

User Manual

Aptean Food and Beverage ERP

Mesh

Product Documentation



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Release notes

Article • 7/22/2026 • 1 min read

To view what's new or changed in each release of the Apteian Mesh extension, select the specific release version.

Date	Release version	Description
July 2026	2602.0.0.0	Major release
April 2026	2601.0.0.0	Initial release



2602.0.0.0

Release Note • 7/22/2026 • 3 min read

Features

With the features added in this release of the Aptean Mesh extension,

- You can move inventory between two different warehouse locations directly from the **Ad-Hoc Movement** menu where transfer order is not required. The system posts a single item reclassification journal entry with the **Entry Type** field value set to *Transfer* and updates inventory at both locations immediately. For more information, see [Ad-hoc movement](#).
- You can view sales return orders and open warehouse receipts in the **Inbound** tab, and purchase return orders and open warehouse picks in the **Outbound** tab on the **Home** screen, with assignment-based sorting and document type filters. For more information, see [Home screen](#).
- The Mesh app generates a distinct alert sound when a scan is rejected or a workflow action fails. You can control this behaviour using the **Error Sounds** toggle in the Aptean Mesh app settings. For more information, see [Audible feedback for scans and errors](#).
- You can select the unit of measure when entering quantity in **Ad-Hoc Movement** and **Inventory Adjustment**. The available quantity display updates to reflect the selected unit of measure. For more information, see [Ad-hoc movement](#) and [Inventory adjustment](#).
- You can scan product barcodes (GS1, UPC, EAN) in **Ad-Hoc Movement**, **Inventory Adjustment**, and **Bin Contents** to auto-populate both item and variant when the barcode uniquely identifies them in the item reference table. For more information, see [Ad-hoc movement](#), [Inventory adjustment](#), and [Bin contents](#).
- You can scan the Mesh configuration QR code during initial setup on non-Zebra Android devices using the device camera by enabling the **Enable Camera Scanner** toggle in local app settings. For more information, see [Getting started with Mesh Standard Bundle](#).
- Date fields across all workflows default to text input — you can type a value directly without opening the calendar picker. Press the **Enter** button to confirm the entered date. If the date was already captured from a GS1 barcode earlier in the workflow, the date step is skipped entirely. The calendar picker remains available throughout for manual selection.
- The Standard bundle version has been incremented from Version 1 to Version 2 with enhanced mobile page configurations. Bundle installation is non-destructive — reinstalling the Standard bundle does not regress the status of an existing bundle. For more information, see [Mobile app bundle](#).

Alongside that, a few client-side fixes: the **Language Code** on **Mobile User Assignment** lists only Mesh-supported locales; the bundle lookup on that page correctly identifies a user's active bundle; and on the device **Settings** screen, **Reset** is correctly scoped (Zebra sections unaffected), **Save** navigates back properly, and scanner feedback is visible on all device types.



2601.0.0.0

Release Note • 4/23/2026 • 2 min read

Features

With the features added in this release of the Aptean Mesh extension, you can:

- Configure the Aptean Mesh mobile app to connect to your Business Central environment using Azure AD authentication. For more information, see [Mobile setup](#).
- Deploy and manage mobile app bundles that group pages, workflows, and services into versioned units. For more information, see [Mobile app bundle](#).
- Create and configure mobile pages that define the screens available in the Aptean Mesh mobile app. For more information, see [Create mobile pages](#).
- Register services that link mobile pages to Business Central codeunits for request handling. For more information, see [Service registry](#).
- Configure workflow steps that define the sequence of scan inputs collected during warehouse operations. For more information, see [Workflow step configuration](#).
- Assign specific bundles to individual users for development, testing, or production use. For more information, see [Mobile user assignment](#).
- Configure language and locale settings for the Aptean Mesh mobile app per company or per user. For more information, see [Language and locale configuration](#).
- Receive inbound goods against purchase orders, sales return orders, and transfer orders using guided scan workflows. For more information, see [Warehouse receipt](#).
- Place received items into designated storage bins using the put-away workflow. For more information, see [Warehouse put-away](#).
- Fulfill outbound orders by picking items from warehouse bins. For more information, see [Warehouse pick](#).
- Move items between bins using pre-created inventory movement documents. For more information, see [Inventory movement](#).
- Perform free-form bin-to-bin movements without source documents. For more information, see [Ad-hoc movement](#).
- Perform positive or negative stock adjustments directly from the mobile device. For more information, see [Inventory adjustment](#).
- View and verify current bin inventory with progressive filtering. For more information, see [Bin contents](#).



Integrations

The Aptean Mesh extension has been integrated with the Aptean [Labeling](#) for automatic label printing after warehouse receipt posting. For more information, see [Integration with Aptean Labeling](#).



Introduction

Article • 4/27/2026 • 2 min read

The Aptean Mesh extension is a server-driven mobile platform that connects Android devices to Microsoft Business Central. Every screen, field, and workflow step is defined in Business Central and delivered to the device dynamically — the app renders what the server describes. This makes Mesh unlike any other mobile ERP client.

The standard app bundle

Out of the box, Aptean Mesh includes a complete standard app bundle covering the core warehouse workflows supported by Business Central:

- **Warehouse receipt** — Scan warehouse receipts, capture lot numbers and expiry dates, select your unit of measure, and post from the floor.
- **Warehouse put-away** — Place received items into designated storage bins using guided scan steps.
- **Warehouse pick** — Work through shipment lines one at a time with lot allocation applied at the moment of selection.
- **Inventory movement** — Bin-to-bin movements within a location using pre-created warehouse activity documents.
- **Ad-hoc movement** — Free-form bin-to-bin transfers without a warehouse document, posted immediately via the Item Reclassification Journal.
- **Inventory adjustment** — Positive and negative adjustments with full lot support directly from the mobile device.
- **Bin contents** — Look up what is in any bin with progressive filtering by bin, item, and variant.

The standard app bundle works with standard Business Central.

Extensibility

The standard bundle is just the beginning. Because Mesh is a platform, not a fixed product, every workflow in the standard bundle can be reconfigured and every new workflow you can imagine can be added through Business Central extensions.

The moment your BC extension is deployed, every device sees the new workflow — no app update, no redeployment, no coordination across a fleet of handhelds.



 Important

- To use the Apteian Mesh extension, the Apteian [Labeling](#) extension must be installed.
- For developer documentation on customizing services, workflows, and mobile pages, refer to the [Apteian Mesh Developer Documentation](#).



Deployment Instructions

Article • 4/27/2026 • 1 min read

To set up the Aptean Mesh extension on your Business Central environment, click the corresponding links in the table.

Item	Link
Prerequisites	Click here
App specific instructions	Click here



Mesh - Business Central

Article • 4/27/2026 • 1 min read

Configure and manage the Apteian Mesh extension in Business Central using the following pages.

- [Mobile setup](#)
- [Manage permission sets](#)
- [Mobile app bundle](#)
- [Create mobile pages](#)
- [Service registry](#)
- [Workflow step configuration](#)
- [Mobile user assignment](#)
- [Language and locale configuration](#)
- [Data retention policy](#)



Mobile setup

Article • 4/27/2026 • 2 min read

The **Mobile Setup** page stores the configuration settings for the Aptean Mesh mobile app, including authentication credentials, journal templates, labeling, and device options.

To configure the **Mobile Setup** page, follow these steps:

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

The **Mobile Setup** page opens.

