MYOB Advanced

Release Notes

2019.1

Contents

Introduction

Welcome to the 2019.1 release of MYOB Advanced. The purpose of this document is to provide essential information on the changes included in this release that affect organisations who are involved in developing reports, customisations and integrations for the MYOB Advanced system.

Feature Highlights

Automated Warehouse Operations

Using a handheld scanner or the MYOB Advanced OnTheGo smartphone app, warehouse employees can complete their tasks quickly and easily, using special screens that automatically change modes as they work through the process. See "Automated Warehouse Operations" on page 37 for more information.

Project Updates

Projects in MYOB Advanced support multi-currency features, so you can track a project in one currency, bill the customer in another, and bring in transactions using any currency you've set up. See "Multi-Currency Accounting" on page 77 for more information.

You can now generate a Project Quote in advance of creating a project. This lets you take advantage of all of Advanced's quoting functionality in your project accounting. See "Quotes" on page 84 for details.

This release adds the ability to enter and modify budget forecasts for a project and compare these forecasts with the project's actual costs and income. Forecasts can be broken down by period, and can include multiple revisions. See "Budget Forecasts" on page 90 for more information.

Financial Calendars

You can now use different financial calendars for different companies in the same MYOB Advanced installation—see "Support for Different Financial Calendars" on page 8.

Generic Inquiry Enhancements

Generic inquiries now support conditional formatting, and can display extra information in a sidebar—see "Highlighting of Generic Inquiry Rows or Columns" on page 172 and "New Navigation Option in Generic Inquiries" on page 166.

Goods Receipt Updates

Updates have been made to goods receipt and returns functions including a new layout to help simply the processing of purchases—see "Improved Purchase Returns" on page 64 and "Purchase Receipt Improvements" on page 68.

Release Notes

Finance

Support for Different Financial Calendars

In the previous versions, companies within the same tenant could not have different fiscal year-end (FYE) dates. Now it is possible to implement multiple legal entities that have different fiscal year-end dates within the same tenant. With this functionality, an organisation can accelerate implementation; simplify maintenance for companies that share suppliers, stock items, and employees; run consolidated operational reports at any time; and facilitate the preparation of consolidated financial statements. For details, see "Multiple Calendar Support" in the User Guide.

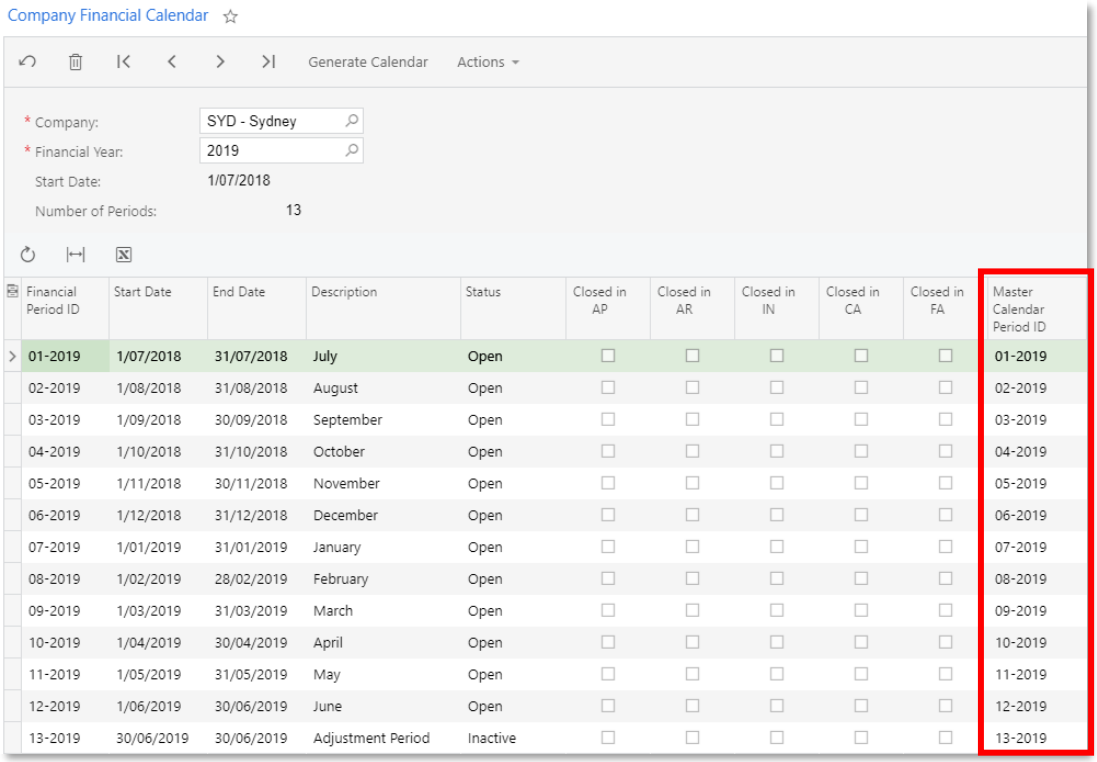
Company-Specific Year Starting Date

To give organisations the ability to use different financial calendars, the Multiple Calendar Support feature has been introduced. If the feature is enabled on the Enable/Disable Features screen (CS100000), users will be able to configure companies with different fiscal year-end dates within one tenant. The feature can be enabled only when the Centralised Period Management feature is disabled.

With the feature enabled, on the Company Financial Calendar screen (GL201100), a user will be able to specify the start date of the first fiscal year of a new company by selecting one of the start dates of periods from the master calendar.

Company calendars need to be generated separately for each company. For details of configuring company calendars, see "To Configure a Company Calendar" in the User Guide. For details on generating financial periods in company calendars, see "To Generate Periods for New Financial Years in Company Calendar" in the User Guide.

The Master Calendar Period ID column has been added to the Company Financial Calendar screen (GL201100). The column displays the period ID in the master calendar that corresponds to the company period:



Financial Period ID	Start Date	End Date	Description	Status	Closed in AP	Closed in AR	Closed in IN	Closed in CA	Closed in FA	Master Calendar Period ID
01-2019	1/07/2018	31/07/2018	July	Open	☐	☐	☐	☐	☐	01-2019
02-2019	1/08/2018	31/08/2018	August	Open	☐	☐	☐	☐	☐	02-2019
03-2019	1/09/2018	30/09/2018	September	Open	☐	☐	☐	☐	☐	03-2019
04-2019	1/10/2018	31/10/2018	October	Open	☐	☐	☐	☐	☐	04-2019
05-2019	1/11/2018	30/11/2018	November	Open	☐	☐	☐	☐	☐	05-2019
06-2019	1/12/2018	31/12/2018	December	Open	☐	☐	☐	☐	☐	06-2019
07-2019	1/01/2019	31/01/2019	January	Open	☐	☐	☐	☐	☐	07-2019
08-2019	1/02/2019	28/02/2019	February	Open	☐	☐	☐	☐	☐	08-2019
09-2019	1/03/2019	31/03/2019	March	Open	☐	☐	☐	☐	☐	09-2019
10-2019	1/04/2019	30/04/2019	April	Open	☐	☐	☐	☐	☐	10-2019
11-2019	1/05/2019	31/05/2019	May	Open	☐	☐	☐	☐	☐	11-2019
12-2019	1/06/2019	30/06/2019	June	Open	☐	☐	☐	☐	☐	12-2019
13-2019	30/06/2019	30/06/2019	Adjustment Period	Inactive	☐	☐	☐	☐	☐	13-2019

Support of Different Calendars for Fixed Assets

For fixed assets, a user can configure one posting book and multiple non-posting books that are shared across companies. In the posting books, the asset balance and history are stored by periods of the company to which the asset belongs, and in the non-posting books, the asset balance and history are stored by book periods.

If the Multiple Calendar Support feature has been enabled on the Enable/Disable Features screen (CS100000), users who work with fixed assets should note the following:

- To transfer assets between branches of different companies, these assets should be disposed of in one company and acquired in the other company.
- If fixed asset reports are run with empty Company and Branch parameters, the data in the reports will be consolidated by period number.

For details, see “Support of Different Calendars for Fixed Assets” in the User Guide.

Posting Transactions for Companies with Different Calendars

When companies with different calendars are involved in the same transaction, based on the period in the Summary area of the document, the system determines the corresponding master period and uses the periods that match the master period to post entries to the destination branches.

The posting process adds inter-branch balancing entries with the period according to the calendar of the branch associated with the entry. For details, see “Transactions for Companies with Different Calendars” in the User Guide.

Based on these enhancements, for consolidated reports and inquiries that show data posted by more than one company (with the **Company** and **Branch** boxes left blank),

master periods are used in boxes where periods are selected. For details, see "Consolidated Reports for Companies with Different Calendars" in the User Guide.

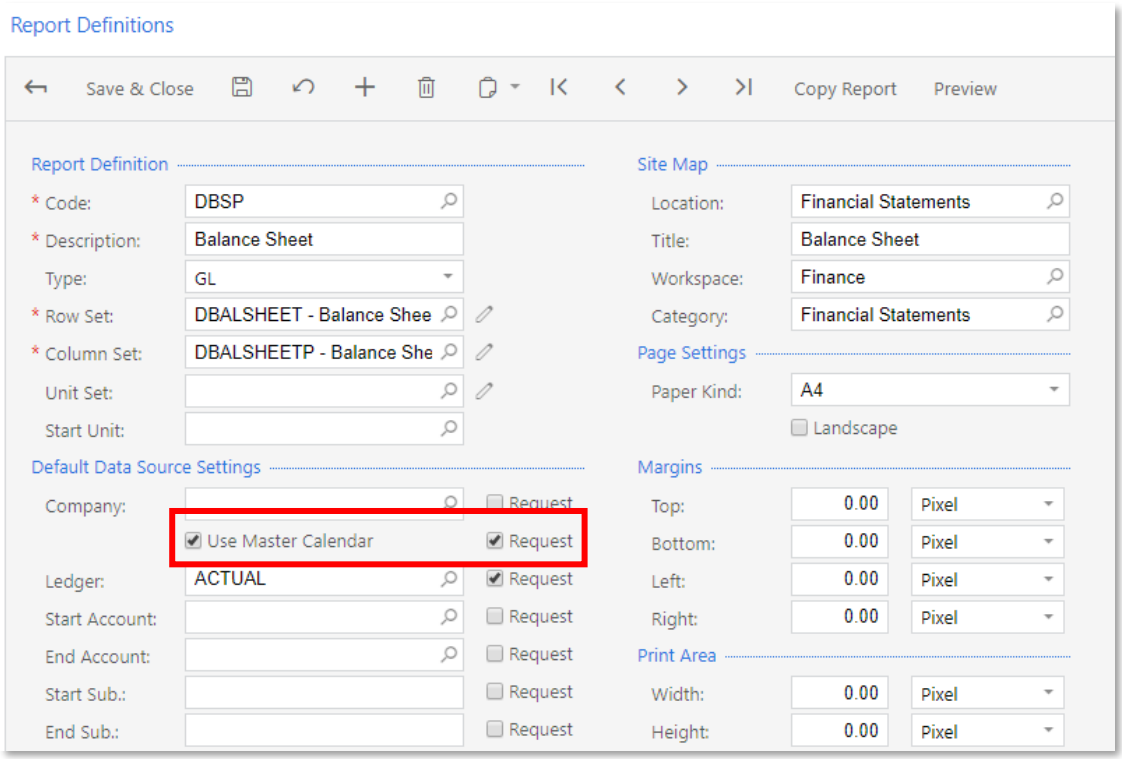
The **Use Master Calendar** check box has been added to reports and inquiries that have the company as an optional parameter and the period as a parameter. The check box determines how data is consolidated as follows:

- Selected: Data is consolidated by the master calendar. That is, consolidated company reports are shown for the same period of time. The reports show account balances (or transactions) posted by the master calendar. In the reports that show the Retained Earnings account, the balances of the Retained Earnings account and the Income and Expense accounts are also calculated by the master calendar.
- Cleared: Data is consolidated by the company calendar. That is, reports are consolidated by the period number. The reports show account balances (or transactions) posted to the company period with the selected number; the balances of the Retained Earnings account and the income and expense accounts are also calculated by the company calendar.

On inquiry screens, if the **Company** and **Branch** boxes are empty, this check box is selected by default. If the **Company** or **Branch** setting is specified, the check box is cleared by default.

Master Period Support in ARM

On the Report Definitions screen (CS206000), the **Use Master Calendar** and **Request** check boxes have been added to the Default Data Source Settings section:



If the **Request** check box is selected, the **Use Master Calendar** check box is available on the ARM report parameter screen, and the default value is the value specified in the report definition. If the Request check box is cleared in the report definition, the Use Master Calendar check box is hidden on the ARM report parameter screen, and this value will always be copied from the report definition.

Changes in Inventory Management

The following changes have been made in the inventory management functionality to reflect changes in calendars:

- On the Inventory Transaction History (IN405000) and Inventory Transactions by Account (IN403000) screens, the system calculates the balances by using master periods.
- On the Inventory Transactions by Account screen, the following UI changes have been made:
    - In the Summary area, the **Start Date** and **End Date** boxes are available only when the By Financial Period check box is cleared. When this check box is selected, the Start Date and End Date boxes are unavailable, and their values are cleared.
    - In the table, the **Beginning Balance** and **Ending Balance** columns are hidden when the By Financial Period check box is cleared.
- The inventory turnover rate for an item for a period is now calculated as the quantity of the item sold during a turnover period divided by the average quantity on hand. The average quantity is calculated as a sum of on-hand quantities at the end of each last 12 periods divided by the number of periods in the last financial year, including the analysed period.

Upgrade Notes

After the system has been upgraded to MYOB Advanced 2019.1, the following changes will take place in the system:

- In the following tables, the upgrade scripts will set the TranPeriodID column to FinPeriodID: GLTran, Batch, APTran, ARTran, ARRegister, APRegister, DRScheduleDetail, DRScheduleTran, APPayment, ARPayment, APAdjust, ARAdjust, SVATConversionHist, POReceipt, PMTran, INRegister, INTran, INTranCost, INPIHeader, and INItemSiteHist.
- In the following tables with historical data, the upgrade scripts will update the amounts accumulated by transaction periods with the amounts accumulated by financial periods: GLHistory, APHistory, ARHistory, CuryAPHistory, CuryARHistory, CuryGLHistory, DRExpenseProjection, DRRevenueProjection, DRExpenseBalance, DRRevenueBalance, INItemSiteHist, INItemCostHist, INItemSalesHist, and INItemCustSalesHist.

UI Changes

The following list summarises all of the UI changes have been made to support different financial calendars:

- On the Enable/Disable Features screen (CS100000), the Multiple Calendar Support feature has been added.
- On the Company Financial Calendar screen (GL201100), the Master Calendar Period ID column has been added.
- On the Journal Transactions screen (GL301000), the Period ID and Master Period ID columns have been added to the table. The columns are hidden by default and can be made visible in the table by using the Column Configuration dialog box.
- On the Report Definitions screen (CS206000), the Use Master Calendar and Request check boxes have been added.
- The Use Master Calendar check box has been added to the following reports:
    - Trial Balance Summary (GL632000)
    - Trial Balance Detailed (GL632500)
    - Transactions for Period (GL633000)
    - Transactions for Account (GL633500)
    - AP Balance by GL Account (AP632000)
    - AP Balance by Supplier (AP632500)
    - AP Aged Period Sensitive (AP630500)
    - Supplier History Summary (AP652100)
    - AR Balance by GL Account (AR632000)
    - AR Balance by Customer (AR632500)
    - AR Aged Period Sensitive (AR630500)
    - Customer History Summary (AR652100)
    - DR Balance by Account (DR630010)
    - DR Recognition by Account (DR630070)
    - DE Balance by Account (DR630015)
    - DE Recognition by Account (DR630075)
- The Use Master Calendar check box has been added to the following inquiry screens:
    - Account Summary (GL401000)
    - Account by Subaccount (GL403000)
    - Account by Period (GL402000)
    - Account Details (GL404000)
    - Supplier Details (AP402000)
    - Supplier Summary (AP401000)
    - Customer Details (AR402000)
    - Customer Summary (AR401000)
    - Deferral Transaction Summary (DR402000)

On the Reconciliation Statement report (CA627000), the **Cash Account** parameter is now required and the **Financial Period** parameter shows the financial periods from the company calendar of the selected cash account.

The **Company** box has been added to the Calculate Depreciation (FA502000), Transfer Assets (FS507000), and Dispose Assets (FA505000) screens.

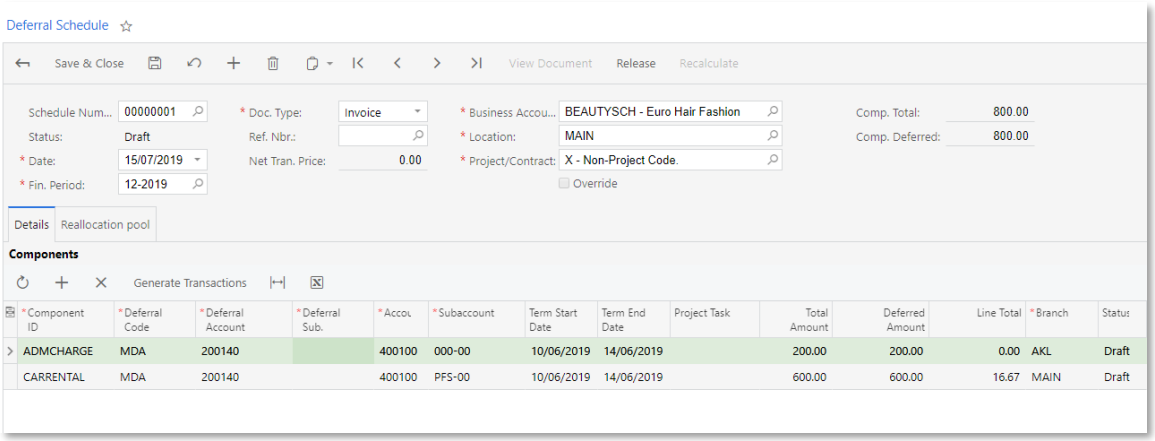
Branch ID on Deferred Revenue Screens and Reports

MYOB Advanced now provides users with the capability to review the branch ID on various Deferred Revenue screens and run various Deferred Revenue reports and inquiries for each branch. If the Multi-Branch Support feature and the Deferred Revenue Management feature are enabled on the Enable/Disable Features screen (CS100000), a user can now separately report and track deferrals for particular branches, and can easily reconcile balance sheet accounts for deferred amounts.

Changes on the Deferral Schedule Screen

A **Branch** column has been added to the Components table of the Deferral Schedule screen (DR201500). This column is required and should always contain the branch ID of the source document line.

For automatically generated deferral schedules, the Branch column is always unavailable, even if the source document has not been released. For manually created deferral schedules, this column is unavailable if a user selects a particular document line in the Summary area (in the **Line Nbr.** field), and is available only if a user creates a schedule for a business account (that is, if the **Ref. Nbr.** and **Line Nbr.** field in the Summary area are empty).



When a user clicks **Generate Transactions** in the table toolbar of the Components table, the system generates transactions for the branch specified in the selected component. The Branch column in the Transactions table is unavailable.

Other Screens That Display the Branch ID

The Branch column has been added to the tables of the following screens:

- Release Schedules (DR503000)
- Run Recognition (DR501000)

Upgrade Notes

During the upgrade to MYOB Advanced 2019.1.0, a branch ID will be inserted into existing deferred revenue schedules according to the following rules:

- If a scheduled component (with any status) has any generated transactions, the branch ID from a transaction (with any status) for the specified component will be inserted.
- If a scheduled component (with any status) has no generated transactions, the branch ID will be empty.

If the Multi-Branch Support feature is enabled on the Enable/Disable Features screen (CS100000), after the upgrade, a user has to run the Validate Deferred Balances process (DR509900) to recalculate deferred revenue balances by branch. When the process has been completed without errors, users can run reports and inquiries.

Affected Reports and Inquiries

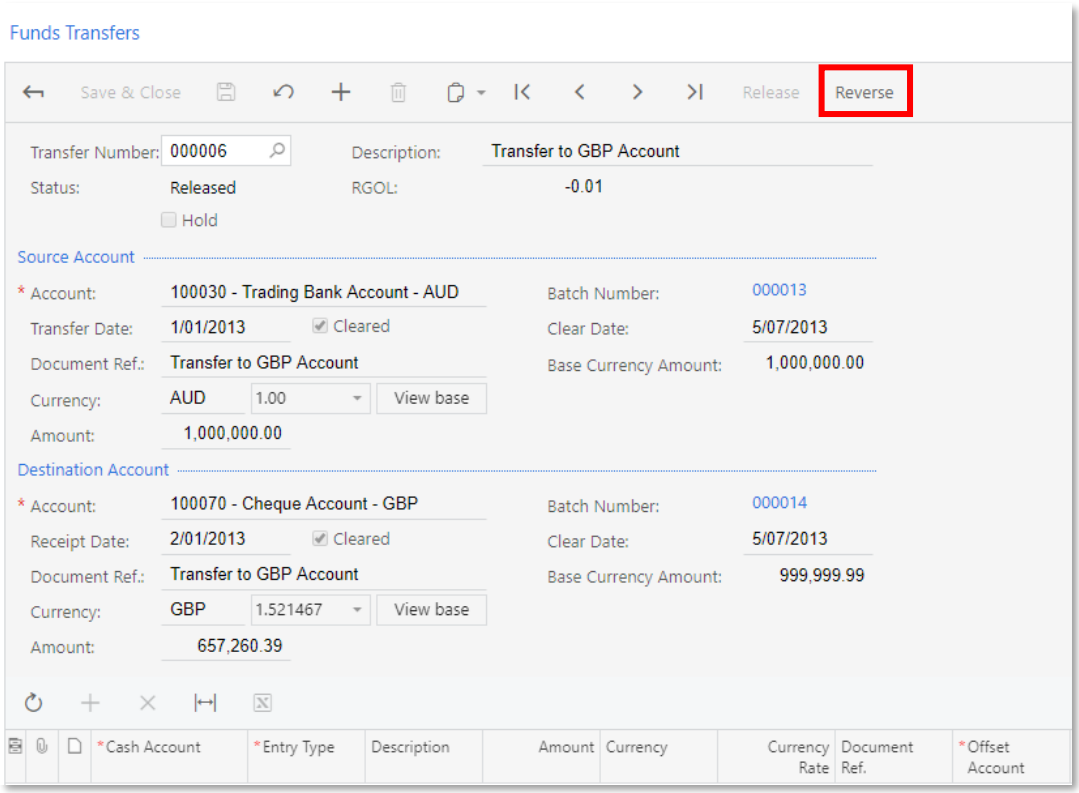
The following reports and inquiries have been modified to display Company and Branch ID:

- Deferral Schedule Summary (DR401000)
- Deferral Transaction Summary (DR402000)
- Draft Schedules (DR630030)
- Deferral Schedule Summary (DR650040)
- DR Balance by Account (DR630010)
- DR Balance by Customer (DR630012)
- DR Balance by Component (DR630014)
- DR Recognition by Account (DR630070)
- DR Recognition by Customer (DR630080)
- DR Recognition by Component (DR630090)
- DE Balance by Account (DR630015)
- DE Balance by Supplier (DR630017)
- DE Balance by Component (DR630019)
- DE Recognition by Account (DR630075)
- DE Recognition by Supplier (DR630085)
- DE Recognition by Component (DR630095)
- DR Projected Balance by Account (DR660070)
- DR Projected Balance by Customer (DR660030)
- DR Projected Balance by Component (DR660040)
- DR Projected Recognition by Account (DR660080)
- DR Projected Recognition by Customer (DR660050)
- DR Projected Recognition by Component (DR660060)
- DE Projected Balance by Account (DR660075)
- DE Projected Balance by Supplier (DR660035)
- DE Projected Balance by Component (DR660045)
- DE Projected Recognition by Account (DR660085)
- DE Projected Recognition by Supplier (DR660055)
- DE Projected Recognition by Component (DR660065)

Reverse of Funds Transfers

Users can now reverse incorrect funds transfers in the system that have been released.

To reverse a funds transfer, a user opens the necessary funds transfer on the Funds Transfers screen (CA301000) and clicks the new **Reverse** button on the main toolbar:



The system creates a funds transfer with the Balanced status if the **Hold Transactions on Entry** check box is cleared on the Cash Management Preferences screen (CA101000), and with the On Hold status if this check box is selected. The details from the Destination Account section of the original transfer are copied to the Source Account section of the created transfer; details from the Source Account section of the original transfer are copied to the Destination Account section of the created transfer.

Now a user can add expenses on a cash transfer directly in the table of the Funds Transfers screen (CA301000) by adding a row and specifying the details of the expense. The **Add Expense** button has been removed from the table toolbar.

If an expense is associated with the original funds transfer, when a user reverses the transfer, in the reversed funds transfer, the system adds a reversed expense with a negative amount.

Ability to Close Financial Periods by Company

In the previous versions, users could not open or close a financial period for a particular company only, the data already verified and disclosed in financial reports could be changed by the posting and data validation processes, it wasn't possible to grant access to closed financial periods to restricted users only, and it wasn't possible to reopen a closed period or close periods in all subledgers at the same time.

The described feature addresses these issues, simplifying the work with financial periods and making it possible for users to manage financial periods separately for each company. Users can activate and deactivate financial periods for posting for a particular company, and can close books separately in each company within the tenant.

To support this feature, the master calendar has been introduced. The master calendar is a set of financial periods that is generated for multiple years based on the financial year template specified for the tenant.

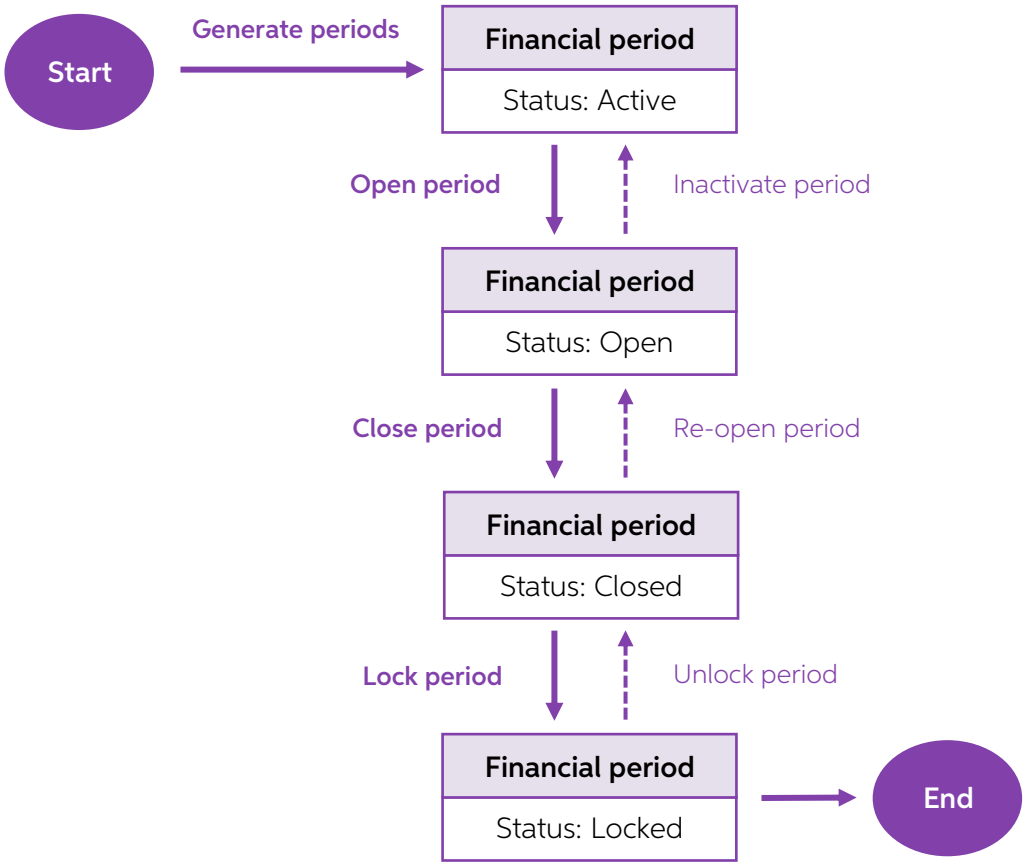
Improved Data Validation and Posting to Closed Periods

The processes of data validation and posting to closed financial periods have been modified. Instead of the combination of check boxes on the Financial Periods screen (GL201000) (Active and Closed), four statuses have been introduced: Inactive, Open, Closed, and Locked. Each status applies to a range of periods; that is, if a user closes a period, all the periods that precede it are assigned the same Closed status. Thus, there may be four period ranges with different statuses: Locked, Closed, Open, and Inactive. The new status Locked has been introduced to prevent changes to the data that has been verified and disclosed in reports. A locked period cannot be used by a validation process, for data entry, or for posting in any subledgers. Before closing or locking periods, the system checks for any unposted transactions in these periods.

