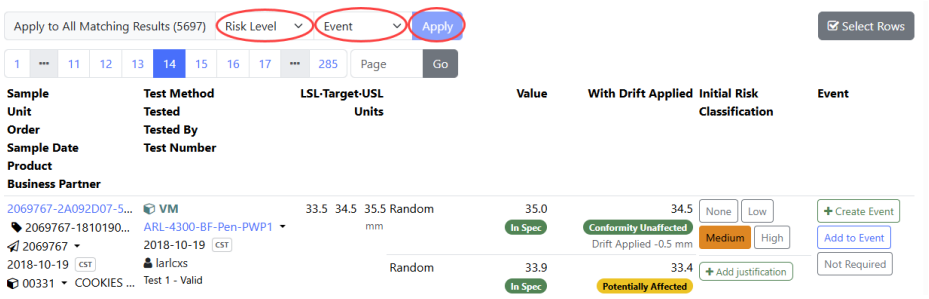
G. Click the **Add Justification** button to record the justification of the initial risk classification.

H. Click the impact assessment action buttons as appropriate.
   i. **Create Event**. Click this button to create an EventPatrol event that corresponds to the applicable test result.
   ii. **Add to Event**. Click this button to add the test result to an existing EventPatrol event. This enables multiple test results to be assigned to a single event.
   iii. **Not Required**. Click this button to indicate that no further investigation or risk assessment is required for the corresponding test result.
   iv. **Remove**. Click this button to remove the test result from its event and/or clear the event Not Required decision. Clicking this button does not change the risk level and justification.

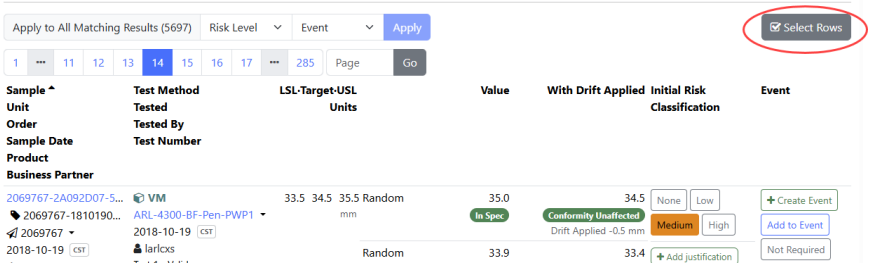


Impact Assessment – Mass Assignment

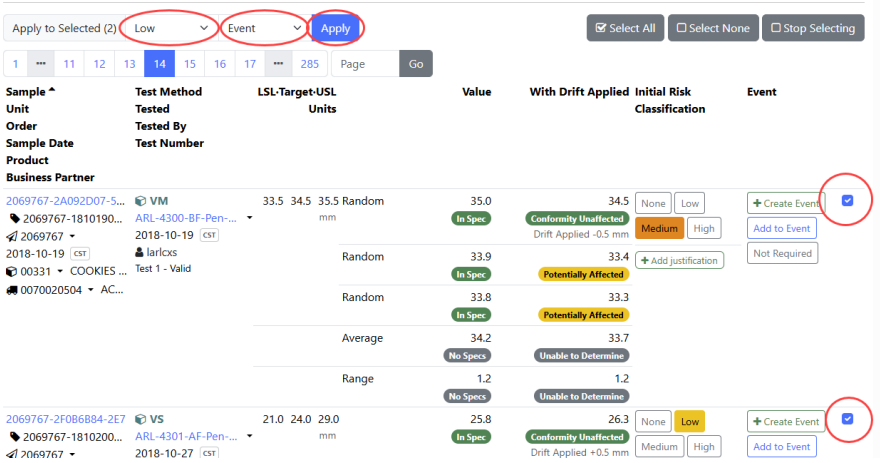
99. To assign ***all*** test results to a single risk level or a single event (or event status), select the risk level or the event number/status and click the **Apply** button.



100. To assign multiple specific test results to a single risk level or a single event (or event status), click on the **Select Rows** button.



a. Select the desired test results, select the risk level or the event number/status, and click the **Apply** button.



b. In the **Apply to Selected** dialog (when step 98 is used, this dialog is titled **Apply to All Matching Results**), review the changes that will be made.

i. If a risk level was selected, the dialog displays “The following Initial Risk Classification will be assigned:” and the risk level. Select what happens to the justifications:

- **Delete any existing justifications.** This is the default. The justification is removed from every test result that receives the new risk level.
- **Apply the following Justification to the initial risk classification:** Enter the justification

in the box below this option. It replaces any existing justification on every test result that receives the new risk level.

Note: When the Require a Justification for Every Initial Risk Classification setting is on (see Impact Assessment Configuration Settings), these two options are not displayed, and a justification must be entered.

Note: If Remove was selected as the risk level, the dialog displays “Clears the assigned risk level and its associated justification.”

c. To leave unchanged the test results that already have a risk level, check **Do not change any previously assigned risk levels and justifications.**

d. If an event option was selected, the dialog describes it:

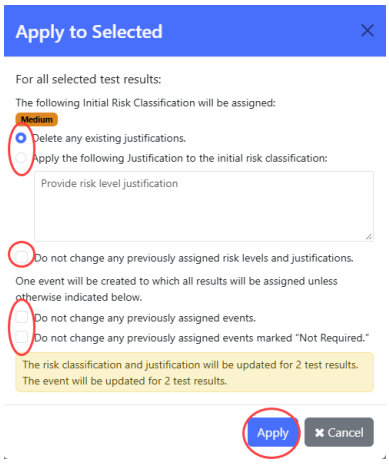
- Create Event: “One event will be created to which all results will be assigned unless otherwise indicated below.”
- An existing event: “Results already assigned to another event are moved to this event.”
- Not Required: “Results already assigned to an event are removed from that event.”
- Remove: “Clears the existing event decision.”

e. To leave the test results that already have an event unchanged, check **Do not change any previously assigned events.**

f. To leave the test results already marked Not Required unchanged, check **Do not change any previously assigned events marked “Not Required.”** (This checkbox is not displayed when Not Required is being applied.)