2. Enter the required information in the following fields:

Field	Description
Tenant ID	Specifies the Azure AD tenant GUID for your Business Central environment. This value is available in the Azure Portal \> Azure Active Directory \> Properties.
Client ID	Enter the client GUID from the Azure AD App Registration created for Mesh.
API Endpoint	Specifies the BCRPC API endpoint URL for mobile app configuration. Use this URL in the mobile app settings.
Telemetry Connection String	Enter the Application Insights connection string. This field is optional.
Enable Request Logging	Turn on this toggle only when diagnosing mobile connectivity issues. It logs every RPC request and response in the Mobile Request Log page. The system automatically deletes the entries after two days. Each log entry includes the request and response timestamps, active bundle, service code, RPC method, full request and response JSON, and any error or call stack. Filters can be used to narrow results by service, request timestamp, or errors to identify failed requests.
Enable Camera Scanner	Specifies whether the camera-based barcode scanner is available on the mobile client. When turned on, a floating camera button appears on barcode input steps, allowing workers to scan barcodes using the device camera in addition to the hardware scanner.
App Locale Code	Specifies the company-wide locale used for date and number formatting on the mobile client. For example, set this to NLD for Dutch formatting or ENU for US English formatting. This setting applies to all users unless overridden by a per-user language assignment.



Movement Jnl. Template Name	Specifies the default item journal template used when posting Ad-Hoc Movement transactions. The system posts Ad-Hoc Movements through the Item Reclassification Journal using this template. This field is required before Ad-Hoc Movements can be performed from the mobile client.
Adjustment Jnl. Template Name	Specifies the default item journal template used when posting Inventory Adjustment transactions. The system posts adjustments through the Item Journal using this template. This field is required before Adjustments can be performed from the mobile client.
Auto-Print Labels	Specifies whether a label is printed automatically after a warehouse receipt line is posted. Set this field to <i>Yes</i> to activate automatic label printing.
Label Provider	Specifies the labeling solution used to print labels after warehouse receipt posting. This field is enabled only when Auto-Print Labels is turned on. The default provider is Aptean Labeling for Food and Beverage.

Note

- If you must keep entries beyond two days, export them to Excel before they are deleted. Turn off the **Enable Request Logging** toggle after troubleshooting because it increases database write activity.
- Setting up the **Movement Jnl. Template Name** and **Adjustment Jnl. Template Name** fields is required before Ad-Hoc Movements and Adjustments can be performed from the mobile client.

Generate the onboarding QR code

The **Mobile Setup** page displays a QR code FactBox. The QR code encodes the tenant ID, client ID, API endpoint, and telemetry connection string. This enables you to scan the code in the Aptean Mesh mobile app to configure your device, with no manual data entry required.



Manage permission sets

Article • 4/27/2026 • 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 *Mesh220FDW*.

Indirect permission sets

Users with this permission set can perform specific actions. This is used in conjunction with other permission sets to allow users to perform certain actions. These permissions typically involve additional conditions or approvals before the action can be completed.

The indirect permission set ID for this extension is *MeshBasic220FDW*.

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

To assign a permission set to a user, follow these steps:

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 Apteian Mesh extension, ensuring secure and role-based access.



Mobile app bundle

Article • 4/27/2026 • 5 min read

The **Mobile App Bundles** page defines the top-level container for a Mesh mobile deployment. It groups pages, workflows, services, and step definitions into a versioned unit.

By default, you have a production bundle installed with Aptean-configured workflows and pages. Any changes must be made on a copy of the bundle.

To configure an app bundle, follow these steps:

1. Select the Search icon , enter **Mobile App Bundles**, and then choose the related link.
The **Mobile App Bundles** page opens.
2. Enter the required information in the following fields:

Field	Description
Bundle Code	A human-readable label. For example: <i>STANDARD</i> for the Aptean bundle, or <i>Custom V1</i> , <i>Custom V2</i> , etc., for customer copies.
Publisher	Indicates who owns the bundle. <i>Aptean</i> for system bundles and <i>Custom</i> for customer copies. Custom bundles are never overwritten during a Mesh upgrade.
Version	An auto-incremented integer managed automatically by the system.
Status	Indicates the lifecycle stage of the bundle. The available options are: <i>Dev</i> , <i>Test</i> , <i>Production</i> , <i>Archive</i> .
Description	A short description of the bundle for identification purposes.
Root Page ID	Specifies the Page ID of the screen that appears immediately after signing in. This value must match a Page ID available in the bundle's Mobile Pages. If this field is left blank, the app cannot load.
Min Client Version	Specifies the minimum mobile client VERSION_CODE required to run this bundle.

Copy bundle

To copy a bundle for customization, follow these steps:

1. Select the Search icon , enter **Mobile App Bundles**, and then choose the related link.
The **Mobile App Bundles** page opens.



2. On the action bar, select **Copy Bundle**.

This action creates a copy of the selected bundle for customization. The copied bundle is set to *Dev* status and is not locked, allowing you to modify pages, workflows, services, and steps. Use this action to create a custom bundle based on the Standard or any existing bundle.

Bundle status and lifecycle

In the **Status** field, select the appropriate lifecycle stage. The available options are:

- *Dev* – Use during active development when you configure pages, workflows, and services.
- *Test* – Use to validate the bundle on devices before go-live.
- *Production* – The live bundle available to mobile users. Only one bundle may be in Production status at a time.
- *Archive* – Inactive stage for bundles that are no longer in use.

To move a bundle through its lifecycle, update the **Status** field as follows:

- To promote a bundle from development to test, set the **Status** field value to *Test*, and then assign testers to the bundle in Mobile User Assignment.
- To promote a bundle from test to production, first change the current Production bundle to *Archive*, and then set the Test bundle to *Production*.
- To archive a bundle, set the **Status** field value to *Archive*. Archiving does not delete the bundle or its related records.
- To restore the bundle, change the status back to *Dev* or *Test*.

Important

The Standard bundle is always locked and read-only, regardless of its status. All child records (pages, workflows, steps, services) in the Standard bundle are read-only. Any bundle in Production status is also locked.

Customizing the bundle

Custom bundles support two levels of customization:

- **Page layout (UI)** – The visual layout of each page is stored in the **Page JSON** FastTab on the Mobile page and can be edited directly in BC from the bundle's Pages subpage. No development tools are required.
- **Workflow and service logic (VS Code)** – To customize workflow behavior, the Resolver Codeunit must implement the `IStepHandler220FDW` interface (`IsStepRequired`, `HandleStep`, `UndoStep`). To add or customize



service logic, the service codeunit must implement the IBCRPC220FDW interface. Develop, compile, and publish both codeunits in VS Code before the changes take effect in Business Central.

Important

For detailed developer documentation on customizing workflows, services, Mobile Pages and codeunit interfaces, refer to the [Aptean Mesh Developer Documentation](#).



Create mobile pages

Article • 4/27/2026 • 4 min read

The **Mobile Page** screen in the Aptean Mesh mobile app links to a service that handles its data requests and can optionally link to a workflow that manages multi-step scan input. Pages are configured per bundle, allowing different bundles to display different screens.

To create a mobile page, follow these steps:

1. Select the Search icon , enter **Mobile App Bundles**, and then choose the related link.
The **Mobile App Bundles** page opens.
2. On the **Mobile App Bundles** page, on the action bar, select **Mobile Pages**.
The **Mobile Pages** list opens.
3. Select **New**.
The **Mobile Page** opens.
4. On the **General** FastTab, enter the required information in the following fields:

Field	Description
Page ID	Enter a unique identifier for the page. Page IDs are case-sensitive and must exactly match any references used in navigation commands and in the Root Page ID field on the bundle.
Description	Enter a name for the page. This is used only for identification in Business Central and does not appear in the mobile app.
Service	Select the service code that processes requests for this page. The service must be registered in the bundle's Service Registry. Every page must have a service; otherwise, the app cannot process page requests.
Workflow	Select a workflow code for pages that require multi-step scanning input, such as scanning a lot number, quantity, and bin in sequence.

