User Manual
Aptean Food and Beverage ERP

Quality Control (Power App)

Product Documentation

aptean

Contents

Quality Control (Power App)

Release notes

Article • 8/28/2025 • 2 min read

To view what's new or changed in each release of the Aptean Quality Control (QCL) extension, select the specific release version.

Business Central

Date	Release version	Description
August 2025	2401.6.0.0	Platform release
July 2025	2401.5.0.0	Stability release
December 2024	2401.4.0.0	Stability release
August 2024	2401.3.0.0	Stability release
August 2024	2401.2.0.0	Stability release
June 2024	2401.1.0.0	Stability release
June 2024	2401.0.0.0	Feature release
June 2024	2301.7.0.0	Stability release
May 2024	2301.6.0.0	Stability release
January 2024	2301.5.0.0	Stability release
December 2023	2301.4.0.0	Stability release
November 2023	2301.3.0.0	Stability release
November 2023	2301.2.0.0	Stability release
October 2023	2301.1.0.0	Platform release
July 2023	1.14.110663.0	Stability release
July 2023	1.13.109491.0	Stability release
June 2023	1.12.103620.0	Stability release
May 2023	1.11.96260.0	Stability release

March 2023	[1.10.90258.0](#)	Stability release
February 2023	[1.9.79459.0](#)	Stability release
January 2023	[1.8.78175.0](#)	Feature release
December 2022	[1.7.73551.0](#)	Stability release
September 2022	[1.6.60723.0](#)	Stability release
August 2022	[1.5.56356.0](#)	Stability release
August 2022	[1.5.55777.0](#)	Stability release
June 2022	[1.5.52131.0](#)	Stability release
May 2022	[1.4.49188.0](#)	Stability release

Power Apps

Date	Release version	Description
May 2024	[1.4.162188.0](#)	Stability release
August 2023	[1.3.111671.0](#)	Stability release
March 2023	[1.2.90266.0](#)	Stability release
February 2023	[1.2.79377.0](#)	Stability release
December 2022	[1.2.70094.0](#)	Stability release
December 2022	[1.2.68798.0](#)	Stability release

2401.6.0.0

Release Note • 8/27/2025 • 1 min read

Enhancements/Modifications

With this release of the Aptean Quality Control extension, the *NoSeriesManagement* codeunit has been replaced with the standard *No. Series* codeunit on the *CreateQualityCheckImplFDW* codeunit, to ensure compatibility with Business Central, version 27.

2401.5.0.0

Release Note • 7/2/2025 • 1 min read

Enhancements/Modifications

With this release of the Aptean Quality Control extension, the translation file for the Chinese (zh-CN) language has been added.

2401.4.0.0

Release Note • 12/6/2024 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
251231	The system fails to display quality triggers on the **Trigger Actions** page, preventing their addition after installing the Aptean Quality Control (QCL) extension.

> ⊙ **Note**
>
> The minimum version required for the Aptean Quality Control Power App to operate with this release is 1.4.162188.0.

Quality Control (Power App)

2401.3.0.0

Release Note • 8/29/2024 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
213224	The system incorrectly generates quality checks for items that are listed on the warehouse receipt but have not been received, even partially. This issue occurs because the system includes multiple warehouse receipt lines with zero quantity when posting a partial receipt.

> ⊙ **Note**
>
> The minimum version required for the Aptean Quality Control Power App to operate with this release is
> 1.4.162188.0.

2401.2.0.0

Release Note • 8/14/2024 • 1 min read

Enhancements/Modifications

With this release of the Aptean Quality Control (QCL) extension, the process has been enhanced to manage the *User Group* and *User Group Permission Set* tables. This ensures compatibility with both current and future versions of Business Central, even when these tables are deprecated.

> ⓘ **Note**
>
> - The *User Group* and *User Group Permission Set* tables are removed in Business Central, version 25.
> - The minimum version required for the Aptean Quality Control Power App to operate with this release is 1.4.162188.0.

2401.1.0.0

Release Note • 6/28/2024 • 1 min read

Resolved issue

The following issue has been resolved in this release.

ID	Description
213955	Performance issues occur during pick registration due to the quality alerts generated for temporary records.

> ⓘ **Note**
>
> The minimum version required for the Aptean Quality Control Power App to operate with this release is 1.4.162188.0.

Quality Control (Power App)

2401.0.0.0

Release Note • 6/24/2024 • 1 min read

Enhancements/Modifications

With this release of the Aptean Quality Control extension, the values in the **Date/Time Created** and **Finished Date/Time** fields are correctly updated on the **Quality Alerts** page. This enhancement addresses the issue reported in bug ID #120194.

> ⓘ **Note**
>
> The minimum version required for the Aptean Quality Control Power App to operate with this release is 1.4.162188.0.

Quality Control (Power App)

2301.7.0.0

Release Note • 6/14/2024 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
199647	Permission errors occur while performing production activities in the Aptean Shop Floor Production Power App when users have *Basic* permission sets for the integrated Aptean Quality Control extension.

2301.6.0.0

Release Note • 5/27/2024 • 1 min read

Enhancements/Modifications

The translation files for the following languages have been updated with standard texts for better readability.

- Swedish (sv-SE)
- Dutch (nl-NL)

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2301.5.0.0

Release Note • 1/24/2024 • 1 min read

Resolved issues

The following issue has been resolved in this release:

ID	Description
173380	The blank option is not available in the **Item Type** field on the **Quality Triggers** pages in the Dutch (Belgium) [nl-BE] and Dutch (Netherlands) [nl-NL] versions. Additionally, on the selection of other available options in the **Item Type** field, it directs to the values in the wrong table.

2301.4.0.0

Release Note • 12/13/2023 • 1 min read

Enhancements/Modifications

Modifications were made for this extension to accommodate the changes in the Aptean Quality Control Assurance extension (2301.0.0.0).

2301.3.0.0

Release Note • 11/9/2023 • 1 min read

Enhancements/Modifications

The translation files have been updated to provide precise translations for field labels, tooltips, and other interface elements, resulting in improved accuracy and an enhanced user experience.

2301.2.0.0

Release Note • 11/1/2023 • 1 min read

Resolved issues

The following issue has been resolved in this release:

ID	Description
154273	Certain key combinations were missing in the *QualityAlertFDW* table.

2301.1.0.0

Release Note • 4/29/2023 • 1 min read

Enhancements/Modifications

With this release of the Aptean **Quality Control** extension, the *CheckCreateQualityAlertPurchaseOrder* function within the *QAPurchaseOrderFDW* codeunit is made accessible for use in customizations.

1.14.110663.0

Release Note • 7/26/2023 • 1 min read

Enhancements/Modifications

Modifications were made for this extension to accommodate the changes in the Aptean [Shop Floor Production](#) extension. To know more, see [What's new in version 2.4.110715.0](#).

Quality Control (Power App)

1.14.110663.0

1.13.109491.0

Release Note • 7/26/2023 • 1 min read

Enhancements/Modifications

Modifications were made for this extension to accommodate the changes in the Aptean Reporting extension. To know more, see What's new in version 1.12.109504.0.

1.12.103620.0

Release Note • 6/14/2023 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
120194	Upon posting a **Warehouse Receipt** with the lot number assigned, the system fails to capture the lot number for the corresponding quality alert and creates a duplicate quality alert with the assigned lot number on the **Quality Alerts** page.

Quality Control (Power App)

1.11.96260.0

Release Note • 5/8/2023 • 1 min read

Resolved issues

The following issue has been resolved in this release:

ID	Description
115465	An error occurs while creating a **Released Production Order** when *Family* option is selected in the **Source Type** field.

Quality Control (Power App)

1.10.90258.0

Release Note • 5/8/2023 • 1 min read

Resolved issues

The following issues have been resolved in this release:

ID	Description
91665	The **Inspection Status Code** field value on the **Lot No. Information Card** page is not updated to *RELEASED* even when the Quality Check has a *Passed* status on the Power App.
102599	While executing the Quality Check, the system accepts values other than the target value. While any quality check parameter is rechecked for a desired value, the overall result on the **Final quality check?** dialog box shows *Passed*. However, the status on the **Archived Quality Checks** page shows *Failed*.

1.9.79459.0

Release Note • 4/29/2023 • 1 min read

Enhancements/Modifications

The Aptean Quality Control extension is now updated with minimal API to improve extensibility. The extensibility property applies to tables, pages, and other object types of this extension.

> **ⓘ Note**
>
> Minimal APIs are a simplified approach for building fast HTTP APIs with ASP.NET Core. For more information, see Minimal APIs overview | Microsoft Learn.

1.8.78175.0

Release Note • 5/8/2023 • 1 min read

Features

With this release of the Aptean Quality Control extension, you can access the following cue from the Role Center page for the Business Manager, Warehouse Manager, and Production Manager roles.

>	Cue
Quality Check	No. of Quality Alerts
^	No. of Quality Alerts Due

Resolved issues

The following issues have been resolved in this release:

ID	Description
90645	Quality Check is not created when a filter is applied for the Vendor and Customer attributes on the **Quality Trigger** page.
93266	The **Shipment Date** and **Expected Receipt Date** fields on the **Sales Order** and **Purchase Order** pages are not filled correctly before the quality alert is created. Also, the **Due Date** field is empty on the **Quality Alert** page.

Quality Control (Power App)

1.7.73551.0

Release Note • 4/29/2023 • 1 min read

Resolved Issues

The following issue has been resolved in this release:

ID	Description
49646	When turning off the **Enabled** toggle on the **Dataverse Connection Setup** page, an error occurs instead of putting the job queue activities on hold.

1.6.60723.0

Release Note • 4/29/2023 • 1 min read

Enhancements/Modifications

The following PowerApps Solutions are updated with this release:

PowerApps Solution	Current version installed	Version Supported
Foundation PowerApps	1.3.0	1.4.0 and later versions
Quality Control PowerApps	1.1.0	1.2.0 and later versions

You can now upgrade your PowerApps Solution to the latest version based on the current version installed.

Update Summary

The new version will not impact the *existing installations* for customers. Setup and configuration will stay as is. During import, the AzureBlobStorageAttachments path will be asked depending on the status of configuration.

- You need not update the path if the current version is already configured. The solution is simply replaced with the new version and stays using the current value as is.

- In all other scenarios, the value for AzureBlobStorageAttachments path will be asked during import. The solution will be replaced with the new version and will start using the current value as given during import.

For *fresh installs* of the new version, you will be required to provide the AzureBlobStorageAttachmentsPath in addition to the AzureBlobStorageAttachments Connection. For more information, see Import Procedure.

1.5.56356.0

Release Note • 4/29/2023 • 1 min read

Enhancements/Modifications

Minor technical changes were made to the Aptean Quality Control extension:

- To seamlessly work with the Aptean Integration Layer extension.
- To seamlessly work with the Aptean Foundation Layer extension. This extension holds all the standard table values for its dependent extensions.

Quality Control (Power App)

1.5.55777.0

Release Note • 4/29/2023 • 1 min read

Resolved issues

The following issue has been resolved in this release:

ID	Description
48351	Unable to block the vendor attribute values, when setting up direct permission for Aptean **Advanced Attributes** extension and indirect permission for Aptean **Quality Control** extension.

1.5.52131.0

Release Note • 4/29/2023 • 1 min read

Enhancements/Modifications

Minor technical changes were made to keep our apps in line with the *updated* coding guidelines for Business Central.

1.4.49188.0

Release Note • 4/29/2023 • 1 min read

Enhancements/Modifications

The enhancements in this release are listed below:

- A localized version of the Aptean Quality Control extension is made available for the Switzerland market with the addition of German language code [de-CH].

- Minor technical changes were made to keep our apps in line with the *updated* coding guidelines for Business Central.