The following table illustrates the correspondence between the previous combination of check boxes and the new statuses.

Previous State		Current Status
Active check box	**Closed check box**	**Status**
Cleared	Cleared	Inactive
Selected	Cleared	Open
Selected	Selected	Closed
Cleared	Selected	Locked

The following diagram illustrates the states of financial periods and the actions that can be performed on financial periods:



On the User Roles screen (SM201005), the new predefined Financial Supervisor role has been added so that the users of that role can safely post to closed periods while all other users are not able to work with those periods, i.e. when the **Restrict Access to Closed Periods** check box is selected on the General Ledger Preferences screen (GL102000). Users assigned to this role can reopen closed periods and unlock locked periods if needed.

Changes to the Enable/Disable Features Screen

The Centralised Period Management feature has been added (in the Standard Financials group of features) on the Enable/Disable Features screen (CS100000). If this feature is enabled, users can manage financial periods on the tenant level only; the statuses of the financial periods in all companies are the same.

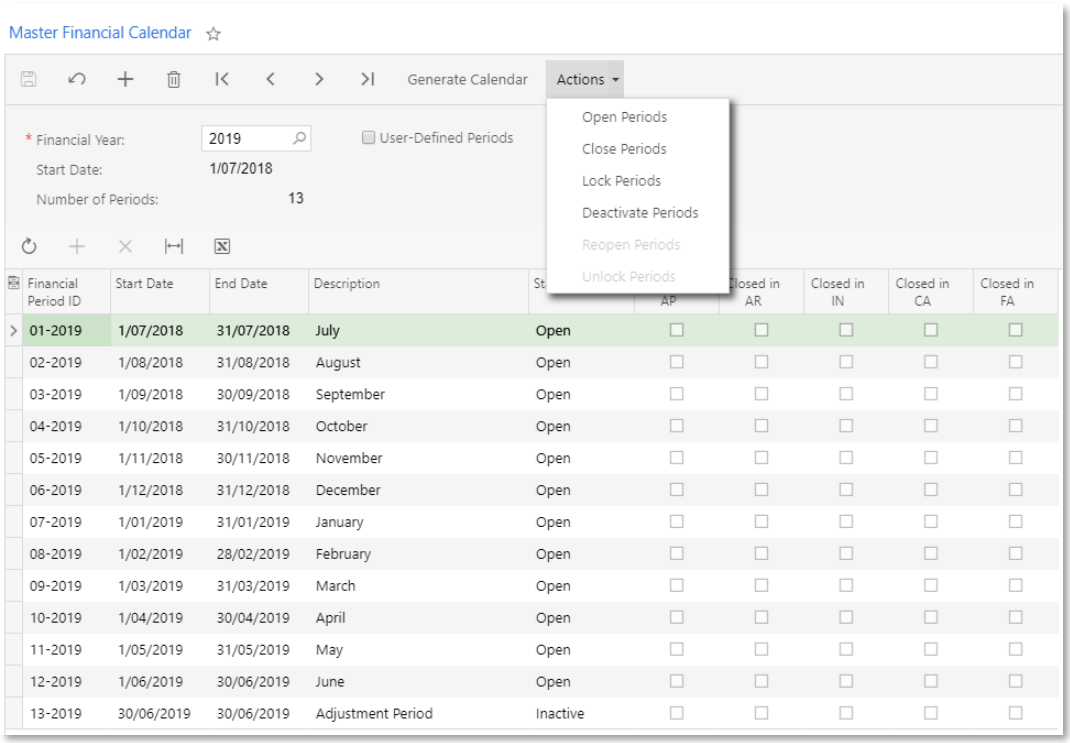
When the upgrade to MYOB Advanced 2019.1 is completed, this feature is enabled to preserve the previous system behaviour. The Centralised Period Management feature can be disabled if the Multi-Branch Support feature is enabled. With the Centralised Period Management feature disabled, for each company within the tenant, the financial periods have to be activated and closed separately.

Master Financial Calendar and Company Financial Calendar Screens

The Financial Periods screen (GL201000) has been modified and renamed to Master Financial Calendar (GL201000) to separate period management of the master calendar and company calendars. (Company-specific operations are performed on the Company Financial Calendar screen (GL201100) if the Centralised Period Management feature is disabled.)

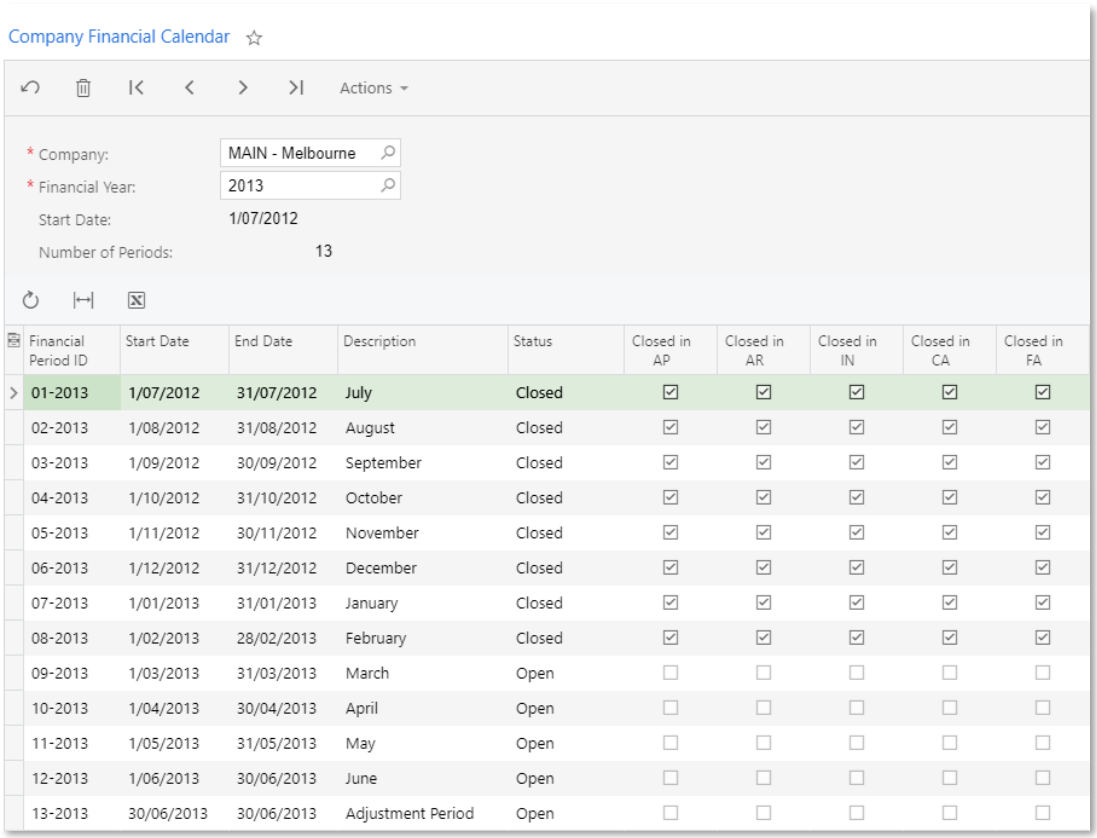
On the Master Financial Calendar screen, users can generate and delete periods in the master calendar; the system modifies all existing company calendars along with the master calendar. The state of the Centralised Period Management feature does not affect this behaviour.

When the Centralised Period Management feature is enabled, users can also review and manage period statuses by selecting the required actions, as shown in the following screenshot.



When the Centralised Period Management feature is disabled, users can only review the periods of the master calendar and generate periods for financial years, as shown in the following screenshot. To manage period statuses for each particular company, the Company Financial Calendar screen (GL201100) is used.

This new screen appears in the system when the “Centralised Period Management” feature is disabled. On this screen, shown in the following screenshot, users can review and manage the statuses of periods in the company calendar.

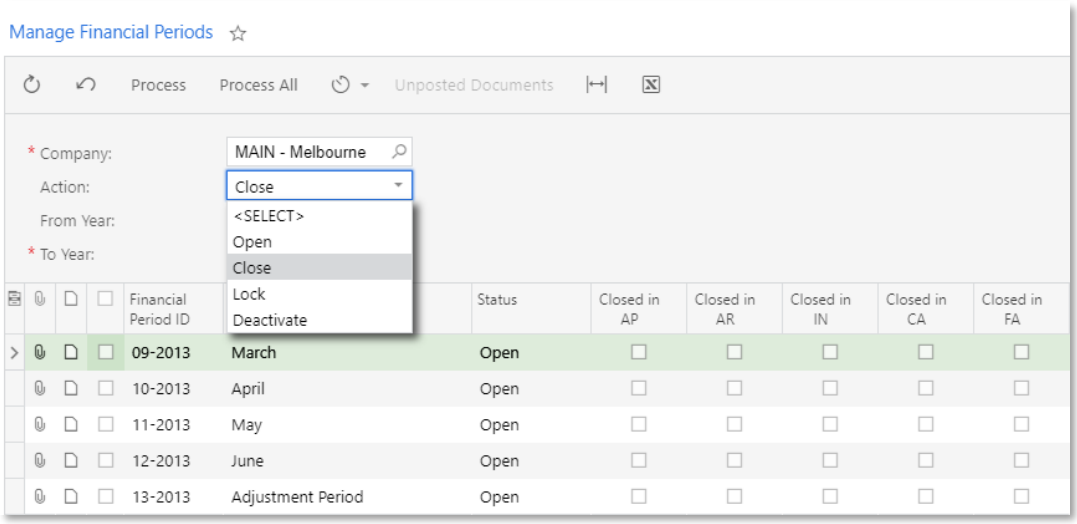


Financial Period ID	Start Date	End Date	Description	Status	Closed in AP	Closed in AR	Closed in IN	Closed in CA	Closed in FA
01-2013	1/07/2012	31/07/2012	July	Closed	☑	☑	☑	☑	☑
02-2013	1/08/2012	31/08/2012	August	Closed	☑	☑	☑	☑	☑
03-2013	1/09/2012	30/09/2012	September	Closed	☑	☑	☑	☑	☑
04-2013	1/10/2012	31/10/2012	October	Closed	☑	☑	☑	☑	☑
05-2013	1/11/2012	30/11/2012	November	Closed	☑	☑	☑	☑	☑
06-2013	1/12/2012	31/12/2012	December	Closed	☑	☑	☑	☑	☑
07-2013	1/01/2013	31/01/2013	January	Closed	☑	☑	☑	☑	☑
08-2013	1/02/2013	28/02/2013	February	Closed	☑	☑	☑	☑	☑
09-2013	1/03/2013	31/03/2013	March	Open	☐	☐	☐	☐	☐
10-2013	1/04/2013	30/04/2013	April	Open	☐	☐	☐	☐	☐
11-2013	1/05/2013	31/05/2013	May	Open	☐	☐	☐	☐	☐
12-2013	1/06/2013	30/06/2013	June	Open	☐	☐	☐	☐	☐
13-2013	30/06/2013	30/06/2013	Adjustment Period	Open	☐	☐	☐	☐	☐

Changes to the Manage Financial Periods Screen

The Close Financial Periods screen (GL503000) has been renamed to Manage Financial Periods and enhanced with an **Action** field, where a user can select the Open, Close, Lock, Deactivate, Reopen, or Unlock action. A user can perform the selected action on periods spanning multiple years. Also, users can close periods in General Ledger and in all subledgers in use.

A **Company** field has been added to the screen, enabling users to select the particular company in which they need to close a financial period or multiple periods. This box appears on the screen if the Centralised Period Management feature is disabled.



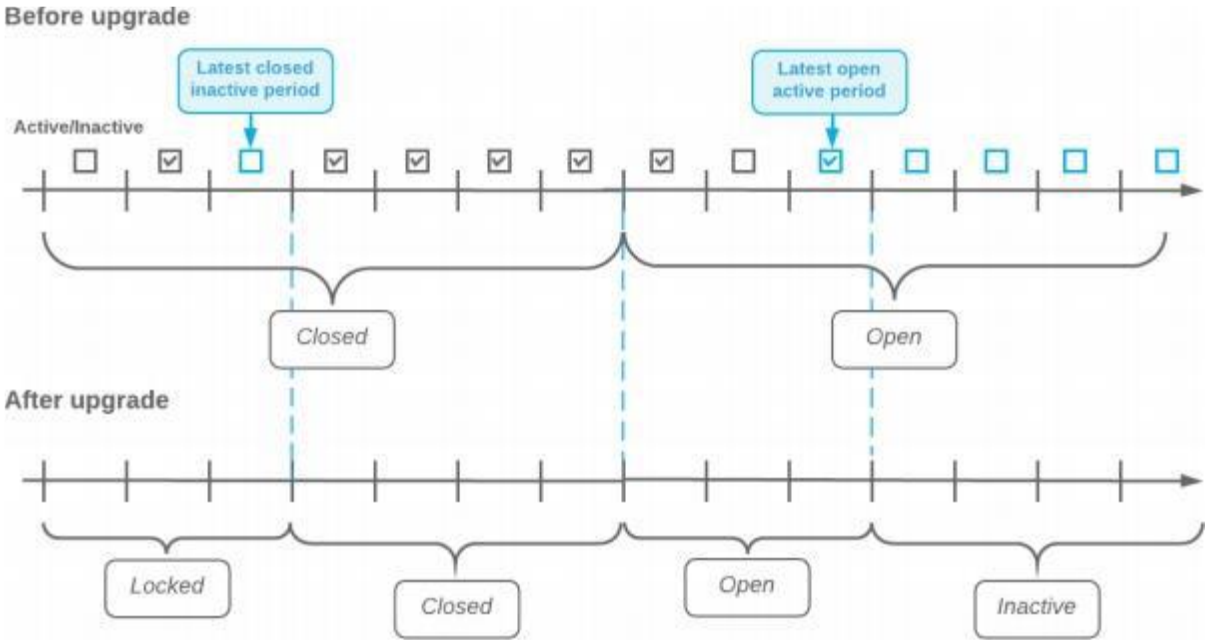
The Unposted Documents report, which opens when you click the Unposted Documents button on the main toolbar, displays unprocessed documents (if any), which prevent period closing for General Ledger and all subledgers. This is a cumulative report that combines the Unreleased AP Documents (AP656100), Unreleased AR Documents (AR656100), Unreleased CA Documents (CA656100), Unreleased FA Documents (FA651100), Non-Depreciated Fixed Assets (FA652100), Unposted GL Documents (GL656100), and Unreleased IN Documents (IN656600) reports, each report opening on a separate page.

Upgrade Notes

During the upgrade to MYOB Advanced 2019.1.0, the statuses of financial periods will be assigned according to the following rules:

- All closed periods up to and including the latest closed inactive period will get the Locked status.
- All closed periods starting from the period following the latest closed inactive period will be converted to Closed periods.
- All open periods up to and including the latest open active period will be converted to Open periods.
- All open periods starting from the period following the latest open active period will be converted to Inactive periods.

The following diagram illustrates the results of the period conversion:



The Restrict Access to Closed Periods check box on the General Ledger Preferences screen (GL102000) will be selected by the upgrade scripts if the **Allow Posting to Closed Periods** check box on this screen was cleared before the upgrade; otherwise, the **Restrict Access to Closed Periods** check box will be cleared.

The following actions must be performed after the upgrade:

- Review the period statuses, and close, unlock, or deactivate any needed periods.
- On the General Ledger Preferences screen (GL102000), review the state of the Restrict Access to Closed Periods check box and consider selecting it to restrict posting to closed periods.
- On the User Roles screen (SM201005), assign the Financial Supervisor role to the appropriate users.

UI Changes

The following list summarises the UI changes that have been introduced to support the capabilities related to period closing by company:

- On the Enable/Disable Features screen (CS100000), the Centralised Period Management feature has been added.
- On the General Ledger Preferences screen (GL102000), the **Restrict Access to Closed Periods** check box (shared by all companies within a tenant) replaces the **Allow Posting to Closed Periods** check box.
- The Manage Financial Periods screen (GL503000) replaces the Close Financial Periods screen.
- The Master Financial Calendar screen (GL201000) replaces the Financial Periods screen.
- The Company Financial Calendar screen (GL201100) has been added.
- On the following screens, a **Company** lookup field has been added, which appears if the Centralised Period Management feature is disabled:
    - Close Financial Periods (CA506000)
    - Close Financial Periods (AP506000)
    - Close Financial Periods (AR509000)
    - Close Financial Periods (FA509000)
    - Close Financial Periods (IN509000)
- The **From Year** and **To Year** fields, and an **Action** dropdown with **Close** and **Reopen** options have been added to the following screens:
    - Manage Financial Periods (GL503000)
    - Close Financial Periods (CA506000)
    - Close Financial Periods (AP506000)
    - Close Financial Periods (AR509000)
    - Close Financial Periods (FA509000)
    - Close Financial Periods (IN509000)
- The Post Period lookup table on data entry screens lists only the periods that are open in the module in the company of the document's originating branch.

Ability to Override Shipping Address in Documents

In previous versions of MYOB Advanced, users could not override the shipping address in AR documents, SO invoices, and pro forma invoices on the Invoices and Memos (AR301000), Invoices (SO303000), and the Pro Forma Invoices (PM307000) screens.

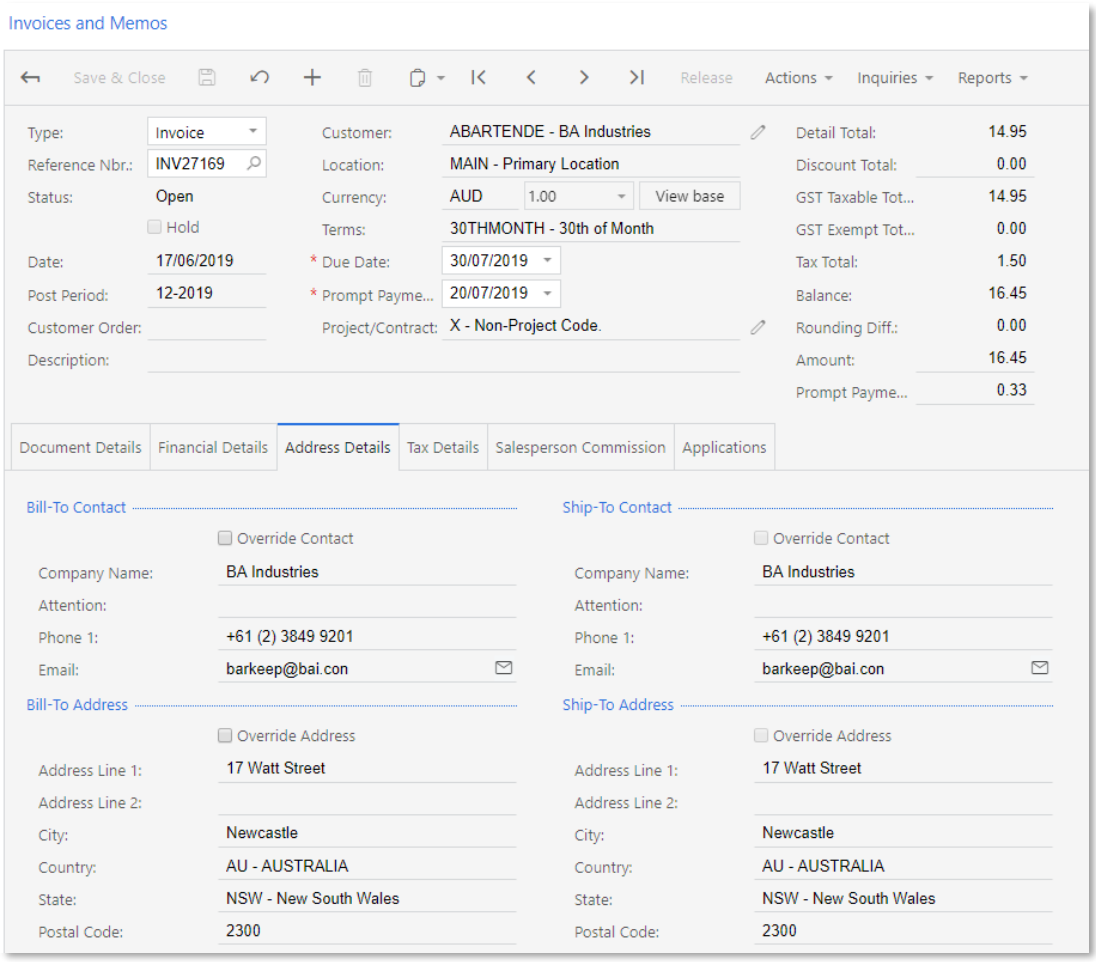
Now the default shipping address in documents (AR invoices, credit memos, debit memos, overdue charges, cash sales, SO invoices, and pro forma invoices) on the Invoices and Memos (AR301000), Invoices (SO303000), and the Pro Forma Invoices (PM307000) screens is copied from the location address specified for the customer

location selected for this document. For reversed AR documents, the shipping address is copied from the original document and can be changed if needed.

When a user is working with one of these documents that has the On Hold, Balanced, Pending Print, or Pending Email status, the user can change values in any of the boxes in the Ship-To Contact and Ship-To Address sections of the Address Details tab of the appropriate screen. To change these values, the user should select the Override Contact or Override Address check box in the respective section.

Changes to the Invoices and Memos Screen

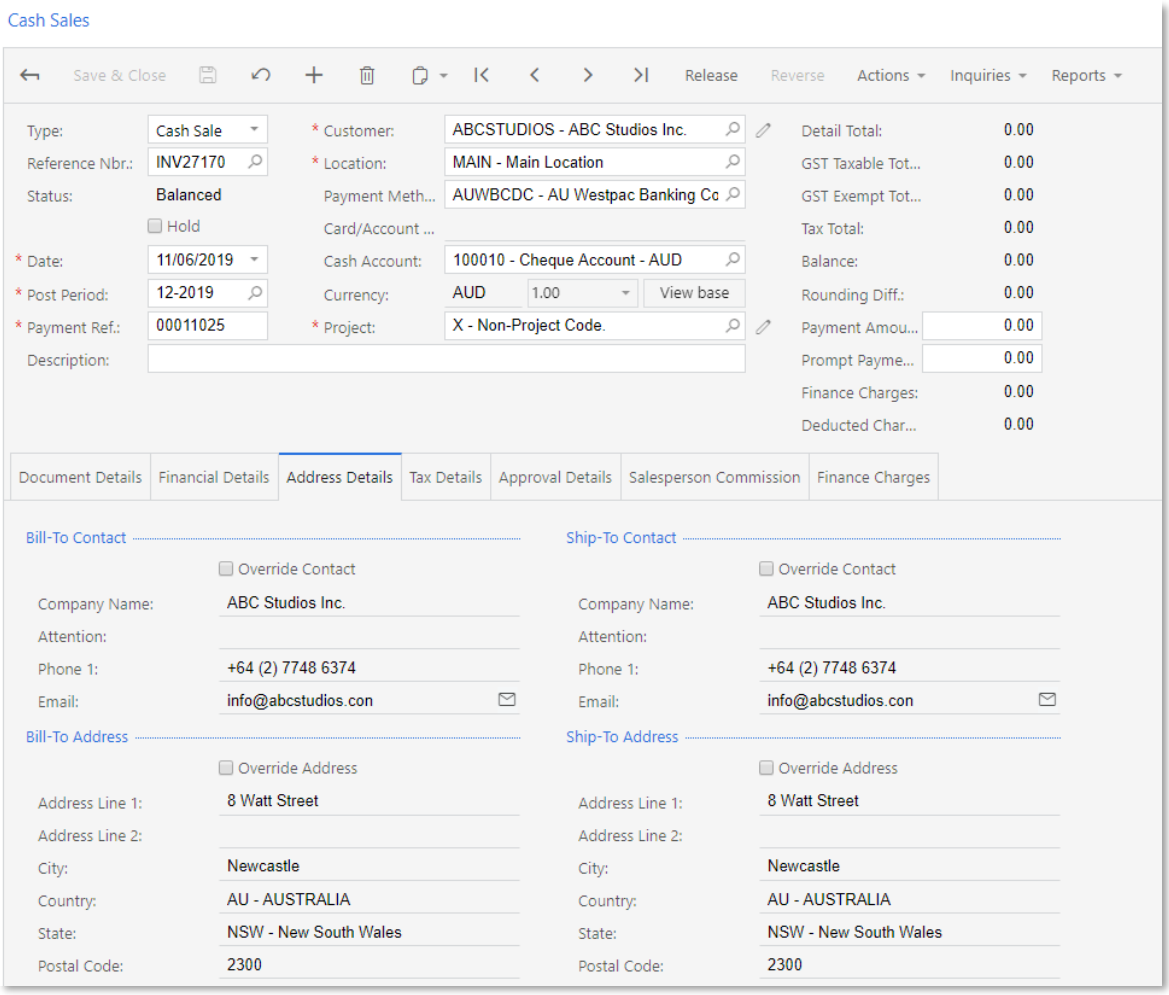
On the Invoices and Memos screen (AR301000), the Billing Address tab has been renamed to Address Details. On the new Address Details tab, section names have been changed from Billing Contact to Bill-To Contact, and from Billing Address to Bill-To Address. Two new sections, Ship-To Contact and Ship-To Address, have been added to the Address Details tab.



The **Print and Email Options** section, which was formerly on the Billing Address tab, has been moved to the Financial Details tab.

Changes to the Cash Sales Screen

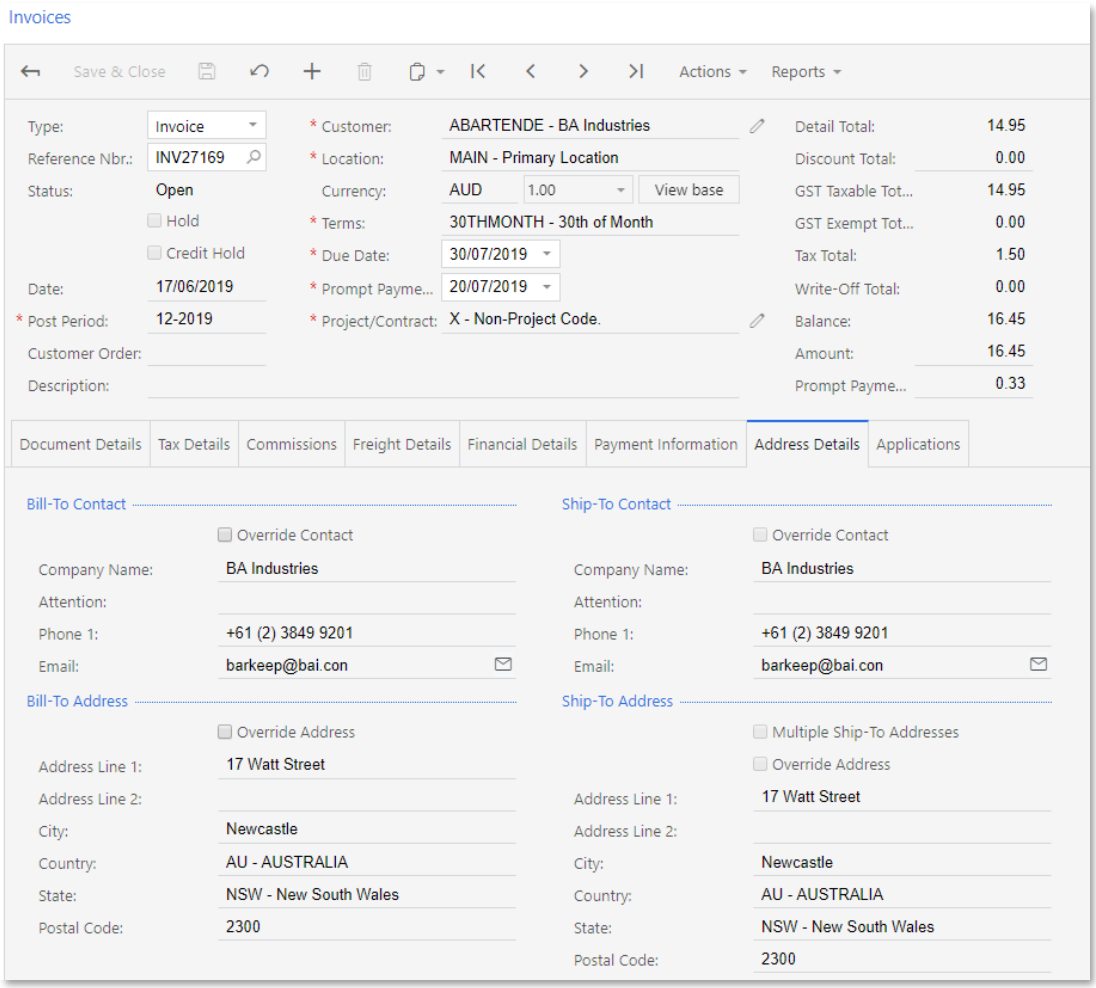
On the Cash Sales screen (AR304000), the Billing Address tab has been renamed to Address Details. On the new Address Details tab, section names have been changed from Billing Contact to Bill-To Contact, and from Billing Address to Bill-To Address. Two new sections, Ship-To Contact and Ship-To Address, have been added to the Address Details tab.