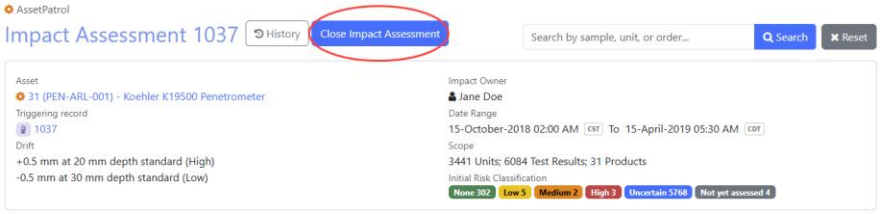
g. Review the counts in the yellow box: “The risk classification and justification will be updated for N test results.” and “The event will be updated for N test results.” If an event would be left with no test results, the dialog also displays “The following event will no longer have any associated test results: Event N. This event will remain open and needs to be manually canceled if appropriate.”

h. Click the **Apply** button.

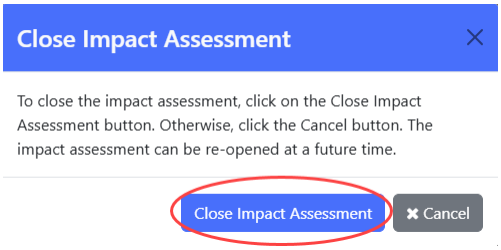


Impact Assessment – Close & Reopen

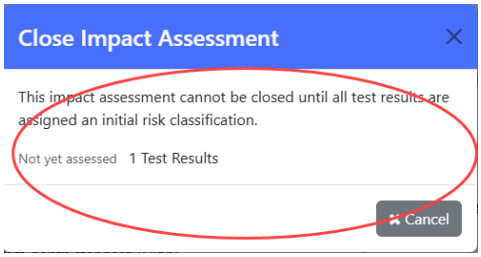
101. To close the impact assessment, click on the **Close Impact Assessment** button.



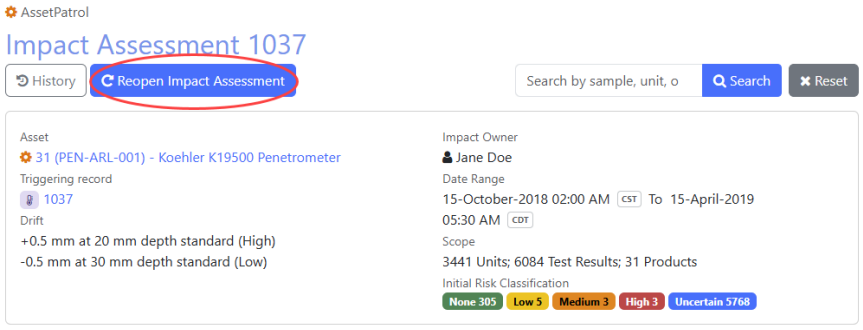
a. Click on the **Close Impact Assessment** button.



Note: The impact assessment cannot be closed until *every* test result has been assigned an initial risk classification. If any results remain unclassified, then a different dialogue box will appear. Click the **Cancel** button to resume the initial risk classification.

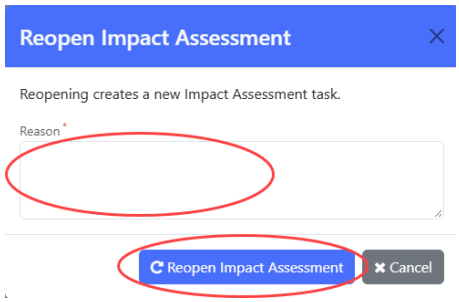


102. To reopen a closed impact assessment, click the **Reopen Impact Assessment** button.



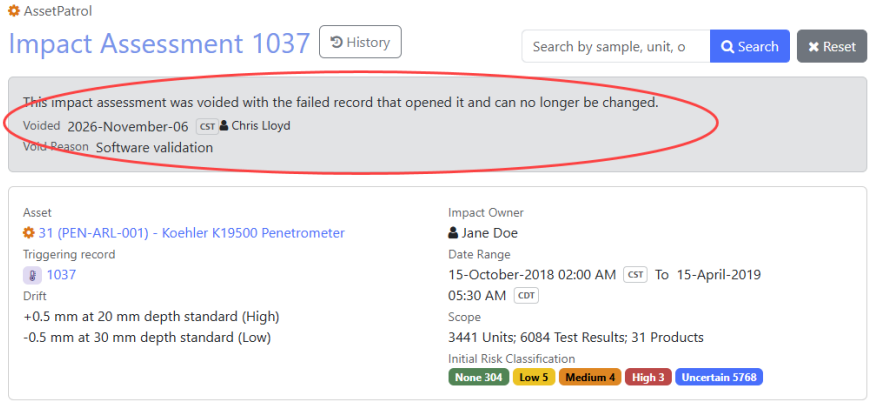
a. Provide the reason for re-opening the impact assessment and click the **Reopen Impact Assessment** button.

Copyright 2026 MAP America Inc.



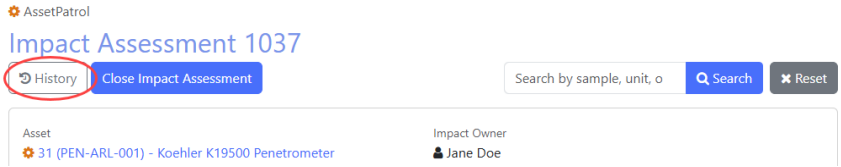
Impact Assessment – Voided

103. An impact assessment whose failed calibration or verification record was voided is displayed with a message noting who voided the record, when, and why. Note that there are no Close or Reopen buttons on such impact assessments.



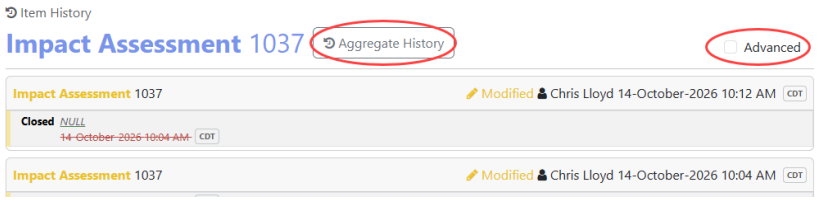
Impact Assessment Audit Trail

104. To view the audit trail of changes to the impact assessment, click the **History** button.

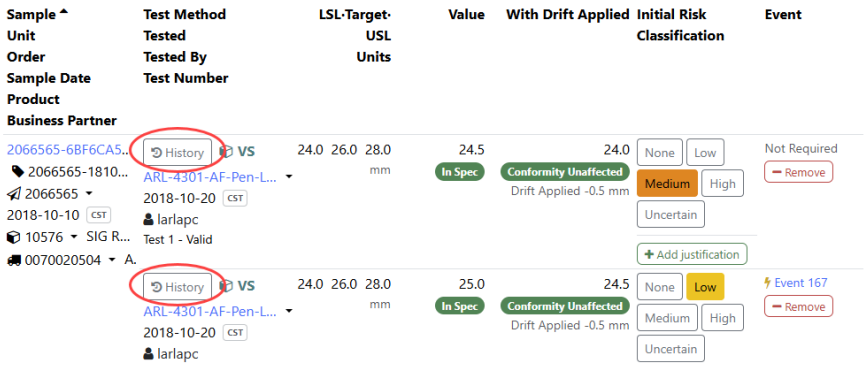


a. To view additional details, check the **Advanced** checkbox.

b. To view the aggregate history of changes, click the **Aggregate History** button.