Edit the page layout

The layout of a mobile page is stored as Page JSON. You can edit this layout to control how the page appears in the Aptean Mesh mobile app.



 Important

Pages can only be edited in Custom bundles with *Dev* or *Test* status. Pages in the Standard bundle and any bundle in *Production* status are read-only.

To edit the page layout, follow these steps:

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

The **Mobile App Bundles** page opens.

2. On the **Mobile App Bundles** page, on the action bar, select **Mobile Pages**.

The **Mobile Pages** list opens.

3. Select the page you want to edit.

The **Mobile Page** opens.

4. On the **Page JSON** FastTab, edit and save the layout JSON to control how the page appears in the Aptean Mesh mobile app.



Service registry

Article • 4/27/2026 • 3 min read

You can register services to link service codes to Business Central codeunits. When the mobile app sends a request, the Mesh app uses the service code on the page to find the corresponding codeunit and route the request. Each page requires a registered service; otherwise, the app returns an error.

Before registering a service, confirm the following:

- A Custom bundle in *Dev* or *Test* status exists.
- The codeunit implements the *IBCRPC220FDW* interface for API channels and *IStepHandler220FDW* for work-flow steps.
- You have the Mesh permission set.

To register a service, follow these steps:

1. Select the Search icon  , enter **Mobile App Bundles**, and then choose the related link.
The **Mobile App Bundles** page opens.
2. On the **Mobile App Bundles** page, on the action bar, select **Service Setup**.
The **Mobile Service Setup** page opens.
3. Select **New**.
4. Enter the required information in the following fields:

Field	Description
Mobile Service Code	Enter a unique code such as <i>PICKING</i> . Service codes are case-sensitive and must exactly match the Service field on any Mobile Page that uses them.
Codeunit ID	Enter the codeunit object ID that will handle the service request.
Handler Name	This field is automatically populated with the name of the selected codeunit.
App Bundle Code	Displays the Bundle code associated with the service.

 Important

Services in the Standard bundle and any bundle in *Production* status cannot be changed because the bundle is locked.

The ten built-in services are:



- **HOME** – Linked to HomeService220FDW. Used by the home screen to load inbound document lists.
- **DETAIL** – Linked to DetailService220FDW. Handles document line detail views.
- **RECEIPT** – Linked to ReceiptService220FDW. Handles warehouse receipt processing.
- **PUTAWAY** – Linked to PutAwayService220FDW. Handles warehouse put-away processing.
- **PICK** – Linked to PickService220FDW. Handles warehouse pick processing.
- **INVTMOVEMENT** – Linked to InventoryMovementService220FDW. Handles document-driven inventory movements.
- **ADHOCMOVEMENT** – Linked to AdHocMovementService220FDW. Handles free-form bin-to-bin movements.
- **SCANENTRY** – Linked to ScanEntryService220FDW. Used by the scan entry screen to list and delete pending entries.
- **BINCONTENTS** – Linked to BinContentsService220FDW. Handles bin content inquiries.
- **ADJUSTMENTS** – Linked to AdjustmentsService220FDW. Handles inventory adjustments.

To add or change services, work in a Custom bundle.



Workflow step configuration

Article • 4/27/2026 • 2 min read

Workflow steps define the sequence of inputs the mobile app collects during a scan operation, such as scanning a lot number, entering a quantity, and confirming a bin. Each step specifies what data to collect, how you provide the input, and which GS1 barcode field maps to it for automatic value extraction.

Before configuring steps, confirm the following:

- A Custom bundle in *Dev* or *Test* status exists.
- A Mobile Workflow record with a Resolver Codeunit ID is present.
- You have the Mesh permission set.

To create a workflow, follow these steps:

1. Select the Search icon , enter **Mobile App Bundles**, and then choose the related link.
The **Mobile App Bundles** page opens.
2. On the **Mobile App Bundles** page, on the action bar, select **Workflows**.
The **Mobile Workflows** page opens.
3. Select **New**.
4. Enter the required information in the following fields:

Field	Description
Workflow Code	Specifies the unique workflow code, such as <i>PICKING</i> .
Description	Enter a descriptive name for the workflow.
Resolver Codeunit ID	Select the codeunit that handles the step logic. This codeunit can be customized and must implement the <i>IStepHandler220FDW</i> interface. If this field is left blank, the app will return an error when a user submits a step.
Resolver Name	Displays the name of the selected Resolver Codeunit ID automatically.
App Bundle Code	Displays the bundle code associated with the workflow.

Add steps to a workflow

1. Select the workflow row and then select **Steps** on the action bar.
2. Select **New**.



3. Enter the required information in the following fields:

Field	Description
Sequence	Enter a number that defines the order in which the step runs. Steps execute from the lowest to the highest number (for example: 10, 20, 30).
Step Type	Select the category of data that this step collects. Available step types include: <i>Bin</i> (warehouse bin code), <i>Item</i> (item number or barcode), <i>LicensePlate</i> (license plate number), <i>LotNumber</i> (lot number), <i>ExpirationDate</i> (expiration date), <i>Quantity</i> (numeric quantity), <i>SerialNumber</i> (serial number), <i>Location</i> (warehouse location code), <i>Variant</i> (item variant code), and <i>ReasonCode</i> (reason code for adjustments).
Step Input Type	Select how the user provides the value. Available input types include: <i>Barcode and Text</i> (activate the device's hardware scanner and allow scanned or typed values), <i>Numeric</i> (displays a keypad for numeric entry), <i>DatePicker</i> (displays a calendar selector), <i>Choice</i> (displays a selectable list defined by the step handler), <i>Image</i> (allows capturing an image using the device camera), <i>StatusInfo</i> (displays status information), and <i>Summary</i> (displays a summary view).
GS1 AI	Optionally enter a GS1 Application Identifier (AI) code. When a GS1-encoded barcode is scanned, Mesh extracts the value for the matching code and automatically pre-fills the step. Common GS1 Application Identifier codes: 01 for GTIN, 10 for lot number, 17 for expiry date, 37 for quantity, and 240 for bin or additional product identification.
Instruction	Enter optional instruction text displayed to the mobile user during the workflow step. This text appears as contextual guidance on the step input screen.

4. Repeat for each additional step, then review the sequence order.



Mobile user assignment

Article • 4/27/2026 • 4 min read

You receive the *Production* bundle by default when you sign in to the mobile app. You can assign a different bundle to specific users, such as developers or testers, so they use a *Dev* or *Test* bundle without affecting other users.

Assign a user to a bundle

1. Select the Search icon , enter **Mobile User Assignments**, and then choose the related link.
The **Mobile User Assignments** page opens.
2. Select **New**.
3. In the **User ID** field, select the username.
4. In the **Language Code** field, select the language for this user's mobile client. Only languages supported by the Aptean Mesh app are available for selection. Leave blank to default to English.
5. In the **App Bundle Code** field, select the bundle to assign to this user.
The **App Bundle Version** field displays the version of the assigned bundle automatically.
6. On next login, the user receives this bundle instead of the *Production* bundle.