The **Print and Email Options** section, which was formerly on the Billing Address tab, has been moved to the Financial Details tab.

Changes to the Invoices Screen

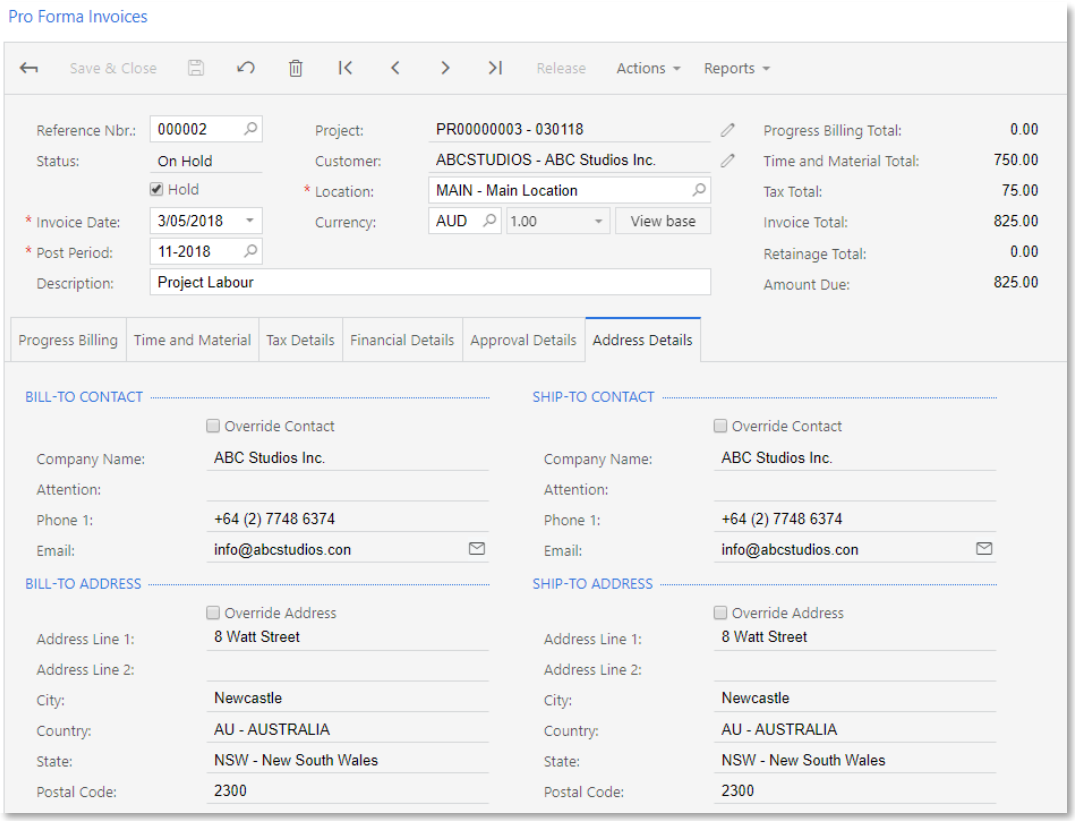
On the Invoices screen (SO303000), the Billing Address tab has been renamed to Address Details. On the new Address Details tab, section names have been changed from Billing Contact to Bill-To Contact, and from Billing Address to Bill-To Address. Two new sections, Ship-To Contact and Ship-To Address, have been added to the Address Details tab.



When an AR invoice is generated for an SO invoice, the ship-to address and ship-to contact settings are copied from the SO invoice on the Invoices screen to the AR invoice on the Invoices and Memos screen (AR301000) if they have been overridden.

Changes to the Pro Forma Invoices Screen

On the Pro Forma Invoices screen (PM307000), the Billing Address tab has been renamed to Address Details. On the new Address Details tab, section names have been changed from Billing Contact to Bill-To Contact, and from Billing Address to Bill-To Address. Two new sections, Ship-To Contact and Ship-To Address, have been added to the Address Details tab.



When the user runs the Process Pro Forma Invoices process (PM506000), the information from the Ship-To Contact and Ship-To Address sections of the Pro Forma Invoices screen (PM307000) for the pro forma invoice is copied to the AR invoice on the Invoices and Memos screen (AR301000).

Upgrade Notes

During the upgrade to MYOB Advanced 2019.1, the shipping contact and address settings of documents on the following screens are updated with settings copied from the location specified in the document:

- Invoices (SO303000)
- Invoices and Memos (AR301000)
- Cash Sales (AR304000)
- Pro Forma Invoices (PM307000)

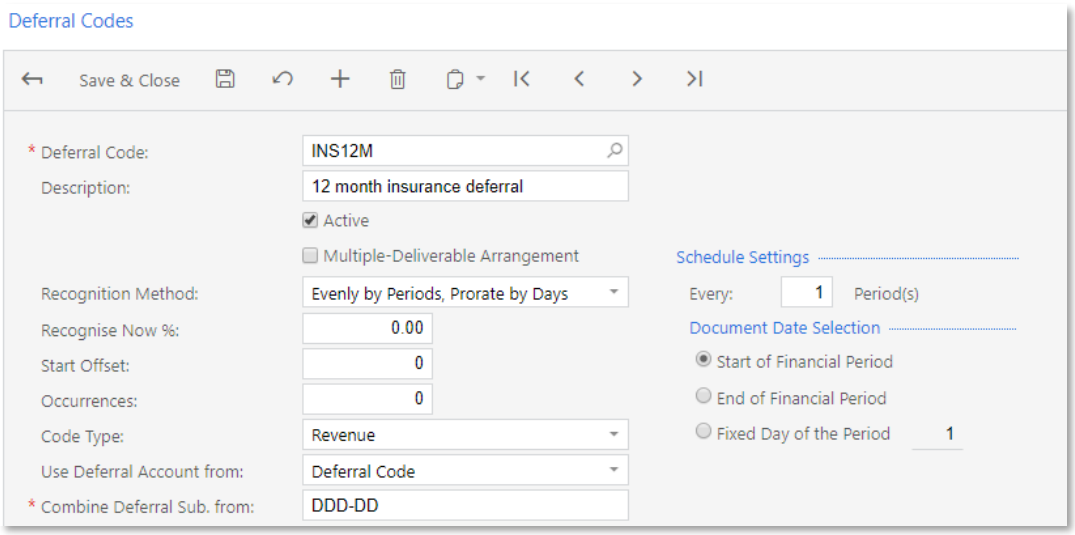
Changes to Reports

In the **Ship-To** section of the following generated reports, the system copies settings from the **Ship-To Address** section of the related screen:

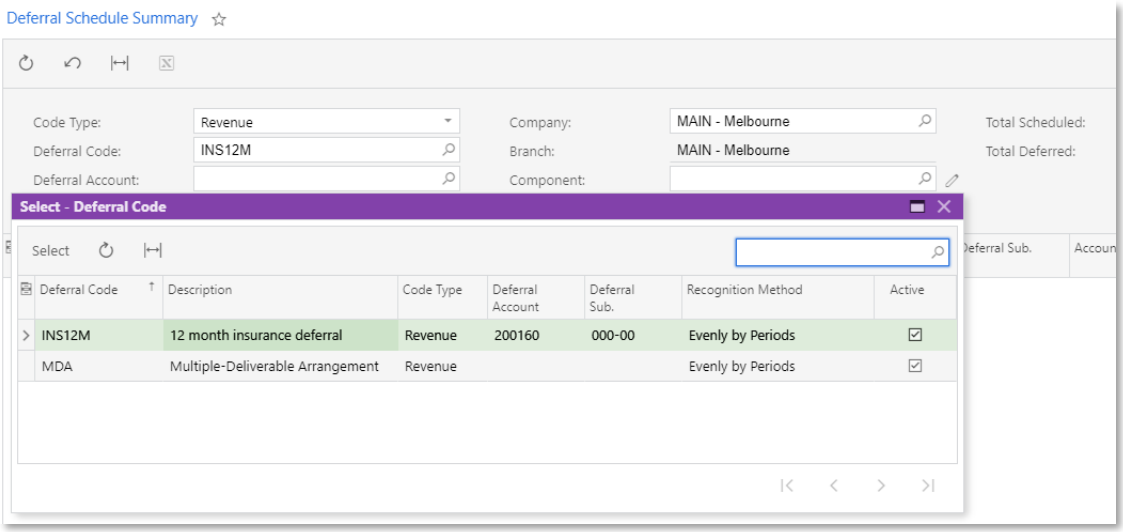
- Pro Forma Invoice (PM642000): Settings from the Pro Forma Invoices screen (PM307000)
- Invoice/Memo (AR641000): Settings from the Invoices and Memos screen (AR301000)
- Invoice / Memo (SO643000): Settings from the Invoices screen (SO303000)

Deferral Code Improvements

The **Active** check box has been added to the Deferral Codes screen (DR202000), which gives users the ability to mark deferral codes as active by selecting this check box or as inactive by clearing it.



The **Active** check box has been also added to the **Deferral Code** lookup table on the Deferral Schedule Summary (DR401000) and the Deferral Transaction Summary (DR402000) screens, as shown in the following screenshot. The lookup tables on these inquiry screens display both active and inactive deferral codes, because users may want to filter the data by an active code or an inactive code.



Also, the system now displays only active deferral codes in the lookup tables on the following screens:

- Deferral Schedules (DR201510)
- Bills and Adjustments (AP301000)
- Quick Checks (AP304000)
- Invoices and Memos (AR301000)
- Cash Sales (AR304000)
- Release Schedules (DR503000)
- Invoices (SO303000)
- Deferral Schedule Summary (DR401000)
- Deferral Transaction Summary (DR402000)

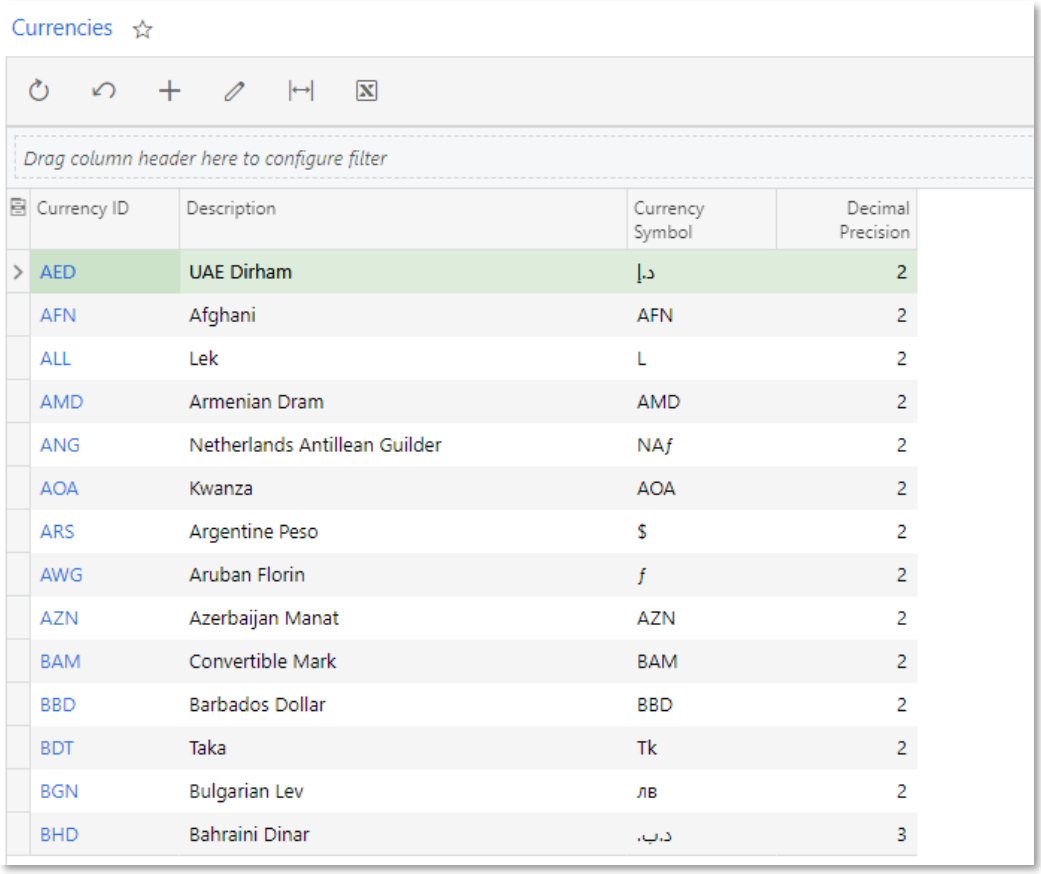
The lookup table for the **Deferral Code** box on the **Deferral Settings** tab of the Stock Items (IN202500) and Non-Stock Items (IN202000) screens also displays only active deferral codes, and only active codes are listed in the table on this tab.

The removal of the inactive codes from these screens makes it impossible to select inactive deferral codes, which speeds up data entry in the system.

Predefined List of Currencies

MYOB Advanced now provides a predefined list of all currencies included in the ISO 4217 standard. Users no longer have to manually enter the world currencies and their basic settings.

The Currencies screen (CM2020PL) displays a list of all currencies except for the base currency, with the **Currency ID**, **Currency Symbol**, and **Decimal Precision** from the ISO 4217 standard for each currency.



Currency ID	Description	Currency Symbol	Decimal Precision
AED	UAE Dirham	د.إ	2
AFN	Afghani	AFN	2
ALL	Lek	L	2
AMD	Armenian Dram	AMD	2
ANG	Netherlands Antillean Guilder	NAƒ	2
AOA	Kwanza	AOA	2
ARS	Argentine Peso	$	2
AWG	Aruban Florin	ƒ	2
AZN	Azerbaijan Manat	AZN	2
BAM	Convertible Mark	BAM	2
BBD	Barbados Dollar	BBD	2
BDT	Taka	Tk	2
BGN	Bulgarian Lev	лв	2
BHD	Bahraini Dinar	.د.ب	3

Note: Although users can change the decimal precision of currencies on the Currencies screen, we do not recommend doing this, because it can make it impossible to process documents in this currency and can affect integration with third-party providers.

Base Currency Configuration

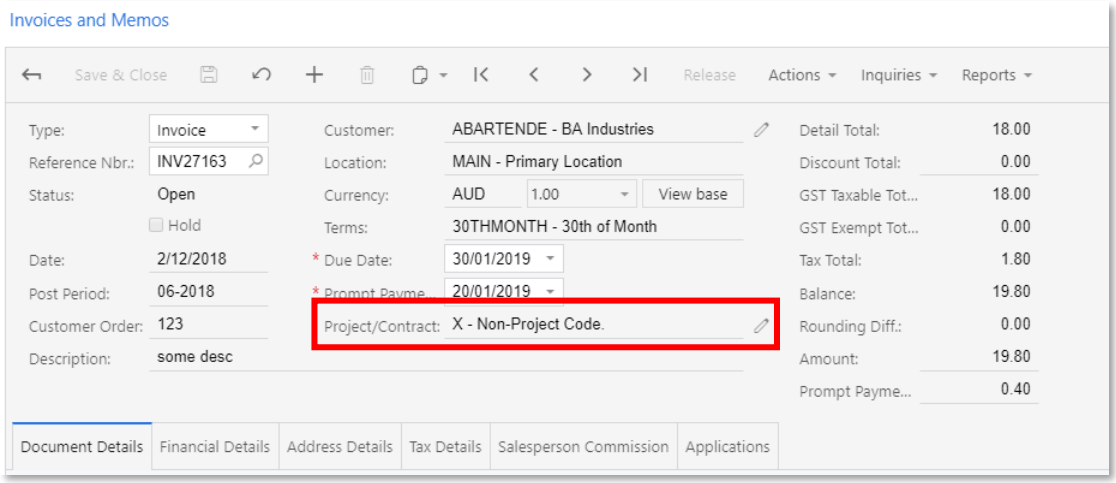
On the Companies screen (CS101500), the **Base Currency ID** box displays all active and non-active currencies. Users no longer have to manually create the base currency on this screen. To assign a currency as the base currency, a user has to select the **Active** and **Use for Accounting** check boxes for this currency on the Currencies screen (CM202000), and then select this currency in the **Base** Currency ID box on the Companies screen. For details on configuring a currency, see "To Configure a Currency" in the MYOB Advanced User Guide.

Upgrade Notes

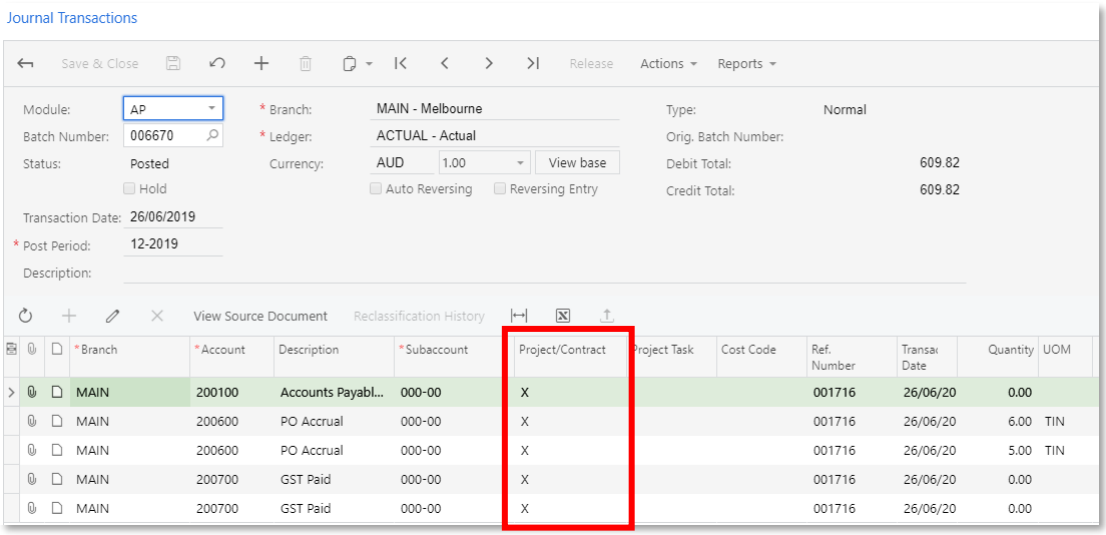
The changes introduced by this feature are applicable to new installations of MYOB Advanced only. If you are upgrading from an older version to 2019.1, the existing currencies with their configurations will be preserved and no new currencies will be added to the system.

Project/Contract Box on Relevant Screens

The **Project** box has been renamed to **Project/Contract** in the Summary area of the Invoices (SO303000), Invoices and Memos (AR301000), and Deferral Schedule (DR201500) screens.



Similarly, the **Project** column has been renamed to **Project/Contract** in the table of the Journal Transactions screen (GL301000):



The **Project/Contract** box appears on these screens if either the *Project Accounting* feature or the *Contract Management* feature is enabled on the Enable/Disable Features screen (CS100000). The box also appears if both of these features are enabled, and both projects and contracts are available for selection in the lookup table for this box.

Note: For project accounting, to make the **Project/Contract** box appear on these screens, in addition to enabling the *Project Accounting* feature, users should select the **AR** check box in the **Visibility Settings** section on the **General Settings** tab of the Projects Preferences screen (PM101000).

Recognition of Revenue from Customer Contracts

MYOB Advanced now supports the requirements of the 606 Revenue from Contracts with Customers GAAP (Generally Accepted Accounting Principles) standard and the IFRS 15 (International Financial Reporting Standard) and these standards' models of recognizing revenue. If a contract exists between a seller and a buyer to transfer a package and the contract consists of multiple distinct performance obligations, the transaction price is allocated to each performance obligation based on the relative standalone selling prices of the goods or services being provided to the customer. Revenue is recognised when the performance obligations are satisfied. If a performance obligation is satisfied over time, the related revenue is also recognised over time. If a customer receives a discount, it can in some cases be allocated to only one performance obligation or to multiple performance obligations (for example, inventory IDs) in the contract.

To illustrate how revenue is recognised, consider the following example:

A company sells a package consisting of three items: a software subscription license, the related support services, and upgrade services. The duration of the contract is two years and the transaction price is $1,000. The standalone selling prices for the license, support, and upgrades are $750, $500, and $250 respectively.

The revenue is calculated as follows:

Item	Calculation	Revenue
License	1,000 * 750 / (750 + 500 + 250)	$500.00
Support	1,000 * 500 / (750 + 500 + 250)	$333.33
Upgrade	1,000 * 250 / (750 + 500 + 250)	$166.67

The revenue of each item will be recognised evenly over two years—one half in the first year and the other half in the second year. For details, see "Recognition of Revenue from Customer Contracts" in the User Guide.

Reallocation Pool

To support this functionality, the *reallocation pool* component of the system has been introduced. The reallocation pool is a table where the inputs and outputs of the reallocation process are stored. The reallocation process collects data about sold packages from invoice lines and splits these packages into separate performance obligations. Then for each sales order, the process collects the fair value (or best estimated) price from the list of sales prices, and allocates the transaction price among the sales orders proportionally to their standalone prices. The resulting sales orders and their amounts are used to create a deferred schedule and its components.

The share of each component in the transaction price depends on the following:

- The estimated standalone (or fair value) price
- The number of components in a package
- The quantity of packages in an invoice line

The system creates the reallocation pool only if the *Revenue Recognition by IFRS 15/ASC 606* feature is enabled on the Enable/Disable Features screen (CS100000).

Algorithm for Selecting the Fair Value Price

The system uses the following input data entered on the Sales Prices screen (AR202000) to select the fair value prices used by the revenue reallocation process:

- The inventory ID (performance obligation) defined by the revenue component (that is, the value in the **Component ID** box on the Deferral Schedule screen (DR201500).
- The unit of measure of the sales order in the pool (that is, the UOM of the revenue component)
- The document currency and the value of the Use Fair Value Prices in Base Currency check box on the Deferred Revenue Preferences screen (DR101000)
- The date on which the price is valid (that is, the document date)
- The customer for which the price is specified
- The customer class to which the customer belongs
- The quantity
- The warehouse (for SO invoices only)

For inventory items, multiple prices with different goals may be available in the system. The system searches for prices according to the price search priority (highest to lowest) and stops the search when an applicable price for an item is found. The system uses the

standard MYOB Advanced price priorities when selecting fair value prices but with the following exceptions:

- Promotional prices are not selected.
- Default prices are not selected.
- All applicable prices must have the Fair Value check box selected on the Sales Prices screen (AR202000).

If no applicable price is found, the system displays a warning message, and a document with a warning message cannot be released. For details on configuring packages with MDA components, see "To Configure a Package for IFRS 15/ASC 606" in the User Guide.

Changes to the Enable/Disable Features Screen

The *Revenue Recognition by IFRS 15/ASC 606* feature has been added (in the *Deferred Revenue Management* group of features) on the Enable/Disable Features screen (CS100000). When this feature is enabled, the revenue of each component of an AR document will be recognised according to the ASC 606 standard.

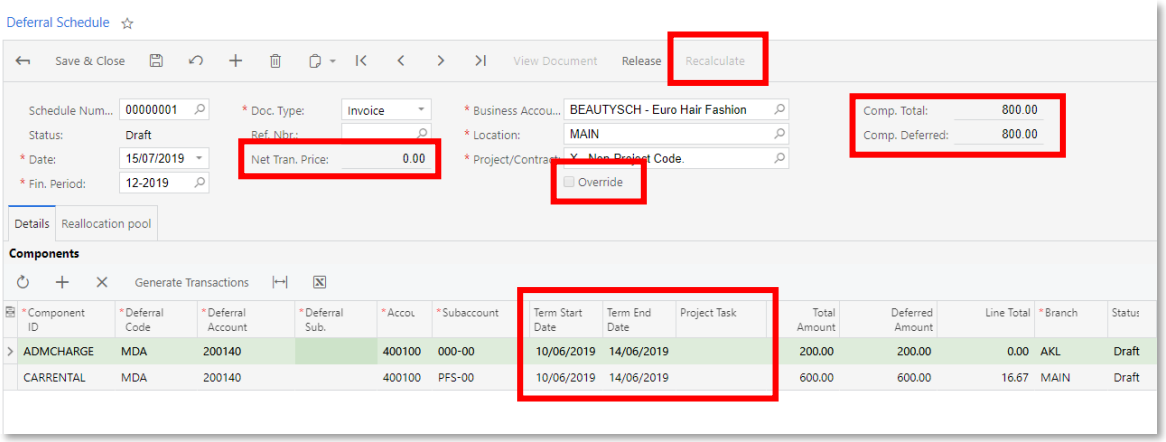
Changes to the Deferred Revenue Preferences Screen

The Use Fair Value Prices in Base Currency check box has been added to the Deferred Revenue Preferences screen (DR101000). This check box appears on the screen if the Multi-Currency Accounting and Revenue Recognition by IFRS 15/ASC 606 features are enabled on the Enable/Disable Features screen (CS100000). When the check box is selected, the system searches for fair value prices to be used in revenue recognition, which are in the base currency only. If there are prices defined in the document currency, these prices are ignored.

Changes to the Deferral Schedule Screen

The screenshot below shows the UI elements that have been added to the Deferral Schedule screen (DR201500). The new UI elements are used as follows:

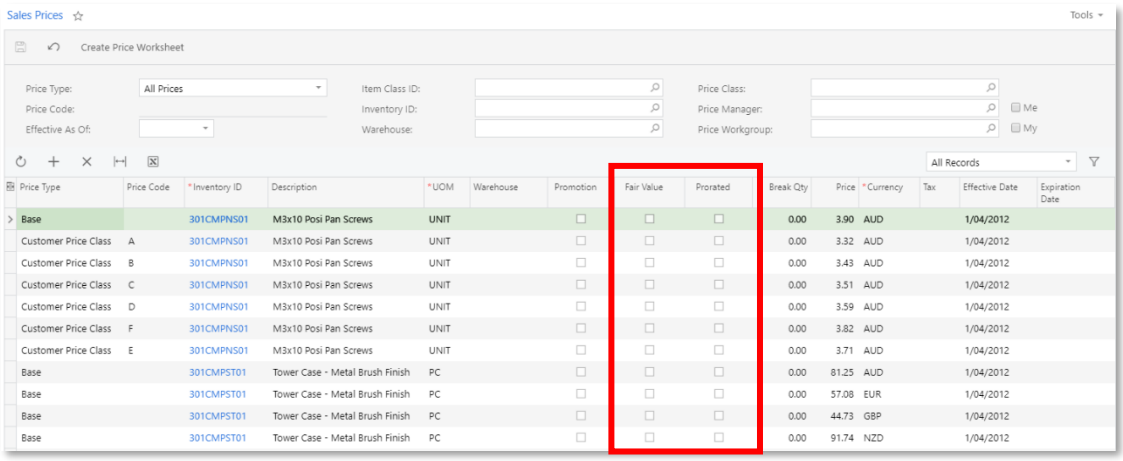
- The new **Override** check box is available when the "Revenue Recognition by IFRS 15/ASC 606" feature is enabled on the Enable/Disable Features screen (CS100000). When a user selects the check box, the data on the Reallocation Pool tab is cleared and the data in the Components table on the Details tab becomes available for editing. When the check box is cleared, the data on the Reallocation Pool tab is recalculated according to the fair value prices, and the data in the Components table of the Details tab becomes unavailable.
- The new **Recalculate** button on the screen toolbar is used to update the reallocation pool and component data by using the recent sales prices and the data from invoice lines. If the deferral schedule was overridden, the system displays a confirmation message before recalculation.
- New **Net Tran. Price**, **Comp. Total**, and **Comp. Deferred** boxes have been added to the Summary area of the screen.
- The system uses invoice lines to populate the values of the Project Task, Term Start Date, and Term End Date columns (all of which are new) in the Components table on the Details tab when the Revenue Recognition by IFRS 15/ASC 606 feature is enabled on the Enable/Disable Features screen. In this case, the Line Number, Line Amount, Project Task, Term Start Date, and Term End Date boxes in the Summary area do not appear on the screen.



A Reallocation Pool tab has also been added to the screen. This tab contains a table with columns that represent the data model of the reallocation pool. The table rows correspond to the document in the Summary section. Users cannot delete or modify the data in the table. For manual schedules and for manually edited schedules, the table is empty.

Changes to the Sales Prices Screen

Fair Value and **Prorated** columns have been added to the table on the Sales Prices screen (AR202000):



When the **Fair Value** check box is selected for a price, the system will use the fair value price selection algorithm to determine the best available price to use as the fair value price in the revenue reallocation process. When a user clicks the **Create Price Worksheet** button on the screen toolbar to create a new sales price worksheet, the price with the **Fair Value** check box selected is ignored.