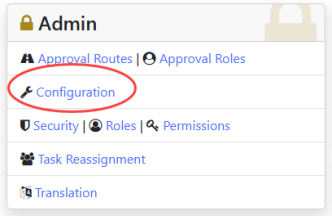


105. To view the audit trail of impact assessment changes for specific test results, click on the **History** button in the Test Method column for the desired test result.

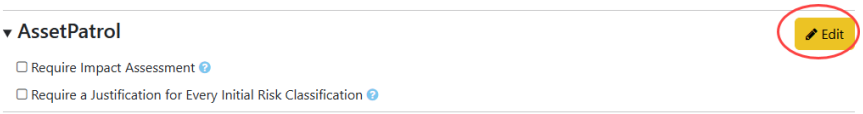


Impact Assessment Configuration Settings

106. To manage the configuration setting related to impact assessment, click on the Configuration hyperlink in the Admin card on the PatrolSuite homepage.



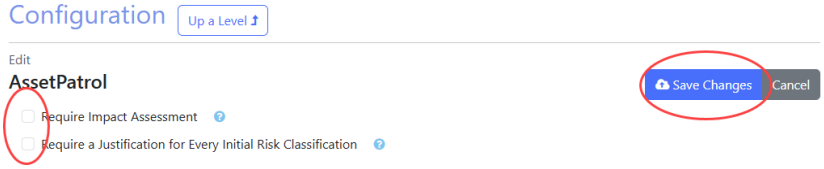
a. Click on the AssetPatrol **Edit** button.



107. Check the desired checkbox to apply the configuration rule and click the **Save Changes** button.

Require Impact Assessment – Check this box to require an impact assessment on every failed calibration or verification record. The impact owner will not be able to select “No Action Required.” Decisions already made prior to changes to this configuration setting will not be affected.

Require a Justification for Every Initial Risk Classification – Check this box to require the impact owner to provide a justification for every initial risk classification assigned during an impact assessment. Use this configuration setting cautiously because the scope of an impact assessment can include thousands of test results, which would create a significant amount of work.



Copyright 2026 MAP America Inc.

Records and their Relation to Impact Activities

An Impact Warning and its Impact Assessment are based on the asset's calibration and verification records. This section explains what happens when those records are changed or voided.

Before an Impact Assessment Is Created

Calibration and verification records can be edited or voided at any time before an Impact Assessment is created. AssetPatrol keeps the Impact Warnings up to date automatically:

- When a failed record is voided, its Impact Warning is also voided.
- When a failed record is edited so that it no longer creates an Impact Warning (for example, its result is changed to Pass, its date is changed, or an earlier failed record is entered), its Impact Warning is voided with the reason “The record no longer opens an out-of-tolerance episode.” If the record is later changed so that it creates an Impact Warning again, the Impact Warning returns.
- An Impact Warning that already has a Review Decision is never voided by an edit. If the date range of a No Action Required decision changes, the review can be reopened (see step 97 in the Impact Warning section).

After an Impact Assessment Is Created

Creating an Impact Assessment permanently locks its date range and the test results included. To protect the Impact Assessment, AssetPatrol also locks the records it is based on:

- the failed record that created the Impact Warning;
- the last known acceptable record at the start of the date range (or the calibration the date range was extended back to); and
- the record that returned the asset to an acceptable state after the failure.

The date, results, procedure, and test point readings of these records cannot be changed. Their Edit page displays “This record is included in an impact assessment and therefore its date, results, procedure, and readings cannot be changed.” The other fields, such as Notes and Certificate Number, can still be changed, and files can still be attached.

The record at the start of the date range and the record that returned the asset to an acceptable state cannot be voided (unless the failed record is voided first; see Correcting a Record Entered in Error below). Their Void dialog displays “This record cannot be voided because it is included in an impact assessment (Impact Assessment N).”

In addition, no record can be added, edited, or voided if the change would alter the date range of an Impact Assessment. Saving such a change displays “This record cannot be saved because it would change the assessment period of an impact assessment (Impact Assessment N).” Records dated after the date range can be added as usual, and the calibration that returns the asset to an acceptable state can always be saved.

Correcting a Record Entered in Error

If a locked record was entered in error, void the failed record that created the Impact Warning. The Void dialog displays “This record opened an Impact Warning review. Voiding the record also voids the Impact Warning and its Impact Assessment. Both will remain in the asset's history, and the Impact Assessment can no longer be changed.” Enter the reason and click the Void Calibration Record (or Void Verification Record) button. After the record is voided:

- The Impact Assessment displays “This impact assessment was voided with the failed record that opened it and can no longer be changed.” (see Impact Assessment - Voided).
- The other records are no longer locked by that Impact Assessment and can be corrected or voided.
- If another failed record remains, AssetPatrol creates a new Impact Warning for it, and it is reviewed as described in this chapter.

Copyright 2026 MAP America Inc.

Chapter 15: Calibration-Critical Test Methods

Introduction

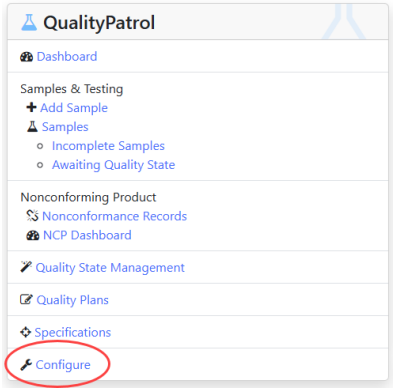
A QualityPatrol Administrator can designate test methods as **calibration-critical**. For these test methods, QualityPatrol requires the user to identify the asset used to perform the measurement and verifies that the asset is in an acceptable calibration state before test results can be saved.