Note

You can only be assigned to one bundle at a time. To reassign a user, remove the existing assignment first, then add a new one.

Remove a user assignment

1. Select the Search icon , enter **Mobile User Assignments**, and then choose the related link.
The **Mobile User Assignments** page opens.
2. Select the user's row and then select **Delete**.

The user returns to the *Production* bundle on their next login. Remove all test assignments when validation is complete so users receive the standard Production experience.

How bundle selection works

When a user logs in, Mesh selects their bundle in this order:

1. If the user has an explicit bundle assignment, that bundle is returned regardless of its status.



2. If there is no assignment, the *Production* bundle is returned.
3. If no *Production* bundle exists, the app returns an error.



Language and locale configuration

Article • 4/27/2026 • 4 min read

You can configure the language and locale settings for the Apteian Mesh mobile app from Business Central. This controls date and number formatting at the company level and allows you to assign a different display language per user.

To set the app locale (company-wide)

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

The **Mobile Setup** page opens.

2. Set the **App Locale Code** field (for example, NLD for Dutch).

This controls date and number formatting for all users (for example, 31.12.2025 vs 12/31/2025).

To assign language per user (optional)

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

The **Mobile User Assignments** page opens.

2. Set the **Language Code** for each user.

This overrides the app locale for that user's UI labels and text.

Supported languages: English (default), Danish, German, Spanish, French, Dutch, Swedish, and Chinese.

How it works on the mobile app

On the mobile app, the language is applied and managed automatically based on your setup in Business Central:

- The language loads automatically when you sign in—no action is required.
- The app temporarily stores your language preference on the device.
- When you sign out, the stored preference is cleared. On the next sign-in, the language is loaded again from Business Central.

Fallback rules

The system uses the following order to decide which language to display:

- If a language is set for the user, the system uses that language.



- If no user language is set, the system uses the **App Locale Code** field value.
- If no **App Locale Code** field value is set, the system defaults to *English (en-US)*.
- If a translation is not available in the selected language, the system shows that specific text in English.



Data retention policy

Article • 4/27/2026 • 5 min read

Data Administration can be used to delete Mesh log data when it becomes irrelevant over time. The administrator runs the retention policy to have Business Central delete outdated data in tables that contain log entries. When the retention policy is run, all records that have not been modified for two days or more are deleted.

The following Mesh tables support retention policies:

Table	Table ID	Purpose
MobileRequestLog220FDW	73167876	Stores RPC request and response logs generated when the Enable Request Logging toggle on the Mobile Setup page is turned on .
BCRPC220FDW	73167870	Stores temporary RPC transaction data used by the mobile app's API communication layer.

Create a retention policy for MobileRequestLog220FDW

1. Select the Search icon , enter **Data Administration**, and then choose the related link.
The **Data Administration** page opens.
2. On the action bar, select **Related > Retention Policies**.
The **Retention Policies** page opens.
3. On the action bar, select **New**.
The **Retention Policy** page opens.
4. On the **General** FastTab, in the **Table ID** field, enter **73167876** to select the mobile request log table.
On the **Retention Policy** FastTab, the fields are automatically filled.
5. Turn on the **Enabled** toggle to apply retention policies according to the specified retention period.
The retention policy will run automatically, and the mobile request log entries that have not been modified for two days or more will be deleted.
6. On the **Retention Policy** FastTab, turn on the **Manual** toggle, if the policy must always be applied manually.
7. On the action bar, select **Home > Apply Manually** to run the retention policy.
The system displays a dialog.
8. Click **Yes**.



Create a retention policy for BCRPC220FDW

1. Select the Search icon , enter **Data Administration**, and then choose the related link.
The **Data Administration** page opens.
2. On the action bar, select **Related** > **Retention Policies**.
The **Retention Policies** page opens.
3. On the action bar, select **New**.
The **Retention Policy** page opens.
4. On the **General** FastTab, in the **Table ID** field, enter *73167870* to select the BCRPC table.
On the **Retention Policy** FastTab, the fields are automatically filled.
5. Turn on the **Enabled** toggle to apply retention policies according to the specified retention period.
The retention policy will run automatically, and the RPC transaction entries that have not been modified for two days or more will be deleted.
6. On the **Retention Policy** FastTab, turn on the **Manual** toggle, if the policy must always be applied manually.
7. On the action bar, select **Home** > **Apply Manually** to run the retention policy.
The system displays a dialog.
8. Click **Yes**.



Mesh Client

Article • 4/27/2026 • 1 min read

The Apteian Mesh mobile client is a server-driven Android application that runs on handheld scanners, tablets, and phones. It provides the user interface, workflows, and scan steps defined in Business Central and rendered on the device at runtime. Each workflow appears as a screen accessed from the Mesh home screen, with the layout, data, and step sequence sourced from the [mobile pages](#), [services](#), and [workflow steps](#) configured in the assigned [mobile app bundle](#).

For instructions on setting up the device, signing in, and using the home screen and scanning interface common to every workflow, see [Getting started with Mesh Standard Bundle](#).

The Standard Bundle includes the following warehouse workflows:

- [Warehouse receipt](#)
- [Warehouse put-away](#)
- [Warehouse pick](#)
- [Inventory movement](#)
- [Ad-hoc movement](#)
- [Inventory adjustment](#)
- [Bin contents](#)



Getting started with Mesh Standard Bundle

Article • 4/27/2026 • 9 min read

The features available to you depend on the bundles and pages configured by your system administrator. Some options may not appear if they have not been enabled for your site.

!

Note

The latest version of the Apteian Standard Bundle is Version 2. For more information, see [Release notes](#).

The following table describes the main features available in **Mesh Standard Bundle**:

Feature	What it does
Warehouse Receipt	Receive inbound goods against a purchase order or transfer order and confirm quantities by scanning items.
Warehouse Put-Away	Put received items away into the correct warehouse bins.
Inventory Movement	Move items between bins using a pre-created warehouse activity document.
Ad-Hoc Movement	Freely move any item from one bin to another without any pre-existing document.
Warehouse Pick	Fulfill outbound orders by picking items from warehouse bins against a sales order or transfer order.
Inventory Adjustment	Perform positive or negative stock adjustments directly from the mobile device without a source document.
Bin Contents	View and verify the current stock held within any warehouse bin. Scan or search a bin to display a real-time list of items, lot numbers, and available quantities stored at that location.

Prerequisites

Before using Mesh, confirm the following with your system administrator:

- The Apteian Mesh mobile app is installed on your Android device. Download from the [Google Play Store](#).
- You have a valid Business Central user account.
- Your account has been set up as a Warehouse Employee in Business Central.
- A Default Location has been assigned to your Warehouse Employee record.



- Microsoft (OAuth) login is enabled for sign-in.

Device setup

If this is the first time Mesh has been opened on your device, you will see the **Setup** screen asking you to scan a QR code from the **Mobile Setup** page.

1. Open the Mesh app. The **Setup** screen appears asking you to scan a configuration QR code.
2. Ask your administrator for the configuration QR code from the **Mobile Setup** page in Business Central.
Zebra devices (hardware scanner): Point your hardware scanner at the QR code. The app reads it automatically.
Non-Zebra devices (Android phone or tablet without a hardware scanner):
 - Tap the settings icon on the setup screen to open local app settings.
 - Turn on the **Enable Camera Scanner** toggle and click **Save**.
 - Return to the setup screen. A camera icon button appears on the setup card.
 - Tap the camera icon and point your device camera at the QR code.
 - Align the QR code inside the finder frame. The app reads it automatically.
3. The app fills in the **Tenant ID**, **Client ID**, **Company URL**, and **Telemetry URL** field values automatically from the scanned QR code.
4. You are taken to the Login screen. Proceed to the Login section below.