The **Prorated** column appears on the screen when the *Revenue Recognition by IFRS 15/ASC 606* feature has been enabled on the Enable/Disable Features screen (CS100000); the column becomes available when the **Fair Value** check box for a price is selected. The value in this column is used when the system calculates the fair value price for inventory items with the deferral code of a flexible type (Flexible by Period, Prorate by Days, or Flexible by Days in Period).

Changes to the Sales Price Worksheets Screen

The **Fair Value** and **Prorated** check boxes have been added to the Summary area of the Sales Price Worksheets screen (AR202010).

When the **Fair Value** check box is selected, the sales prices created on release of the sales price worksheet are marked as fair value prices and will be used by the revenue reallocation process.

When the **Prorated** check box is selected, the price will be prorated when the system calculates the fair value price for inventory items with the deferral code of a flexible type (Flexible by Period, Prorate by Days, or Flexible by Days in Period).

On release of a sales price worksheet, the values of these check boxes are copied to the Sales Prices screen (AR202000).

Upgrade Notes

After the upgrade to MYOB Advanced, when a user enables the Revenue Recognition by IFRS 15/ASC 606 feature on the Enable/Disable Features screen (CS100000), the system treats the deferral schedules and documents in the following way:

- The deferral schedules and their components previously created on the Deferral Schedule screen (DR201500) are not modified.
- The **Use Fair Value Prices in Base Currency** check box on the Deferred Revenue Preferences screen (DR101000) is cleared by default.
- Neither existing documents nor deferral schedules are updated.

UI Changes

The following UI list describes other UI changes that have been introduced to support the capabilities of revenue recognition from customer contracts:

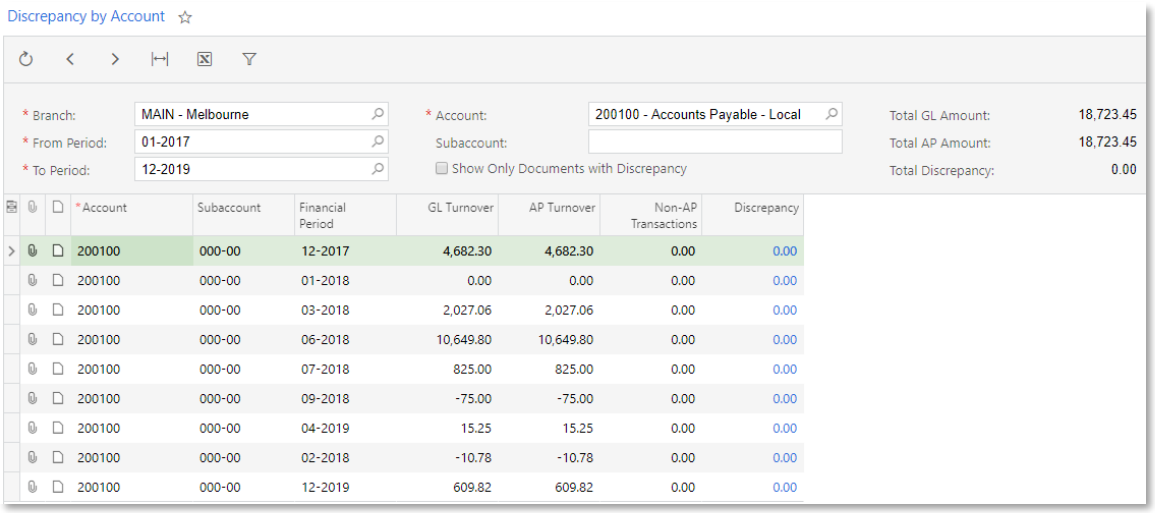
- On the Copy Prices dialog box of the Sales Price Worksheets screen (AR202010), the **Fair Value** and **Prorated** check boxes have been added.
- On the Deferral Settings tab of the Stock Items (IN202500) and Non-Stock Items (IN202000) screens, the Allocation Method, Fixed Amount, and Percentage columns in the Revenue Components table become unavailable when the Revenue Recognition by IFRS 15/ASC 606 feature is enabled on the Enable/Disable Features screen, and the system allows users to enter revenue components with empty values in these columns.

Reconciliation Inquiries

The users of MYOB Advanced can occasionally come across inconsistencies in transactions, such as when a user has posted a GL entry directly to an AR account or used an AR account in the details of an AR invoice. These inconsistencies can result in different balances in AR, AP, and GL reports. To address this issue and make it easier to find documents that produce discrepancies in balances, a set of inquiries has been developed in this release. For details, see “Troubleshooting Balance Discrepancies”.

Discrepancy by Account

The Discrepancy by Account (AP409010) and Discrepancy by Account (AR409010) screens define discrepancies in AP and AR accounts, respectively, grouped by financial periods.

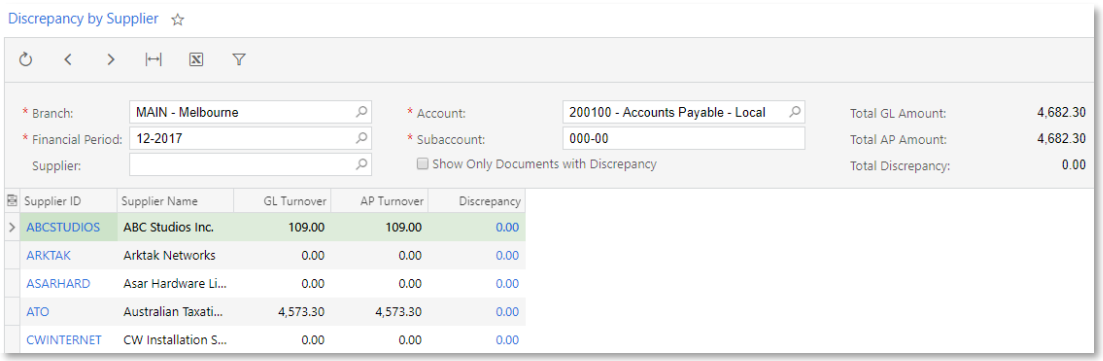


* Account	Subaccount	Financial Period	GL Turnover	AP Turnover	Non-AP Transactions	Discrepancy
200100	000-00	12-2017	4,682.30	4,682.30	0.00	0.00
200100	000-00	01-2018	0.00	0.00	0.00	0.00
200100	000-00	03-2018	2,027.06	2,027.06	0.00	0.00
200100	000-00	06-2018	10,649.80	10,649.80	0.00	0.00
200100	000-00	07-2018	825.00	825.00	0.00	0.00
200100	000-00	09-2018	-75.00	-75.00	0.00	0.00
200100	000-00	04-2019	15.25	15.25	0.00	0.00
200100	000-00	02-2018	-10.78	-10.78	0.00	0.00
200100	000-00	12-2019	609.82	609.82	0.00	0.00

If a user clicks the link in the **Discrepancy** column, the system opens the Discrepancy by Customer (AR409020) or Discrepancy by Supplier (AP409020) screen.

Discrepancy by Customer and Supplier

The Discrepancy by Customer (AR409020) and Discrepancy by Supplier screen (AP409020) show accounts that have balances in the selected period. When the **Show Only Documents with Discrepancy** check box is selected, the inquiries display accounts with balance differences.



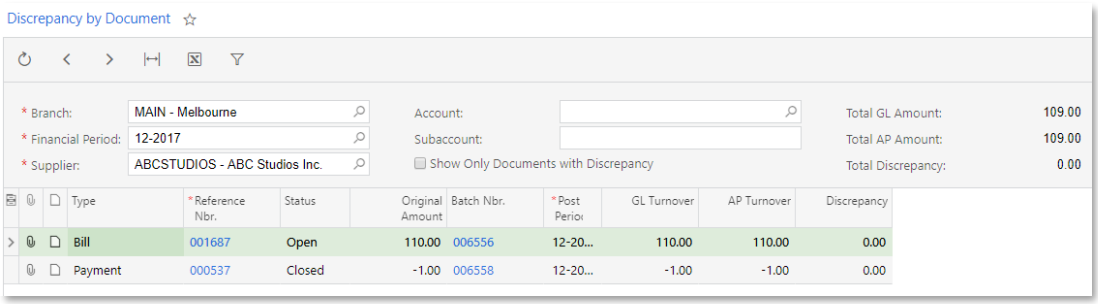
Supplier ID	Supplier Name	GL Turnover	AP Turnover	Discrepancy
ABCSTUDIOS	ABC Studios Inc.	109.00	109.00	0.00
ARKTAK	Arktak Networks	0.00	0.00	0.00
ASARHARD	Asar Hardware Li...	0.00	0.00	0.00
ATO	Australian Taxati...	4,573.30	4,573.30	0.00
CWINTERNET	CW Installation S...	0.00	0.00	0.00

When the user clicks the link in the **Discrepancy** column, the system opens the Discrepancy by Document (AR409030) or Discrepancy by Document (AP409030) screen.

Discrepancy by Document

The Discrepancy by Document (AR409030) payables and receivables screens show the documents that were posted in the selected periods for the selected customer or supplier, respectively.

The screenshot below illustrates the Discrepancy by Document screen with a row showing the document that caused the discrepancy. The user can click the link in the Reference Nbr. column to review the document on a separate tab; the user can also click the link in the Batch Nbr. column to review the corresponding GL batch and correct it. For example, the user might want to reverse the original document.



For details, see “To Find a Discrepancy for a Particular Document” in the User Guide.

Inventory and Distribution

Automated Warehouse Operations

Clients with medium or large warehouses typically use external WMS (warehouse management system) solutions for supporting standard warehouse operations with inventory items by using barcode scanners (or mobile devices with a scanning option). These warehouse operations include picking, packaging, receiving, putting away, transferring, and counting items. In this release, a completely new functionality for supporting automated warehouse operations has been added to the web and mobile versions of MYOB Advanced.

Changes to the Enable/Disable Features Screen

Under Advanced Inventory on the Enable/Disable Features screen (CS100000), the Automated Warehouse Operations check box has been added. If this check box is selected, the administrative user setting up automated warehouse operations can select any of the following check boxes, thus enabling the corresponding feature and its associated functionality:

- **Fulfillment**: With this check box selected, users can perform the picking, packing, and shipping operations on the Pick, Pack, and Ship screen (SO302020).
- **Receiving**: With this check box selected, users can perform the receiving and putting away operations on the Receive and Put Away screen (PO302020).
- **Inventory**: With this check box selected, users can perform inventory operations (transferring, issuing, receiving, and counting items) on the Item Lookup (IN202520), Storage Lookup (IN409020), Scan and Issue (IN302020), Scan and

Receive (IN301020), Scan and Transfer (IN304020), and Scan and Count (IN305020) screens.
- **Cart Tracking**: With this check box selected, users can configure carts and use them in automated warehouse operations.

Working Modes on Automated Warehouse Operations Screens

This release introduces screens that have different working modes. With these modes, for the operation that the user is currently performing, the screen is in the corresponding mode. Each mode of a screen shows different content and supports a different set of operations. This functionality automates and simplifies warehouse operations.

While a user is performing warehouse operations, the user can change the working mode on the current screen or navigate from the current screen to another screen by using special commands (or by scanning special barcodes) starting with @. For example, if the user scans or enters "@pack" in the **Scan** box (which is on all of the screens associated with the new features and listed in the previous section), the system navigates to the Pick, Pack, and Ship (SO302020) screen in Pack mode. When the user changes the mode of a screen, the system keeps the current document selected. For example, if the user has entered the shipment number in Pick mode and has entered the command (or scans the barcode) to switch to Pack mode, the system will automatically select the current shipment.

In addition to having multiple working modes, each of the screens provided by the Automated Warehouse Operations feature has the Scan Log tab, which shows a log of the data scanned or entered in the **Scan** box.

Workflow Configuration

Administrators can configure the workflow of automated operations by using the settings in the following locations:

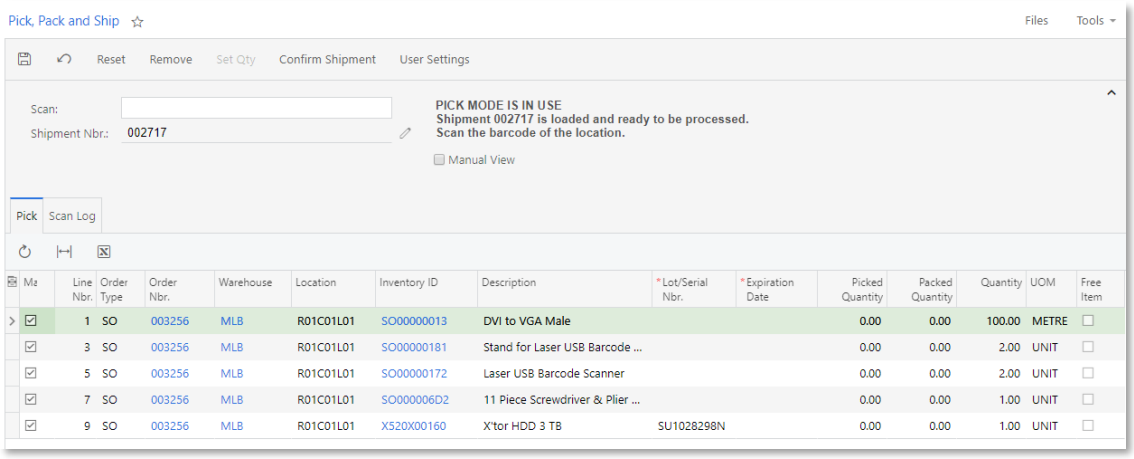
- The Receiving Workflow and Receiving Settings sections on the Purchase Orders Preferences screen (PO101000)
- The Fulfilment Workflow and Fulfilment Settings sections on the Sales Orders Preferences screen (SO101000)
- The Inventory Operations Settings section on the Inventory Preferences screen (IN101000)

For more information on which settings are available and how they affect the automated operation workflow, see "Configuration of Warehouse Operation Workflows" in the User Guide.

Pick, Pack, and Ship Operations

By using the new Pick, Pack, and Ship screen (SO302020), users can efficiently process shipments of the Shipment and Receipt types. On this screen, a user can work in any of the following working modes:

- **Pick**: In this mode, the user processes the picking of the items for the shipment in the warehouse. The user switches to this mode by scanning the special barcode @pick. The Pick, Pack, and Ship screen in Pick mode is shown in the following screenshot.

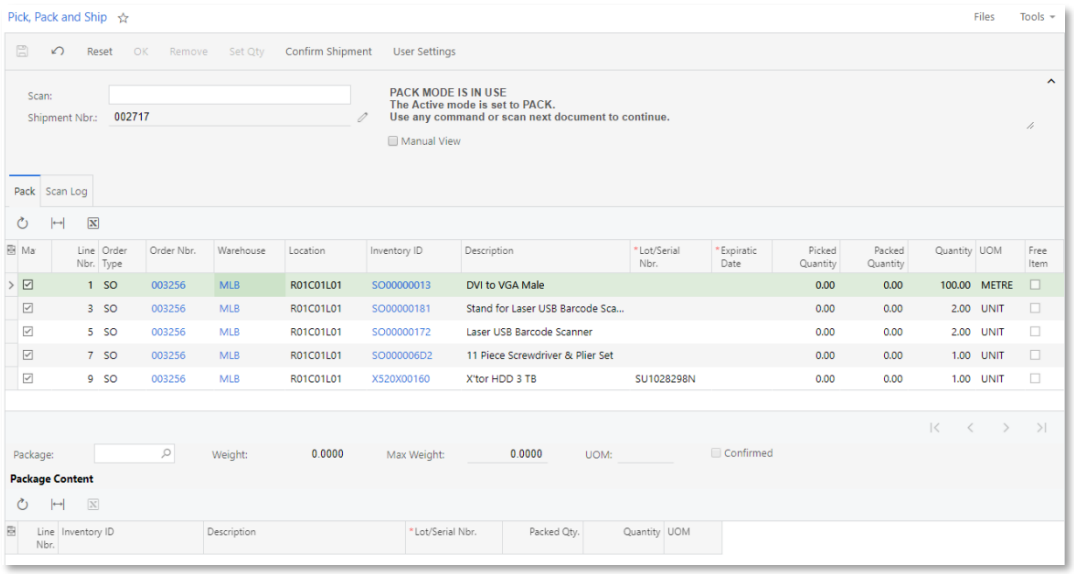


Ma	Line Nbr.	Order Type	Order Nbr.	Warehouse	Location	Inventory ID	Description	*Lot/Serial Nbr.	*Expiration Date	Picked Quantity	Packed Quantity	Quantity	UOM	Free Item
☑	1	SO	003256	MLB	R01C01L01	SO00000013	DVI to VGA Male			0.00	0.00	100.00	METRE	☐
☑	3	SO	003256	MLB	R01C01L01	SO00000181	Stand for Laser USB Barcode ...			0.00	0.00	2.00	UNIT	☐
☑	5	SO	003256	MLB	R01C01L01	SO00000172	Laser USB Barcode Scanner			0.00	0.00	2.00	UNIT	☐
☑	7	SO	003256	MLB	R01C01L01	SO000006D2	11 Piece Screwdriver & Plier ...			0.00	0.00	1.00	UNIT	☐
☑	9	SO	003256	MLB	R01C01L01	X520X00160	X'tor HDD 3 TB	SU1028298N		0.00	0.00	1.00	UNIT	☐

To start picking items, the user scans the shipment reference number from the pick list the system downloads all line splits from the shipment) and starts to pick items. The process of picking an item includes scanning the location from which the item is taken, the inventory item barcode, and the lot or serial number barcode (if needed for the particular item). After that, the user confirms the picked line, if needed. The user can modify the quantity of the line currently being processed by using the barcode * qty. When all shipment lines have been picked, the user confirms the shipment (if packaging is not needed), or proceeds to Pack mode.

The user can remove a picked item by using the **Remove** button on the screen toolbar or by entering the "* remove" command in the **Scan** box. Also, the user can use the "* clear" command or the **Reset** button on the screen toolbar to clear the operation state and return to the first operation step of picking the items for the current shipment.

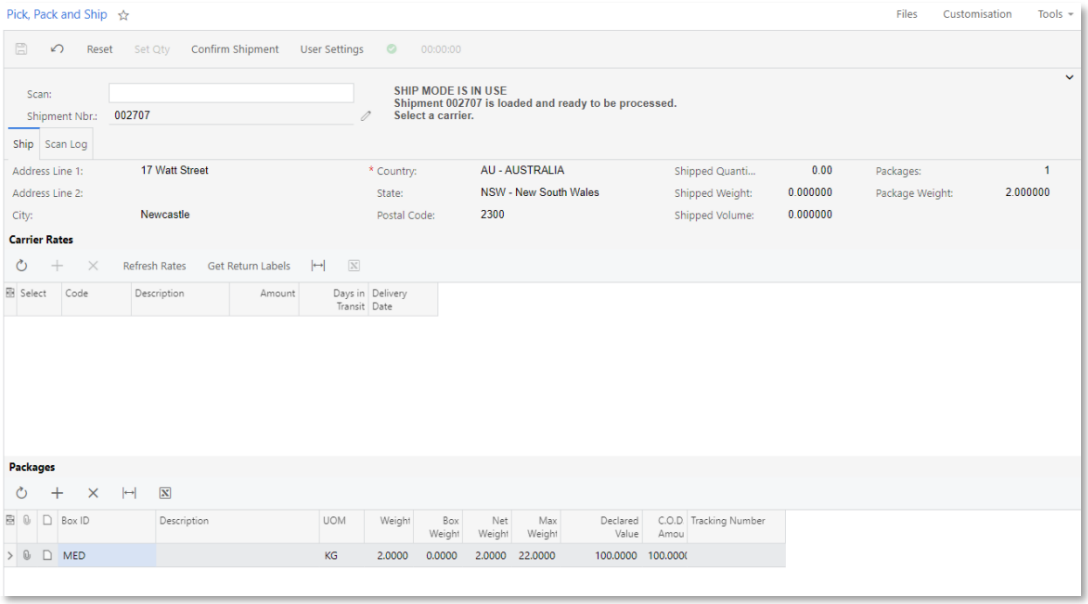
- **Pack**: In this mode, a user processes the packaging of the items that were picked for the shipment. A user switches to this mode on the same screen by scanning the special barcode @pack. The Pick, Pack, and Ship screen in Pack mode is shown in the following screenshot.



To start packing items, a user scans the shipment reference number from the pick list (or just switches to Pack mode if the user was previously picking the items for this shipment), scans the barcode of the box (into which the items will be packed) and starts to package the items. The process of packaging each item includes scanning the inventory item barcode and the lot or serial number barcode (if needed for the particular item). The user performs the packaging of items until the box is completed. After that, the user confirms the box and enters the total weight of the packed box. Then the user continues with another box or multiple boxes until the complete shipment is packed. When all needed shipment lines are packed, the user confirms the shipment (if no specific shipping options have to be specified for this shipment), or proceeds to Ship mode to select the carrier and rate.

The user can remove a picked item by using the **Remove** button on the screen toolbar or by entering the "* remove" command in the **Scan** box. Also, the user can use the "* reset" command or the **Reset** button on the screen toolbar to clear the operation state and return to the first operation step of packing the items for the current shipment.

- **Ship**: In this mode, a user can manually select shipping options. The user switches to this mode by scanning the special barcode @ship. The Pick, Pack, and Ship screen in Ship mode is shown in the following screenshot.

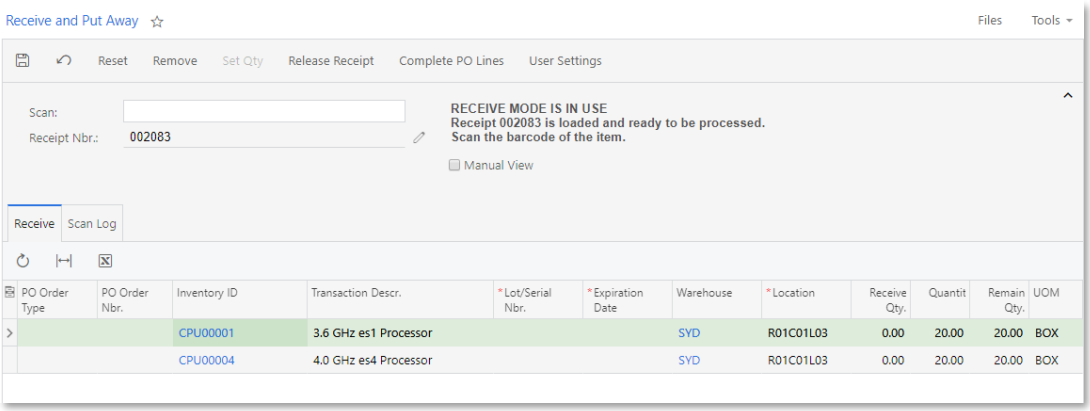


When the user switches to this mode, the system automatically sends requests for shipping rates to all integrated carriers that are configured in the system; these requests include the actual packages and weights of the items that are specified in the shipment. A user can review the rates proposed by carriers, select a rate from the list, receive the carrier's labels, and then confirm the shipment.

Receive and Put Away Operations

By using the new Receive and Put Away screen (PO302020), a user can automate the receipt of items ordered through purchase orders. On this screen, the user can work in any of the following modes:

- **Receive**: In this mode, the user processes purchase receipts and purchase returns in the warehouse. The user switches to this mode by scanning the special barcode @receive. The Receive and Put Away screen in Receive mode is shown in the following screenshot.



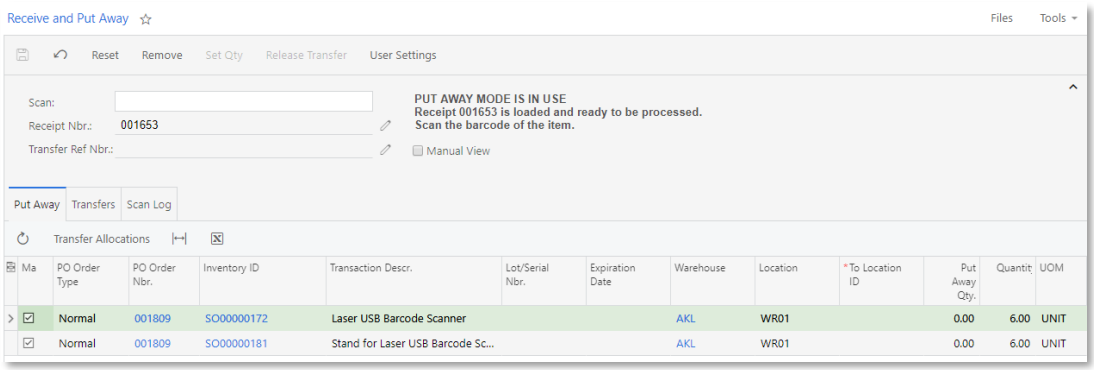
In the Settings dialog box, which is brought up when a user clicks **User Settings** on the screen toolbar, the user can select the **Use Single Receiving Location** check

box to specify that all the items have been received to one warehouse location. In this case, the system will ask the user to scan the location only once when the user is processing the purchase receipt. If the check box is cleared, the system will ask the receiving location for each processed item.

To start processing the received items, the user scans the purchase receipt number on the printed document. The system copies all line splits from the purchase receipt and shows them as lines in the table on the Receive tab. If the user has specified that one receiving location is being used (by selecting the **Use Single Receiving Location** check box in the Settings dialog box), the system will ask the location before the processing of individual items. The process of receiving each item includes scanning the inventory item barcode, the lot or serial number barcode (if needed for the particular item), and the receiving location (if **Use Single Receiving Location** is cleared in the Settings dialog box).

After all details have been specified, the user confirms the line. The user can modify the line quantity, if needed. The user can also process the receipt of items that are not in the currently selected purchase receipt; in this case, the system will inform the user that the specified quantity of items exceeds the purchase receipt quantity and will request additional confirmation to receive the extra quantity. After receiving is completed, the user releases the receipt by using the **Release Receipt** button on the screen toolbar or by entering the "* release * receipt" command in the Scan box. If not all purchase receipt lines has been received in full, the user can release the purchase receipt and mark all its lines as complete by using the **Complete PO Lines** button on the screen toolbar or by entering the "* complete * polines" command.

- **Put Away**: In this mode, a user processes the putting away of received goods in the warehouse for a particular purchase receipt. A user switches to this mode by scanning the special barcode @putaway. The Receive and Put Away screen in Put Away mode is shown in the following screenshot.



The purchase receipt must be released; otherwise, it cannot be selected for putting away items. To start putting away items, the user scans the purchase receipt number on the printed screen. The system copies all line splits from the purchase receipt and shows them as lines in the table on the Put Away tab. The process of putting away each item includes scanning the inventory item barcode, the lot or serial barcode (if needed for the particular item), and the location to which the items will be put away. After all details have been specified, the user confirms the line. The user can modify the line quantity, if needed. After all items have been added, the user uses the * release * transfer command or the **Release Transfer** button on the screen toolbar to release the inventory transfer that the

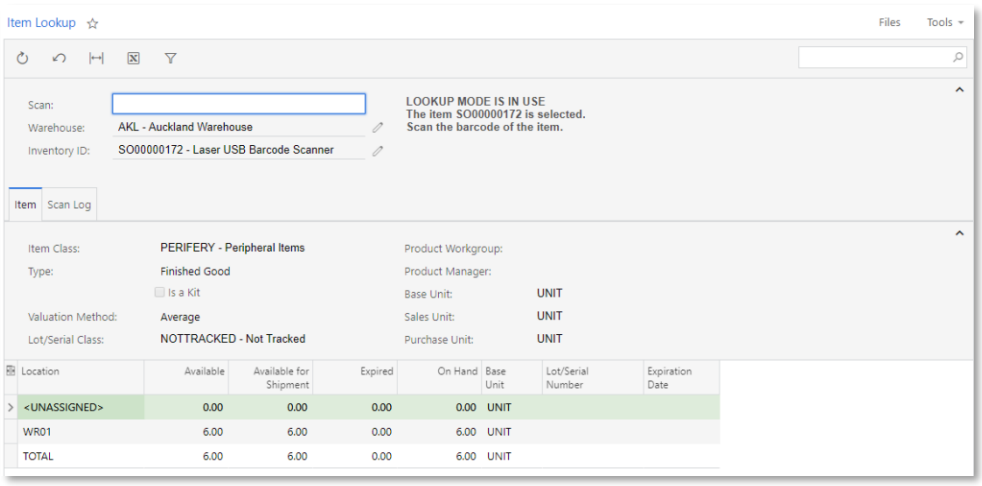
system generates to move items from the location defined in the purchase receipt to the location where it is put away. On the Transfers tab, the user can review the list of all transfer documents that have been prepared for the currently selected purchase receipt.

In both modes, the user can remove the added item by using the **Remove** button on the screen toolbar or by entering the * remove command into the **Scan** box. Also, the user can use the * reset command or the **Reset** button on the screen toolbar to clear the operation state and return to the first operation step of receiving or putting away the items for the current purchase receipt.