1.4.162188.0

Release Note • 5/24/2024 • 1 min read

Enhancements/Modifications

With this release of the Aptean Quality Control extension, quality checks and quality alerts are created only when you register an initial output with a **Post** trigger.

If you register another output with the same production order and lot number or license plate number, no new alert is made to prevent duplicate quality alerts.

Resolved issues

The following issue has been resolved in this release.

ID	Description
196957	Incorrect additional action plan lines are displayed when selecting an action plan on the **Action plans** screen of the Quality Control Power App.
190829	The **Quality Checks** field is not correctly updated on the Shop Floor Production Power App screen when the **Trigger Action Type** is set as *Recurring (Output Quantity)* on the **Quantity Triggers** page in Business Central.

Quality Control (Power App)

1.3.111671.0

Release Note • 8/3/2023 • 1 min read

Resolved issues

The following issue has been resolved in this release:

ID	Description
139680	An error occurs while creating the action plan from the **Quality check** page, which prevents finishing the quality check of the items.

Quality Control (Power App)

1.2.90266.0

Release Note • 4/29/2023 • 1 min read

Resolved issues

The following issues have been fixed in this release:

ID	Description
96695	In the Quality Checks for Food and Beverage Power App, the text in the Measurement tab on the Inspection page is cut off after 80 characters rather than 100, and the text cannot be seen.
74073	In the Quality Checks for Food and Beverage Power App, the long text on the Inspection page overlaps. When DEU localization is selected, the long text overlaps on the Action Plan page.

1.2.79377.0

Release Note • 4/29/2023 • 1 min read

Resolved issues

The following issue has been resolved in this release:

ID	Description
88609	An error occurs while opening the Quality Check Power Apps, when**Multi-Measurement** is added with **Average** formula on Quality Setup and Monitoring Power Apps.

Quality Control (Power App)

1.2.70094.0

Release Note • 4/29/2023 • 1 min read

Resolved issues

The following issue has been resolved in this release:

ID	Description
87373	The Quality Control user settings in the Power Apps are not fetched due to a mismatch in the User Principal Name.

Quality Control (Power App)

1.2.68798.0

Release Note • 9/16/2024 • 1 min read

Resolved issues

The following issues have been resolved in this release:

| ID	Description
81070	On the Power Apps platform, while performing the quality check if you click the recheck button before the **Save** button, a loop is created. This makes the quality check incomplete as the question line is non-editable.
82027	While opening the production order for the first time with the Power Apps platform on a tablet, an error occurs as '-' is used in the field value instead of '0'.
81430	On the Power Apps platform, when the API is slow and the PostProductStatus is not available, the PowerApps code reads the PatchStatus leading to an error.

Introduction

Article • 8/1/2025 • 4 min read

With the Aptean Quality Control (QCL) for Food and Beverage module, it is possible to easily create quality checks and execute them on the work floor. Quality checks can be initiated by triggers in Microsoft Dynamics 365 Business Central. After executing the checks, there is direct insight into all results, and deviations can be immediately converted into actions.

The Quality Control module consists of an Extension in Microsoft Dynamics 365 Business Central and three apps in Microsoft PowerApps: Aptean Quality Control for Food and Beverage app, Aptean Quality Action Plans for Food and Beverage app, and the Aptean Quality Control Setup and Monitoring App.

The Quality Control extension in Dynamics 365 Business Central makes it possible to create quality triggers. These quality triggers ensure that quality check alerts are created when a specific action is executed, such as releasing or posting a document.

After executing an action linked to a quality trigger, the trigger creates a quality alert. This quality alert creates a quality check and sends the quality check to Dataverse. All data that is needed for creating a quality check is stored in Microsoft Dataverse, which stores and manages all data that is used by power apps. This data must be sent first to Dynamics 365 Business Central. The information exchange between Dataverse and Dynamics 365 Business Central takes place through the Dataverse Connection Setup and job queues. See Microsoft Docs for more information about the Dataverse Connection Setup.
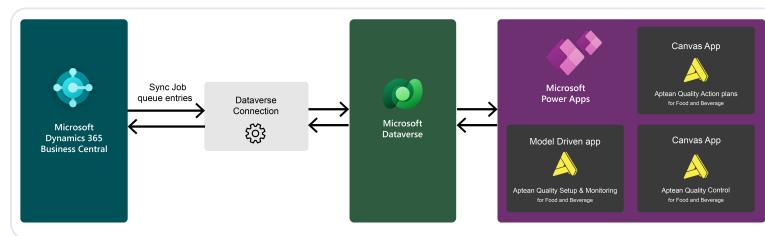
In the app 'Aptean Quality Control Setup and Monitoring,' you will find the setup for creating quality checks and planning the follow-up actions in case of failure. Per quality check, it is possible to set up which measurements must be taken. It is possible to set specific targets for these measurements. If the measurement does not meet the set targets, an action plan can be activated.

The app 'Aptean Quality Control for Food and Beverage' is intended for carrying out the checks. When a quality trigger is triggered, a quality check is created and visible in the app. In the app, one can register the taken measurements per check and add photos and comments as desired. After all measurements have been registered, the result is calculated. If one or more measurements did not meet the standards and there are action plans linked to these measurements, an action plan can be created. The action plans can be opened and executed from the 'Aptean Quality Action Plans for Food and Beverage' app. This app is opened separately or direct from the Aptean Quality Control for Food and Beverage app. When the quality check is finished, the status and result are sent back to Dynamics 365 Business Central.

⚠️ **Important**

The Aptean Quality Control (Power Apps) extension is being deprecated. The support for the Power Apps versions will end on January 28, 2026. To continue receiving updates and support, switch to the Aptean Quality Control (BC) extension.

Setup

Article • 12/23/2024 • 1 min read

The following setups are required.

- [Manage permission sets](#)
- [Quality Control Setup and Monitoring - Setup](#)
- [Quality Control Setup and Monitoring - Measurements](#)
- [Quality Control Setup and Monitoring - Plans](#)
- [Dynamics 365 Business Central setup](#)
- [Business Central setup](#)
- [Power Apps setup](#)

Manage permission sets

Article • 12/23/2024 • 3 min read

Permission sets in Business Central define a user's access level to various features and data within this extension.

We provide the following system permission sets:

- Direct

- Indirect

Direct permission sets

Users with this permission set can perform specific actions directly without requiring additional approvals or workflows. These sets include permissions to read, modify, delete, and create data.

The direct permission set ID for this extension is *QUALITYCONTROLFDW*.

Indirect permission sets

Users with this permission set can perform specific actions. This is used in conjunction with other permission sets and typically involves additional conditions or approvals before an action can be completed.

The indirect permission set ID for this extension is *QUALITYCONTRBASICFDW*.

User-defined permission sets

In addition to the system permission sets we provide, you can create new permission sets or copy system permission sets and modify or delete access to specific entities according to your requirements. For more information, see [Assign permissions to users and groups](#).

Assign a permission set

1. Select the Search icon , enter **Users**, and then choose the related link.
   The **Users** list page opens.

2. Navigate to the username for which you want to assign the permission set and select it.
   The **User Card** page opens.

3. On the **User Permission Sets** FastTab, in the **Permission Set** field, enter the valid permission set for this extension.

   The associated fields are automatically updated based on the entered value.

   The user has the necessary permissions to use the features of the Aptean Quality Control extension, ensuring secure and role-based access.

Quality Control Setup and Monitoring - Setup

Article • 4/3/2023 • 26 min read

In the setup which is available in the 'Quality Control Setup and Monitoring' app, you can configure all the basic data needed for a quality check, such as quality teams, warehouses, equipment, and units of measure.

General Overview

The following steps are involved in the Quality Control setup.

1. Set up Quality Control in Business Central

   a. Assign the item, customer and vendor attributes code which you want to use in the setup of the quality triggers. This is not a mandatory step.

   b. Assign the quality check number series: Do not make this number too long due to the limited space of the QC number in the app.

   c. Assign a Job queue category for

      i. Creating recurring quality checks in shop floor production based on elapsed time or posted output quantity.

      ii. Creating real-time quality checks in shop floor production which is done when:

         - Starting/stopping a work center

         - Starting/stopping a production order

         - Starting after a failure

2. Enable the Dataverse integration in Business Central

3. Check if Job Queues are running

The job queues and their purposes are described as follows:

Job Queue	Purpose
Codeunit 5339-CDSWAREHOUSEFDW	Synchronizing locations from Business Central to Dataverse to setup the Team Assignment
Codeunit 5339-CDSWORKCENTERFDW	Synchronizing locations from Business Central to Dataverse to setup the Team Assignment
Codeunit 5339-CDSQUALITYPLANFDW	Synchronizing Quality Plans from Dataverse to Business Central
Codeunit 5339-CDSQUALITYCHECKLINEA	Synchronizing Quality Line Attachments from Dataverse to Business Central

Codeunit 5339- CDSQUALITYCECKUSERF	Synchronizing Quality Control users from Dataverse to Business Central
Codeunit 70219393-CreateQualityCheckJQFDW	Create and synchronize Quality Checks from Business Central to Dataverse and sync results back to Business Central
Codeunit 70234069-SFPCreateQualityCheckJQFDW	Required when you want to use recurring Quality Checks in production in Shop Floor Production

1. Set up the Quality Control app (Power Apps, Aptean Quality Setup and Monitoring for Food and Beverage)

   a. Check in Quality Control app if work centers and locations are synchronized from Business Central. You can force this from Business Central through Dataverse setup by navigating to related Integration Table mappings:
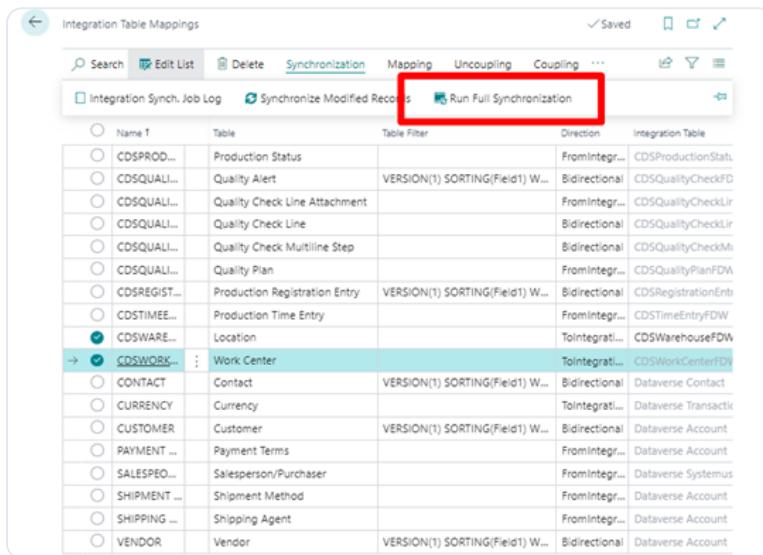
   b. Create master data for Quality Checks

      i. Equipment (optional)

      ii. Unit of Measures

      iii. Options

      iv. Measurements and Multi Measurements

   c. Create quality plans with the created master data

   d. Change the quality plan to certified

   e. Synchronize the quality plan to Business Central. This will be done by a job queue which is running every 60 minutes. Change this interval if required. You can also do this manually from the Integration Table Mapping in BC.

   f. Create quality triggers in Business Central and link the appropriate quality plan.

   g. Create in the Power Apps, Aptean Quality Setup and Monitoring, the Quality Teams:

i. Create a Quality Team and Assign users to this Quality Team.

ii. Create the Team Assignment: A Quality Check will be automatically assigned to a team based on the Check Point in the Quality Plan (= Type of check, e.g. inbound check) and the location (warehouse) of the goods.
Next to the locations, you also can use work centers in the Team Assignment. This is used when quality checks are created from Aptean [Shop Floor Production](#) extension.