Once set up, you will not need to scan the QR code again unless the app is reinstalled, your server address changes, or you wish to connect to a different server.

Note

- If camera permission has not been granted, the app requests it when you tap the camera icon. If you deny permission, a message explains that camera access is required. If the scanned QR code is not a valid Mesh configuration, an error is shown and no fields are changed.

Logging in

The Login screen appears every time you open Mesh (or after your session expires).

Microsoft sign-in (OAuth / Azure AD)

1. On the Login screen, tap the **Microsoft** tab at the top.
2. Tap **Sign in with Microsoft**.



3. The Microsoft authentication screen opens. Enter your work email address and password (or use Windows Hello / Authenticator if configured).
4. On successful authentication, you are returned to Mesh and the Home screen loads automatically.

If you see a connection error, verify with your administrator that the Server URL is correct. You can check this in the **Settings** icon (gear icon on the Home screen).

Selecting your company and location

After logging in, Mesh connects to the Business Central company assigned to you. If your organization has multiple companies or locations, you may need to select the correct one.

1. On the **Home** screen, tap the hamburger menu icon (three horizontal lines) in the top-left corner to open the side drawer.
2. The drawer shows your current **Company** and **Location**.
3. To change company, tap **Change** next to the company name. A list of available companies appears. Tap the correct company.
4. To change location, tap **Change** next to the location. A list of warehouse locations appears. Tap the correct one. The **Home** screen refreshes to show documents for the selected location.

Your default company and location are set by your administrator in Business Central.

The home screen

The **Home** screen is the starting point for all warehouse activities. It displays tiles or cards for each available workflow, along with a count of pending documents waiting to be processed.

Navigation bar (top)

Element	What it does
Hamburger icon (top-left)	Opens the side drawer to switch Company or Location .
Screen title	Shows the name of the current screen (for example, <i>Home</i>).
Settings icon (top-right)	Opens the Settings screen for scanner and connection configuration.
Logout icon (top-right)	Logs you out of the application (asks for confirmation first).



Document tiles

Each warehouse function appears as a tile or card on the **Home** screen. The tile shows the function name and the number of open documents assigned to you or available at your location. Tap a tile to open the document list for that function.

Pull down on the **Home** screen to refresh the document counts.

Home screen queues

For information about the **Inbound**, **Internal**, and **Outbound** tabs on the **Mesh Home** screen, including document types, sort order, and filters, see [Home screen](#).

Understanding the scanning screen

All warehouse workflows use the same scanning screen layout. Understanding this screen will help you use every workflow in Mesh.

Screen layout

Area	Description
Top bar	Shows the screen title (for example, <i>Put-Away</i>) and, where applicable, the document number as a subtitle below the title.
Step input card (upper area)	A rounded card showing what you need to scan or enter right now. Contains the step label (what is being asked for), a prompt (contextual instruction), and the input field.
Info pane card (lower area)	A grey rounded card showing all the details about the current item — description, item number, image, quantities, bin, lot number, and more.
Footer action buttons	Blue floating button(s) at the bottom of the screen for extra actions such as viewing scan entries.

Step input card

The step input card guides you through one action at a time. It always shows the following elements:



Element	Description
Step label	The name of what is being asked for, shown in bold at the top-left of the card. For example, <i>Scan Place Bin, Enter Quantity, Lot Tracking: Required.</i>
Undo button	Arrow icon to the left of the label. Tap to undo the last confirmed step.
Suggestions button	Three-dot (...) icon to the right of the label. Tap to see a list of valid values for this step.
Prompt text	A contextual hint shown below the label in smaller text. For example, <i>Remaining: 10 (Scan qty or bin) or Place Bin Suggested WEST-01.</i>
Input field	Where you type or scan the value.
Validation error	Red text shown below the input if the value you entered is not accepted.

Entering values

You can enter values in three ways:

- **Hardware scanner** — point your device at a barcode. The value is read automatically and submitted without pressing anything.
- **Manual entry** — tap the input field to open the on-screen keyboard. Type the value and tap the confirm/enter key.
- **Suggestions list** — tap the ... icon in the step header to see a list of available values (for example, available bins, lot numbers). Tap a value to select it.

The prompt text in the step card usually shows the expected value as a hint. For example, *Place Bin Suggested WEST-01* tells you which bin Business Central recommends — you can scan it or type it manually.

When you scan a product barcode (GS1, UPC, or EAN) at an item scan step, the system checks the item reference table in Business Central before resolving the item number:

- If the barcode uniquely identifies both an item and a variant, both are auto-populated and the variant selection step is skipped entirely.
- If the barcode identifies an item only (no variant on the reference), the workflow continues normally — the variant step appears if the item has variants, and is skipped if it has none.
- If there is no match in item reference, the system falls back to direct item number lookup with no change in behaviour and no error shown.



Info pane card

The info pane shows all the details about the item you are currently working with. The information updates after each step is confirmed. Typical fields shown include:

Field	Description
Item description and item number	Shown at the top, with an item image if available.
Quantity handled vs total quantity	Shown in <code>handled/total</code> format (for example, <code>2/10</code>).
Scanned quantity progress bar	Fills up as you scan quantities.
Suggested bin, lot number, unit of measure, variant, and location	Populated as the workflow step that captures each value is completed.
Source document reference and expiration date	Shown where applicable.

If there are more fields than fit on one page, dots appear below the fields. Swipe up or down on the info pane to see more fields.

Undo button

The undo button (left-arrow icon in the step header) reverses the last confirmed step. For example, if you confirmed the wrong lot number, tap the **Undo** button to clear it and re-scan.

 **Warning**

Once a workflow reaches its final step, that step cannot be undone. For example, in the Put-Away workflow from the Standard bundle, the final step is the bin scan, so it cannot be undone once confirmed.

Camera scanner

The camera scanner lets you scan barcodes directly using your device's camera without requiring external scanning hardware.



How to scan with the camera

1. Ensure the **Enable Camera Scanner** toggle is turned on in the Aptean Mesh app settings.
2. On a barcode step, tap the floating camera button (bottom-left of screen).
3. Grant camera permission on first use if prompted.
4. A draggable camera preview overlay opens.
5. Align the barcode inside the white finder frame.
6. The system highlights detected barcodes in green and auto-submits.
7. Turn on or off the **Flash** toggle to turn the device torch on or off for low-light environments. This is optional.
8. Turn on the **Keep Scanning** toggle to keep the camera preview open after each scan. By default, the preview closes automatically after a single scan, and it is optional.
9. Tap **Close (X)** to exit the camera preview manually.

Supported barcode formats

- EAN-8, EAN-13, Code 39, Code 93, Code 128 (incl. GS1-128), ITF, QR Code, Data Matrix.



Home screen

Article • 7/22/2026 • 3 min read

The **Mesh Home** screen is the starting point for all warehouse activities. It displays three tabs — **Inbound**, **Internal**, and **Outbound** — showing all open warehouse work available at your active location, including both source documents (orders) and warehouse documents (receipts, picks, movements).

Tapping a source document row (such as a released purchase order or sales order) navigates directly into the relevant workflow. If a warehouse document does not yet exist for that source document, the system creates one automatically before opening it.