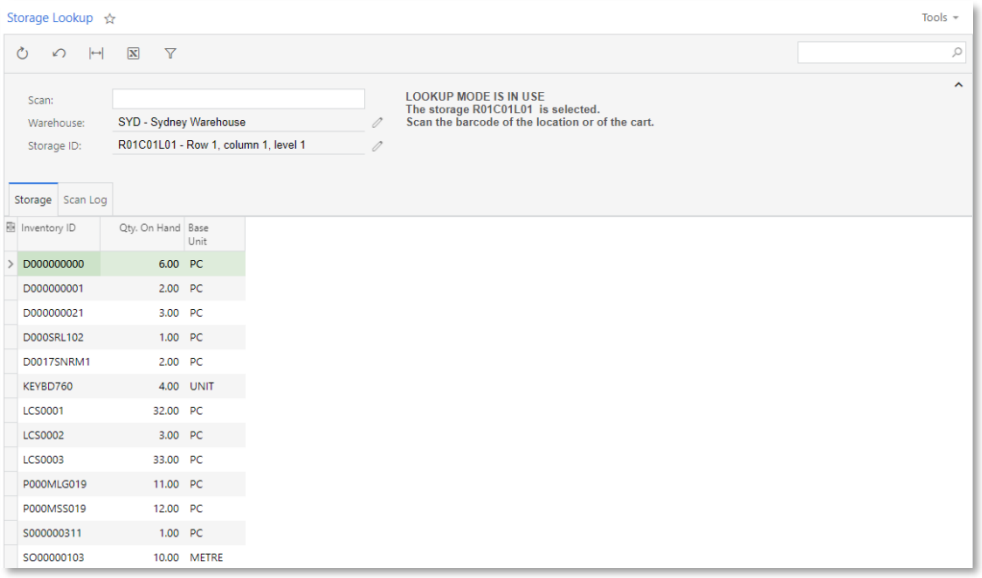
Inventory Operations

A user can automate basic inventory operations by using the following new screens: Item Lookup (IN202520), Storage Lookup (IN409020), Scan and Issue (IN302020), Scan and Receive (IN301020), Scan and Transfer (IN304020), and Scan and Count (IN305020). On these screens, the user can work in the following modes:

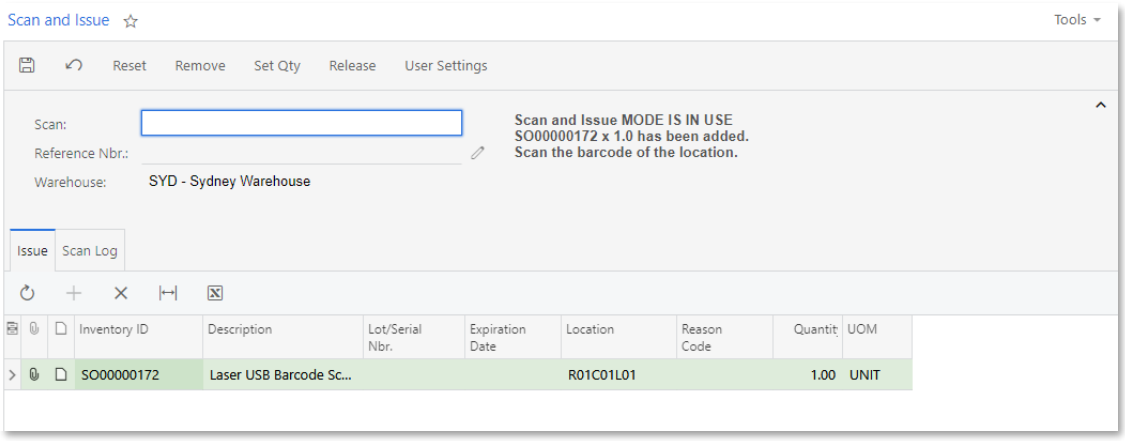
- **Item Lookup**: This mode is used for quickly finding an item (for example, if the item was unexpectedly found). A user switches to this mode by scanning the special barcode @lookup. Then the user scans the item barcode and the system shows the item information and the inventory summary for it. The Item Lookup screen is shown in the following screenshot.



- **Storage Lookup**: This mode is used for getting the list of items in a particular storage area (a location or a cart). A user switches to this mode by scanning the special barcode @storage. Then the user scans the barcodes for the warehouse and storage and the system displays the list of inventory items in this storage. The Storage Lookup screen is shown in the following screenshot.

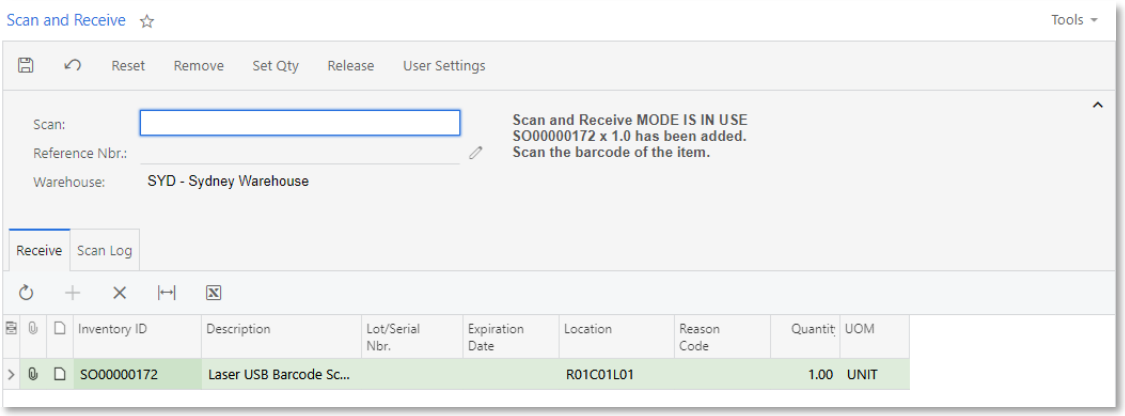


- **Scan and Issue**: In this mode, a user processes the issuing of an item from inventory. The user switches to this mode by scanning the special barcode @inissue. The Scan and Issue screen is shown in the following screenshot.



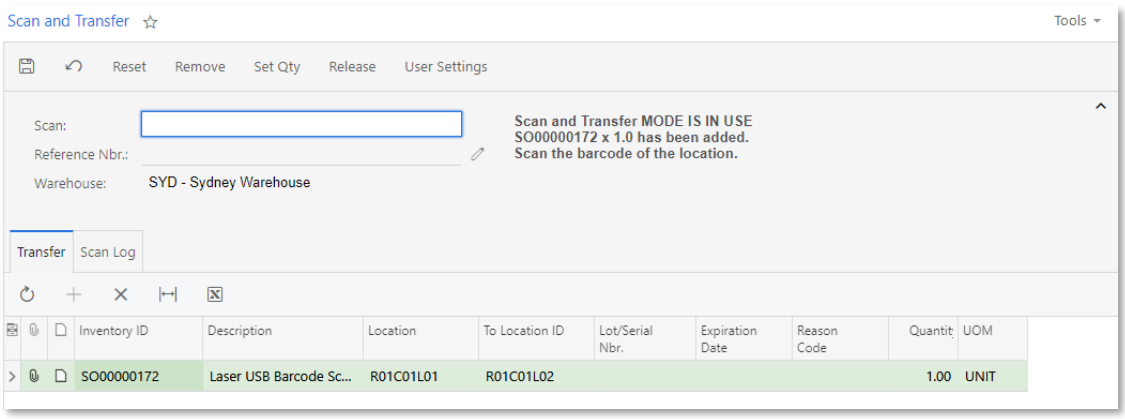
To start issuing the items, the user scans the warehouse barcode. The process of adding an item to the issue includes scanning the location barcode, the inventory item barcode, and the lot or serial barcode (if needed for a particular item). After all details have been specified, the user confirms the line. The user can modify the line quantity, if needed. After all items have been added, the user releases the inventory issue by clicking **Release** on the screen toolbar or by entering the "* release * issue" command in the **Scan** box.

- **Scan and Receive**: In this mode, a user processes the receipt of an item to inventory. The user switches to this mode by scanning the special barcode @inreceipt. The Scan and Receive screen is shown in the following screenshot.



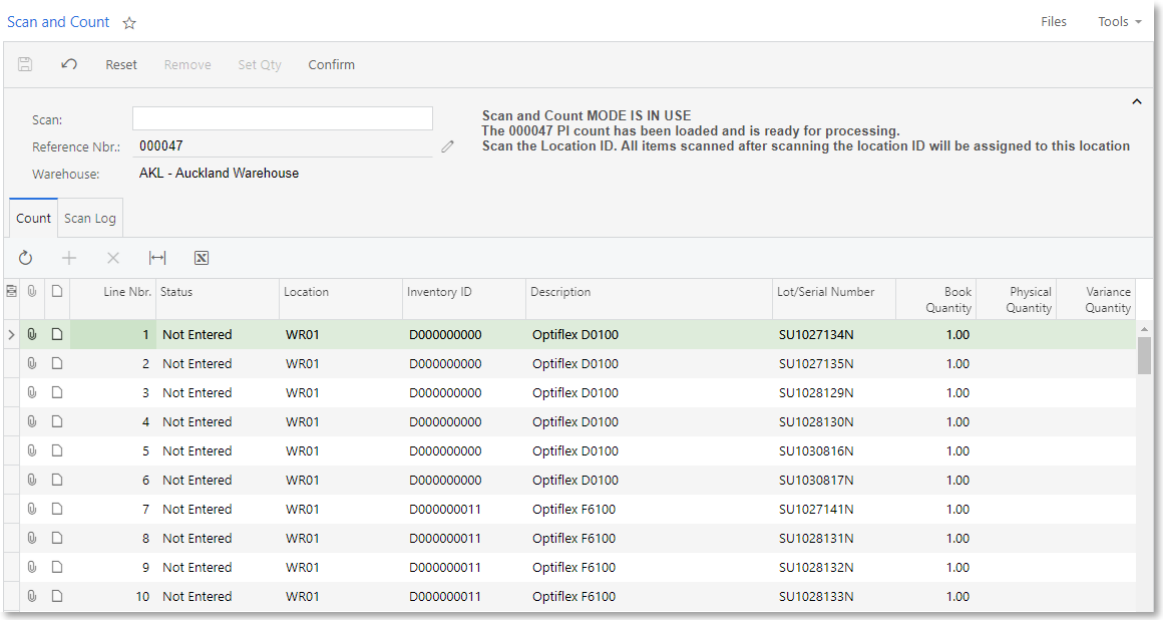
To start receiving the items, the user scans the warehouse barcode. The process of adding an item to the inventory receipt includes scanning the inventory item barcode, the lot or serial barcode (if needed for a particular item), and the location barcode. After all details have been specified, the user confirms the line. The user can modify the line quantity, if needed. After all items have been added, the user releases the inventory receipt by clicking Release on the screen toolbar, or by entering the * release * receipt command in the **Scan** box.

- **Scan and Transfer**: In this mode, a user processes intra-warehouse transfer operations with items. A user switches to this mode by scanning the special barcode @intransfer. The Scan and Transfer screen is shown in the following screenshot.



To start transferring the items, the user scans the warehouse barcode. The process of adding an item to the transfer includes scanning the source location barcode, the inventory item barcode, the lot or serial barcode (if needed for a particular item), and the destination location barcode. After all details have been specified, the user confirms the line. The user can modify the line quantity, if needed. After all items have been added, the user releases the inventory transfer by using the **Release** button on the screen toolbar or by entering the * release * transfer command into the **Scan** box.

- **Scan and Count**: In this mode, a user counts inventory items within the physical inventory process. A user switches to this mode by scanning the special barcode @count. The Scan and Count screen is shown in the following screenshot.



To start counting inventory items, the user scans the reference number of the physical inventory document. The process of counting items within physical inventory includes scanning the location barcode, the inventory item barcode, and the lot or serial barcode (if needed for a particular item). After all details have been

specified, the user confirms the line. The user can modify the line quantity, if needed. After all items in the location or locations have been counted, the user confirms the entered data by clicking **Confirm** on the screen toolbar or entering the "* confirm * document" command in the **Scan** box.

In each mode, the user can remove the added item from the issue, receipt, or transfer by using the **Remove** button on the screen toolbar or by entering the "* remove" command in the **Scan** box. Also, the user can use the "* reset" command or the **Reset** button on the screen toolbar to clear the operation state and return to the first operation step of issuing, receiving, transferring, or counting the items, keeping the current inventory document (issue, receipt, transfer, or count).

Limitations

The following limitations apply to the WMS functionality in MYOB Advanced 2019.1:

- The processing of inventory items with the User-Enterable lot/serial method is currently not supported in Pick and Pack modes.
- The processing of non-stock items that require shipment or require receipt is currently not supported in any of the automated modes.

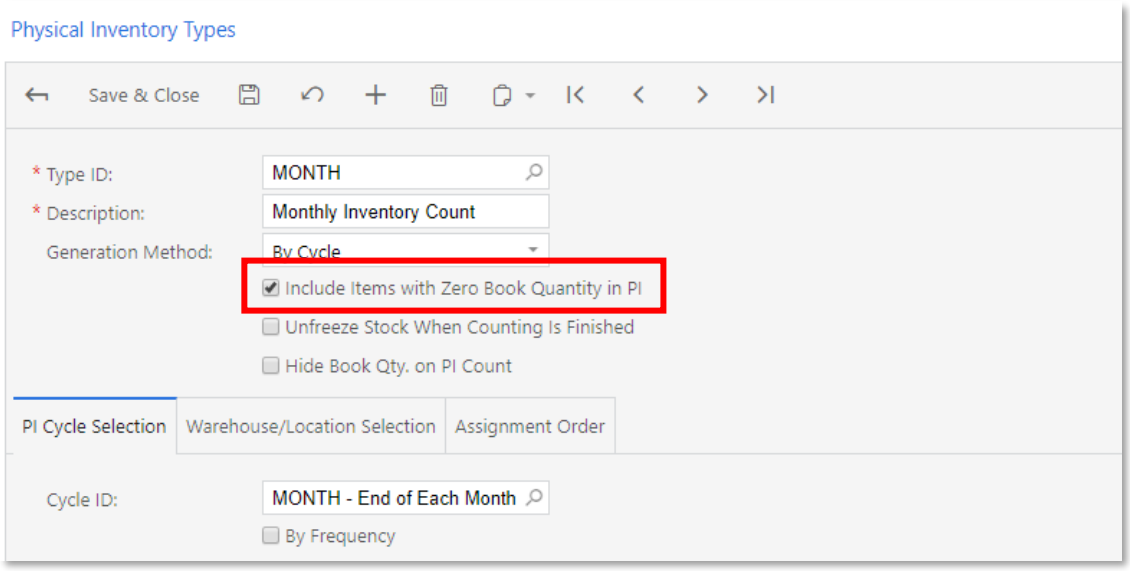
Enhancements to the Physical Inventory Process

In MYOB Advanced 2019.1, multiple changes have been made to the physical inventory (PI) process to make it clearer and more flexible.

Inclusion of Items with a Zero Book Quantity in a PI

In previous versions of MYOB Advanced, if during physical inventory, a user found items that had a zero book quantity in the system, the user had to add new lines to the PI document when entering count data. Now before counting is started, the user can decide whether to include items with a zero book quantity in a PI document.

On the Physical Inventory Types screen (IN208900), the **Include Items with Zero Book Quantity in PI** check box has been added (see the following screenshot); it is available for all types of physical inventory except types with the Full Physical Inventory generation method and types with the By Inventory generation method and the Items Having Negative Book Qty. selection method for items.



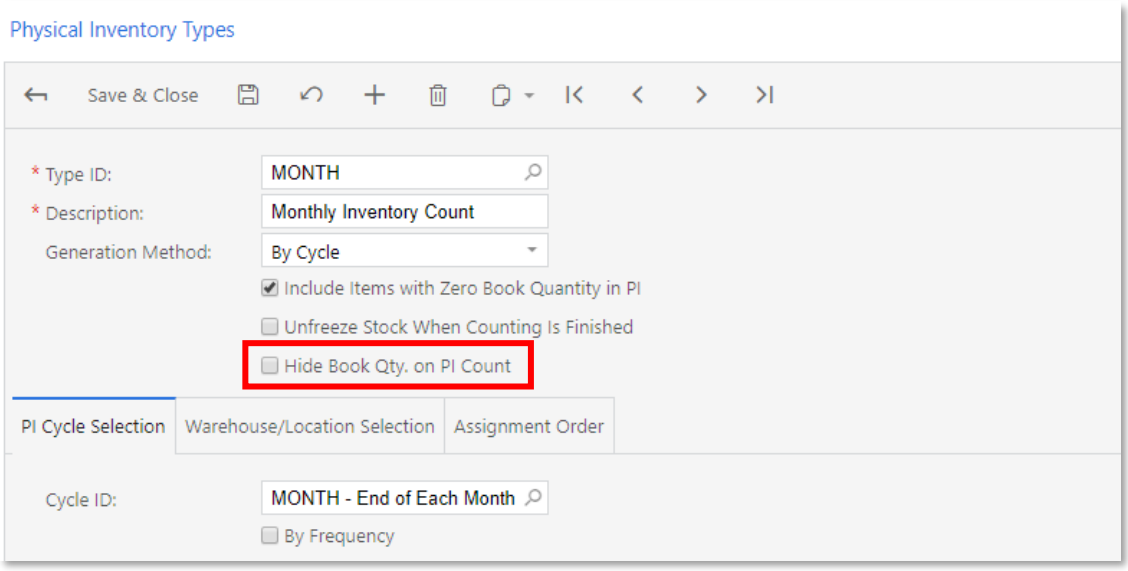
By default, the check box is cleared. When this check box is selected, location-item pairs (from the generation method) in which items have a book quantity of zero (except lot-tracked or serial-tracked items) are added to a PI document on the Physical Inventory Review screen (IN305000) if the items have been stored in the locations for the past year. For physical inventory types with the By Inventory generation method and the Last Count On or Before selection method, the system checks the date of the last physical inventory count. If the date is more than one year ago and there were item movements in a warehouse location since the last physical inventory, the location is included in the current physical inventory count.

Items with a book quantity of zero included in the physical inventory are locked during the physical inventory count for all locations defined in the physical inventory type.

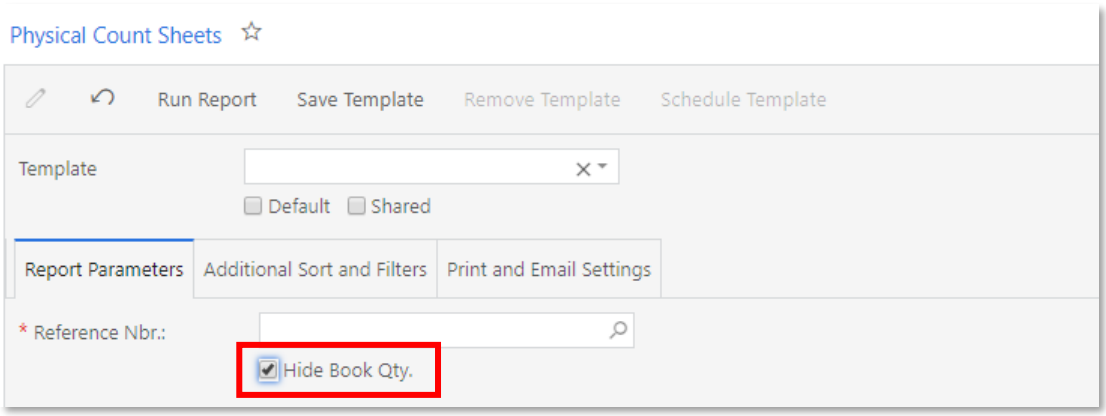
Ability to Hide the Book Quantity on a PI Count

To support "blind counting" (for which warehouse workers do not see quantities from the system and must enter the counted quantities), when preparing a physical inventory count, a warehouse manager can now configure the system so that the book quantity is hidden on the Physical Inventory Count screen (IN305010) and on count sheets that are printed by using the Physical Count Sheets report (IN620500).

To hide the Book Quantity column on the Physical Inventory Count screen, the warehouse manager selects the **Hide Book Qty. on PI Count** check box in the Summary area of the Physical Inventory Types screen (IN208900):



To hide the Book Qty. column on printed count sheets, the warehouse manager selects the **Hide Book Qty.** check box on the Report Parameters tab of the Physical Count Sheets report (as shown in the following screenshot).



Locking of Items Included in a Running PI Count

In MYOB Advanced 2019.1, changes have been made to prevent users from adding the same item to multiple physical inventory counts that are in progress.

The system locks location-item pairs that are included in a physical inventory count that is in progress. Now when a user tries to run another physical inventory count that includes any locked location-item pairs on the Prepare Physical Count screen (IN504000), an error message will be displayed and the system will not run the second count. The error message in the system trace contains the list of intersecting locations (for full physical inventory counts) or items (if at least one of the PI counts is not full).

Users can view the list of currently locked items by using the Physical Inventory Locked Items screen (IN409000).

If a user wants to run another physical inventory count, this user must exclude the intersecting location-item pairs from the count by using the Location Selection or Inventory Selection tabs on the Prepare Physical Count screen. On these tabs, users can select locations and items, respectively, to be excluded from a physical inventory count.

(The system copies locations and items from the physical inventory type used for the PI count.)

If an item is added to the Excluded Inventory Items list on the Inventory Selection tab, that item is removed from the physical inventory count for all warehouse locations (if multiple locations are used).

If a location is added to the Excluded Locations list on the Location Selection tab, the location is removed from the physical inventory count.

Changes in the Calculation of the Book Quantity

In previous versions of MYOB Advanced, item quantities from inventory issues and inventory transfers within the same warehouse were included in the count when the system calculated the book quantities of items. If any physical inventory count was in progress, this could cause the incorrect calculation of items included in the count.

In MYOB Advanced 2019.1, the inventory issues and transfers that reflect movements of items within a warehouse are excluded from the calculation of the book quantity of an item. The formula the system now uses to calculate a book quantity is:

```
PI Book Qty. = Qty. On Hand – Qty. SO Shipped
```

Changes in Cost Calculation

The system now specifies values in the Unit Cost and Estimated Ext. Variance Cost columns on the Physical Inventory Review screen (IN305000) when a user clicks **Finish Counting** on the screen toolbar. If the user changes the physical quantity while entering data, the system also updates the values in these columns.

For lines with a positive variance quantity, the system calculates the values of the Unit Cost and Estimated Ext. Variance Cost columns according to the rules of valuation methods specified for items as follows:

- The FIFO and Average valuation methods:
    - The unit cost is calculated based on the values of the FIFO Default Returns Cost box (for the FIFO valuation method) or the Avg. Default Returns Cost box (for the Average valuation method) specified on the Warehouses screen (IN204000).
    - If the average cost of the item is zero on the Price/Cost Information tab of the Item Warehouse Details screen (IN204500), the system uses the value of the Last Cost box on this screen as the unit cost.
    - If both the average cost and the last cost are zero on the Price/Cost Information tab of the Item Warehouse Details screen, the system uses the average cost on the Price/Cost Info tab on the Stock Items screen (IN202500) as the unit cost. If the average cost is zero, the system uses the last cost on the same tab as the unit cost.
- The Specific valuation method:
    - The system uses the cost layer that corresponds to the item as the unit cost. If multiple cost layers exist for the item, the system uses the last created cost layer as the unit cost.
    - If no cost layers exist for an item with a specific lot or serial number, the system uses the last cost specified on the Price/Cost Information tab of the Item Warehouse Details screen as the unit cost.
- The Standard valuation method:

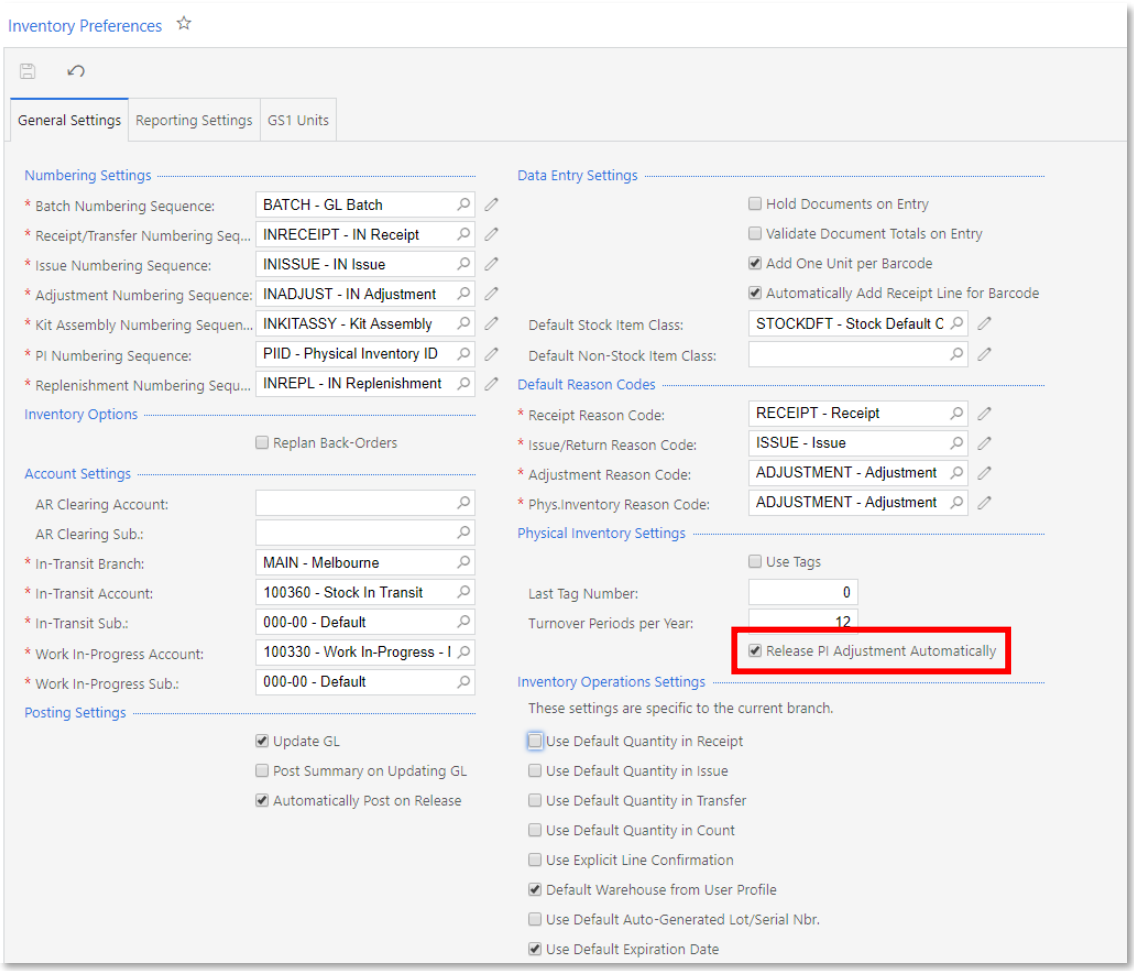
- The system uses the current standard cost specified in the Standard Cost section of the Price/Cost Information tab on the Item Warehouse Details screen as the unit cost.
- If the current standard cost is zero, the system uses the current standard cost on the Price/Cost Info tab on the Stock Items screen as the unit cost.

For lines with a negative variance quantity, the system calculates the values of the Unit Cost and Estimated Ext. Variance Cost columns according to the calculation rule of the PI adjustment and uses the data of the current cost layer.

The **Update Actual Cost** action now recalculates the values of the Unit Cost, Estimated Ext. Variance Cost, and Total Variance Cost columns for lines with a negative variance quantity according to the calculation rule of the PI adjustment, and the system uses the data of the current cost layer. For lines with a positive variance quantity, this action recalculates the costs if the default costs were changed on the Item Warehouse Details screen.

Review of PI Adjustments Before Release

When a user completes the physical inventory, the system generates PI adjustments to correct the on-hand quantities (if necessary). In previous versions, users had no ability to review these adjustments and make any needed corrections before the adjustments were released. In version 2019.1, the user who configures the physical inventory can specify whether to release PI adjustments automatically or allow users to review and correct adjustments before release. The **Release PI Adjustment Automatically** check box, shown in the following screenshot, has been added to the Inventory Preferences screen (IN101000).



If the Release PI Adjustment Automatically check box is cleared, the system works as follows:

- When a user clicks **Complete PI** on the screen toolbar of the Physical Inventory Review screen (IN305000), a PI document has the In Review status and a PI adjustment is created with the Balanced status on the Adjustments screen (IN303000).
- In the PI adjustment on the Adjustments screen, a user can edit the Unit Cost column value for particular items if the value of the Quantity column is positive. When the unit cost is changed manually and the edited adjustment is saved, the system changes the value of the Final Ext. Variance Cost column in the item line in the PI document on the Physical Inventory Review screen.