Note: Calibration-critical test methods are configured in QualityPatrol, not AssetPatrol.

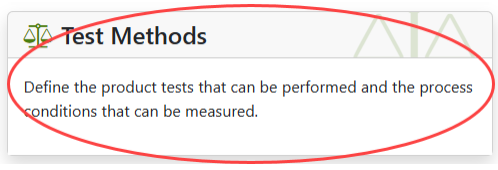
The tasks in the Designate a Calibration-Critical Test Method section must be performed by a user with the **QualityPatrol Manage Test Methods** permission or the **QualityPatrol Admin** permission.

Designate a Calibration-Critical Test Method

108. To designate a calibration-critical test method, locate the QualityPatrol card on the PatrolSuite homepage and click **Configure**.



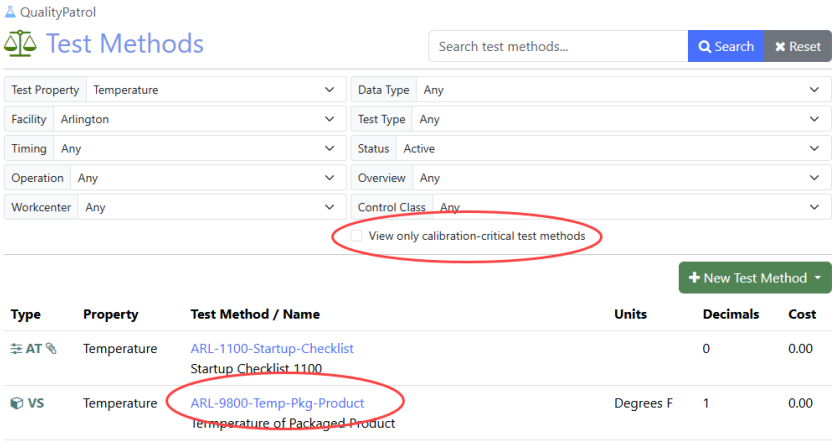
a. Click the **Test Methods** card.



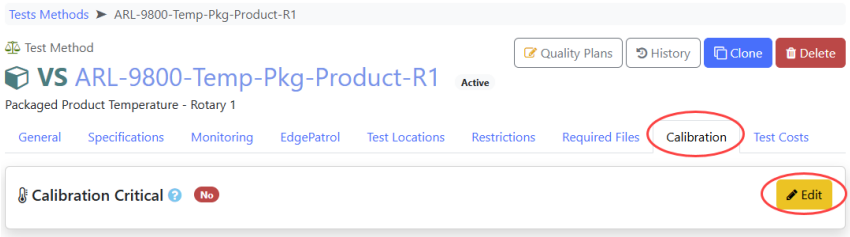
b. Use the filters to locate the desired test method and click on the **Test Method** hyperlink.

Note: Check the View only calibration critical test methods checkbox to view only calibration critical test methods.

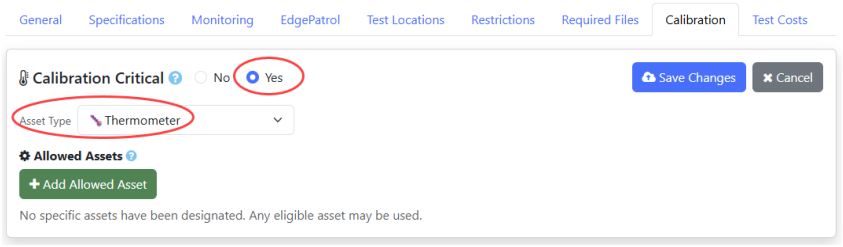
Copyright 2026 MAP America Inc.



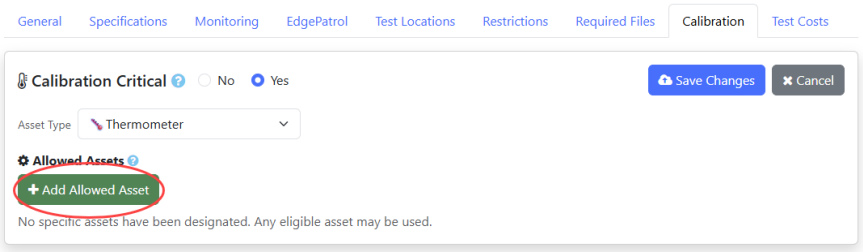
c. Click on the **Calibration** tab and then click the **Edit** button.



d. To identify the test method as calibration-critical, click the **Yes** radio button, then select the applicable **Asset Type** that corresponds to the test method. The Asset Type limits the assets available for selection when QualityPatrol users identify the asset used to perform the test, making it easier to choose the correct asset.

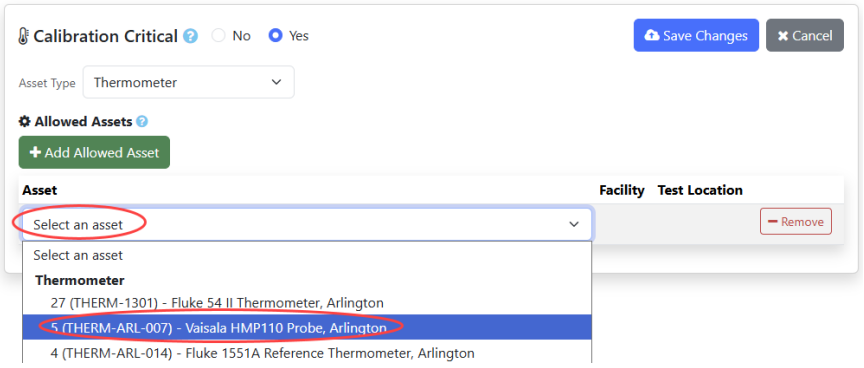


e. To restrict which assets can be used to perform this test, click **Add Allowed Asset** and select the applicable asset(s). If no Allowed Assets are specified, the person performing the test can select any asset belonging to the applicable Asset Type.