> ⓘ **Note**
>
> If you have multiple companies on Business Central, you must setup the Team Assignment per company.

Quality Control Users

Quality control users refer to users who can register a quality check or an action plan.

1. Select the Search icon 🔍 , enter **Quality Control Users**, and then choose the related link.

2. Fill in the **Office365 User** field.

The Quality Control User is now set up.

> ⓘ **Note**
>
> If the user is not set up, you will see the following error in PowerApps: *No valid license found for email address: name@company.com*.

Quality Teams

A quality team is a group of users who can register a quality check or an action plan. This quality team is linked to a quality plan via a check point or to an action plan line. A quality team can be set up with Office 365 users. It is possible to assign a user to multiple quality teams.

1. Select the Search icon 🔍 , enter **Quality Teams**, and then choose the related link.

2. On the action bar, click **New**.

3. Enter **Name**.

4. On the action bar, click **Save**. Alternatively, press **CTRL+S** to save the entry.
   After saving, it is possible to add users to the quality team.

5. On the action bar, click **Add Existing User**.

6. Enter a name and select an option from the list.
   Only existing office 365 users can be selected.

7. Click **Add**.

A quality team is now set up. For linking quality teams in a quality check, the quality team must be linked to a check point via a team assignment. See Team Assignments for more information.

Equipments

Pieces of equipment are the necessary tools for measurement, such as a thermometer or a scale. The equipment must be linked to a measurement to use in a quality check. This is purely for information in the quality check. It is possible to add a serial number to the equipment.

1. Select the Search icon , enter **Equipment**, and then choose the related link.

2. On the action bar, click **New**.

3. Enter **Name**.

4. Enter Serial Number.

5. On the action bar, click **Save**. Alternatively, press **CTRL+S** to save the entry.

A piece of equipment is now set up and can be linked to a measurement.

Units of Measure

Units of measure are used for clarifying the measured values. The unit of measure can be linked to a measurement when setting up the measurement later on.

1. Click on the item **Units of Measure**.

2. Click on the menu item **New**.

3. Enter **Name**.
   This name is displayed in the Quality Check app beside the measured value, so it is suggested to use, for instance, °F instead of 'Fahrenheit.'

4. On the action bar, click **Save**. Alternatively, press **CTRL+S** to save the entry.

A Unit of Measure is now set up and can be linked to a measurement.

Warehouses

A warehouse indicates where the measurement is being carried out. A warehouse must be linked to a team assignment in order to use it for a quality check. The warehouses created in Dynamics 365 Business Central are sent with the Dataverse connection to Microsoft Dataverse. These warehouses are shown for each company, so it is possible to link them to a team assignment.

1. Select the Search icon ![search icon], enter **Warehouses**, and then choose the related link.

All warehouses available on Business Central are shown for each company and can be linked to a team assignment.

Work Centers

When executing a quality check for production, it is possible to add work centers where the measurement is being carried out. A work center must be linked to a team assignment in order to use it for a quality check. The work centers created in Dynamics 365 Business Central are sent with the Dataverse connection to Microsoft Dataverse. These work centers are shown for each company, so it is possible to link them to a team assignment.

1. Select the Search icon ![search icon], enter **Work Centers**, and then choose the related link.

All work centers available on Business Central are shown for each company and can be linked to a team assignment.

Check Points

A checkpoint describes the type of quality check that must be performed, such as RECEIPT or PRODUCTION. A checkpoint needs to be linked to a quality plan. The checkpoint, in combination with the location and/or warehouse, is used to assign the quality check to a specific quality team.

1. Select the Search icon ![search icon] „enter **Check Points**, and then choose the related link.
2. On the action bar, click **New**.
3. Enter **Name**.
4. On the action bar, click **Save**. Alternatively, press **CTRL+S** to save the entry.

A check point is now set up and can be linked to a team, warehouse, or work center through a team assignment.

Team Assignments

With the team assignment, it is possible to link a quality team to a checkpoint, warehouse and/or work center.

1. Select the Search icon   , enter **Team Assignments**, and then choose the related link.

2. On the action bar, click **New**.

3. Select Quality Team.

4. Select Warehouse.

5. Select Check Point.

6. If applicable, select **Work Center**.

7. On the action bar, click **Save**. Alternatively, press **CTRL+S** to save the entry.

A team assignment is now set up.

Options

In the setup for 'options,' it is possible to create different options (for example, 'Color Banana'). These options can have several option values (for example: 'Yellow, 'Brown' and 'Green'). A sequence needs to be attached to an option value (for example, Green=1, Yellow=2, Brown=3). It is important to know that the sequence is set up so that the lower limit warning is linked to the lowest value in the sequence, and the highest limit warning is linked to the highest value in the sequence. The options can be chosen if a measurement is of the measurement type 'Option.'

1. Select the Search icon   , enter **Options**, and then choose the related link.

2. On the action bar, click **New**.

3. Enter **Name**.

4. On the action bar, click **Save**. Alternatively, press **CTRL+S** to save the entry.

5. On the action bar, click **Add New Option Value**.

6. Enter **Value**.

7. Enter Sequence.
   The option values are sorted by sequence. It is possible to have multiple option values with the same sequence.

8. On the action bar, click **Save & Close**.

9. Repeat these last steps to add as many option values as desired to the option.

An option value is now set up and can be used for measurement.

Languages

It is possible to select a language in the Quality control apps. The languages and translations first need to be set up in the Setup and Monitoring app.

1. Select the Search icon   , enter **Languages**, and then choose the related link.

   The **Languages** list page opens.

2. On the action bar, click **New**.

3. Enter LanguageCode.

   It is important that the LanguageCode is the two-character abbreviation for the language.

4. Enter Description.

5. Enter Windows Language ID.

   The Windows Language ID can also be included in the languages. This is the ID that is defined in Microsoft Dynamics 365 Business Central. This code is used to translate the data in the App that originates from Dynamics 365 Business Central, such as Item description. It is important that this translation is included in Dynamics 365 Business Central.

6. On the action bar, click **Save**. Alternatively, press **CTRL+S** to save the entry.

The language is now set up and can now be selected in the Quality Control apps.

The date and time format fields on the Quality Control Power App change according to the selected language. The table below shows the languages and their respective date and time formats.

Language Code	Language Name	Date Format	Date-Time Format
da-DK	Danish (Denmark)	dd-mm-yy	dd-mm-yy HH:mm
de-DE	German (Germany)	dd.mm.yy	dd.mm.yy HH:mm
en-US	English (United States)	mm/dd/yy	mm/dd/yy hh:mm tt
en-AU	English (Australia)	dd/mm/yy	dd/mm/yy h:mm
en-CA	English (Canada)	yy-mm-dd	yy-mm-dd h:mm
en-GB	English (Great Britain)	mm/dd/yy	mm/dd/yy h:mm
en-NZ	English (New Zealand)	yy/mm/dd	yy/mm/dd h:mm
es-ES	Spanish (Spain)	dd/mm/yy	dd/mm/yy h:mm

fr-FR	French (France)	dd/mm/yy	dd/mm/yy HH:mm
fr-BE	French (Belgium)	dd-mm-yy	dd-mm-yy HH:mm
fr-CA	French (Canada)	yy-mm-dd	yy-mm-dd HH:mm
nl-NL	Dutch (Netherlands)	dd-mm-yy	dd-mm-yy HH:mm
nl-BE	Dutch (Belgium)	dd/mm/yy	dd/mm/yy H:mm

App Settings

When there are multiple apps available that need to be linked to the Quality Control apps, for example, when opening the Aptean Quality Action Plans app from the Aptean Quality Control for Food and Beverage app, it is necessary to add the App ID. The following App IDs are available right now:

The App ID can be found on the details page of the app.

1. Select the Search icon , enter **App settings**, and then choose the related link.

2. On the action bar, click **New**.

3. Enter **App Name**.

4. Enter **App ID**.

5. On the action bar, click **Save & Close**.

The app ID is now setup for linking between apps.

When selecting the app deeplinks, such as Quality Checks, an error message may display.

This error message will show when the App Settings are incomplete or incorrect.

1. Check if the App Name and App ID has been entered correctly.

2. To view and copy the correct app ID, follow these steps.
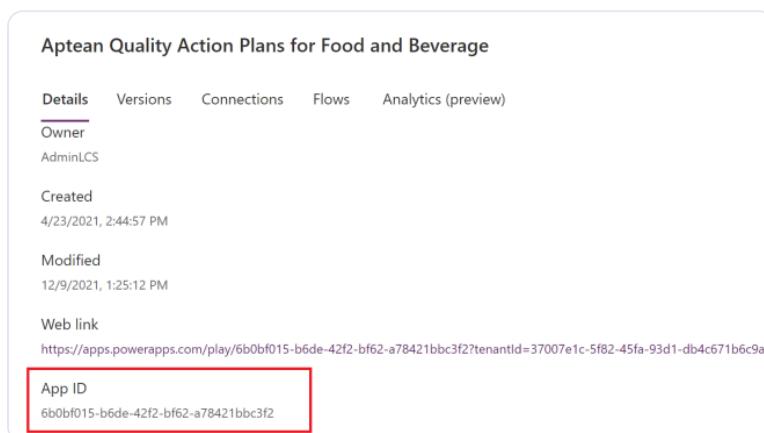
Quality Control Setup and Monitoring - Measurements

Article • 4/3/2023 • 5 min read

Measurements

A Measurement indicates what kind of measurement must be executed during a quality check. Different measurements can be linked together in a quality plan. Measurements can have the following measurement types:

- Text: A text field is for information purposes only. No targets can be linked to it.

- Decimal

- Option: You can select the options that are created in the options setup.

- Date: A date field is for information purposes only. No targets can be linked to it.

- Select the Search icon [icon] ,enter **Measurements** and then choose the related link.

- On the action bar, click **New**.

- Enter Description.

- Click the **Measurement Type** field.

- Select a type of measurement, for instance, 'Option.' The types 'Image,' 'Scan' and 'Signature' are not supported in this version.

Depending on the measurement type, different fields are shown.

- In combination with the measurement type 'Decimal,' the following fields must be filled - 'Inequality Symbol' and the field 'Unit of Measure.'

- In combination with the measurement type 'Option,' a measurement option must be selected.

- Click the **Measurement Option** field.

- Select an option from the list.

- On the action bar, click **Save**. Alternatively, press **CTRL+S** to save the entry.

A measurement of the type 'Option' is now set up.

Multi-Measurements

Whereas a 'normal' measurement can be used to register one measurement at a time, a 'Multi Measurement' can be used to register multiple measurements at once and calculate the result using a formula. An example for using

multi-measurements is the control of the ?-weight. It is possible to add 3 formulas for a multi-measurement. The following formulas can be added:

- Minimum

- Maximum

- Average

- Sum

The targets that are set up for a multi measurement are used for all selected formulas. For example, The first formula calculates the average of all measurements, and the second formula calculates the lowest value of all measurements. Both formulas are evaluated against the same limits.

1. Select the Search icon   ,enter **Multi Measurements** and then choose the related link.

2. On the action bar, click **New**.

3. Enter Description.

4. Click the **Formula 1** field.

5. Select the required option from the list: Min, Max, Sum, or Average.

6. On the action bar, click **Save**. Alternatively, press **CTRL+S** to save the entry.

7. On the action bar, click **Add New Multi Measurement Line**.

8. Enter Description.

9. Click the **Measurement** field.

10. Select the required option from the list.

11. Enter Line Number.

12. On the action bar, click **Save & Close**.

A multi measurement is now set up.