- If a user changes a unit cost for a particular item on the Transaction Details tab of the Adjustments screen, the new **Manual Cost** check box is selected automatically in the item line.
- For items with the FIFO valuation method selected on the Stock Items screen (IN202500), a user can edit the value of the Receipt Nbr. column on the Transaction Details tab of the Adjustments screen.
- A user can delete a PI adjustment before the adjustment is released. After the adjustment is deleted, the status of the PI document changes to Data Entering on the Physical Inventory Review screen, and the user can edit the PI count document and then create a new adjustment.
- When a user successfully releases a PI adjustment on the Adjustments screen, the system updates the values of the Final Ext. Variance Cost column in the item line in the PI document and changes the status of the PI document to Completed on the Physical Inventory Review screen.

If the **Release PI Adjustment Automatically** check box is selected, the system works as it did previously: When the user completes the physical inventory, the system changes the status of the PI document to Completed. It also generates a PI adjustment to correct the on-hand quantities, with unit costs copied from the PI document for each item, and releases the generated PI adjustment.

Other Enhancements

The following minor enhancements related to PI functionality have been introduced:

- As mentioned in the previous section, the new In Review status is available for a PI document created on the Physical Inventory Review screen (IN305000). This status means that the adjustment for this PI has been created and is being reviewed by accountants. When a PI document has this status, the document cannot be deleted.
- On the Adjustments screen (IN303000), users can edit the following UI elements for an adjustment with the Balanced status:
    - The Unit Cost column on the Transaction Details tab for items with a positive value in the Quantity column
    - The **Description**, **External Ref.**, **Post Period**, and **Date** boxes in the Summary area
- The Base Unit column has been added to the Physical Inventory Count (IN305010) and Physical Inventory Review (IN305000) screens.
- The **Manual Cost** check box has been added to the Physical Inventory Review and Adjustments screens. If a user edits the unit cost of an item, the system automatically selects this check box.
- On the Physical Inventory Review screen, the Actions menu button has been added with the following menu commands:
    - **Update Actual Cost**: This menu command replaces the button of the same name, which had been on the table toolbar of the Physical Inventory Details tab.
    - **Set Not Entered to Zero**: This menu command replaces the button of the same name, which had been on the table toolbar of the Physical Inventory Details tab.
    - **Set Not Entered to Skipped**: This menu command replaces the button of the same name, which had been on the table toolbar of the Physical Inventory Details tab.

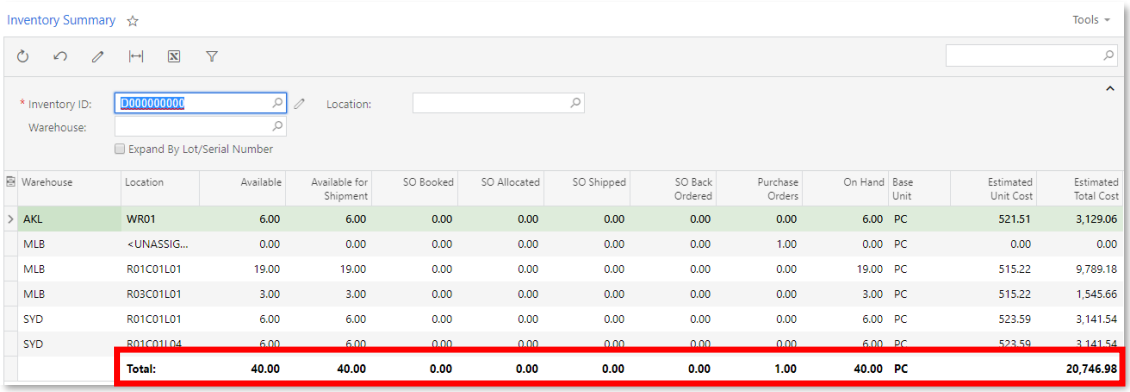
    - **Cancel PI**: This menu command replaces the button of the same name, which had been on the screen toolbar.
- On the Adjustments screen, the following references to the corresponding PI document (that is, the PI document for which the adjustment has been generated) have been added:
    - In the Summary area, the PI Count Reference Nbr. box: The reference number of the corresponding PI document
    - On the Transaction Details tab, the PI Line Number column: The line number of the item of the current line in the corresponding PI document
- The Unfreeze Stock When Counting Is Finished check box has been added to the Physical Inventory Types screen (IN208900). When this check box is selected, inventory items become available for warehouse operations after the counting is finished (that is, when the PI document has the Data Entering or In Review status). When the check box is selected, the system displays a warning on the Physical Inventory Types screen because unfreezing stock items before the adjustment has been released may cause discrepancies in the quantity or cost of stock items. This check box replaces the Freeze Inventory When PI Count Is in Data Entry State check box, which has been removed from the Warehouses screen (IN204000).

UI Enhancements

Multiple changes have been introduced in the user interface of the Inventory Summary (IN401000), Inventory Allocation Details (IN402000), and Inventory Preferences (IN101000) screens. The new Storage Summary screen (IN409010) has been added.

UI Changes on the Inventory Summary Screen

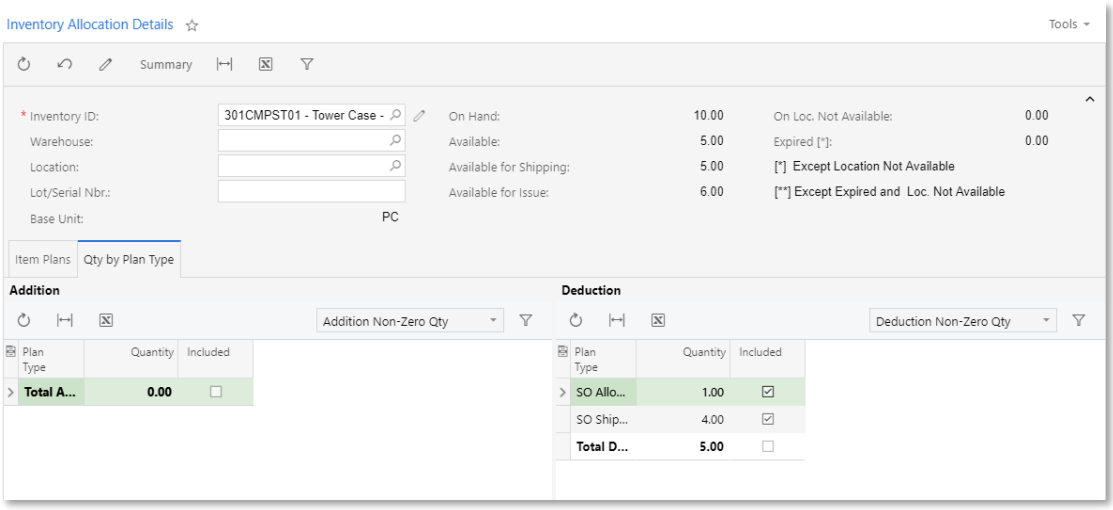
On the Inventory Summary screen (IN401000), the following UI changes have been introduced:



UI Changes on the Inventory Allocation Details Screen

On the Inventory Allocation Details screen (IN402000), the boxes of the Summary area have been redesigned (see the following screenshot). The Summary area now contains the selection criteria and boxes that display the current availability of the selected item. All other boxes have been moved to the new Qty by Plan Type tab. This tab contains the following tables:

- The Addition table contains plan types that could increase the item quantity in stock
- The Deduction table contains plan types that could decrease the item quantity in stock.

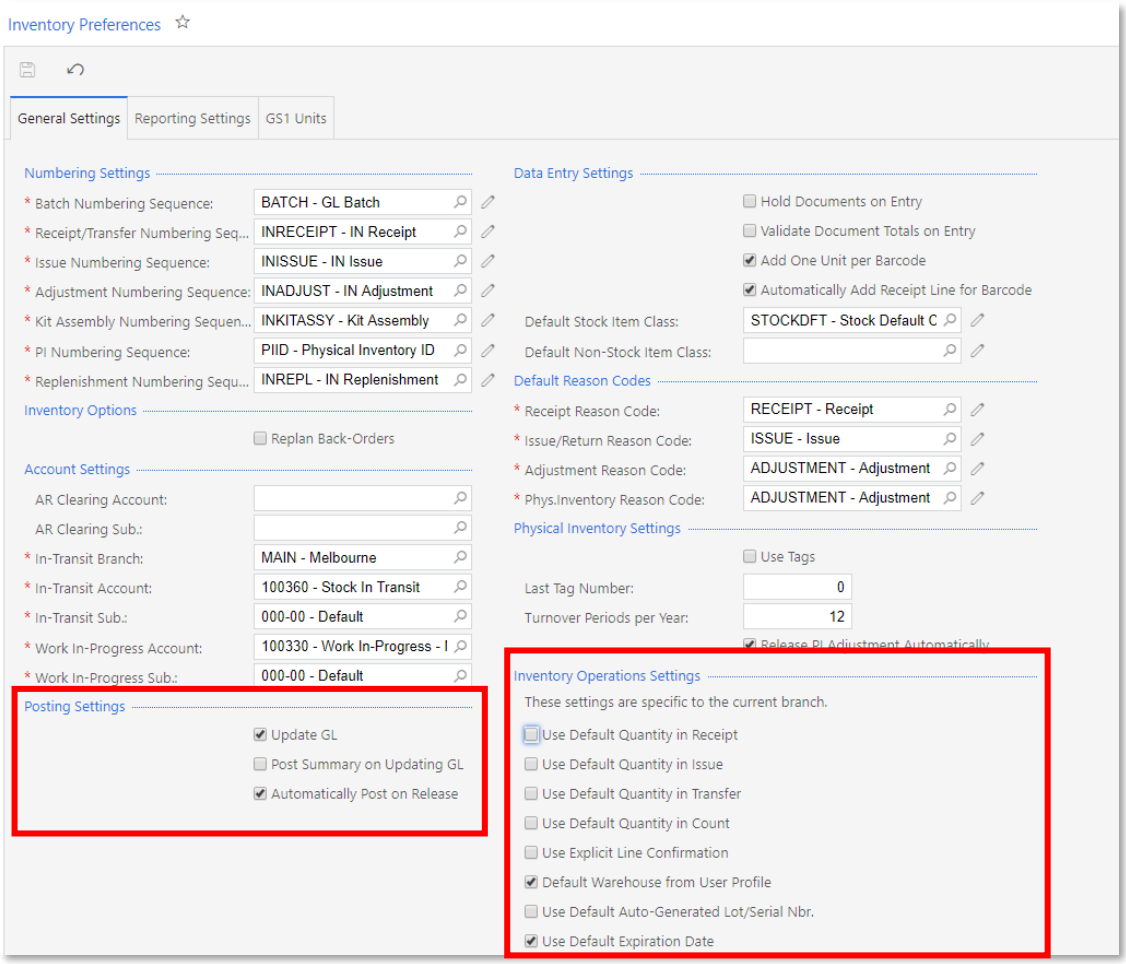


A plan type is an item's status, which reflects a combination of actions that could affect the item availability in stock and that the system will apply to the item during the next processing stage. A plan of a particular type is related to documents that contain the item and have not been released. The combination of plan types that affect the item availability in stock is defined by the availability calculation rule applied to the item.

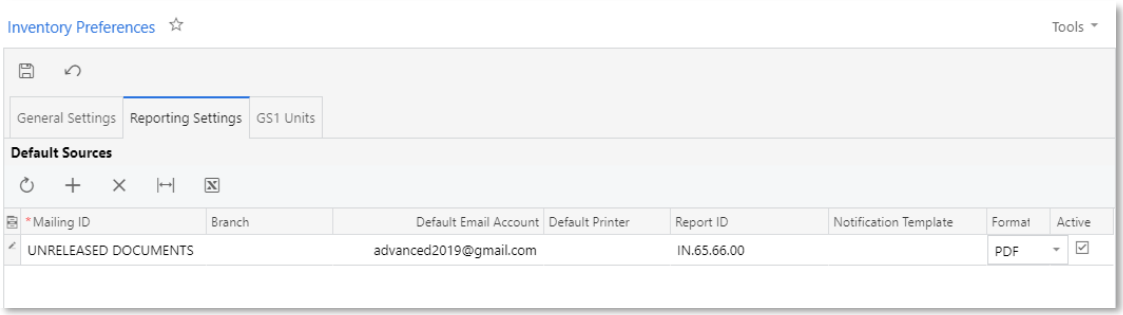
UI Changes on the Inventory Preferences Screen

On the Inventory Preferences screen (IN101000), multiple changes have been made on the General Settings tab (see the screenshot below):

- The Posting Settings section has been placed after the Account Settings section. The **Release PI Adjustment Automatically** check box has been added to the Physical Inventory Settings section. For details, see "Inventory Management: Enhancements to the Physical Inventory Process" in the User Guide.
- The Inventory Operations Settings section has been added with configuration options that affect the functionality of automated warehouse operations. For details, see "Order Management: Automated Warehouse Operations" in the User Guide.

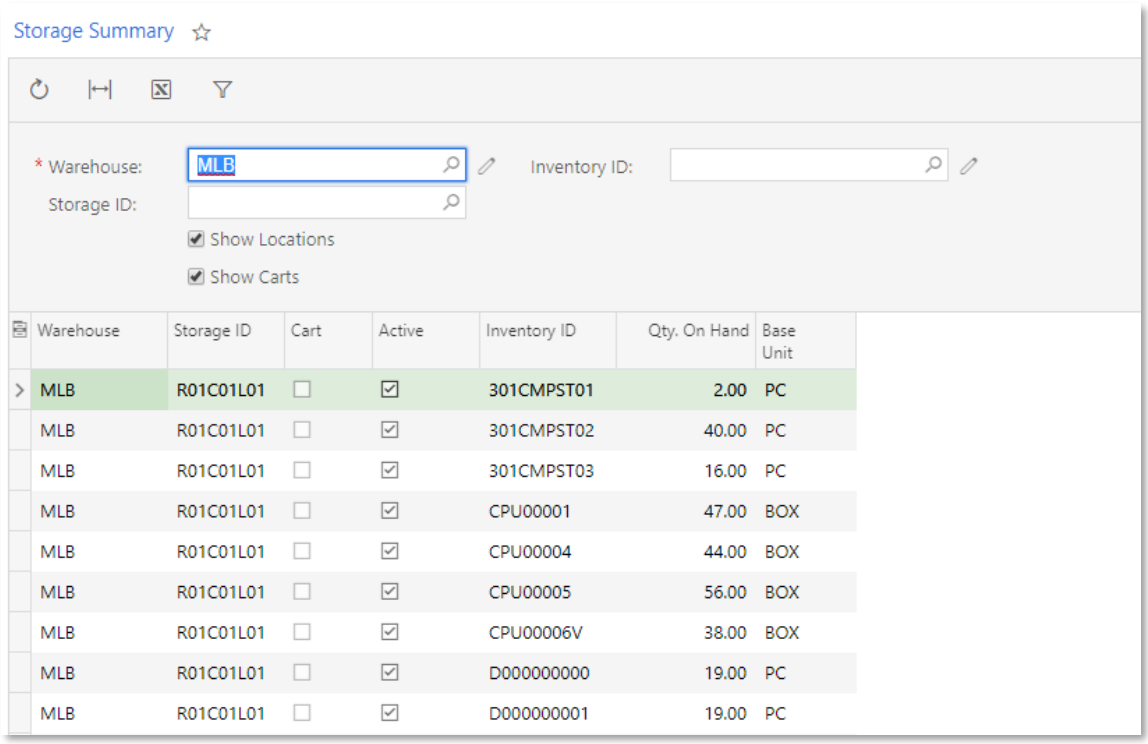


Also, a Reporting Settings tab has been added (see the following screenshot). On this tab, the list of mailings for employees is displayed. Mailings are used to print documents or send electronic versions of documents (by email) to the company employees who oversee inventory operations.



The Storage Summary Screen

A new Storage Summary screen (IN409010) has been added. On this screen, users can view a list of the inventory items in a particular warehouse and narrow the list of items to be listed by storage type (location or cart), particular storage, or inventory item. The screen is shown in the following screenshot.



Enhanced Freight Calculation

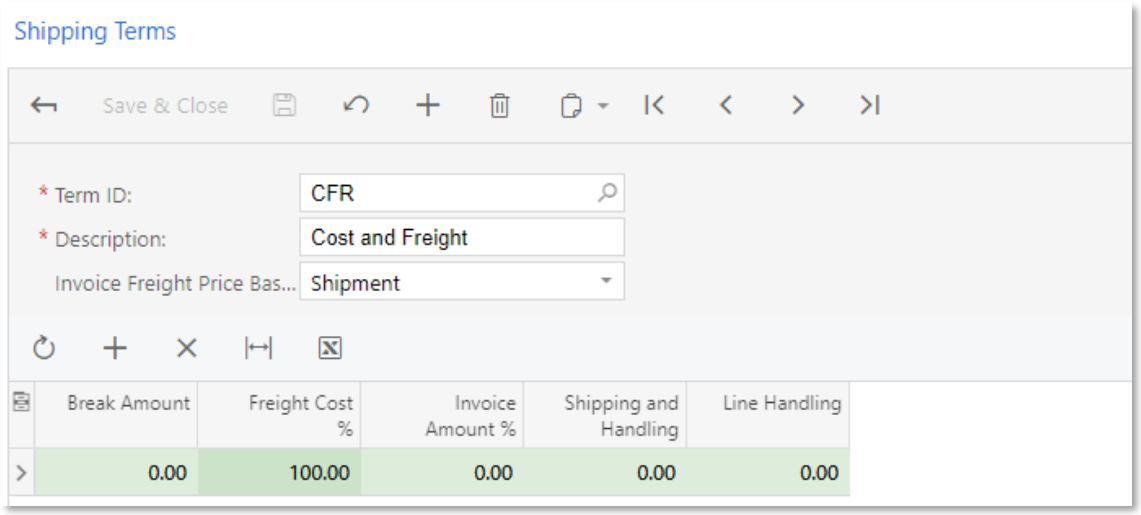
Previously, when a user processed documents with freight charges, there was no option to disable the automatic recalculation of the freight amount in orders, shipments, and invoices. Also, the user could not specify the freight amount manually in a sales order, shipment, or invoice. The user had no way to adjust the rule of freight allocation for the partially shipped invoice when the freight price was not dependent on shipment settings.

To give users more options for flexible freight calculation, the logic used for calculating and processing freight charges has been improved. The following sections describe the main changes in freight functionality.

Base for Freight Calculation

An **Invoice Freight Price Based On** field has been added to the Shipping Terms screen (CS208000). The option selected in this field defines the base for the freight price calculation in a sales order invoice. The following options are available:

- Sales Order: The system copies the freight price from the sales order to the invoice (fully or partially if the shipment is partial).
- Shipment: The system copies the freight price from the shipment to the invoice.



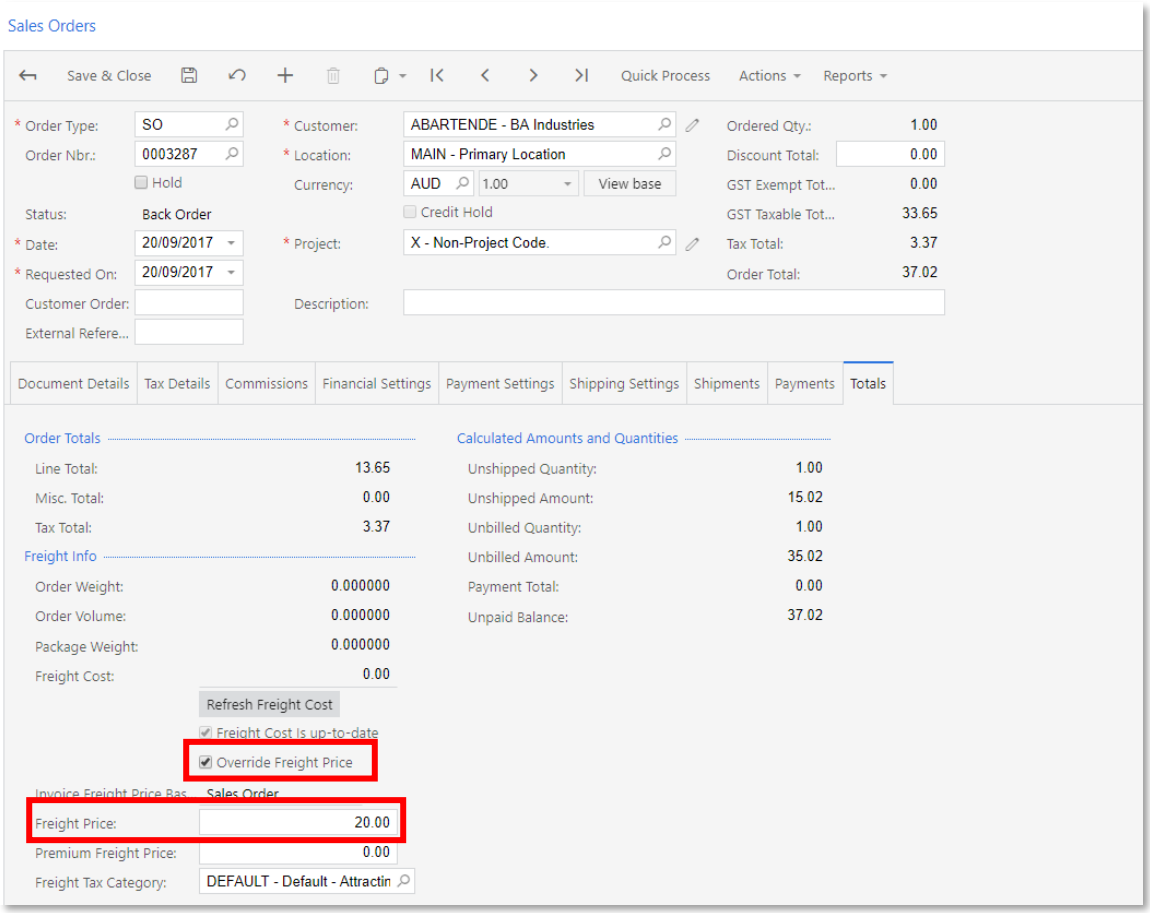
When a user creates a sales order, the rule for freight calculation is copied from the shipping terms and is shown in the **Invoice Freight Price Based On** field on the Totals tab of the Sales Orders screen (SO301000).

When a user creates a sales order invoice for a sales order, the **Freight Cost**, **Freight Price**, and **Premium Freight** settings are copied from the related combination of sales order and shipment, or are distributed between the corresponding lines of the order and shipment.

Manual Freight Price Entry

The **Override Freight Price** check box has been added to the Sales Orders (SO301000) and Shipments (SO302000) screens. This check box indicates that the Freight Price can be entered manually and can be selected in the following documents:

- Sales orders with empty shipping terms
- Sales orders with sales order-based shipping terms
- Shipments with shipment-based shipping terms



A manually entered **Freight Price** value is preserved in the sales order and shipment, and will not be recalculated if any of the order lines (in particular, the quantities, extended price, or amount) are modified.

Other User Interface Changes

On the Sales Orders (SO301000), Shipments (SO302000) and Invoices (SO303000) screens, the following changes have been introduced:

- The **Freight** and **Freight Amt.** fields have been renamed to **Freight Price**.
- On the Freight Details tab of the Invoices screen (SO303000), Order Nbr. and Order Type columns have been added to the table.

Limitations and Important Notes

- The **Invoice Freight Price Based On** value specified for a particular set of shipping terms on the Shipping Terms screen (CS208000) cannot be changed after any order or shipment has been created with these shipping terms.
- A user cannot add to the shipment sales orders with an **Invoice Freight Price Based On** value on the Totals tab of the Sales Orders screen (SO301000) that differs from the value specified for the current shipment terms.
- If one shipment has been created for multiple sales orders with the different shipping terms, the value of the **Shipping Terms** field on the Shipping Settings tab of the Sales Orders screen is copied from the very first added sales order to the shipment and is not updated when the user adds additional sales orders.
- For sales orders with the RMA Order automation behaviour orders and two active operations, the full-amount freight is calculated in the invoice for the order-shipment freight lines with the default operation type. For the order-shipment freight lines with the non-default operation type, freight is not calculated automatically.
- For the drop-shipped orders in which **Invoice Freight Price Based On** is set to Shipment on the Totals tab of the Sales Orders screen, the invoice is prepared with a freight price of zero.

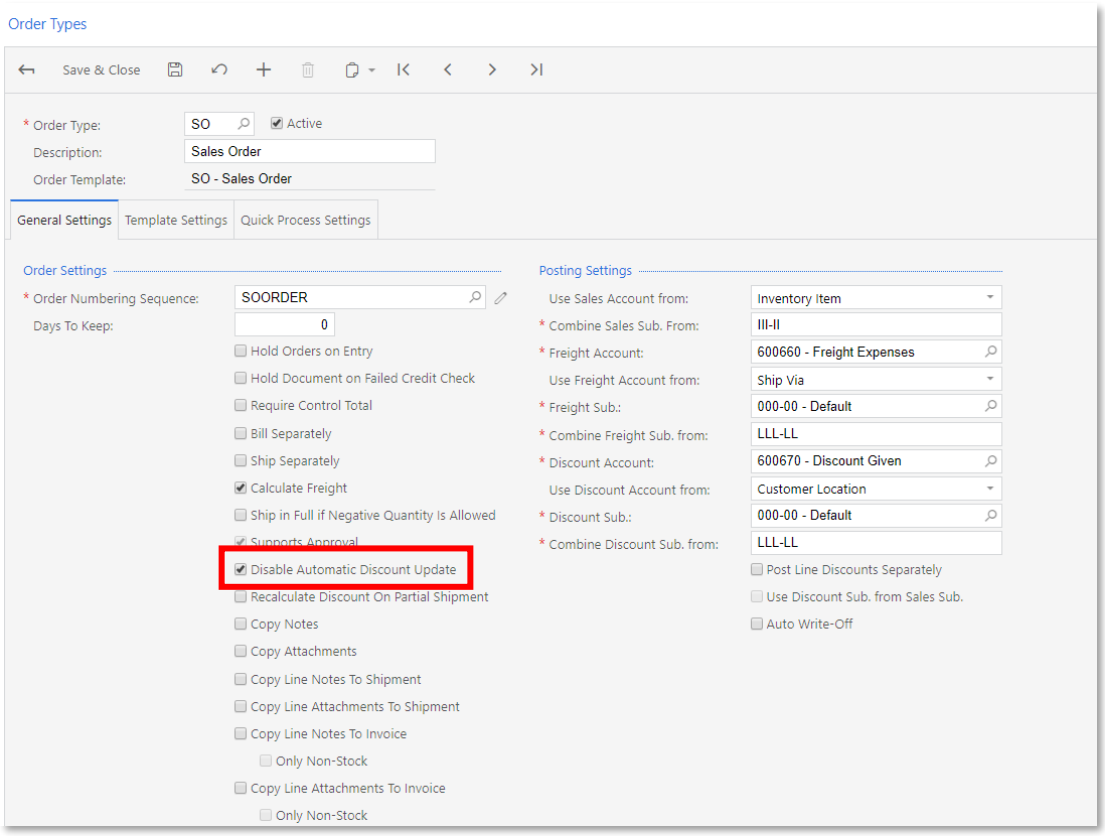
Improvements to Discount Functionality

Separated Customer and Supplier Discount Functionality

To provide flexible capabilities of configuring discounts, customer and supplier discounts have been divided with separate features that can be used independently of each other. On the Enable/Disable Features screen (CS100000), **Customer Discounts** and **Supplier Discounts** check boxes have been introduced in the Advanced Financials group and the **Customer & Supplier Discounts** check box has been removed.

Preserved Set of Applied Discounts on Order Entry

A new **Disable Automatic Discount Update** check box has been added to the General Settings tab of the Order Types screen (SO301000), so a user can select or clear this check box for each order type. For a particular order of a type, on the Sales Orders screen (SO301000), the user can change the state of this check box on the Discount Details tab.



If the check box is cleared for the order type (the default state for all order types), the system refreshes all automatic line, group, and document discounts, as it did before.

When the user selects the **Disable Automatic Discount Update** check box for an order, the already-applied discounts are treated as manual for the order. When a user runs discount recalculation or adds new lines to the order, the system preserves the set of applied discounts; it checks whether these discounts are still applicable for the order, but does not apply any other new discounts to the order. If a user manually changes any of the discountable amounts or quantities in the order, the system recalculates the fixed set of applied discounts based on these changes.