Inbound queue

The **Inbound** tab shows the following documents in a single unified list:

- Released purchase orders that are not completely handled
- Released transfer orders that are not completely handled
- Released sales return orders that are not completely handled
- Open warehouse receipts that are not fully posted
- Open warehouse put-aways that are not fully registered

For more information, see [Warehouse receipt](#) and [Warehouse put-away](#).

Internal queue

The **Internal** tab shows the following documents in a single unified list:

- Open inventory movements that are not fully registered

For more information, see [Inventory movement](#).

Outbound queue

The **Outbound** tab shows the following documents in a single unified list:

- Released sales orders that are not completely handled
- Released purchase return orders that are not completely handled
- Open warehouse picks that are not fully registered

For more information, see [Warehouse pick](#).



Sort order

Documents are sorted automatically in the following priority:

- 1. Documents assigned to you — shown first
- 2. Unassigned documents — shown second
- 3. Documents assigned to another user — shown last

Within each group, documents are sorted by due date ascending (earliest first). Documents with no due date appear last within their group.

Filters

Use the filter button to narrow the queue. Filters are grouped into three categories: **Assignment**, **Document types**, and **Date range**.

Assignment

Option	What it shows
All	All documents for your active location (default)
Assigned to Me	Only documents assigned to the current user
Not Assigned	Only documents with no assignment
Assigned to Others	Only documents assigned to a different user

Document types

Option	What it shows
Receipt	Open warehouse receipts only
Put-away	Open warehouse put-aways only
Pick	Open warehouse picks only
Movement	Open inventory movements only



Inbound Orders	Released source documents only — purchase orders, transfer orders, and sales return orders. Excludes open warehouse receipts and put-aways.
Outbound Orders	Released source documents only — sales orders and purchase return orders. Excludes open warehouse picks.

Date range

Option	What it shows
All	All documents regardless of due date (default)
Today	Only documents with a due date of today

The selected filter persists for the session and resets to **All** when you start a new session. Pull down on the queue to refresh the document list.



Warehouse receipt

Article • 4/27/2026 • 3 min read

The receipt workflow is a step-by-step guided process that allows warehouse workers to receive incoming items from source documents and register them into the system using the mobile application through the Mesh framework.

On the **Mesh Home** screen, the **Inbound** section displays a list of receipt and put-away documents that are available for processing.

The list includes:

- Documents assigned to the respective warehouse employee.
- Unassigned documents that are available for processing.

You can filter and view only receipt documents in the **Inbound** section by entering *Receipt* in the **Quick Search** field. This is also configurable using the home screen filter.

The system supports processing different types of source documents, including purchase orders, sales return orders, and transfer orders. This flexibility allows warehouse users to handle various inbound scenarios within a single workflow.

When a source document number is in the *Released* state, enter the source document number in the **Quick Search** field. The system creates a warehouse receipt and automatically opens the **Receipt** screen on the scanner.

Documents are displayed as tiles, each showing key information such as:

- Document No.
- Type (Receipt or Put-away)
- Location
- Assigned User
- Assigned Date

When a user selects a document tile, the system navigates to the **Detail** screen, where the activity line details for the selected document are displayed, including:

- Item No.
- Quantity
- Source No.

From this screen, warehouse workers can proceed with the receipt workflow in the Aptean Mesh mobile app.



Processing warehouse receipt line

The following procedure shows how to register a warehouse receipt in Mesh.

1. Open the **Mesh Home** screen.
2. Select **Inbound** > select the document.
The **Detail** screen opens.
3. Open the warehouse receipt line.
4. In the **Lot Tracking: Required** field, scan or enter a lot number (if required). Available lots are displayed in the side panel, where you can manually select an existing lot or generate a new lot.
5. In the **Expiration Date** field, scan or enter an expiration date.
6. In the **Enter Quantity** field, scan or adjust the quantity. Units of measure are displayed in the side pane based on the configuration for the respective item, where you can manually select the appropriate UOM. Once the quantity is scanned or entered, scan entries are created in the system with a *Pending* status.
7. In the **Scan Receive Bin** field, scan or manually enter the bin code. Available bins are displayed in the side pane, where you can manually select the appropriate bin. Once all steps are completed, the receipt process is successfully recorded.

Scan GS1-compliant barcodes

You can scan GS1-compliant barcodes containing GTIN information to automatically populate the item and lot details during warehouse receiving. This eliminates manual entry and strengthens traceability across the inbound logistics process. The system captures the item, lot number, expiry date, and quantity from a single scan.

1. Open the **Receipt** screen in Mesh.
2. Scan the GS1-compliant barcode containing GTIN information.
For example: (01)01234567890011(10)LOT0001(17)280907(37)10

The system completes the receipt for the item once all the required data is scanned.

The warehouse receipt is posted, and the system creates warehouse entries. Once a warehouse receipt line is completed, the system generates a put-away document for that line.



Warehouse put-away

Article • 4/27/2026 • 2 min read

The put-away workflow is a step-by-step guided process that allows warehouse workers to place received items into their designated storage bins using the mobile application through the Mesh framework.

On the **Mesh Home** screen, the **Inbound** section displays a list of receipt and put-away documents that are available for processing.

The list includes:

- Documents assigned to the respective warehouse employee.
- Unassigned documents that are available for processing.

You can filter and view only put-away documents in the **Inbound** section by entering *Put away* in the **Quick Search** field.

The system supports processing different types of source documents, including purchase orders, sales return orders, and transfer orders. This flexibility allows warehouse users to handle various inbound scenarios within a single workflow.

Documents are displayed as tiles, each showing key information such as:

- Document No.
- Type (Receipt or Put-away)
- Location
- Assigned User
- Assigned Date

When you select a document tile, the system navigates to the **Detail** screen, where the activity line details for the selected document are displayed, including:

- Item No.
- Quantity
- Source No.

From this screen, warehouse workers can proceed with the put-away workflow in the Aptean Mesh mobile app.

Processing warehouse activity line

The following procedure shows how to register warehouse put-away in Mesh.



1. Open the **Mesh Home** screen.
2. Select **Inbound** > select the document.
The **Detail** screen opens.
3. Open the warehouse activity line.
4. In the **Lot Tracking: Required** field, scan or enter a lot number (if required).
5. In the **Enter Quantity** field, scan or adjust the quantity. Once the quantity is scanned or entered, scan entries are created in the system. This step also includes an **Undo** option, which allows you to navigate back to the previous step if needed.
6. In the **Scan Place Bin** field, scan or manually enter the bin code. Once the bin is scanned or entered, the Put-away process is registered successfully.

Scan GS1-compliant barcodes

You can scan GS1-compliant barcodes containing GTIN information to automatically populate multiple workflow fields during warehouse put-away. This eliminates manual entry and strengthens traceability across the put-away process.

1. Open the **Put-Away** screen in Aptean Mesh.
2. Scan the GS1-compliant barcode containing GTIN information.
For example: (01)01234567890011(10)LOT0001(37)10

The system completes the put-away for the item once all the required data is scanned.

The warehouse put-away is posted, and the system creates warehouse entries.



Warehouse pick

Article • 4/27/2026 • 2 min read

On the **Mesh Home** screen, the **Outbound** section displays a list of warehouse pick documents that are available for processing.

The list includes:

- Documents assigned to the respective warehouse employee.
- Unassigned documents that are available for processing.

Documents are displayed as tiles, each showing key information such as:

- Document No.
- Type (Pick)
- Location
- Assigned Date

When you select a document tile, the system navigates to the **Detail** screen, where the activity line details for the selected document are displayed, including:

- Item No.
- Quantity
- Source No.
- Take Bin

From this screen, warehouse workers can proceed with the pick workflow in the Aptean Mesh mobile app.