Quality Control Setup and Monitoring - Plans

Article • 4/3/2023 • 8 min read

All measurements that must be carried out at a specific moment in time by a user are combined into a quality plan. For example, when a receipt is registered, the measurements 'is the truck clean,' the temperature, and weight must be checked. Those three measurements are combined into one quality plan. The limits per measurement can also be noted in the quality plan.

Quality Plans

In the header of the Quality Plan, the 'general' information for the Quality plan is set up. Every Quality Plan needs to have a unique Code, Description, Check Point, Version, Valid from Date, and a status.

1. Select the Search icon   , enter **Quality Plans** and then choose the related link.

2. On the action bar, click **New**.

3. Enter **Code**.

4. Enter **Description**.

5. Click the **Check Point** field.

6. Select the required option from the list.
   The checkpoint, in combination with a warehouse and/or work center, determines which team should execute the quality check. See chapter 'Team assignments' for more information.

7. Enter **Version**.
   If there is a Quality Plan with the same 'Code,' the Quality Plan with the highest 'Version' is used.

8. Click the **Valid From** field.
   The 'Valid From' date indicates when the Quality Plan can be used. If the 'Valid From' date is before the work date, the quality plan cannot be selected in Microsoft Dynamics 365 Business Central when creating a quality trigger.

9. Select the date from which the quality plan may be used.

10. Click the **Status** field.

11. Select the required option from the list: Open, Certified, Closed.
    The status indicates that the Quality Plan can be used. Only if the status is 'Certified' the Quality Plan can be selected in Dynamics 365 Business Central when creating a quality trigger.

12. On the action bar, click **Save**. Alternatively, press **CTRL+S** to save the entry.

Now the outline of the quality plan is set up. Next, the quality plan lines can be added. In the quality plan lines will be defined which measurements should be performed.

1. On the action bar, click **Add New Quality Plan Line**.

2. Enter **Line Number**.

    The line number indicates the sequence of the measurements in the quality plan.

3. Click the **Measurement** field.

4. Select the required option from the list.

5. Enter **Lower Limit** value.

When the value entered for this measurement during the check is lower than the lower limit value, then the measurement is failed.

Depending on the inequality symbol in the measurement line with measurement type 'Decimal,' it is possible to add some targets. For example, when the inequality symbol is < (less than), it is only possible to enter the Upper Limit Value. Also, with the measurement type 'Option,' it is possible to add some targets. The sequence that is entered for the option value decides if the selected option is within the targets. Also, with the measurement type 'Option,' it is possible to add some targets. The sequence that is entered for the option value decides if the selected option is within the targets.

If an upper- or lower 'warning' limit value is added in the app, you will receive a warning if the measurement is between the warning limit value and the limit value.

1. Enter **Upper Limit** value.

    When the value entered for this measurement during the check is higher than the upper limit value, then the measurement is failed.

2. Click **Mandatory**.

    'Mandatory' indicates whether it is mandatory to enter the result of the measurement.

3. Click **Must Pass**.

    'Must pass' indicates whether it is necessary for the measurement to fall within the targets.

When the value that a user measures during a check does not fall within limits, an action plan might need to be executed. Per measurement (inside an action plan), an action plan template can be linked. For example, when the measurement is 'check the temperature of the dough,' a linked action plan might be 'adjust the oven settings.'

1. On the action bar, click **Action Plan Template**.

2. Select the required option from the list.

3. On the action bar, click **Save & Close**. Alternatively, press **ALT+S** to save and close the entry.

4. Add as many quality plan lines to the quality plan as desired.

A quality plan is now set up.

For example,

If you set an option field and set the values as *Yes* and *No*, considering the target value on the quality plan is *Yes*, the system will give an error if you enter *No*.

However, the upper and lower limit values must first be set for this to function as expected.

Consider the option *Yes* is set with the value *10* and the option *No* is set with the value *20*,

- If the optimal situation in your Quality Plan must be *Yes*, then you must fill the **Upper Limit** with the value *10*. So, the value of *No*, which is *20* and is greater than *10*, will be *false*.

- If the optimal situation in your Quality Plan must be *No*, then you must fill the **Lower Limit** with the value *20*. So, the value of *Yes*, which is *10* and is less than *20*, will be *false*.

Action Plan Templates

It is possible to link an action plan template to a measurement. If a measurement within a quality check has the status 'Failed,' an action plan can be initiated by the system. The action plan is based on the action plan template. For example, when the measurement is 'check the temperature of the dough,' a linked action plan template might be 'adjust the oven settings.' Within this action plan, there might be several steps, such as 'reset the oven,' 'turn on Button A,' and 'inform your manager.'

1. Select the Search icon , enter **Action Plan Templates** and then choose the related link.

2. On the action bar, click **New**.

3. Enter **Name**.

4. On the action bar, click **Save**. Alternatively, press **CTRL+S** to save the entry.

5. On the action bar, click **Add New Action Plan Template Line**.

6. Enter **Name**.
   This is the question or task the employee will view in the Quality Check app.

7. Enter **Line Number**.
   It is possible to create a 'Question' or a 'Task' step in an action plan template. A question step can be answered with 'Yes' or 'No.' Depending on the answer to the question, it can be indicated what the next step in the action plan should be.

8. Click the **Action Type** field.

9. Select the required option from the list: Question, Task.
   This is the quality team that is responsible for executing the step. Users can in the app filter on action plans that contain steps linked to their team.

10. Click the **Quality Team** field.

11. Click the **Team QC** field.

12. Enter **Due Date Calculation**.
    The due date calculation specifies the number of days in which the task or question must be executed. If the due date calculation field is empty, the work date will be the due date.

13. Enter **Instruction Notes**.

14. On the action bar, click **Save**. Alternatively, press **CTRL+S** to save the entry.

Now an action plan template is created.

Dynamics 365 Business Central setup

Article • 4/3/2023 • 4 min read

Dataverse Setup

The registrations made in the Aptean Quality Control (QCL) for Food and Beverage app are saved in Microsoft Dataverse. Before synchronizing the registrations from Dataverse to Dynamics 365 Business central, a connection must be made.

The Dataverse connection setup is standard functionality within Dynamics 365 Business Central and can be done via an assisted setup guide.

There are a few pieces of information that must be ready before creating the connection:

- The URL for the Dataverse environment to connect. If the Dataverse Connection Setup assisted setup guide is used to create the connection, the environments are automatically discovered, but it is also possible to enter the URL of another environment in your tenant.

- The username and password of an account that has administrator permissions in Business Central and Dataverse.

- Select the Search icon , enter **Dataverse Connection Setup** and then choose the related link.

- Click **Dataverse Connection Setup**.

- Enter the **Environment URL** for the Dataverse environment to connect to.

- Enter **Client Id**.

- Enter **Client Secret**.

- Enter **Redirect URL**.
  This is the URL for the Dynamics 365 Business Central environment that is used for the connection.

- Turn on the **Enabled** toggle.

- Log in with an account that has administrator permissions in Dynamics 365 Business Central and Common Data Service.

After creating the connection with Dataverse, the job queue entries must be created that manage the scheduled synchronization between Dataverse and Dynamics 365 Business Central.

If the Dataverse connection is already enabled, then it is only necessary to execute the function 'Use Default Synchronization Setup' to synchronize the jobs and table mappings for the Quality Control extension.

1. On the action bar, click **Actions** > **Use Default Synchronization Setup**.
   A dialog box opens displaying the following message:
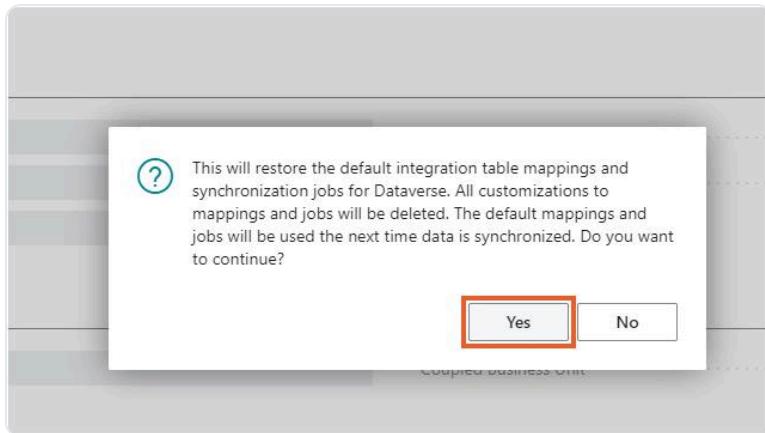
2. Click **Yes**.

3. Click **OK**.

When the synchronization is completed, the job queues are created for the synchronization between Dataverse and Dynamics 365 Business Central.

Show created job queue entries

On the action bar, click **Related** > **Synch. Job Queue Entries**.

The created job queue entries are shown. The created job queue entries are recurring jobs with default 5 minutes between the runs. This means that when a value is sent from Dataverse, the value is visible a maximum of 5 minutes later in Dynamics 365 Business Central.

Business Central setup

Article • 5/10/2023 • 18 min read

Quality Setup

The basic settings for the Quality Triggers can be found in the Quality Setup. When creating a Quality trigger, it is possible to select one Item-, Vendor- and Customer Attribute. These Attributes can set up in the Quality Setup. Then, if a source document is processed containing one of these attributes, a Quality Alert is created.

When creating a Quality Check in Microsoft PowerApps, these apps use Dynamics 365 Dataverse to import files. Additional installation and setup are needed for Dataverse. Please contact your local Foodware 365 reseller for help with the installation.

1. Select the Search icon   ,enter **Quality Control Setup** and then choose the related link.

2. Click **Quality Control Setup**.

3. Click the lookup button   in the **Item Attribute** field.

4. Select the required**Name**.

5. Click **OK**.

6. Click the lookup button   in the **Customer Attribute**field.

7. Select the required **Name**.

8. Click **OK**.

9. Click the lookup button   in the **Vendor Attribute** field.

10. Select the required **Name**.

11. Click **OK**.

The setup for Quality Check is now set up.

Quality Triggers

A quality trigger ensures that a quality alert is created during a release or booking of a document or (if the inspection status extension is installed) after changing the inspection status of a lot number. For more details regarding the integration with this extension, see chapter 'Quality Check integration with Inspection Status.' This quality alert ensures that a quality check is created in the Aptean Quality Control for Food and Beverage app.

For the following trigger types is it possible to create a quality check when a trigger action is executed.

The image below shows an overview of all possible trigger types and actions.

Trigger Type	Create	Release	Post	Change	Start Work Center	Stop Work Center	Failure Work Center	Start Production Order	Finish Production Order	Recurring (Time)	Recurring (Output Quantity)
Purchase Receipt	✓		✓								
Sales Return Receipt	✓		✓								
Sales Order		✓									
Sales Return Order		✓	✓								
Purchase Order		✓	✓								
Purchase Return Order		✓									
Sales Shipment	✓	✓									
Purchase Return Shipment	✓	✓									
Transfer Order		✓	✓								
Transfer Shipment	✓	✓									
Transfer Receipt	✓		✓								
Production Order			✓		✓	✓	✓	✓	✓	✓	✓
Inspection Status (of a lot)				✓							

For the quality trigger action 'Recurring,' it is only possible to select one option, 'Time' or 'Output quantity,' for one specific item. When the system finds both triggers for a production order, the first one is used for creating a quality check.

1. Select the Search icon ![search icon], enter **Quality Triggers** and then choose the related link.
2. Click **Quality Triggers**.
3. On the action bar, click new **New**.

Set up Quality Triggers

1. Click the **Trigger Type** field.
2. Select the required option from the list.

3. Click the lookup button ![lookup button] in the **Trigger Action** field.
4. Select a **Trigger Action**.
   Depending on the chosen document type, the possible document actions are shown.
5. Click **OK**.
6. Click the **Location** field.