Editable Document-Level Discounts

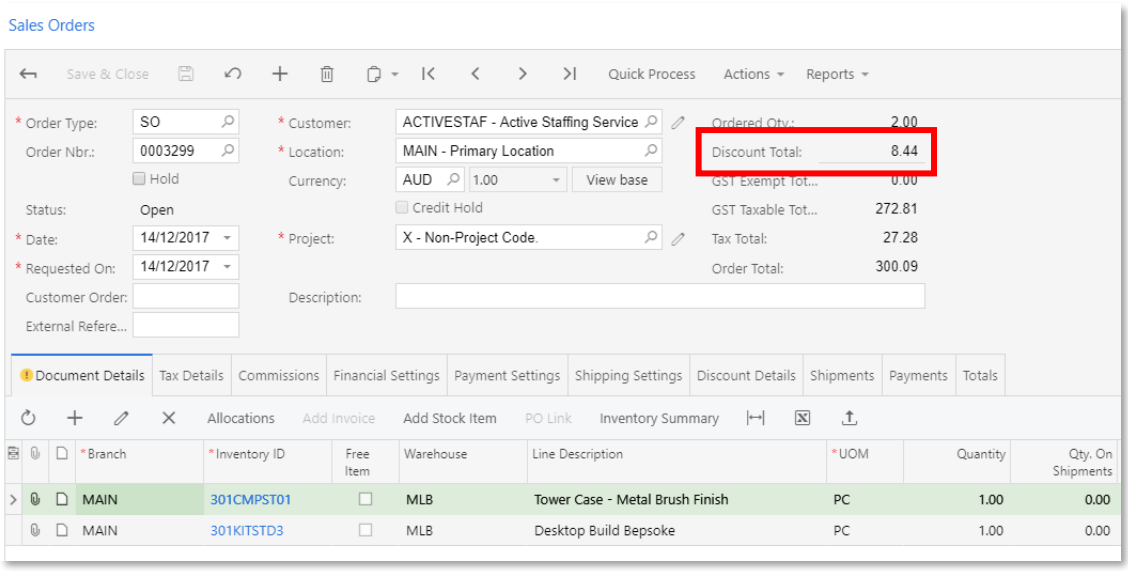
Users can now edit values of the Discount Amount and Discount Percent fields on the Discount Details tab of the following screens:

- Sales Orders (SO301000)
- Invoices (SO303000)
- Purchase Orders (PO301000)
- Invoices and Memos (AR301000)
- Bills and Adjustments (AP301000)
- Sales Quotes (CR304500)
- Opportunities (CR304000)

Entry of Manual Document-Level Discounts

A **Discount Total** field has been added to the Summary area of the following screens:

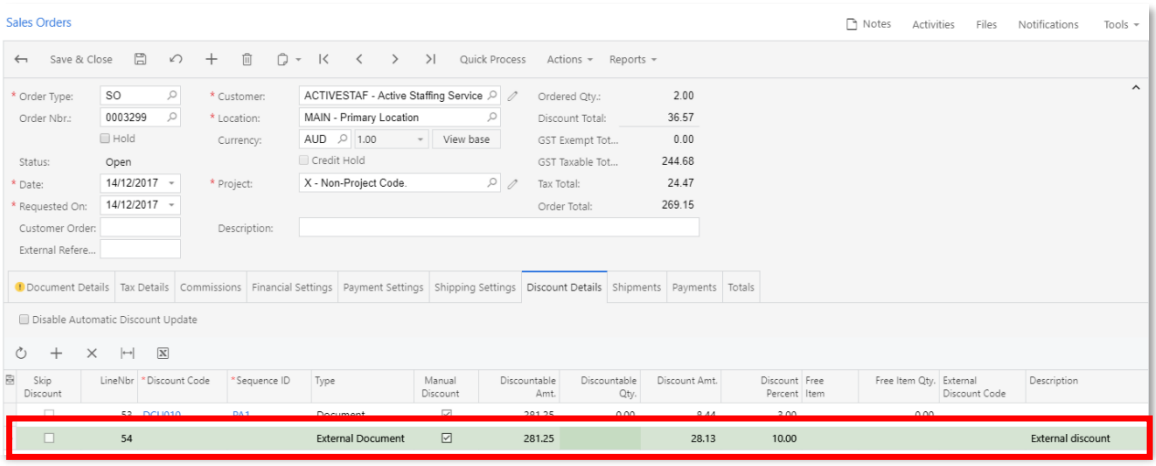
- Sales Orders (SO301000)
- Invoices (SO303000)
- Purchase Orders (PO301000)
- Invoices and Memos (AR301000)
- Bills and Adjustments (AP301000)



In this field, a user can enter a manual document-level discount if the Customer Discounts and Supplier Discounts features are not in use in the system. This discount has no discount code or sequence and is not recalculated by the system. If the discount needs to be changed, the user has to correct it manually.

Entry of External Discounts

To simplify the importing of documents with discounts from external systems, users can now enter manual external discounts directly on the Discount Details tab (of the screens listed below) without creating related discount codes and sequences in the system (see the following screenshot). To specify manual external discounts, users can enter the **Discount Amount** or the **Discount Percent** on this tab. For a discount line with this type of external discount, the user can enter the external discount code (for informational use only) in the External Discount Code column.



The system applies external discounts in the same way as it does manual document discounts; it does not recalculate external discounts if there are changes to the document. Manual external discounts can be specified for documents created on the following data entry screens:

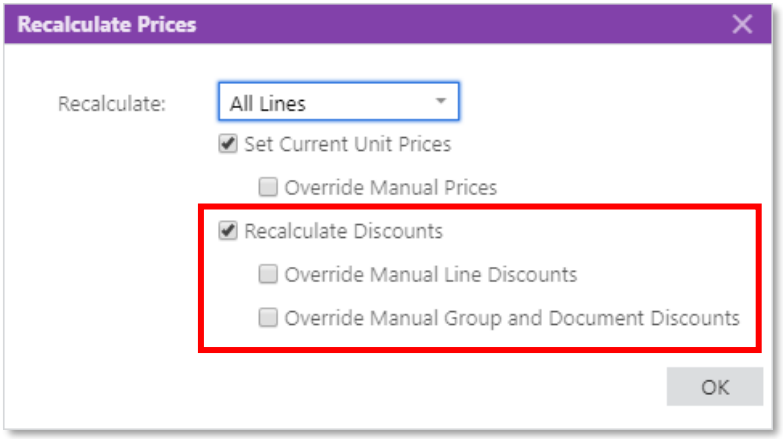
- Sales Orders (SO301000)
- Invoices (SO303000)
- Purchase Orders (PO301000)
- Invoices and Memos (AR301000)
- Bills and Adjustments (AP301000)
- Sales Quotes (CR304500)
- Opportunities (CR304000)

Improved Settings in the Recalculate Prices Dialog

A user can now select which discounts to update during the recalculation process. The Recalculate Prices dialog, which opens when a user clicks **Actions > Recalculate Prices** on the main toolbar of a document entry screen, now provides the following

- **Recalculate Discounts** check box: If this check box is selected, the system will recalculate the discounts in the document. If the check box is cleared, the system leaves the discounts unchanged.
- **Override Manual Line Discounts** check box: If this check box is selected, the system removes any manual line discounts from the document, and searches for applicable automatic line discounts. If the check box is cleared, the manual line discounts remain unchanged in the document, and the system applies automatic line discounts to document lines with no manual discount applied.

- **Override Manual Group and Document Discounts** check box: If this check box is selected, the system removes any manual group and document discounts from the document, and searches for applicable automatic group and document discounts. If the check box is cleared, the manual line discounts remain unchanged in the document, and the system applies automatic line discounts to the document.



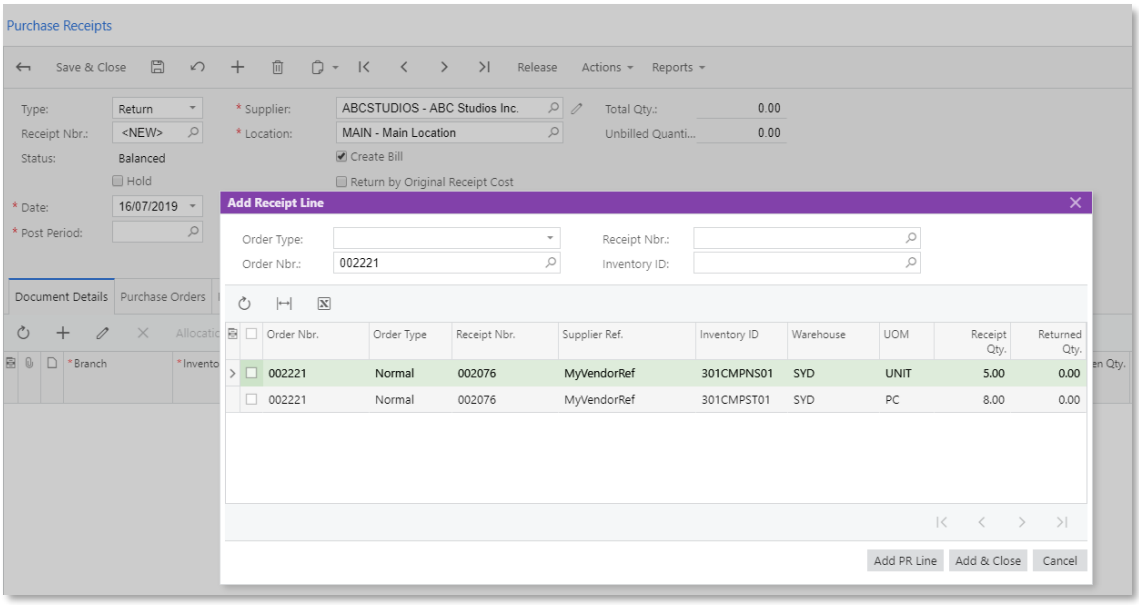
Improved Purchase Returns

Previously, a user could not create a purchase return for a particular purchase receipt or purchase receipt line. The user could not process a purchase return with exactly the same cost as the cost in the corresponding purchase receipt. Also, when the user processed a purchase return with a non-stock item requiring receipt, the system did not generate a General Ledger transaction, thus causing a discrepancy in the balance of the PO Accrual account.

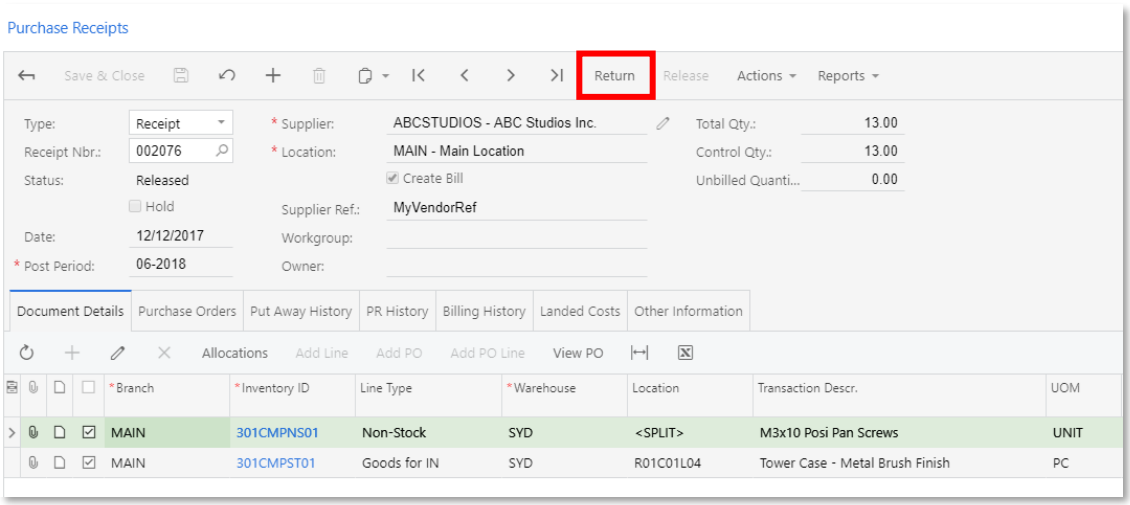
To help users prepare and process purchase returns related to particular purchase orders, purchase return processing has been enhanced in this release. The following sections describe the main changes in the purchase return functionality.

Purchase Returns Linked to Purchase Receipts

User can now add a line of a purchase receipt to a purchase return. New **Add PR** and **Add PR Line** buttons have been added to the table toolbar of the Document Details tab of the Purchase Receipts screen (PO302000). When a user clicks one of these buttons, the Add Receipt or Add Receipt Line dialog opens. In these dialogs, a user can select an existing purchase receipt or specific lines of a receipt, and include them in the purchase return.



Also, a **Return** button is now available on the main toolbar of the Purchase Receipts screen, if a purchase receipt of the Receipt type is opened on this screen. When a user selects the unlabelled check boxes next to the needed lines of a purchase receipt, and clicks this button, the system creates a purchase return document and adds the selected lines to it.



If a purchase return line is linked to a purchase receipt line, the system copies to the purchase return line the Accrual account defined in the corresponding line of the original purchase receipt. If the purchase return line is not linked to a purchase receipt, the system copies the Accrual account according to the posting rule of the item class of the item specified in the line.

Purchase Returns with the Original Unit Cost

When a user processes a purchase return to completion, the system generates the inventory transaction and an Accounts Payable document with the Debit Adj. type. The type of the generated inventory transaction depends on the state of the **Return by Original Receipt Cost** check box on the Purchase Receipts screen (PO302000) in the purchase return.

A **Return by Original Receipt Cost** check box has been added to the Purchase Orders Preferences screen (PO101000). The value of this check box is used as the default value of the **Return by Original Receipt Cost** check box on the Purchase Receipts screen when a user creates a new purchase return.

The default check box value can be changed until the purchase return is released. The

- If the check box is selected, the system generates the inventory adjustment along with the purchase return release. The returned cost of the item is copied from the original inventory receipt of the related purchase receipt line.
- If the check box is cleared, the system generates the inventory issue along with the purchase return release. The item cost in the inventory issue line is defined based on the valuation method of the item.

Note: Direct returns that are not linked to the purchase receipts are processed through inventory issues, so the Return by Original Receipt Cost check box must be cleared in a direct purchase return before the purchase return is released.

On release of an inventory adjustment or issue, the calculated item cost is now debited to the PO Accrual account specified in the purchase return line.

Vendor Return Reason Code

The new Vendor Return usage has been added to the list of reason code usages on the Reason Codes screen (CS211000). The reason codes of the Vendor Return usage (along with the reason codes of the Issue usage type) can be selected in purchase return lines, and in the **PO Return Reason Code** field on the Purchase Orders Preferences screen (PO101000). The reason code defined in the **PO Return Reason Code** field is specified by default in each purchase return line; the system then copies this reason code to the corresponding inventory adjustments and inventory issues. The reason code in a purchase return is used for informational purposes only; the system does not use the accounts specified in any reason codes when generating General Ledger transactions.

Note: In the purchase returns with the **Return by Original Receipt Cost** check box selected on the Purchase Receipts screen (PO302000), only reason codes with the Vendor Return usage can be specified in the purchase return lines.

Purchase Return with Non-Stock Items Requiring Receipt

Now when a purchase return is released, purchase return lines with the Non-Stock line type are added to the generated inventory transaction. On release of the inventory transaction, the following batch of the General Ledger transactions is generated:

- PO Accrual account and subaccount of the purchase return line, Dr
- Expense account and subaccount of the purchase return line, Cr

For purchase return lines with the Non-Stock line type, when the user releases the Accounts Payable debit adjustment, the system records any PO Accrual difference based on the **Allocation Mode** selected on the Purchase Orders Preferences screen (PO101000):

- If Purchase Price Variance Account is selected, the system posts the PO Accrual difference to the Purchase Price Variance account and subaccount specified in the posting class of the item.
- If Inventory Account is selected, the system posts the PO Accrual difference to the Expense account and subaccount specified in the related purchase return line.

Note: For a line with a stock item, the system records any PO Accrual difference to the Purchase Price Variance account and subaccount that are defined in the posting class of the stock item.

Other User Interface Changes

In addition to the changes noted above, the following UI changes have been made related to improved purchase returns:

- For the purchase receipts linked to purchase returns, the Returned Qty. column has been added to the Document Details tab of the Purchase Receipts screen (PO302000) to indicate the quantity of the items that have been returned by the linked purchase return or returns.
- For purchase returns, the Final IN Ext Cost and Estimated IN Ext Cost columns, which are hidden by default, have been added to the Document Details tab of the Purchase Receipts screen. On release of an inventory transaction generated for a purchase return, the extended cost from the inventory transaction is copied to the Final IN Ext Cost column in the related purchase return line.

Limitations and Important Notes

The following limitations and notes apply to these purchase return improvements:

- If the Return by Original Receipt Cost check box is selected for a purchase return on the Purchase Receipts screen (PO302000), then landed costs, purchase price variance and other adjustments of cost are included in the returned cost for items with the average, standard, and specific valuation methods.
- If the Return by Original Receipt Cost check box is selected for a purchase return on the Purchase Receipts screen, and the system fails to release the inventory adjustment because of the calculated cost exceeding the total cost, the user has to clear this check box in the purchase return to resolve the problem. The user must then process the return with the inventory issue transaction.
- If an inventory issue for a purchase receipt had not been released before the system upgrade, the user would not be able to release the corresponding Account Payable bill.

Notes on Upgrade Procedure

- Before upgrade, we strongly recommend that users release all existing purchase returns and related Accounts Payable debit adjustments.
- If an inventory issue for a purchase receipt had not been released before the upgrade, the user would not be able to release the corresponding Account Payable bill.

Purchase Receipt Improvements

When a user processes a purchase, the financial information such as credit terms, taxes, and discounts have to be entered into the purchase order; optionally, this information can be corrected in the Accounts Payable bill. To simplify the processing of purchases, this release removes the extraneous financial information from purchase receipts. The following sections describe the main changes in the purchase receipt functionality.

User Interface Changes Related to Purchase Receipt Processing

On the Purchase Receipts screen (PO302000), changes to the UI have been made as follows:

- In the Summary area, the **Total Amt.**, **Control Amt.**, **GST Exempt Total**, **GST Taxable Total**, **Currency**, and **Currency Rates** fields have been removed.
- The Financial Details tab has been removed. The Unbilled Quantity column has been moved to the Summary area.
- On the Document Details tab, the Ext. Cost and Manual Cost columns have been removed.
- The Accrual Account and Accrual Sub. columns are now hidden by default. New Estimated IN Ext. Cost and Final IN Ext. Cost columns have been added. Estimated IN Ext. Cost is the Ext. Cost of the purchase order line minus the line discount and inclusive taxes. Final IN Ext. Cost is the Ext. Cost of the corresponding inventory transaction line.
- An Other Information tab has been added. The **Branch**, **Bill Date**, **Workgroup**, and **Owner** fields have been moved to this tab.
- New Purchase Orders, PR History and Billing History tabs have been added. On this tab, a user can review the list of related documents.

On the Document Details tab of the Purchase Orders screen (PO301000), the following UI changes have been made:

- Accrual Account and Accrual Sub. columns have been added. The columns can be edited and are mandatory for stock items and for non-stock items requiring receipt. The account and subaccount specified in this column are copied to the purchase receipt and to the Accounts Payable bill.
- The Received Amt. column has been removed.
- Billed Qty. and Billed Amount columns have been added. Billed Qty. is calculated as the sum of line quantities in released Accounts Payable bills for the related purchase order line. Billed Amount is calculated as the sum of amounts in released Accounts Payable bills for the related purchase order line.

- A **Closed** check box has been added. The system now sets the status of the purchase order to Closed if all purchase order lines have the **Closed** check box selected. Closed lines are not added to the Accounts Payable bill. Completed lines (that is, the ones with the **Completed** check box selected) are not added to the purchase receipt prepared for the purchase order.

Finally, on the Accounts Payable Preferences screen (AP101000), the On Receipt Entry and On Receipt Release options have been removed for the Supplier Price Update combo box.

Tax and Discount Application

All discount and tax information has been excluded from the Purchase Receipts screen (PO302000). The following changes to the logic of tax and discount application have been introduced:

- Line discounts are now prorated from the purchase order to the Accounts Payable bill.
- Group and document discounts are now recalculated in the Accounts Payable bill based on the line quantity and amount in this bill.
- The tax IDs, supplier tax zone, and tax categories are copied from the purchase order to the Accounts Payable bill. Taxes are recalculated in the Accounts Payable bill based on the tax information (taxable amount, tax category, tax zone) specified in this bill.

Application of the AP Bill Before the Receipt of Items

Previously, for stock items and non-stock items required receipt, the user could not process the Accounts Payable bill before the purchase receipt was released. To give users this ability, a new **Allow AP Bill Before Receipt** check box has been added on the General Info tab of the Supplier Locations screen (AP303010) and on the Purchase Settings tab of the Suppliers screen (AP303000) (for the supplier's default location).

The state of this check box is copied from the supplier's location settings to the newly created purchase order. The user can review this check box for a particular purchase order on the Other Information tab of the Purchase Orders screen (PO301000). Depending on the state of the check box on this screen, the purchase order is processed as follows:

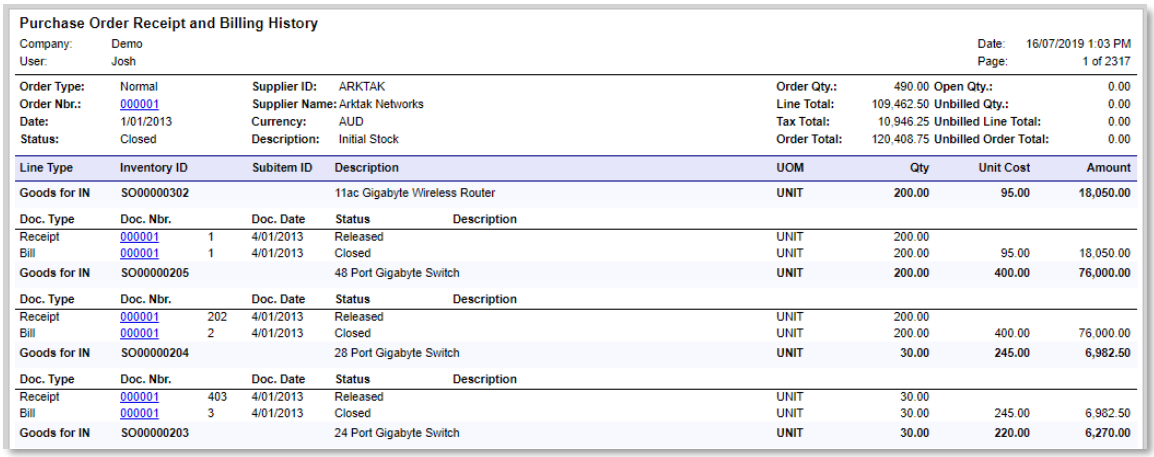
- If the check box is selected, a user can enter the purchase receipt and Accounts Payable bill in any order. Each line of the Accounts Payable bill is linked to the related purchase order line. If the Accounts Payable bill is created and released before the creation and release of the purchase receipt, the cost for the related inventory transaction line is calculated from the cost of the corresponding line of the Accounts Payable bill.
- If the check box is not selected, the related Accounts Payable bill can be created only after the user has prepared and released the related purchase receipt. Each line of the Accounts Payable bill is linked to the related purchase receipt line and purchase order line. For each purchase receipt line, a separate line is created in the Accounts Payable bill.

For a direct purchase receipt or purchase return without a link to purchase order line, and for the individual lines added to the purchase receipt or purchase return without a link, the state of Allow AP Bill Before Receipt does not affect the processing. The prepared Accounts Payable bill could be released after the purchase receipt or purchase return is

released. Each Accounts Payable bill line is linked to the related purchase receipt or purchase return line.

Changes in Reports

A Show Bill For field has been added to the report parameters of the Purchase Order Receipt and Billing History report (PO643000), which has been renamed from Purchase Order Receipts History, to provide the ability to generate a report with the list of corresponding purchase receipts and bills for related purchase order.



Purchase Order Receipt and Billing History

Company: Demo — Date: 16/07/2019 1:03 PM
User: Josh — Page: 1 of 2317

Order Type:	Normal	**Supplier ID:**	ARKTAK	**Order Qty.:**	490.00	**Open Qty.:**	0.00
Order Nbr.:	000001	**Supplier Name:**	Arktak Networks	**Line Total:**	109,462.50	**Unbilled Qty.:**	0.00
Date:	1/01/2013	**Currency:**	AUD	**Tax Total:**	10,946.25	**Unbilled Line Total:**	0.00
Status:	Closed	**Description:**	Initial Stock	**Order Total:**	120,408.75	**Unbilled Order Total:**	0.00

Line Type	Inventory ID	Subitem ID	Description	UOM	Qty	Unit Cost	Amount
Goods for IN	**SO00000302**		11ac Gigabyte Wireless Router	**UNIT**	**200.00**	**95.00**	**18,050.00**
Doc. Type	**Doc. Nbr.**		**Doc. Date**	**Status**	**Description**		
Receipt	000001	1	4/01/2013	Released		UNIT	200.00		
Bill	000001	1	4/01/2013	Closed		UNIT	200.00	95.00	18,050.00
Goods for IN	**SO00000205**		48 Port Gigabyte Switch	**UNIT**	**200.00**	**400.00**	**76,000.00**
Doc. Type	**Doc. Nbr.**		**Doc. Date**	**Status**	**Description**		
Receipt	000001	202	4/01/2013	Released		UNIT	200.00		
Bill	000001	2	4/01/2013	Closed		UNIT	200.00	400.00	76,000.00
Goods for IN	**SO00000204**		28 Port Gigabyte Switch	**UNIT**	**30.00**	**245.00**	**6,982.50**
Doc. Type	**Doc. Nbr.**		**Doc. Date**	**Status**	**Description**		
Receipt	000001	403	4/01/2013	Released		UNIT	30.00		
Bill	000001	3	4/01/2013	Closed		UNIT	30.00	245.00	6,982.50
Goods for IN	**SO00000203**		24 Port Gigabyte Switch	**UNIT**	**30.00**	**220.00**	**6,270.00**

To provide comprehensive information on the purchase orders and documents that relate to them, the following reports have also been improved:

- Purchase Receipt (PO646000)
- Purchase Order Summary (PO610500)
- Purchase Order Details by Supplier (PO611000)
- Purchase Order Details by Account (PO612000)
- Purchase Order Details by Inventory Item (PO611500)
- Purchase Receipt Summary (PO620500)
- Purchase Receipt Details By Supplier (PO621000)
- Purchase Receipt Billing Details (PO632000)
- Purchase Receipt Billing Summary (PO631500)
- Purchase Accrual Details (PO631000)
- Purchase Accrual Summary (PO630500)

The following limitations apply to the reports:

- The received cost and quantity are updated in the Purchase Accrual Summary (PO630500) and Purchase Accrual Details (PO631000) reports after the release of the purchase receipt regardless of the release of the corresponding inventory transaction and General Ledger batch.
- The Purchase Receipt Billing Summary (PO631500) and Purchase Receipt Billing Details (PO632000) reports show only purchase receipts for purchase orders that have the **Allow AP Bill Before Receipt** check box cleared.

Other Changes and Notes

Note the following points about user interface changes:

- If the **Allow AP Bill Before Receipt** check box is selected in a purchase order, a user can now link Accounts Payable bill lines to purchase order lines by clicking the Link Line button on the screen toolbar of the Bills and Adjustments screen (AP301000). In the dialog box that opens, the user selects the needed purchase order lines with stock and non-stock items requiring receipt.
- The **Currency** and **Pay-to Supplier** values specified in the purchase order on the Purchase Orders screen (PO301000) are now copied directly to the Accounts Payable bill on the Bills and Adjustments screen.

Notes on Upgrade Procedure

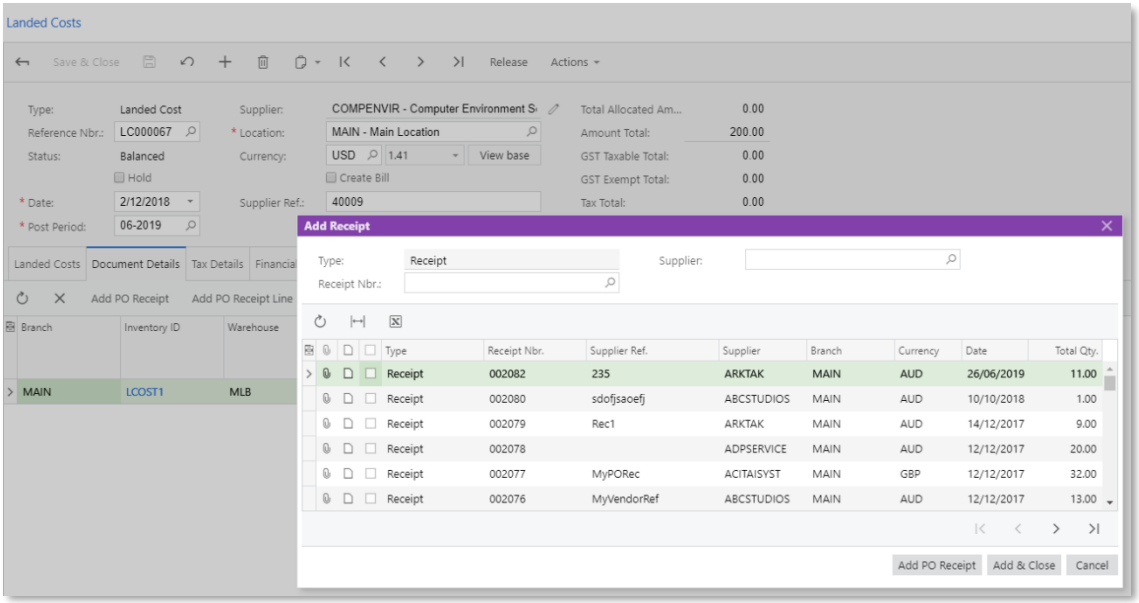
Before upgrade, we recommend that you release all purchase receipts and the Accounts Payable bills, especially the ones with landed costs. During upgrade, for purchase receipts with landed costs, corresponding landed cost documents will be created. After upgrade, purchase receipts will not include tax and discount information.