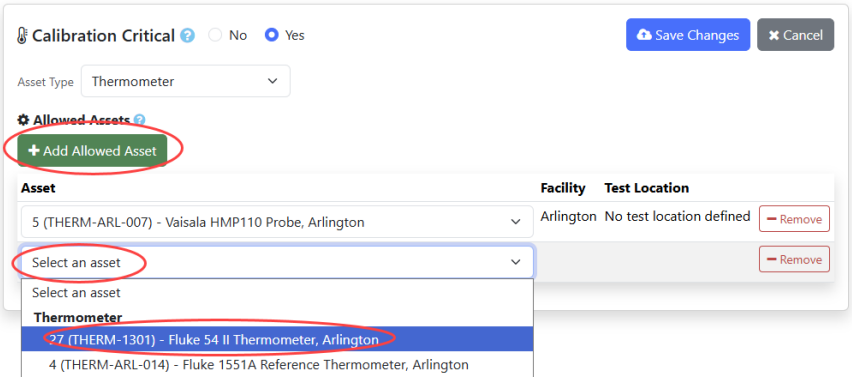


i. Click on the **Select an asset** dropdown and select an asset from the list.

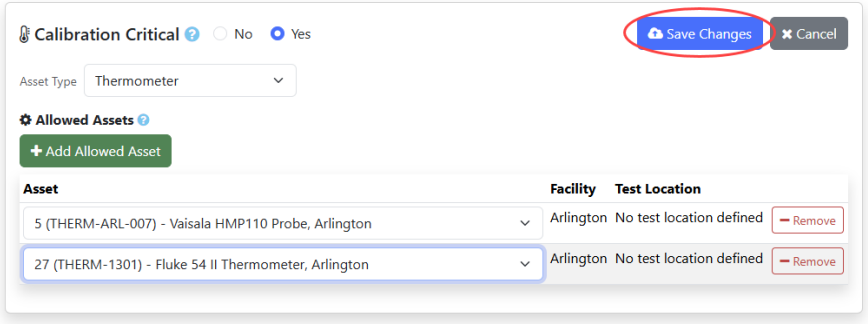
Copyright 2026 MAP America Inc.



ii. To select another asset, click the **Add Allowed Asset** button, click on the **Select an asset** dropdown, and select another asset from the list.

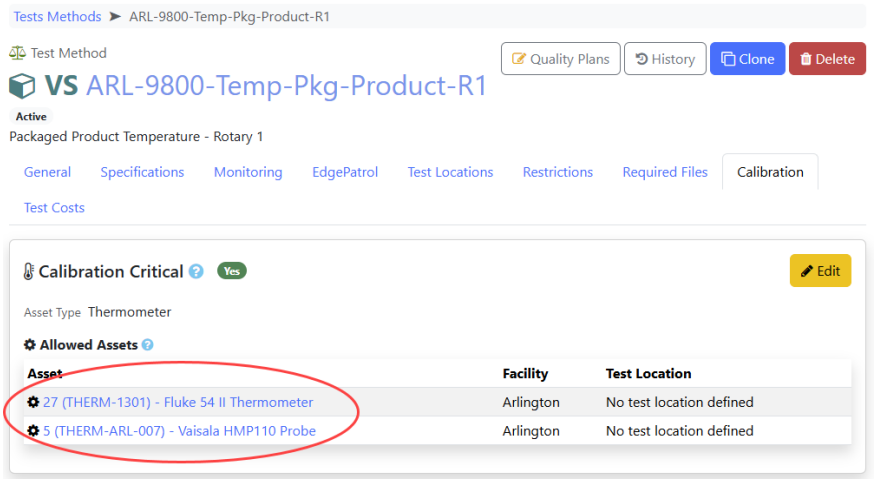


f. Click the **Save Changes** button.



The assets that can be used to perform this test are displayed:

Copyright 2026 MAP America Inc.



Note: The test method used in the above example is associated with the Arlington ("ARL") facility. To make it more efficient and less error-prone for the ARL users, the administrator defined the allowed assets to ensure that only the ARL assets would appear as options for the ARL users to select.

Note: If this test method were a "global" test method used by all, or more than one facility, then defining specific Allowed Assets may not add any value.

Performing a Calibration-Critical Test in QualityPatrol

Before results for a calibration-critical test method can be saved:

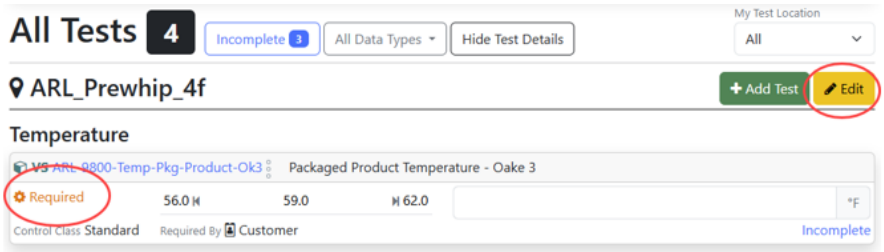
(i) The user must identify the asset used to perform the measurement; and

(ii) The asset must be in an acceptable calibration state.

The tasks in this section must be performed by a user with the **QualityPatrol Test Enter Results** or **Test Edit Results** permission.

109. Initiate a QualityPatrol sample that contains a calibration-critical test method. Calibration-critical test methods will be identified with the Required label.

a. Click the **Edit** button.

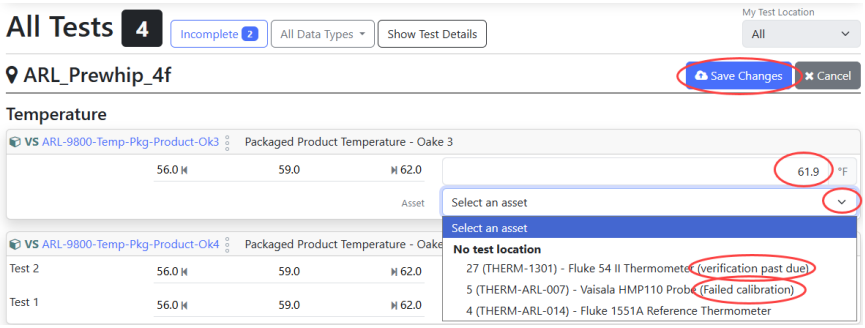


b. Enter the test result, select the asset used to perform the test, and click **Save Changes**.