7. Select a **Location**.

8. Click the **Quality Check Type** field.

   The 'Product' quality type indicates that a check is specific to a product. This type is checked per document line if a quality check needs to be created. The data, such as location, is therefore taken from the document line. The quality type 'General' indicates a general check. These checks are based on the document header and can only be created once per document. The data, such as location, is taken from the document header.

9. Select a **Quality Check Type**: Product, General

10. Click the **Item Type** field.

11. Select an **Item Type**: Item, Item Attribute, All Items

12. Click the lookup button   in the **No.** field.

Depending on the Item Type, the Item Attribute Values or the Items List is opened. If the Item Type is All Items, the cell No. remains empty.

1. Select a **No.**

2. Click **OK**.

To avoid a wrong setup, the system checks if a valid combination can be created in trigger type and source type combination.

1. Click the **Source Type** field.

2. Select a **Source Type**: Customer, Vendor, Customer Attribute, Vendor Attribute, Work Center.

3. Click the lookup button   in the **Source No.** field.

4. Select a **No.**

5. Click **OK**.

The quality plans are set up in the Aptean Quality Control Setup and Monitoring for Food and Beverage app and saved in Microsoft Dataverse. With the Dataverse connection in Dynamics 365 Business Central, it is possible to retrieve the quality plans. These quality plans (with quality plan lines) are shown on the page 'CDS Quality Plans in Dynamics 365 Business Central'.

1. Click the **Quality Plan** field.

2. Select a **Quality Plan**.

3. Click the **QC Finished Before Posting** field.

If the checkmark 'QC Finished Before Posting' is selected, the quality check first must be finished in the Aptean Quality Control for Food and Beverage app before the document can be posted in Dynamics 365 Business Central.

For the trigger actions; 'Start Workcenter' and 'Failure Workcenter,' it is also possible to select the checkmark 'QC Finished Before Posting' and then it is not possible to start the production order in the Aptean Shop Floor Production for Food and Beverage app before the quality check is finished.

Quality Alerts

When the trigger action is executed for which a quality trigger was set, a quality alert is created.

Quality Alerts per document

It is possible to see in a source document whether and if so, which quality alerts are created.

The quality alerts can be shown from the following pages:

- Purchase Order

- Purchase Return Order

- Sales Order

- Sales Return Order

- Lot Info card

- Released Production Order card

- Released Production Order list

- Finished Production Order card

- Finished Production Order list

Open a source document, such as a sales or purchase order.

1. On the action bar, click **Related** > **Order** > **Quality Alerts**.

All quality alerts that are created from this document are shown.

Quality Alerts Overview

1. Select the Search icon   , enter **Quality Alerts** and then choose the related link.
   The **Quality Alerts** page opens.

An overview of all created quality alerts is shown. In this overview, the following information is presented:

- It shows if there is already a quality check created. When a quality check is created, it is possible to open the check by selecting the quality check number. On the page that opens, all quality check lines with entered values

are shown except the information of the quality action plans.

- It shows the status of the quality alert: Open, Skipped, or In progress.
- It shows the result (passed, failed) of the quality check linked to the quality alert.

Skip Selected Quality Alerts

With the function 'Skip Selected Quality Alerts,' the status of the quality alert is set to 'Skipped.' The quality checks linked to skipped quality alerts are hidden in the Aptean Quality Control for Food and Beverage app.

1. Select one or more quality alert(s).
2. On the action bar, click **Actions** > **Skip selected Quality Alerts**.
3. The status of the quality alerts is set to **'Skipped'**.

Recreate Quality Alert

It is possible to recreate a quality alert. In that case, the status of the selected quality alert is changed to 'Deleted,' and a new one is created.

1. Select one or more quality alert(s).
2. On the action bar, click **Actions** > **Recreate Quality Alert**.
   A dialog box opens displaying the following message:
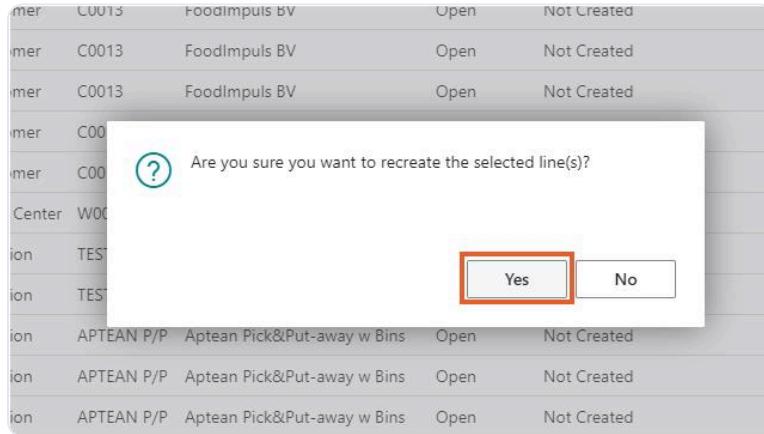
3. Click **Yes**.

Now the status of the existing quality alert(s) is set to 'Deleted' and a new quality alert is created.

Create Quality Check from Quality Alert

Automatically a quality check is created from a quality alert via a job queue. It is also possible to create a quality check manually from a quality alert if the job queue isn't working.

1. Select a quality alert.

2. On the action bar, click **Actions** > **Create Quality Check**.

A quality check is created from the quality alert.

Reset Error

When the quality alert lacks information needed to create a quality check, it will show an error. After solving the error, the error can be reset and the status changes to 'Not created'. After this it is possible to create a new quality check.

Dataverse Tables

The setup that is needed for creating a quality plan is set up in the Aptean Quality Control Setup and Monitoring for Food and Beverage app and saved in Microsoft Dataverse. With the Dataverse connection in Dynamics 365 Business Central it is possible to retrieve the quality plans. Different recurring job queues run to check if there is new data available.

The following setup is sent to Business Central and can be found on the following pages:

- Dataverse Options
- Dataverse Equipment
- Dataverse Measurements
- Dataverse Check Points
- Dataverse Quality Plans
- Dataverse Quality Teams
- Dataverse Quality Checks
- Dataverse Unit of Measure
- Dataverse Team Assignments
- Dataverse Multi Measurements
- Dataverse Action Plan Template

Power Apps setup

Article • 4/3/2023 • 2 min read

When a Dataverse connection is created in Dynamics 365 Business Central, automatically a user is created in the Power Apps environment. For the synchronization of the 'Quality Control' tables it is necessary to apply the Quality Check user role to this user.

1. Select the Settings icon ⚙ .

2. Click **Advanced Settings**.

3. Click **Settings**.

4. Click **Security**.

5. Select **Users**.

6. Select user Business Central Integration.

7. Click **Manage Roles**.

8. Select role QualityCheckUser

9. Click **OK**.

> ⓘ **Note**
>
> To be able to open the Aptean Quality Control for Food and Beverage Power App, the User ID must be filled in the Quality Control Users table in Business Central. This is required for License and Subscription Management checks.

Linking PowerApps

Article • 4/3/2023 • 13 min read

Linking the powerapps enables you to open one app from another app by providing the required App IDs in Aptean Quality Setup and Monitoring app. In the following setup, we link the Aptean Quality Control, Aptean Quality Action Plans, and Aptean Shop Floor Production for Food and Beverage apps.

Shop Floor Production for Food and Beverage

1. Click More Options.

2. Click **Details**.
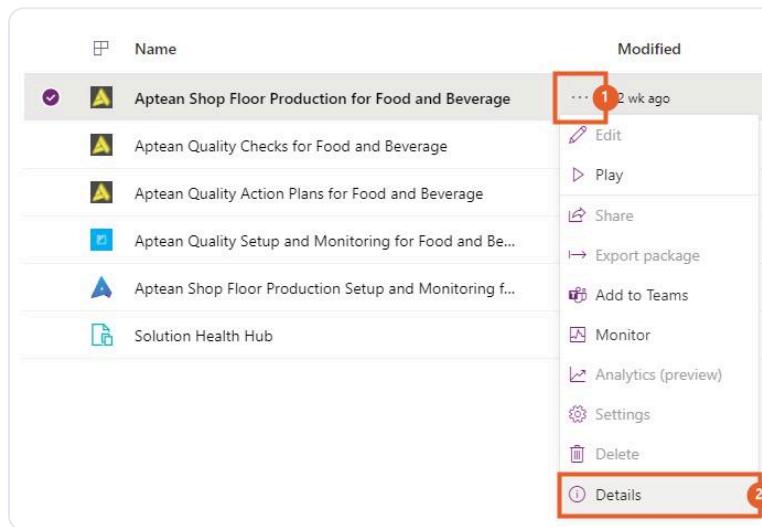
3. Copy the App ID.

In the Aptean Quality Setup and Monitoring for Food And Beverage app,

1. Click **App settings**.

2. Click **New**.

3. Enter App Name.

4. Enter **App ID**.
   Paste in the copied App ID.

5. Click **Save & Close**.

The Aptean Shop Floor Production for Food and Beverage app is now linked.

Quality Checks for Food and Beverage
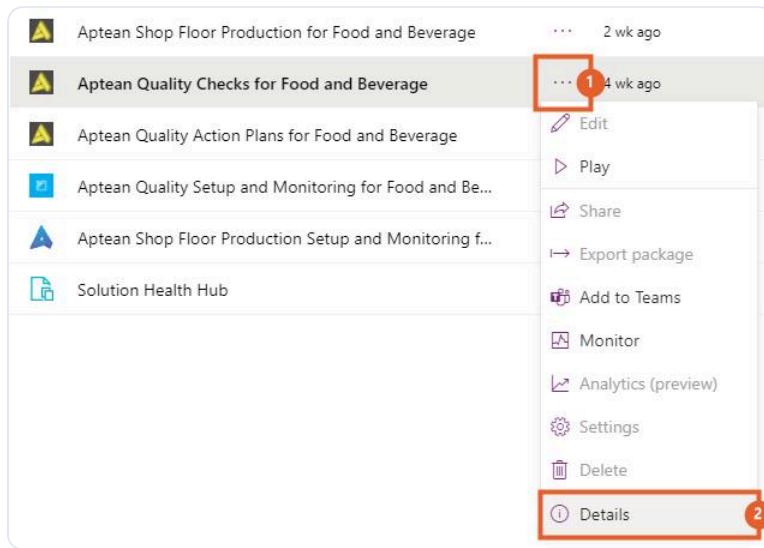
1. Click More Options.

2. Click **Details**.

3. Copy the App ID.

4. In the Aptean Quality Setup and Monitoring for Food And Beverage app, click on the item **App settings**.

5. Click **New**.

6. Enter App Name.

7. Enter **App ID**.
   Paste in the copied App ID.

8. Click**Save & Close**.

The Aptean Quality Control for Food and Beverage app is now linked.

Quality Action Plans for Food and Beverage

1. Click More Options.

2. Click **Details**.

3. Copy the App ID.

4. In the Aptean Quality Setup and Monitoring for Food And Beverage app, click the item **App settings**.

5. Click **New**.

6. Enter App Name.

7. Enter **App ID**
   Paste in the copied App ID.

8. Click **Save & Close**.

The Aptean Quality Action Plans for Food and Beverage app is now linked.

Result

After performing the outlined steps, the app settings page should be similar to this.

> **⊙ Note**
>
> You must set up Business central to use the Quality Control Power Apps and view the recent updates made to the app.If not, you will receive an error stating "No Valid License" when you play the app or open the app in edit mode.