Processing warehouse activity line

The following procedure shows how to register a warehouse pick in Aptean Mesh.

1. Open the **Mesh Home** screen.
2. Select **Outbound** > select the document. The **Detail** screen opens.
3. Open the warehouse activity line.
4. In the **Scan Take Bin** field, scan or enter the bin code from which the item will be picked.
5. In the **Lot Tracking: Required** field, scan or enter a lot number (if required).
6. In the **Enter Quantity** field, scan or adjust the quantity. Once the quantity is scanned or entered, scan entries are created in the system.



7. In the **Scan Place Bin to register** field, scan or manually enter the bin code. Once the bin is scanned or entered, the Pick process is registered successfully.

Scan GS1-compliant barcodes

You can scan GS1-compliant barcodes to automatically populate warehouse pick fields. The system extracts the Lot Number (AI 10) and Quantity (AI 37) from the barcode, eliminating manual entry for those steps.

1. Open the **Pick** screen in Aptean Mesh.
2. Scan the GS1-compliant barcode containing GTIN information.

For example: (01)01234567890011(10)LOT0001(37)10

The system completes the pick for the item once all the required data is scanned.

The warehouse pick is posted, and the system creates warehouse entries.



Inventory movement

Article • 4/27/2026 • 2 min read

On the **Mesh Home** screen, the **Internal** section displays a list of inventory movement documents that are available for processing.

The list includes:

- Documents assigned to the respective warehouse employee.
- Unassigned documents that are available for processing.

Documents are displayed as tiles, each showing key information such as:

- Document No.
- Type (Inventory Movement)
- Location
- Assigned User
- Assigned Date

When a user selects a document tile, the system navigates to the **Detail** screen, where the activity line details are displayed, including:

- Item No.
- Lot
- Quantity
- From Bin
- To Bin

From this screen, warehouse workers can proceed with the inventory movement workflow in the Aptean Mesh mobile app.

Processing warehouse activity line

The following procedure shows how to register an inventory movement in Mesh.

1. Open the **Mesh Home** screen.
2. Select **Internal** > select the document.
The **Detail** screen opens.
3. Open the warehouse activity line.
4. In the **Scan Take Bin** field, scan or enter the bin code from which the item will be picked.



5. In the **Lot Tracking: Required** field, scan or enter a lot number (if required). This step includes an **Undo** option.
6. In the **Enter Quantity** field, scan or adjust the quantity. Scan entries are created in the system with a *Pending* status.
7. In the **Scan Place Bin to register** field, scan or manually enter the bin code. Once the bin is scanned or entered, the Inventory Movement process is registered successfully.

Scan GS1-compliant barcodes

You can scan GS1-compliant barcodes containing GTIN information to automatically populate multiple workflow fields during inventory movement. This eliminates manual entry and strengthens traceability across the movement process.

1. Open the **Inventory Movement** screen in Mesh.
2. Scan the GS1-compliant barcode containing GTIN information.

The system completes the Inventory Movement for the item once all the required data is scanned.

The Inventory Movement is posted, and the system creates warehouse entries.



Ad-hoc movement

Article • 4/27/2026 • 3 min read

Ad-Hoc Movement is accessed directly from the **Mesh Home** screen as a standalone action. It does not require selecting a document from a list. The worker taps the **Ad-Hoc Movement** button from the hamburger menu, and the system immediately opens the movement workflow.

On opening, the Ad-Hoc Movement screen displays:

- A step input area for scanning or entering values.
- An info pane (shown progressively as data is collected) with **Location**, **From Bin**, **To Bin**, **Item**, **Variant**, **Lot**, and **Quantity**.
- An **Undo** button to reverse the last confirmed step.

Processing ad-hoc movement

The following procedure shows how to perform an ad-hoc inventory movement in Mesh. Ad-hoc movement supports both same-location bin-to-bin moves and cross-location moves within a single workflow.

1. Open the **Mesh Home** screen.
2. Select **Ad-hoc movement** from the hamburger menu.
3. In the **From Location** field, confirm or change the source location. The field defaults to your assigned warehouse location. Change it if you are moving inventory from a different location.
4. In the **Scan From Bin** field, scan or select the source bin code. The system presents a list of available bins as suggestions in the side pane.
5. In the **Scan Item** field, scan the item barcode or manually enter the item number. The system validates that the item has stock in the selected From Bin.
6. In the **Lot Tracking: Required** field, scan or select the lot number (if required). This step appears only for lot-tracked items. Available lots from the selected From Bin are shown as suggestions in the side pane.
7. In the **Select Variant** field, select or scan the item variant code (if required). This step appears only if the scanned item has variants. Select *No Variant* if the item does not require a variant code.
8. In the **Enter Quantity** field, enter the quantity to move. The system validates the quantity is a positive number. There is no maximum quantity limit enforced.
A unit of measure selector is displayed alongside the quantity field. The selector defaults to the item's base unit of measure. To change it, tap the UOM field and select from the list of all units of measure defined for the item. The available quantity shown for the From Bin updates to reflect the selected unit of measure. When the unit of measure is changed, the quantity field clears.
9. In the **Scan To Location** field, scan or select the destination location. The field pre-fills with the **From Location** as a suggestion. To move within the same location, confirm the pre-filled value. To move to a different location, clear the field and scan or select any location where you have Warehouse Employee access.



10. In the **Scan To Bin** field, scan or select the destination bin. The bin must belong to the selected To Location.

Once the bin is confirmed, the movement is posted automatically via the Item Reclassification Journal.

After the To Bin is confirmed, the system posts the movement immediately. No additional confirmation step is required. The system displays a notification with the item, quantity, and location information.

Scan GS1-compliant barcodes

You can scan GS1-compliant barcodes containing item, lot, and variant information to automatically populate multiple workflow fields during Ad-Hoc Movement. The system resolves the item, lot number, and bin information from the barcode and automatically advances through the corresponding workflow steps.

1. Open the **Ad-Hoc Movement** screen in Mesh.
2. Scan the GS1-compliant barcode containing the relevant fields.

The Ad-Hoc Movement is posted, and the system creates the corresponding entries.



Inventory adjustment

Article • 4/27/2026 • 3 min read

Inventory Adjustment is accessed directly from the **Mesh Home** screen as a standalone action from the hamburger menu. The worker taps the **Adjustments** button, and the system immediately opens the adjustment workflow — no document selection is required.

On opening, the Adjustments screen displays:

- A step input area for scanning or entering values.
- An info pane (shown progressively as data is collected) with **Location**, **Item**, **Lot**, **Bin**, **Variant**, and **Quantity**.
- An **Undo** button to reverse the last confirmed step.

Processing adjustments

The following procedure shows how to register an inventory adjustment in Mesh.

1. Open the **Mesh Home** screen.
2. Select **Adjustments** from the home screen.
The adjustment workflow opens immediately.
3. In the **Scan Item** field, scan or enter the item number. The system validates that the item exists and is not blocked.
4. In the **Lot Tracking: Required** field, scan or enter a lot number (if required). This step appears only for lot-tracked items.
5. In the **Scan Bin Code** field, scan or enter the bin code for the adjustment (if required). This step appears only if the **Bin Mandatory** is turned on for the location. The system validates that the bin exists and is not blocked.
6. In the **Select Variant** field, select or scan the item variant code (if required). This step appears only if the scanned item has variants. Select *No Variant* if the item does not require a variant code.
7. In the **Enter Quantity** field, scan or enter the quantity to adjust. The system validates the quantity is numeric.
Once the quantity is scanned or entered, scan entries are created in the system with a *Pending* status.
A unit of measure selector is displayed alongside the quantity field. The selector defaults to the item's base unit of measure. To change it, tap the UOM field and select from the list of all units of measure defined for the item. The current on-hand quantity displayed during the adjustment updates to reflect the selected unit of measure. When the unit of measure is changed, the quantity field clears.
8. In the **Reason Code** field, enter or select the reason code for the adjustment. Once the reason code is entered or confirmed, the adjustment is registered successfully.