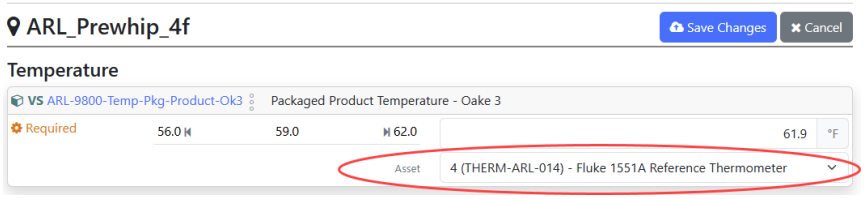
Note: If an asset is not in an acceptable calibration state, or its calibration or verification is due soon, the asset's state is shown in the dropdown in parentheses to the right of the asset (see asset numbers 5 and 27 in the image below). The states are: failed calibration, failed

Copyright 2026 MAP America Inc.

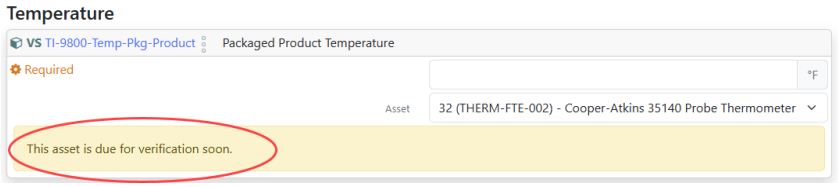
verification, not calibrated, calibration past due, verification past due, calibration due soon, and verification due soon. Out of Service and Retired assets are not listed.



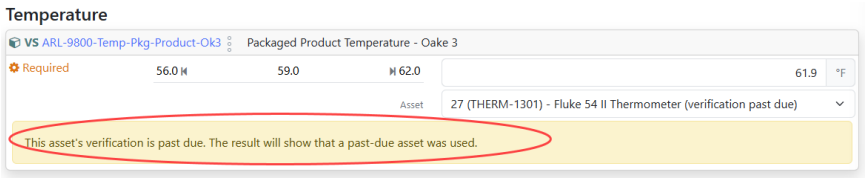
Note: If the asset is in an acceptable calibration state, no warnings will appear, and the asset used will be recorded when the test result is saved.



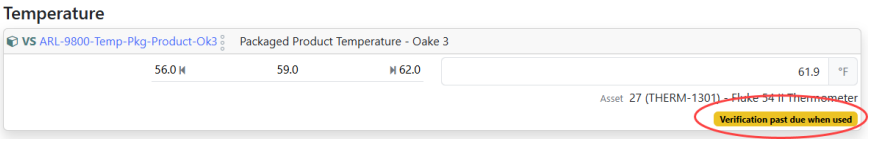
Note: If the asset's **calibration or verification is due soon**, then a warning appears and the test result is allowed to be saved.



Note: If the asset's **calibration or verification is past due** and its **Prevent Use When Past Due** checkbox is not checked, then a warning appears, but the test result is allowed to be saved.

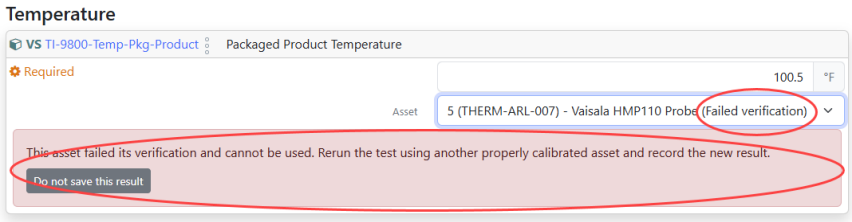


Such test results are marked with a "Calibration past due when used," "Verification past due when used," or "Calibration and verification past due when used" badge.



Note: If the asset is not in an acceptable calibration state due to: (i) **no calibration** (the asset has never been calibrated); (ii) **failed calibration**; (iii) **failed verification**; (iv) **calibration past due** with Prevent Use When Past Due checked; or (v) **verification past due** with

Prevent Use When Past Due checked, then a warning message appears and a different asset must be used before the test result can be saved.



Note: Cases (i), (ii), and (iii) can never be overridden.

Note: For cases (iv) and (v), a user with the AssetPatrol Override Calibration Warning permission instead sees the warning “This asset is past due for calibration.” (or verification) with a **Save anyway** button and a **Do not save this result** button. Clicking **Save anyway** displays “I acknowledge the asset is not in an acceptable calibration state and choose to save the test result anyway.” and a **Justification (required)** box. Enter the justification and click **Save Changes**. The saved test result is marked with the past due badge, and the justification is displayed when the cursor is held over the badge.

Copyright 2026 MAP America Inc.

Chapter 16: Tasks

Introduction

AssetPatrol is tightly integrated with PatrolSuite's centralized task system. When a verification, calibration, or impact assessment is required, AssetPatrol assigns a task to the appropriate user (the Calibration Owner or Impact Owner) and displays the task in PatrolSuite's task system.

While asset verifications are formally assigned to the Calibration Owner, verifications are often completed by other users. Accordingly, any user with the AssetPatrol "Verification Record Edit" permission can perform a verification.

Search All Tasks

Viewing tasks assigned to other users requires the "Search Tasks" permission, which is typically granted to supervisors and other appropriate users. Without this permission, the Tasks page remains available but displays only tasks assigned to the current user and their Direct Reports.

110. To view AssetPatrol tasks assigned to all users, click on **Tasks** in the main navigation menu to expose its submenu. Then click on **Search Tasks**.

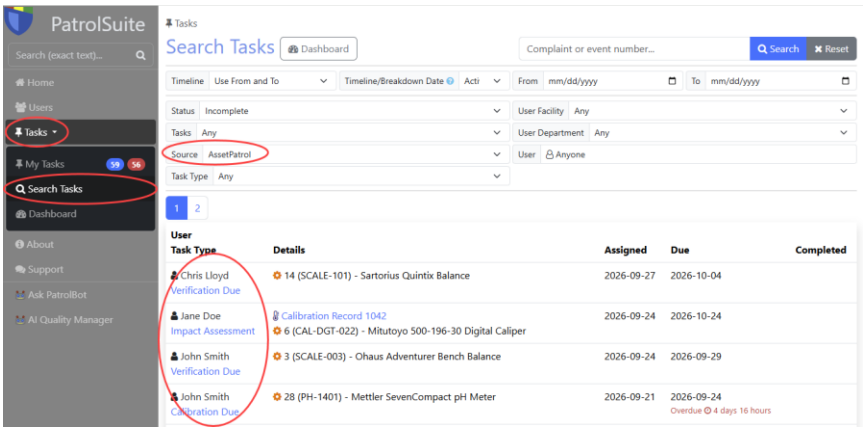
    Note: The Search Tasks page opens with the Status filter set to "Incomplete" by default.

    a. Click on the **Source** filter and select **AssetPatrol**.

    b. Use the available filters, Search field, or the column headers to **locate a task of interest**.

    c. Click on the **Task Type** hyperlink to open the applicable record. For an Impact Warning or Impact Assessment task, the hyperlink opens the applicable calibration or verification record.

    d. **Complete the task** as previously described in this user guide. Once the required activity is completed, the task is automatically marked Completed.