Setting up Quality Control with Business Central

When you create a new environment, you must follow the below steps to proceed:

1. Navigate to **Microsoft Azure** page.

2. On the **Azure Services** FastTab, select **App registrations**.
   The **App registrations** page opens.

3. On the **Owned applications** tab, in the **Display name** field, select **Aptean Quality** from the list.
   The **Aptean Quality** page opens.Refresh it.

4. Go to **Dynamic 365 Business Central** home page.

5. Select the Search icon 🔍 , enter **Subscription Overview** and then choose the related link.
   The **Subscription Overview** page opens.

6. On the **Extension Subscription Status** FastTab,in the **Extension Status** field, check if all the fields are with *Valid* status.

7. If not, on the action bar, select **Refresh Subscriptions**
   This changes the Extension status from *Invalid* to *Valid* You will receive a notification stating that all the subscriptions are updated.

8. Click **OK**.

9. Select the Search icon 🔍 , enter **Quality Control Users** and then choose the related link.
   The **Quality Control Users** page opens. It displays the registered users. You can also add new users, by selecting **New** on the action bar.

10. Select the Search icon 🔍 , enter **Job Queue Entries** and then choose the related link.
    The **Job Queue Entries** page opens.

11. Go to the desired record.

12. In the **Status** field, choose the three vertical dots to open the context menu,and then choose the **Restart** action.
    This changes the Status of the record to *Ready*.

For the Job Queue and the purpose details of the Quality Control Users, see Quality Control Setup and Monitoring.htm

13. Navigate to the **Power Apps** page.

14. On the navigation pane, select **Solutions**.

15. In the Display name field, Select **Foundation**

16. .Select **Quality Control User**.

When the job queue entry record selected is ready, the user name is visible on the Quality Control User page.

Now the Quality Control Power Apps work on both *Play* and *Edit* mode.

Quality Control

Article • 4/3/2023 • 24 min read

Quality Control Screen

While opening the Aptean Quality Control (QCL) for Food and Beverage app, it shows an overview of all open quality checks. It is also possible to open the Aptean Quality Action Plans for Food and Beverage app from the left navigation bar.

1. At the bottom of the Quality Check screen the team(s) can be selected for whom quality checks must be shown.
   Only the teams are shown to which the logged in user has been added.
   By default, all teams of which the user is a member are selected.
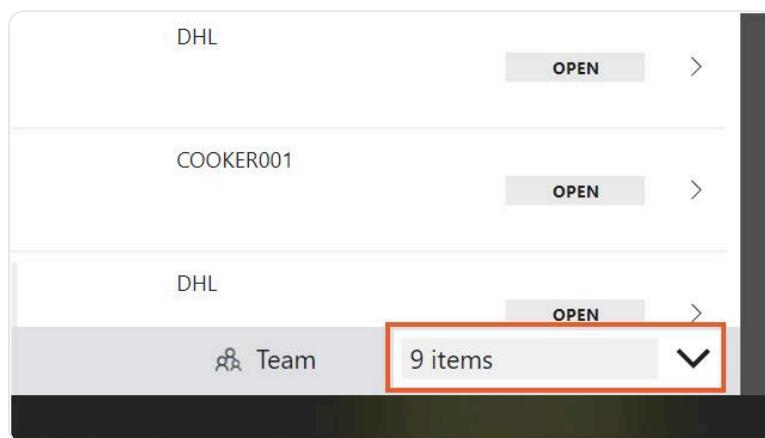
2. Click an option from the list to select or deselect a team.

Quality Checks

1. Click Quality Check.
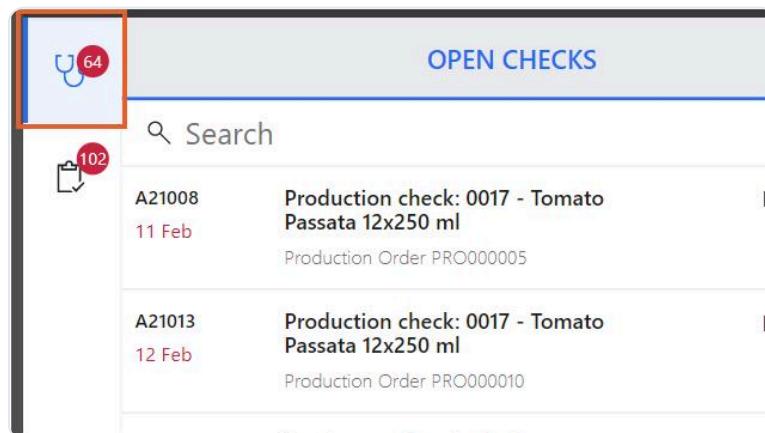
2. Click on a quality check on any row.

The quality check page opens on which the user can see and enter all measurements for this check.

Action Plans

1. Click **Action Plans** to go to the Aptean Quality Action Plans for Food and Beverage app.
   The number indicates how many action lines from the action plans have been assigned to the previously selected team(s).

> **① Note**
>
> The Aptean **Quality Control** for Food and Beverage PowerApp currently supports a maximum of 500 open Quality Checks.If the number of open Quality Checks exceeds 500, the Quality Checks should be closed first via the model-driven app to be able to continue working in the app.

Finished Checks

1. Click the **Finished Checks** button.

Inspection Screen

On the Inspection tab, the measurements are shown that need to be executed for the selected quality check.

On this page, the results can be entered per measurement. There are 4 different types of measurements:

- Decimal

- Option

- Date

- Text

If the measurement is a Multi-Line measurement, multiple results can be entered. The following actions are available per measurement:

- Enter a measurement result.
- Show targets.
- Add a picture.
- Enter a comment.
- Do a recheck.
- Show target.

Enter a measurement result

1. Click a measurement.
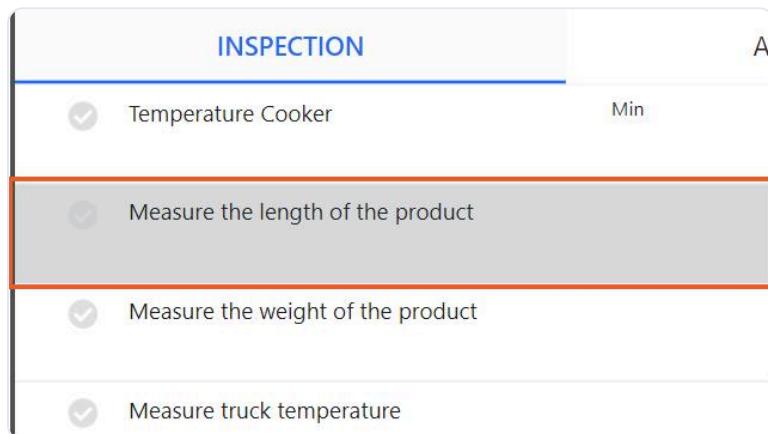
Depending on the measurement type, a different input element is shown on the right side of the screen. Below, each type is described.
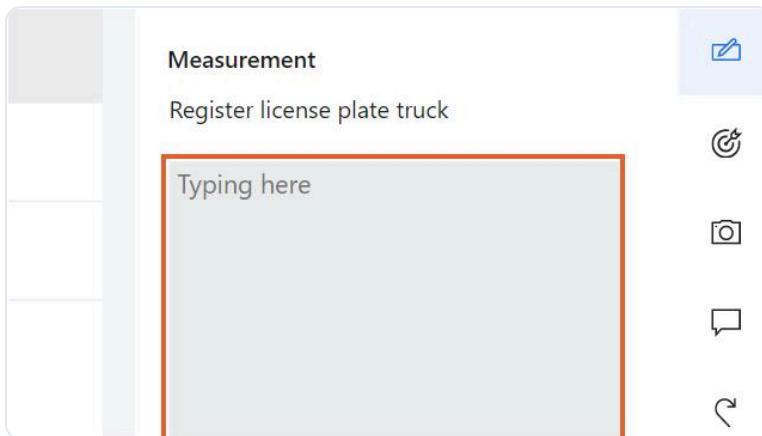
Measurement Type: Option

- Click an option.
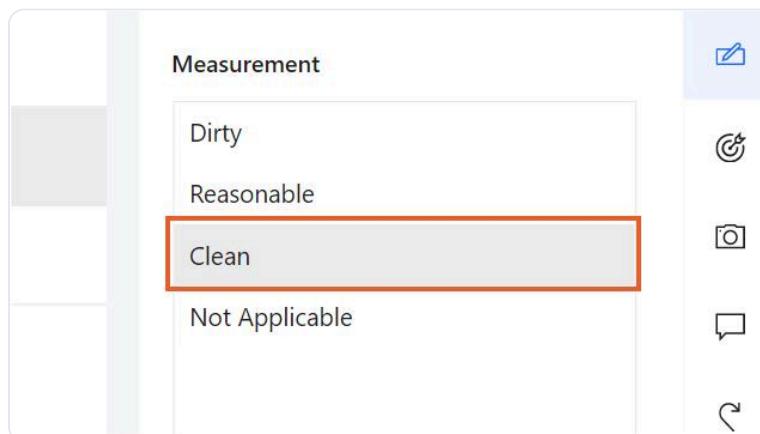
Measurement Type: Text

- Enter the text.

Measurement Type: Date

a. Click Open calendar to select a date.
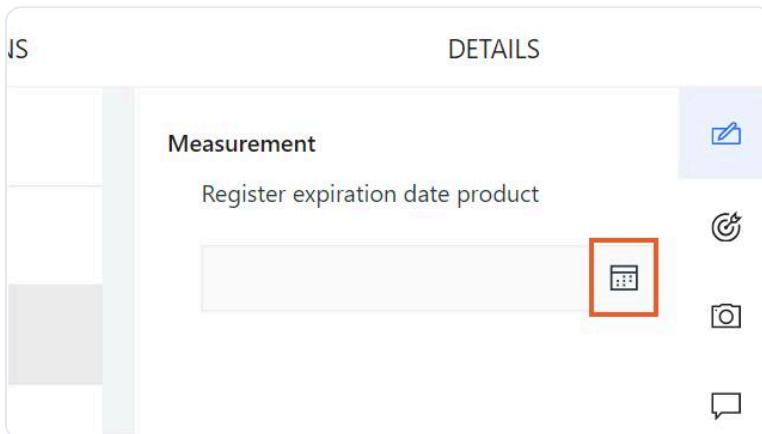
b. Select a date.

c. Click the **OK** button.

Measurement Type: Decimal

- Enter the measurement results using numbers.
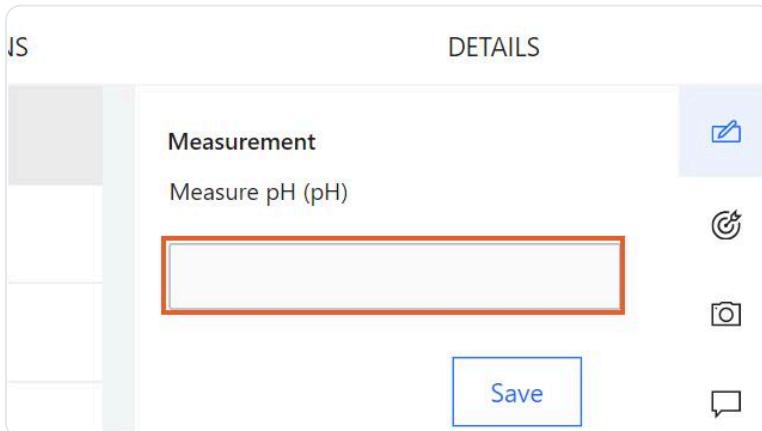
Multi Measurements

- Enter all the multi-measurement lines.

The calculation of the Multi-Measurement happens when all the Multi-Measurement lines are filled. After every change in the Measurement results it is necessary to click on the Save button.