After all steps are confirmed, the system posts the adjustment and displays a success message. The adjustment is immediately reflected in inventory ledger entries in Business Central.



Scan GS1-compliant barcodes

You can scan GS1-compliant barcodes containing lot number, bin, variant, and quantity information to automatically populate multiple workflow fields during Adjustments. This eliminates manual entry and strengthens traceability across the adjustment process.

1. Open the **Adjustments** screen in Mesh.
2. Scan the GS1-compliant barcode containing the relevant fields.

The system completes the adjustment for the item once all the required data is scanned.

The adjustment is posted, and the system creates the corresponding item ledger entries.



Bin contents

Article • 4/27/2026 • 3 min read

Warehouse workers can perform live bin inventory inquiries directly from the mobile application. The operator must be assigned as a warehouse employee with a default warehouse location to use the feature.

Bin Contents is accessed directly from the **Mesh Home** screen as a standalone action from the hamburger menu. The worker taps the **Bin Contents** button, and the system immediately opens the **Bin Contents** page. It provides a real-time view of inventory across all bins at the operator's default warehouse location, with progressive filtering by bin code, item number, and variant code.

The **Bin Contents** page shows the following elements:

- A scan input field is available at the top of the page with the prompt "Scan Bin, Item, or Variant", allowing manual entry or barcode scanning at any time.
- A filter info section below the scan field displays the currently applied filters.
- A bin content list displays all matching records for the operator's location. Each card shows the item number, available quantity, bin code, and variant code. If no records are found, a "No bin contents found" message is displayed.
- An **Undo** button appears when at least one filter is active. Tapping it removes the most recently applied filter and refreshes the results.

When a bin is scanned, the system retrieves and displays all available contents within the selected bin. You can refine the displayed results by applying additional filters such as item or variant. Likewise, when an item or variant is scanned, the system filters and presents the corresponding bin contents based on the applied criteria.

The **Undo** button removes the most recently applied filter, updating the list automatically each time it is tapped.

Bin contents cards

When one or more filters are applied, the system displays bin contents based on the selected location, bin, item, or variant. Only items with available quantity (greater than zero) are shown in the results.

Each bin content card includes:

- **Item No.** – Identifies the item available in the bin.
- **Quantity** – Shows the available stock in the bin.
- **Bin Code** – Indicates the bin where the item is stored.
- **Variant Code** – Displays the item variant, or "-" if not applicable.



Lot details screen

When a bin content card is tapped, the system opens the **Lot Details** screen, displaying the available tracking information for that specific item in the selected bin.

The system retrieves and displays tracking details based on the selected location, bin, item, and variant. Only entries with available quantity (greater than zero) are shown.

On the detail screen, each tracking entry is displayed as a separate card with the following information:

- **Quantity** – The total available quantity for the tracking entry in the bin.
- **Type** – Indicates the tracking type (*Lot*, *Serial*, or *Package*).
- **Lot No.** – Displays the lot number for lot-tracked items.
- **Blocked** – Indicates whether the lot or serial is blocked (*Yes/No*). For packages, this is always shown as *No*.

The system ensures that only valid and available tracking entries are displayed, based on the applied filters and item tracking type.

Note

The **Lot Details** screen is for viewing purposes only. Selecting a line does not trigger further navigation or actions. You can print labels from this screen.



Audible feedback for scans and errors

Article • 7/22/2026 • 2 min read

When a scan is rejected or a workflow action fails, the Mesh app generates a distinct alert sound on the device. You are immediately notified without looking at the screen, allowing you to continue scanning during operations such as picking and receiving.

You can control the alert sound using the **Error Sounds** toggle on the Settings screen.

Error sound

The app generates a short alert tone in any of the following situations:

- A scan is rejected — for example, the scanned barcode is not recognised in the item master or item references.
- A validation fails — for example, the entered quantity exceeds the pick line, or the wrong lot is scanned.
- Business Central returns an error response for any workflow action, including pick, receipt, put-away, transfer, and inventory adjustment.

The app respects the device volume setting. If the device is muted or set to zero volume, no sound is generated. The error message is still displayed on screen regardless of the device volume.

Error Sounds setting

An **Error Sounds** toggle is available in the **Scanner Feedback** section of the app settings screen. This setting controls whether the alert sound is generated.

Note

All three toggles in the **Scanner Feedback** section — **Beep on Scan**, **Vibrate on Scan**, and **Error Sounds** — are turned on by default.

To change the Error Sounds setting

1. From the **Home** screen, open **Settings**.
2. In the **Scanner Feedback** section, turn on or off the **Error Sounds** toggle.
3. Select **Save**.



Behaviour reference

The following table summarises when the alert sound is generated and when it is not.

Situation	Alert sound generated
Scan rejected — barcode not recognised	Yes
BC error returned for a workflow action (pick, receipt, put-away, transfer, adjustment)	Yes
Validation failure — quantity exceeded, wrong lot	Yes
Error Sounds setting is Off	No
Device is muted or volume is set to zero	No
Sound file is missing or corrupt at startup	No



Integrations

Article • 4/27/2026 • 1 min read

The Apteian Mesh extension has been integrated with the following extension:

- [Apteian Labeling](#)



Integration with Aptean Labeling

Article • 4/27/2026 • 3 min read

When the Aptean Mesh extension is used in conjunction with the Aptean Labeling extension, the label printing feature allows the Aptean Mesh mobile app to automatically print a warehouse label after each receipt line is posted. Configuration is performed on the **Mobile Setup** page in Business Central.

Setup

To configure label printing, follow these steps:

1. Select the Search icon , enter **Mobile Setup**, and then choose the related link.
The **Mobile Setup** page opens.
2. On the **General** FastTab, enter the required information in the following fields:

Field	Description
Auto-Print Labels	Specifies whether a label is printed automatically after a warehouse receipt line is posted. Set this field to <i>Yes</i> to activate label printing.
Label Provider	Specifies the labeling solution used to print labels after warehouse receipt posting. The default provider is Aptean Labeling for Food and Beverage.

Print a label from the receipt

Labels can be printed manually from the **Receipt** screen after a scan entry has been created.

1. Open the **Receipt** screen in Mesh and complete a scan entry for a receipt line.
2. Tap the **Print** button in the footer bar.
3. Enter the number of labels to print in the dialog and confirm.

The system sends the label request to the configured label provider in a background session. A success message is displayed on the device.

 **Note**

The **Print** button is available only when there is a pending scan entry on the current receipt line.



Print a label from Bin Contents lot detail

Labels can be printed for a specific lot directly from the Bin Contents detail view.

1. Open the **Bin Contents** screen in Mesh and select a bin.
2. On the lot detail list, tap the **Print** icon on the lot card.
3. Enter the number of labels to print in the dialog and confirm.

The system sends the label request to the configured label provider in a background session. A success message is displayed on the device.

Note

For label format configuration and printer setup, see [Aptean Labeling](#).