Search My Tasks

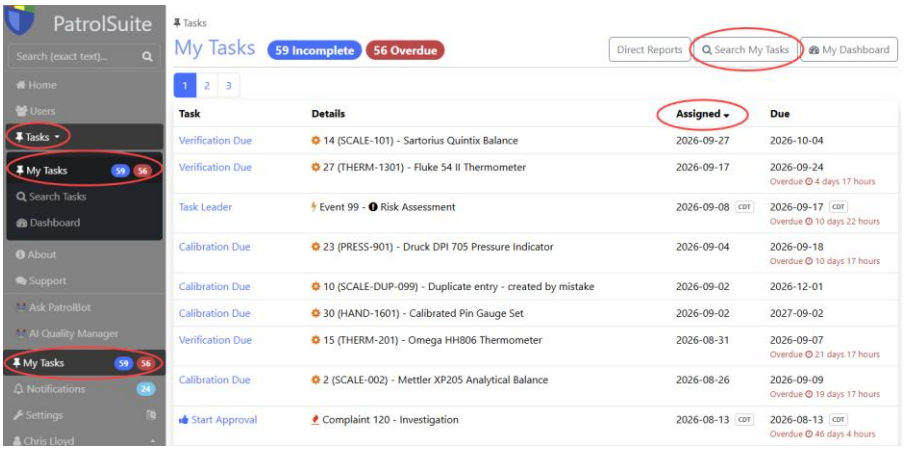
Viewing tasks assigned to other users requires the "Search Tasks" permission, which is typically granted to

supervisors and other appropriate users. Without this permission, the Tasks page remains available but displays only tasks assigned to the current user and his Direct Reports.

111. To view AssetPatrol tasks assigned to you, click on **Tasks** in the main navigation menu to expose its submenu. Then click on **My Tasks** or click on **My Tasks** at the bottom of the main navigation menu.

    Note: The My Tasks page will open. This page provides a listing of ALL tasks assigned to you with the most out of date task at the top. To see the task most recently assigned to you, click on the Assigned column header twice.

a. To view only AssetPatrol tasks assigned to you, click on the **Search My Tasks** button.



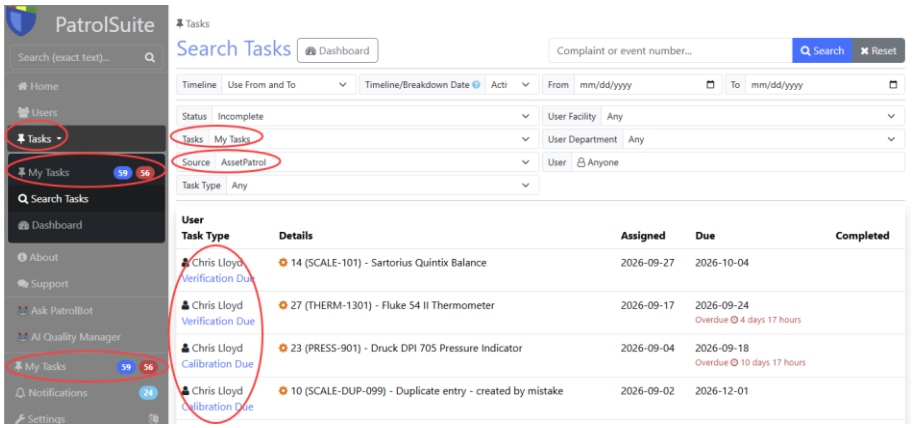
    Note: The Search Tasks page opens with the Status filter set to “Incomplete” and the Tasks filter set to “My Tasks” by default.

b. Click on the **Source** filter and select **AssetPatrol**.

c. Use the available filters, Search field, or the column headers to **locate a task of interest**.

d. **Click on the Task Type** hyperlink to open the applicable asset. For an Impact Warning or Impact Assessment task, the hyperlink opens the applicable calibration or verification record.

e. **Complete the task** as previously described in this user guide. Once the required activity is completed, the task is automatically marked Completed.



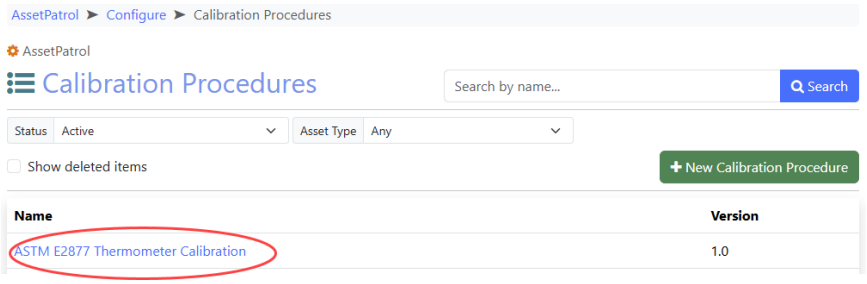
Chapter 17: Localization

Introduction

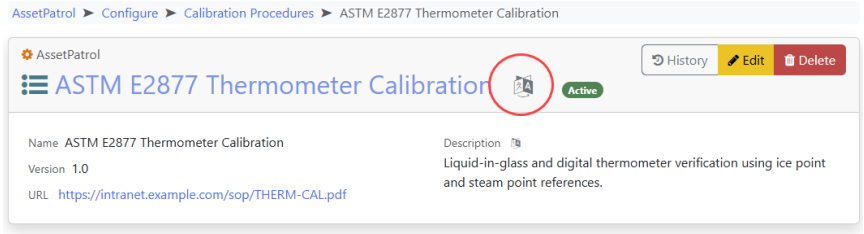
User-entered data, such as Asset Types, Asset Names, and Calibration Procedures, can be translated **manually** or using **PatrolBot**. This chapter provides an example of the localization process, which can be used to translate user-entered data throughout AssetPatrol.