1. Click the **Save** button.

Targets

1. Click **Targets**.

The targets of the selected measurement are shown. These are the targets set up in the Aptean Quality Control Setup and Monitoring app on the quality plan.

When a value is entered for a measurement, a green, a yellow, or a red icon is shown adjacent to the measurement, indicating whether it is within or outside the targets (i.e., it shows if the measurement failed or passed).

Pictures

It is possible to add one or more pictures (file type: jpg) to each measurement. An existing picture can be selected, or when using a tablet or phone, a picture can be taken directly with the camera.
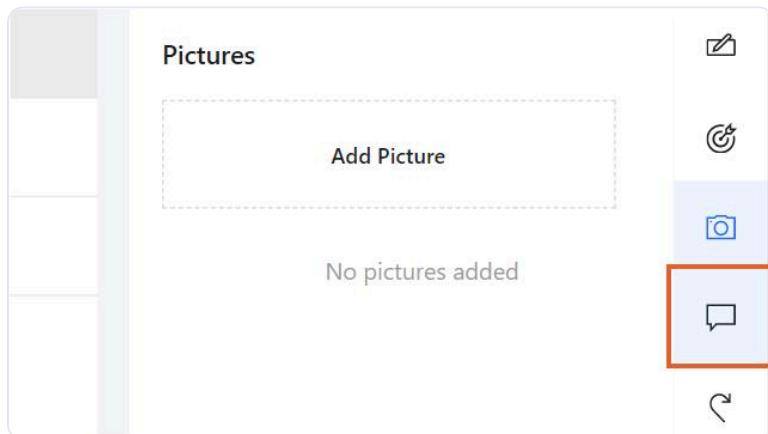
1. Click **Pictures**.
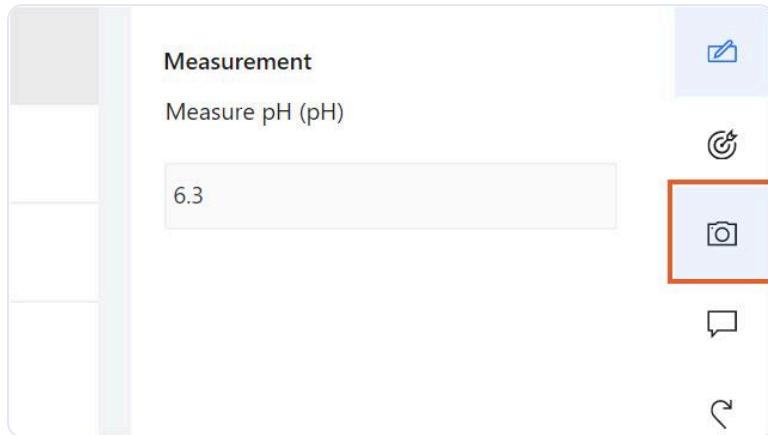
2. Click the **Add Picture** field.

3. Select a picture.

4. To enlarge it, click on the image.
   The picture is shown

5. Click the **Close** button.

6. To delete the image, click the **Delete** button.

Comments
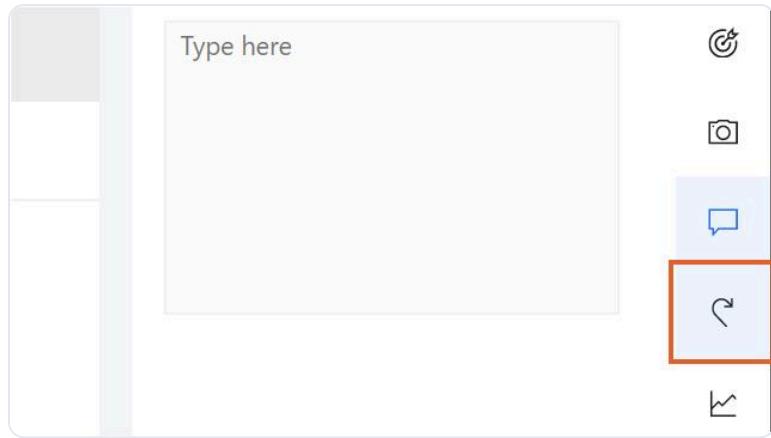
1. Click **Comments**.

2. Enter a **comment**. The **comment** is automatically saved.

Recheck

It is possible to do a recheck, for example, when you saved the wrong value. The original value from the check line is not used to calculate the result of the quality check.

1. Click **Recheck**.

2. Enter the **reason** for the recheck.

3. Click the **Recheck** button.

Trend per quality check during production order

For the quality checks linked to a production order, it is possible to see an overview of all measured values for the same quality check line and production order line. For example, when you want to check the temperature of the item during production every 15 minutes, it is possible to see all previously measured temperatures for that production order line, i.e., viewing the trend.

1. Click **Trend**.

Trend

3/17/2021 3:06 PM	4.3 cm	✓
3/1/2021 7:53 PM	6 cm	⚠
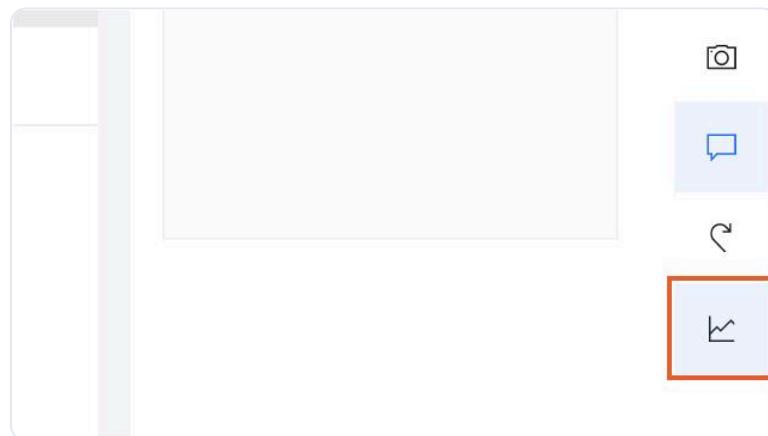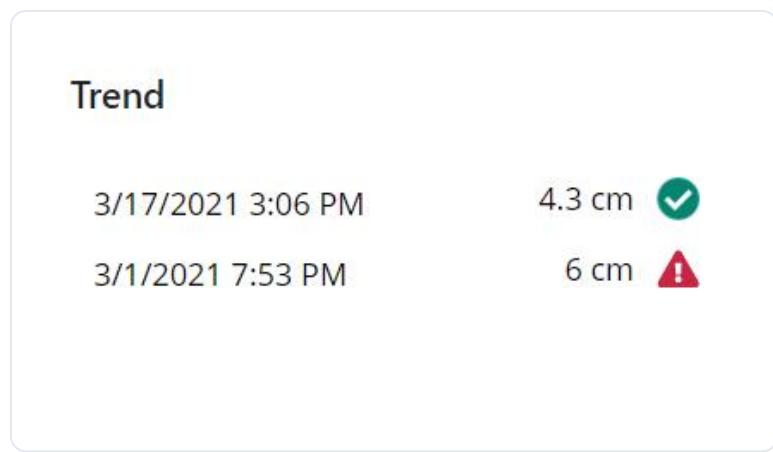
Action Plans

1. Click the **Action Plans** button.

The action plans that need to be executed for this Quality Check are shown. After clicking the button 'create Action Plan', the plan is created and can be executed. The Quality Check cannot be finished until all necessary action plans are created.

> ⊙ **Note**
>
> : The action plans do not also have to be executed before finishing the quality check, just creating them is enough.

Details

During the quality check, it is possible to lookup for more information about the origins of the quality check or the product that is being inspected.
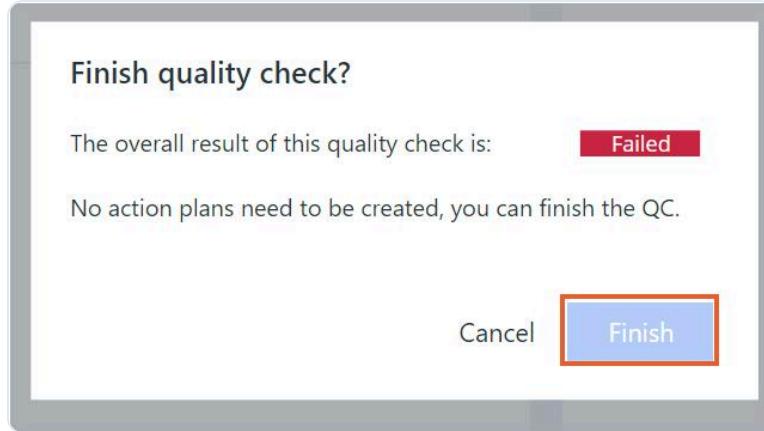
1. Click the **Details** button.

The details of the quality check are shown.

Finish the Quality Check

When all mandatory measurements (marked with an *) are registered, the quality check can be finished.

1. Click the **Finish** button.

2. Click the **Finish** button.

The overall result of the quality check is shown (Failed or Passed). When there are no (more) action plans that need to be created, it is possible to finish the quality check. When there are still action plans that need to be created, you will have to do this first in order to be able to finish the check

The Quality Check is now closed and the data has been saved. When a quality check is attached to a lot number, the lot number will be blocked when the status is Failed or there are remaining quality checks for that lot number.

It is not possible to reopen the Quality Check. The data is now visible in the Aptean Quality Control Setup and Monitoring for Food and Beverage app and in Dynamics 365 Business Central in the quality alerts page. The app redirects to the Quality Checks starting screen.

Finish the Quality Check with Action Plans

When trying to finish the quality check while there are still action plans that need to be created, a pop-up message will prevent you from finishing and guide you to the action plans page.

1. Click the **Go to action plans** button.
   All action plans that need to be created (or have already been created) are shown.
2. Click the **Create action plan** button.
   The action plan is created and the button changes to a link 'go to action plan'. This way it is possible to directly go to the action plan to execute it, although it is not necessary to execute the action plan before finishing the quality check.
3. Click the **Go to action plan** button.

Now the Aptean Quality Action Plans for Food and Beverage app is opened. See chapter 'Action Plans' for more information.
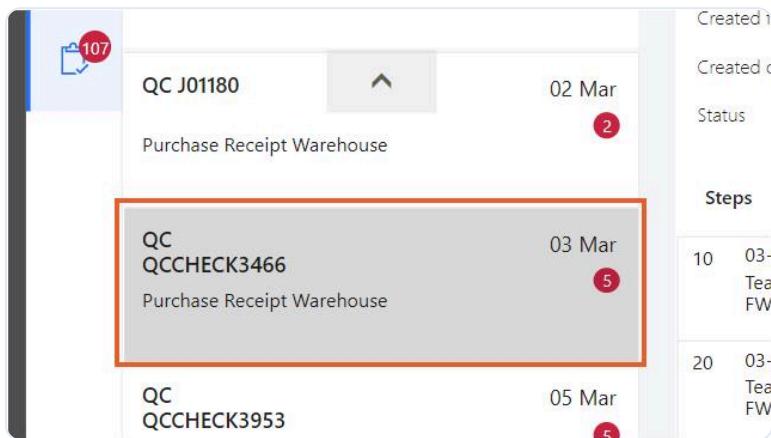
Action Plans

Article • 4/3/2023 • 9 min read

1. Select an **action plan**.
   When opening the action plan from the Aptean Quality Control for Food and Beverage app, the list is automatically filtered on the selected action plan.

Complete a step

1. Select a **step**.

   The step is visible, showing either a task that needs to be done (e.g. clean the floor) or a question (e.g. is the floor cleaned?). When a task is shown, no fields need to be entered, but it is possible to enter a comment after executing the task.

2. When the step is of the type '**Question**', it is necessary to answer the question with 'yes' or 'no'. Select "Yes" or "No".