Manually Localize a Calibration Procedure

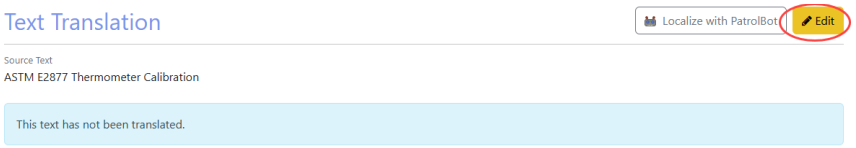
112. To manually translate the procedure Name into other languages, click on the desired calibration procedure from the Calibration Procedures page.



a. Click on the **Localization** icon.



b. Click the **Edit** button.



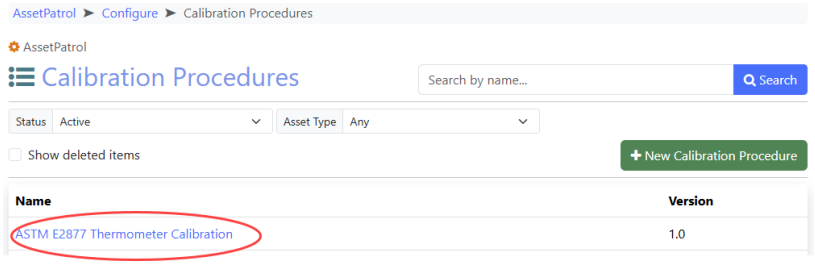
c. Enter the translations as appropriate and click the Save Changes button.



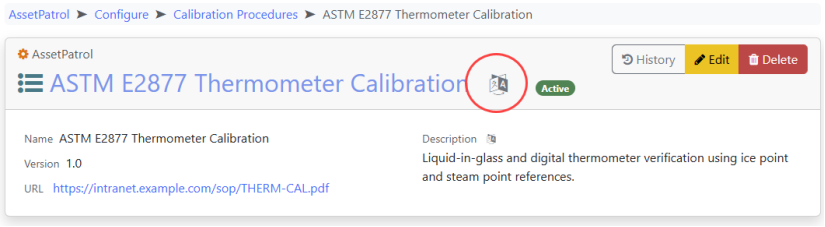
Copyright 2026 MAP America Inc.

Localize a Calibration Procedure using PatrolBot

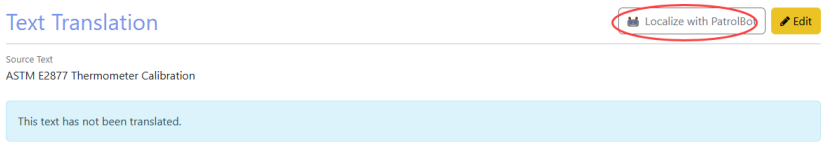
113. To use PatrolBot to translate the procedure Name into other languages, click on the desired calibration procedure from the Calibration Procedures page.



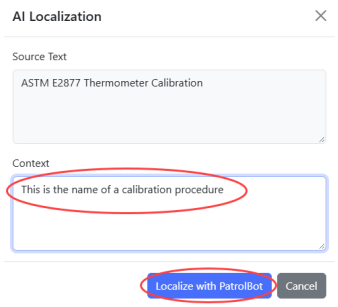
a. Click on the **Localization** icon.



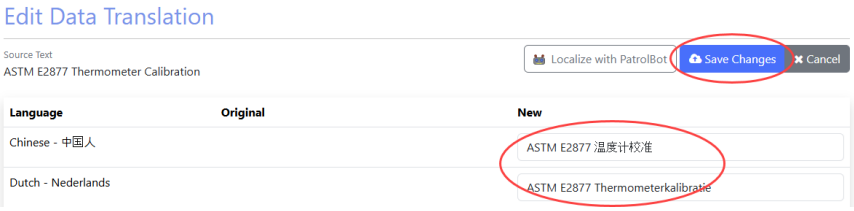
b. Click the **Localize with PatrolBot** button.



c. Enter any context that might help AI understand the context of what is being translated and click the **Localize with PatrolBot** button.



d. Review the translations. If accurate, click the **Save Changes** button. Otherwise click the **Cancel** button and perform the translations manually.



Copyright 2026 MAP America Inc.

Appendix A

Regulatory Standards and Clauses

AssetPatrol capability	ISO 9001:2015	ISO 22000:2018	FDA 21 CFR Part 117	BRCGS Food Safety	FSSC 22000
Maintain calibration/verification requirements	Yes — §7.1.5	Yes — §8.7	Yes — §117.165	Yes — §6.4	Yes — ISO 22000 §8.7
Maintain calibration/verification frequency	Yes — §7.1.5.2	Yes — §8.7	Yes — §117.165	Yes — §6.4.1–6.4.2	Yes — ISO 22000 §8.7
Maintain calibration due date / validity period	Implicit	Implicit	Implicit	Explicit — §6.4.1	Implicit — ISO 22000 §8.7
Identify current calibration/verification status	Explicit — §7.1.5.2	Explicit — §8.7	Indirect	Strong — §6.4.1	Explicit — ISO 22000 §8.7
Ensure calibration/verification is valid prior to use	Explicit — §7.1.5.2	Explicit — §8.7	Strong — §117.165	Strong — §6.4	Explicit — ISO 22000 §8.7
Prevent use of equipment that is not in a valid calibration state	Strong implication	Strong implication	Strong implication	Strong implication	Strong implication
Establish measurement traceability to recognized standards	Yes — §7.1.5.2	Yes — §8.7	As appropriate	Explicit — §6.4.2–6.4.3	Yes — ISO 22000 §8.7
Maintain calibration/verification records	Explicit — §7.1.5	Explicit — §8.7	Yes — §117.165 / §117.305	Explicit — §6.4	Explicit — ISO 22000 §8.7
Control equipment found out of calibration	Explicit — §7.1.5.2	Yes — §8.7	Yes	Explicit — §6.4.4	Yes — ISO 22000 §8.7
Assess validity of previous measurements when equipment is found OOC	Explicit — §7.1.5.2	Yes — §8.7	Yes, where relevant to preventive controls	Explicit — §6.4.4	Yes — ISO 22000 §8.7
Identify product/lots potentially affected by OOC equipment	Supports required assessment	Supports required assessment	Yes, where food-safety controls are affected	Strong — §6.4.4	Supports required assessment
Applies to food-safety measurements	—	Yes	Yes	Yes	Yes
Applies to product-quality measurements	Yes	Limited to FSMS scope	Not generally	Explicit	Limited to FSMS scope

Copyright 2026 MAP America Inc.