3. Enter comments.
   One or more pictures can be added. An existing picture can be selected or a picture can be taken with the tablet's camera.

4. Click the **Add Picture** field.

5. Select the **image** that needs to be added.

   Once done, mark the step as **Step Done**. It is also possible to skip the step and go to the next step. It is always possible to reopen the step later on.

6. Click the **Step Done** button.

   After marking the step as 'done', the next step is automatically shown.

7. Enter comments.

   When the step is of the type 'task', no fields need to be entered.

8. Click the **Step Done** button.

When all steps are done (or skipped), the app navigates back to the action plan overview.

Create a new step

When a step is missing in the action plan template that is used, it is possible to add a new step to the action plan.

1. Click the **New step** button.

2. Click **Type**.

3. Select either 'Question' or 'Task'.

4. Enter **Description**.

5. Click **Open calendar to select a date**.

   This is the due date of the step.

6. Select a **date**.

7. Click **Ok**.

8. Click **Quality Team**.
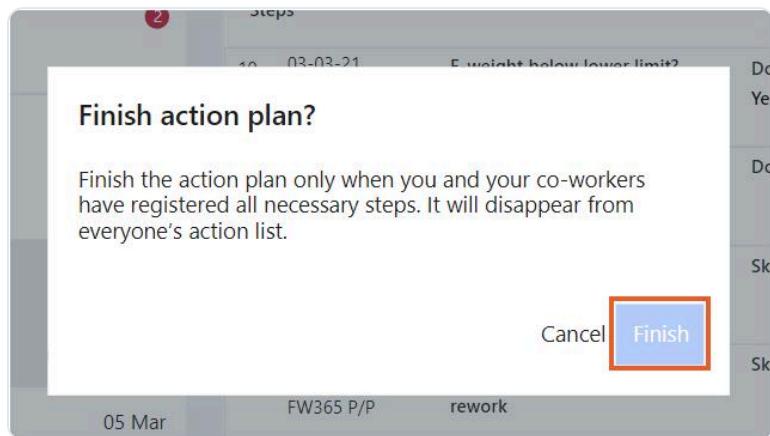
9. Click **Team Production**.

10. Click **Save**.

The new step is added to the action plan.

Finish the action plan

1. Click the **Finish** button.

   When all steps are done, the action plan can be finished.

2. Click the **Finish** button.

Now the action plan is finished, and it is possible to finish the quality check that this action plan originated from.
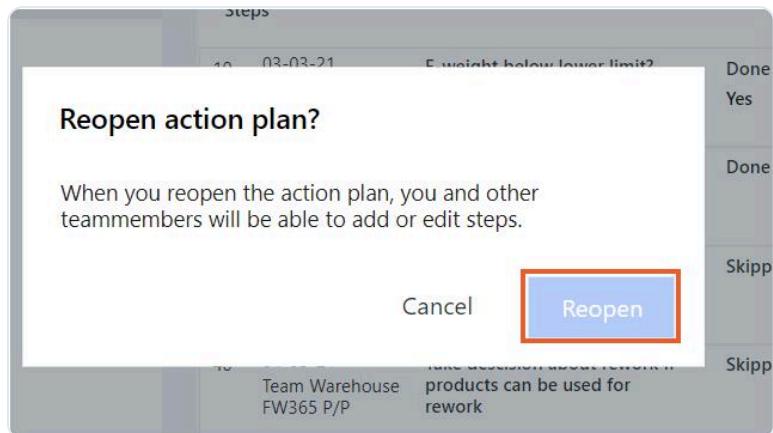
Reopen the action plan

It is possible to reopen an Action Plan when it is already finished. Finished Action Plans can be found on the tab 'finished'.

1. Click the **Finished** tab.

2. Select **Action Plan**.
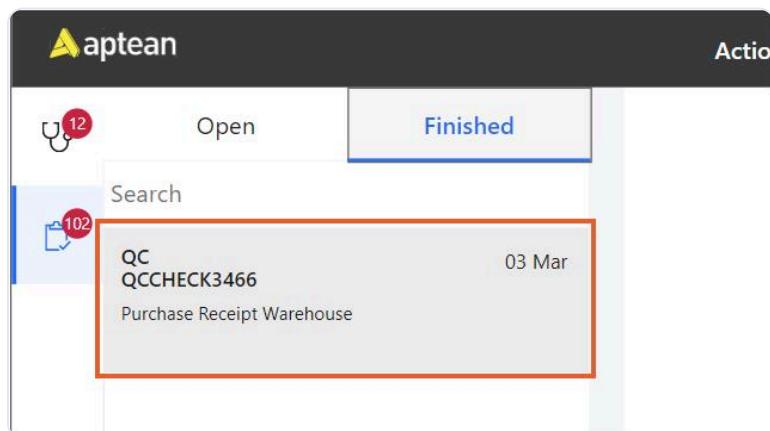
3. Click **Reopen**.

4. Click **Reopen**.

The **action plan** is now reopened. It is possible to change the data and finish the action plan again after changing.

Quality Control integration with Inspection Status

Article • 4/3/2023 • 5 min read

Creating Quality Alerts when changing the inspection status

When a quality trigger is set up with the type 'Inspection Status,' a quality alert is created when the function 'Change Inspection Status' has been used in the Inspection Status extension (manually or automatically via another function). Only lot numbers that have been changed to the inspection status code which is set up as quality trigger apply to the quality trigger. Multiple quality alerts are created if the lot number has inventory on multiple locations, one quality alert for each location that has inventory of the lot number. All these alerts are assigned with the same Inspection Status Reference Number, so later on, it's always possible to deduce which alerts originated from the same inspection status change. Locations set up as a 'transit' location are not included and won't create a quality alert, because these lot numbers are in transit between locations.

When changing an inspection status for which a quality trigger has been set up, a quality alert is only created if no quality alerts with status 'Open' or 'In Progress' are already present for that item/variant/lot number.

This is to prevent quality alerts from being generated for two inspection status changes, whereby the quality alerts that are finished last ultimately determine the new inspection status of the lot (based on 'Passed' or 'Failed' and the associated default inspection status).

Change the inspection status when finishing the Quality Check

When the quality checks are executed and finished in the 'Quality Check' PowerApp, the related quality alerts are updated with the result 'failed' or 'passed'. Via setup in the Inspection Status extension (trigger types 'Quality Check Failed' and 'Quality Check Passed' in Default Inspection Status) it is possible to change the inspection status of the associated lot number when finishing the quality check.

If the quality alerts are created based on a quality trigger of type 'Inspection Status', it is first checked if multiple alerts exist for this lot number due to inventory on multiple locations when finishing a quality check. If there are other alerts present with the same Inspection Status Reference Number with an open or in progress-status, the inspection status of the lot will not be changed yet. The inspection status will be changed when the status 'Closed' (or 'Skipped', 'Deleted') is assigned to all the alerts for the same Inspection Status Reference Number. In this latter case, when one or more of the alerts have a result 'Failed', the overall result will be failed. The inspection status of the lot will then be changed based on the setup in Default Inspection status with trigger type is 'Quality Check Failed'. Otherwise the setup with trigger type 'Quality Check Passed' will be applied.

If the status of a quality alert is manually changed into 'Skipped' the system also checks if there are other quality alerts present with the same Inspection Status Reference Number as mentioned in the previous chapter. If there are other alerts present with the same Inspection Status Reference Number with an open or in progress-status, the

inspection status of the lot will not be changed yet. The inspection status will be changed when the status 'Closed' (or 'Skipped', 'Deleted') is assigned to all the alerts for the same Inspection Status Reference Number. In this latter case, when one or more of the alerts have a result 'Failed', the overall result will be failed. The inspection status of the lot will then be changed based on the setup in Default Inspection status with trigger type is 'Quality Check Failed'. Otherwise, the setup with trigger type 'Quality Check Passed' will be applied.

If the quality alerts are created based on another quality trigger type, the inspection status will be changed immediately after finishing the quality check (based on the result of that quality check).

When an inspection status is automatically changed based on a quality alert and the original inspection status of the lot number is set up as default inspection status for the type 'follow-up needed', then the 'Next Follow-up Date' needs to be recalculated and changed as well. This field specifies the date on which the next follow-up on the lot should be executed. For more information, see the manual of the Inspection Status extension.
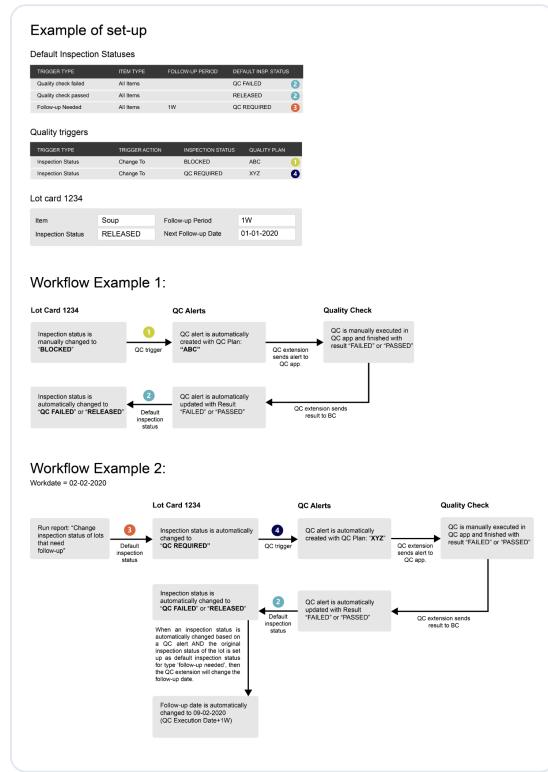
Deployment Instructions

Article • 4/3/2023 • 1 min read

To set up the Aptean Quality Control (QCL) extension on your Business Central environment, click the corresponding links in the table.

Item	Link
Prerequisites	Click here
App specific instructions	Click here

Most Common Errors

Article • 5/8/2023 • 2 min read

Some of the most common errors encountered while working with the Quality Control extension is listed below along with the solutions.

Error	Solution
Locations and Work Centers are not replicated from Business Central to Quality Control app	Run Job queue manually (standard setting = 1 x per day) or use the Sync from the Integration Table Mapping Business Central account in Dataverse Admin setup has the correct permissions (see [Deployment Instructions](#)) Go to Related Integration Table Mapping and select a line that is not replicated. Go to Synchronization > Integration Synch. Job Log.
The user doesn't see the Quality Plans in Business Central in the Quality Trigger Setup	Check if: Status = Certified Job queue Code unit 5339 - CDSQUALITYPLANFDW is running. This Job Queue has a standard interval of 60 minutes. You can change this interval when it is too long.
The Quality Check is not created within a maximum of 5 minutes	Check in Business Cental the Quality

	Alerts and look to the Quality Check Status, if this is:
	Not Created: Job queue 70219393 is not running.
	Error: look at the Error Text in the Quality Alert page (last field). Resolve the error and reset the Error Status with Reset Error function. You don't have to wait for the next run of the Job Queue, but you always can create the Quality Check manually with the function Create Quality Check.
	Created: The Quality Check is created, see number in field Quality Check No.
Quality Check is not visible in app	Check if the correct Team is selected in the App. Check if there are synchronization errors in Quality Alert and Quality Check Line table mapping.
Quality Check results are not updated in BC	Check if Job queue 70219393 is running

Inspection Status is not updated	Check if Default Inspection Status is setup for • Quality Check Passed • Quality Check Failed
The Quality Control app doesn't show the picture after adding a picture to a Quality Control	Check if the Azure blob storage is working.
The attachments (pictures) are not shown in Business Central linked to the Quality Check line	Check if job queue code unit 5339-CDSQUALITYCHECKLINEA is running.