New Landed Cost Document Type

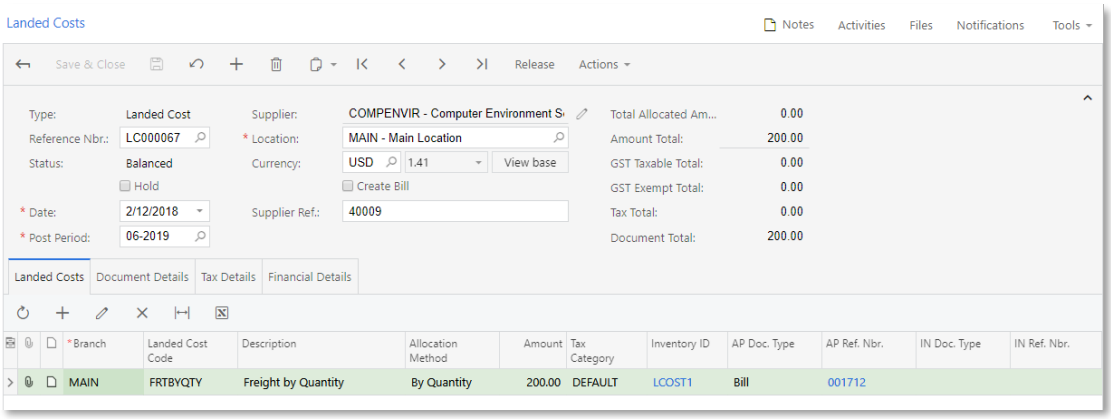
In general, landed cost processing is separate from the process of receiving items. Also, in most cases, the landed cost supplier differs from the supplier that sent the goods. To enhance the processing of landed costs and remove extraneous information from purchase receipts, the new landed cost document has been introduced in this release.

Landed Cost Improvements

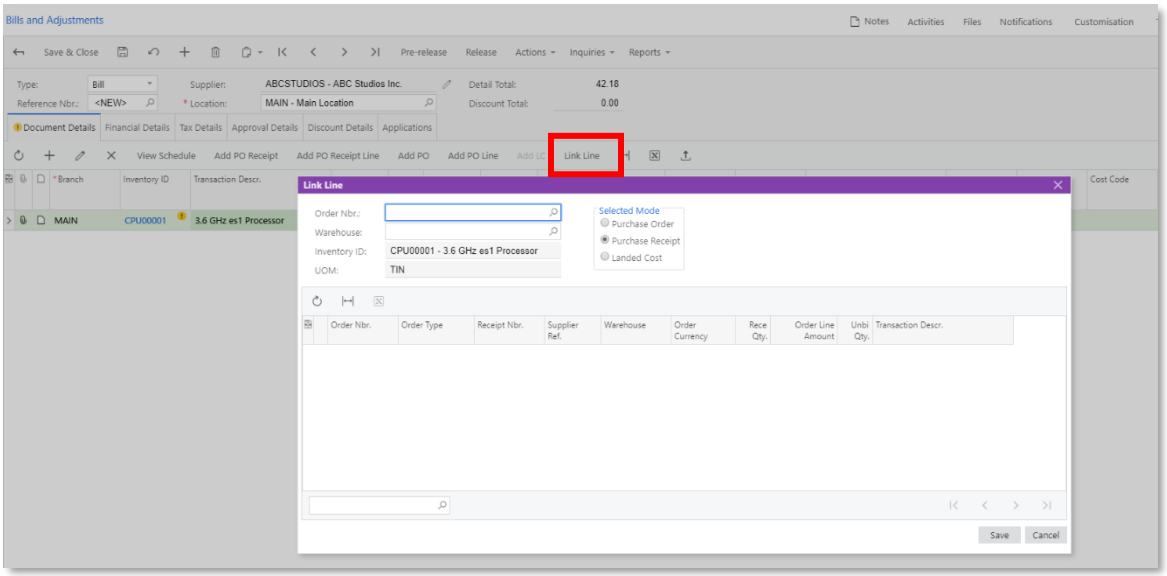
Landed cost documents include landed costs and can be created and reviewed on the new Landed Costs screen (PO303000). For a landed cost document, a user can click **Add PO Receipt** or **Add PO Receipt Line** on the table toolbar of the Document Details tab. In the dialog box that opens, the user can then add a purchase receipt or particular purchase receipt lines for which landed costs should be allocated.



On the Landed Costs tab, the user specifies the landed cost codes and their amounts (see the screenshot below). The entered amount is allocated among the lines on the Document Details tab according to the allocation method specified in the landed cost code, and is shown in the Allocated Amount column on the Document Details tab. If a user changes the weight or volume (or both) in a line on the Document Details tab, the system recalculates the allocated amounts accordingly. On release of the landed cost document, the inventory adjustment and the Accounts Payable bills to the landed cost supplier (if the **Create AP Bill** check box is selected) are generated; the reference numbers of the generated documents are shown on the Landed Costs tab:



In addition, users can now link a line of an Accounts Payable bill created for the landed cost supplier to a line or multiple lines of landed cost documents. To do this, on the Document Details tab of the Bills and Adjustments screen (AP301000), the user can click a document line and then click the **Link Line** button on the table toolbar (see the following screenshot). In the Link Line dialog, which opens, the user selects the **Landed Cost** mode and selects the landed cost lines to be linked to the bill line. (For a line with the Inventory ID column left empty, the system selects the **Landed Cost** mode in the Link Line dialog box by default.)



Other User Interface Changes

The following changes related to landed costs have been made to the user interface:

- On the Purchase Orders Preferences screen (PO1010000), the following new elements have been added:
  - **Create Bill on LC Release** (check box)
  - **Hold Landed Cost on Entry** (check box)
  - Landed Cost Numbering Sequence
  - **For Landed Costs** (check box) in the Validate Total on Entry section.
- On the Document Details tab of the Bills and Adjustments screen (AP301000), an **Add LC** button has been added to the table toolbar to provide the user the ability to select related lines of the released landed cost documents and add them to the bill. The Landed Costs tab has been removed from this screen.
- The Release Landed Costs screen (AP506500) has been removed. For mass-releasing the landed cost documents, the Release Landed Costs screen (PO506000) is now used.
- On the Landed Cost Codes screen (PO202000), the Application Method field has been removed.
- The Landed Costs tab of the Purchase Receipts screen (PO302000) now lists all related landed cost documents.

Notes on Upgrade Procedure

Before upgrade, we recommend that you release all purchase receipts and the Accounts Payable bills, especially the ones with landed costs. During upgrade, for purchase receipts and bills with landed costs, corresponding landed cost documents will be created. After upgrade, purchase receipts will not include tax and discount information.

Easy Viewing of Documents Related to Purchase Documents

Each purchase document processed in the system has multiple related documents (for example, a purchase order can have any number of corresponding purchase receipts, accounts payable bills, and inventory documents). To help users easily review all documents that relate to a particular purchase order, receipt, or return, new tabs have been added to the Purchase Orders (PO301000) and Purchase Receipts (PO302000) screens.

The following new tabs have been added to the screens:

- The PO History tab on the Purchase Orders screen (shown in the previous screenshot), which lists purchase documents (receipts and returns) and accounts payable documents (bills and debit adjustments) that relate to the currently selected purchase order.
- The Purchase Orders tab on the Purchase Receipts screen, which lists purchase orders that relate to the currently selected purchase receipt or purchase return
- The PR History tab on the Purchase Receipts screen, which lists purchase returns that relate to the currently selected purchase receipt.
- The Billing History tab on the Purchase Receipts screen, which lists accounts payable documents (bills and adjustments) that relate to the currently selected purchase receipt.

Other User Interface Changes

On the Purchase Receipts screen (PO302000), the following changes have been introduced:

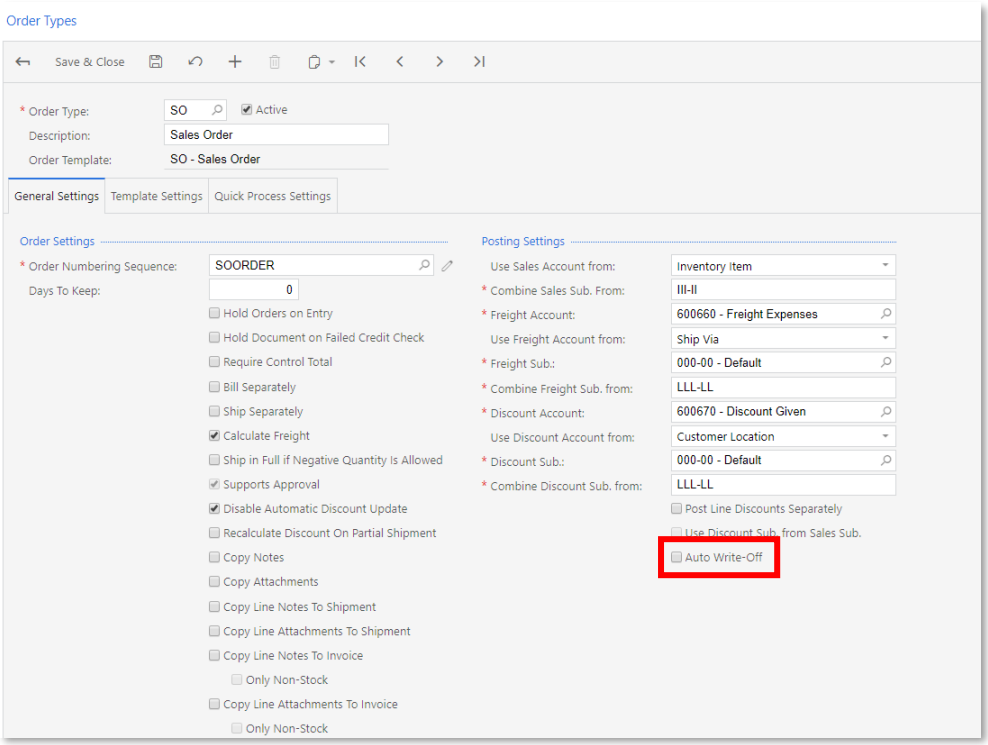
- The Landed Costs tab now lists landed cost documents related to the currently selected purchase receipt or transfer receipt. For more information on the changes in the functionality related to landed costs, see Order Management: New Landed Cost Document Type.
- On the Other Information tab, the number of the inventory documents generated for the current purchase receipt, transfer receipt, or purchase return is now shown in the **IN Ref. Nbr.** field.
- The Inquiries menu has been removed from the screen toolbar.

On the Purchase Orders screen (PO301000), the Receipts tab has been removed.

Automatic Write-Off Functionality in SO Invoices

When a company is integrating its e-commerce system with MYOB Advanced, sales orders are imported to MYOB Advanced with the applicable payments; the payment amount is then transferred to the SO invoices created for these sales orders. Previously, accountants had to review the small discrepancies that could occur between payments and SO invoices created for these sales orders. In MYOB Advanced 2019.1, the ability to process automatic write-offs for these small amounts has been introduced so that users can skip invoice verification, and mass-process invoices with small differences between the amount of the invoice and the amount of the applied payments.

A new **Auto Write-Off** check box has been added on the General Settings tab of the Order Types screen (SO201000). If this check box is selected for an order type, the system automatically calculates the write-off amount for the SO invoice created for the sales order of this type with an applied payment or multiple payments.



The amount of the automatic write-off for a particular invoice is calculated according to the limit that is specified for the applicable customer in the **Write-Off Limit** box on the Customers screen (AR303000). If the difference between the SO invoice amount and amount of its applied payment or payments is greater than the write-off limit of the customer, the SO invoice will not be released automatically.

If the difference is within the write-off limit, the system calculates the write-off amount during the creation of the SO invoice and specifies the amount in the **Balance Write-Off** column on the Applications tab of the Invoices screen (SO303000).

The automatically calculated write-off balance can be either positive (if the invoice amount is greater than the amount of its applied payment or payments) or negative (if the amount of applied payment or payments is greater than the invoice amount). If needed, a user can adjust the calculated write-off amount manually in the **Balance Write-Off** column before releasing the invoice.

Ship-To Information in SO Invoices

In this release, improvements have been made in the way the system defines the ship-to information in the SO invoices, which are defined on the Invoices screen (SO303000). The following sections describe the rules that the system now uses to determine which ship-to information is specified in the invoice, and how a user can determine that an SO invoice relates to documents with multiple ship-to addresses.

Ship-To Information in an SO Invoice

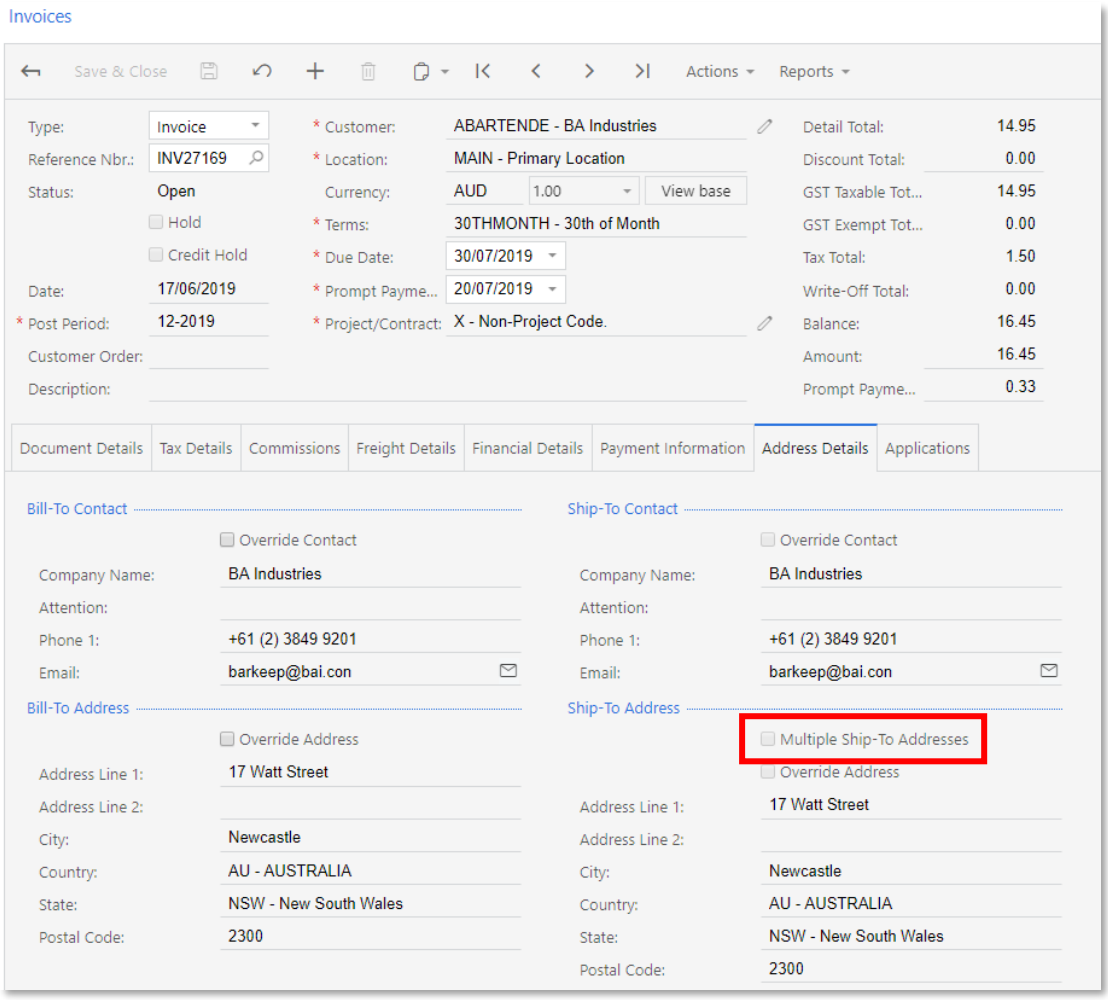
In an SO invoice, the system uses the following rules to specify the ship-to contact and ship-to address specified on the Address Details tab of the Invoices screen (SO303000):

- In the document header, the system uses the address of the company branch as the From address, and the ship-to address of the SO invoice as the To address.
- In each document line if the SO invoice was prepared from a sales order that requires shipment, the system uses the address of the warehouse specified in the line as the From address, and the ship-to address of the shipment as the To address.
- In each document line, if the SO invoice was prepared from a sales order that does not require shipment, the system uses the address of the warehouse or branch specified in the line as the From address, and the ship-to address of the sales order as the To address.
- If the SO invoice was prepared for multiple shipments, for each line of the SO invoice, the system uses the address specified for the line in the corresponding shipment.
- In a line added to the SO invoice without a link to sales order or shipment, the system specifies the address of the company branch as the From address, and the ship-to address of the SO invoice as the To address.

When a user prepares the printed version of an SO invoice on the Invoice / Memo screen (SO643000), the system always copies the ship-to address and ship-to contact from the SO invoice.

Indication of Multiple Addresses in an SO Invoice

On the Address Details tab of the Invoices screen (SO303000), the read-only **Multiple Ship-To Addresses** check box has been added. The check box is selected (as shown in the following screenshot) if multiple shipments or orders with different addresses are included in the SO invoice. If the check box is cleared, the shipments or sales orders included in the invoice have the same addresses.



Project Accounting

Multi-Currency Accounting

A new *Multi-Currency Projects* feature has been introduced in this release. With this feature enabled, users can enter project transactions in different currencies and maintain projects in both the base currency and the project currency.

To start using this functionality, on the Enable/Disable Features screen (CS100000), an administrative user enables the *Multi-Currency Projects* feature. The *Multi-Currency Projects* feature can be enabled only if the *Multi-Currency Accounting* feature has been enabled.

Business Processes Provided by the Feature

The *Multi-Currency Projects* feature makes it possible to track a project in the project currency, which can differ from the base currency. With the feature enabled, users can do the following:

- Manage project budgets in the project currency
- Review actual revenues, actual costs, and committed costs in the project currency, with an ability to calculate project profitability in both the project currency and the base currency, and present costs to the customer in the customer's currency
- Track actual balances in the base currency at the historical exchange rate
- Track cost commitments in the project currency at the historical exchange rate
- Track change orders for budgeted amounts in the project currency
- Create change orders for commitments in a currency that differs from the base currency and the project currency
- Bill projects by using progress billing based on the revenue budget that is defined in the project currency
- Apply the exchange rates of the project currency to time and material transactions billed by quantity
- Add markup to billable amounts in the project currency during time and material billing
- Re-bill the exact amount of an expense in a foreign currency if the currency of the expense transaction is the same as the project currency in which the project is billed, which can be useful to re-bill travel expenses incurred during visits to the customer
- Plan budgets by financial period and create budget forecasts in the project currency to compare actual budgets and change order amounts with monthly budgets
- Create a project quote in a foreign currency and convert the quote to a project in this currency

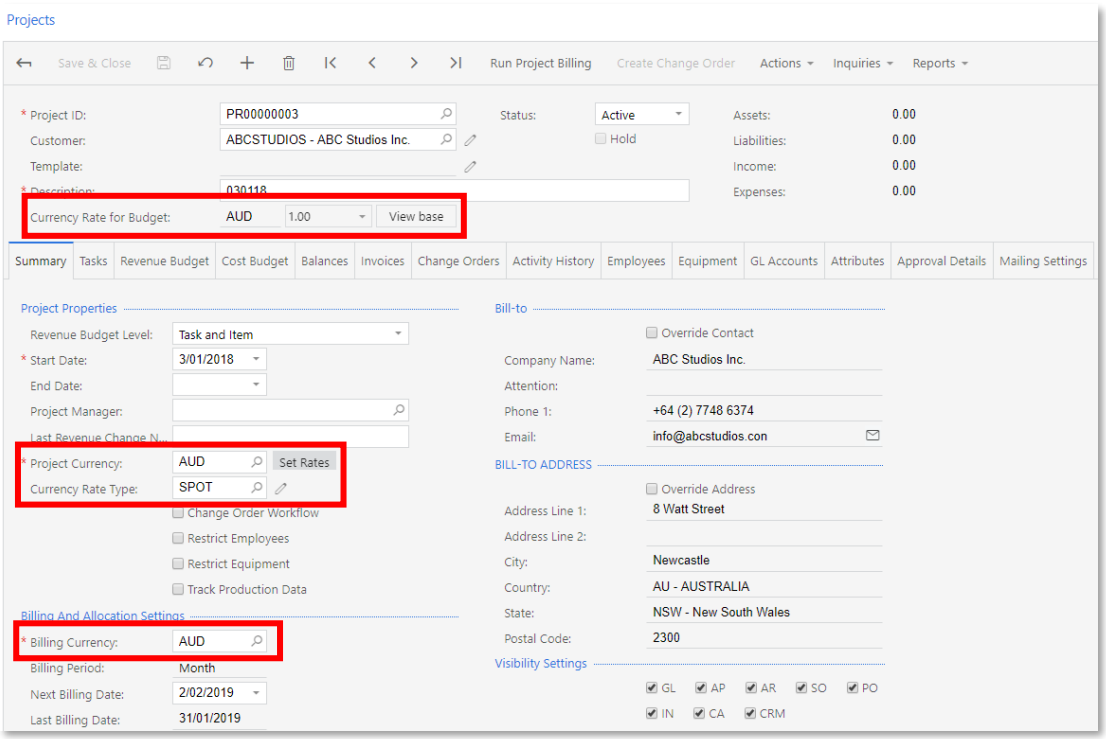
Configuration of Exchange Rates

Projects in a foreign currency use currency exchange rates that are configured and maintained on the Currency Rates screen (CM301000).

For multi-currency accounting in projects, as the default rate type, the system uses the rate type specified in the PM Rate Type box (Default Rate Types section) on the Currency Management Preferences screen (CM101000).

Projects with Multi-Currency Accounting

Projects can have configurable currencies on the Projects screen (PM301000). If the project currency differs from the base currency, users can track the project in both the base currency and the project currency—see the following screenshot.



For a new project created on the Projects screen, the system fills in the **Project Currency** box on the **Summary** tab (**Project Properties** section) with the customer's currency, which is selected in the **Currency ID** box on the **General Info** tab (**Financial Settings** section) of the Customers screen (AR303000). If the customer has no currency defined, the base currency is selected as the **Project Currency**. A user can change the **Project Currency** if the project has no transactions.

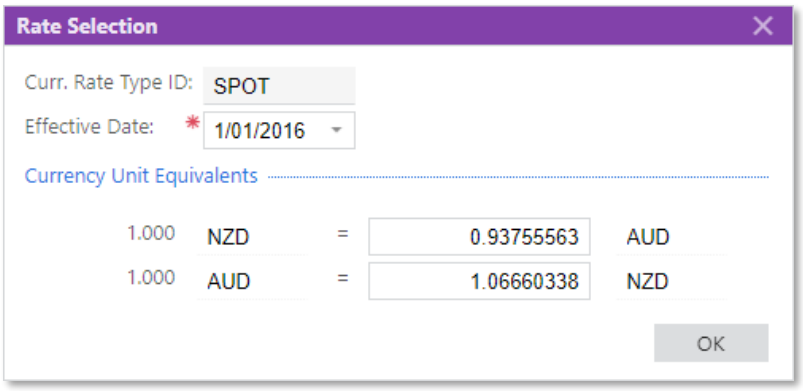
The system selects the project currency in the **Billing Currency** box on the **Summary** tab (**Billing and Allocation Settings** section) of the Projects screen. This currency is used as the currency of the invoices created during the project billing. A user can select any currency as the **Billing Currency** if the project currency is the base currency.

The following table lists possible configurations for common business scenarios.

Business Scenario	Possible Configuration	Base Currency	Project Currency	Billing Currency
A company performs projects for local clients only.	The project currency equals the base currency. All currencies are the same. The configuration is backward-compatible.	NZD	NZD	NZD
A company performs projects for local clients but can occasionally have a project for a foreign client.	The project currency equals the base currency. The billing currency differs from the project currency and the base currency. The configuration is backward-compatible.	NZD	NZD	AUD
A company performs projects for local and foreign clients.	The project currency differs from the base currency. The billing currency always equals the project currency. The configuration is new.	NZD	AUD	AUD only

The **Currency Rate for Budget** (in the Summary area) is the exchange rate that is used to display amounts in the project and base currencies on the **Revenue Budget**, **Cost Budget**, and **Balances** tabs of the Projects screen. By default, this is the exchange rate of the rate type selected in the **Currency Rate Type** box on the **Summary** tab (**Project Properties** section). If this box is cleared, which is the default value, the system uses the default rate type of projects specified in the **PM Rate Type** box (**Default Rate Types** section) on the Currency Management Preferences screen (CM101000).

A user can click the exchange rate value in the **Currency Rate for Budget** box in the Summary area of the Projects screen. Then in the Rate Selection dialog box, which is opened (shown in the following screenshot), the user can override the exchange rate for the project.



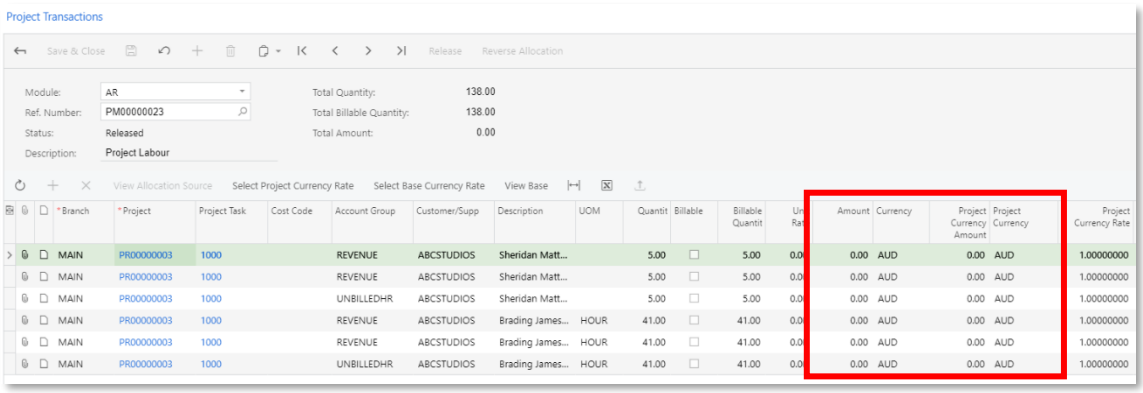
By default, on the Revenue Budget, Cost Budget, and Balances tabs of the Projects screen, the system shows the amounts in the project currency. A user can enter the amounts in the project currency only. If a user clicks the **View Base** button in the **Currency Rate for Budget** box in the Summary area, the system shows the budgeted amounts and balances in the base currency converted based on the rate shown in the **Currency Rate for Budget** box. To show the amounts in the project currency, the user clicks the **View Cury** button in the **Currency Rate for Budget** box in the Summary area.

Only amounts in the Hist. Actual Amount in Base Currency column on the Revenue Budget, Cost Budget, and Balances tabs of the Projects screen are always shown in the base currency.

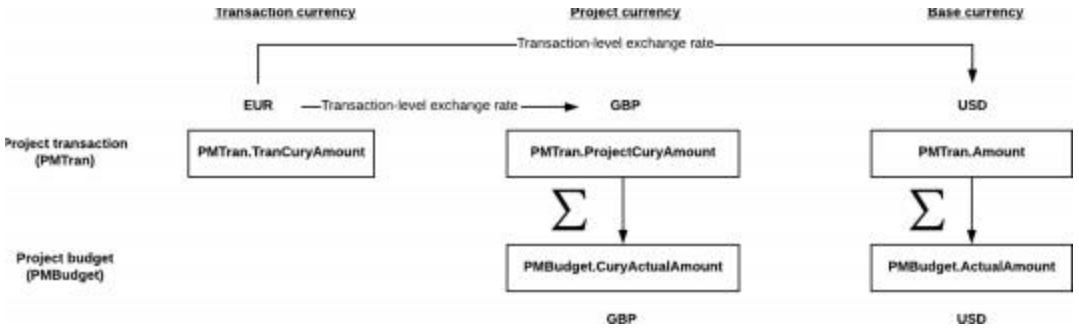
Project Transactions with Multi-Currency Accounting

On the Project Transactions screen (PM304000), a user can create project transactions with the amount in any foreign currency. The system converts the amount of these transactions in the project currency, which is specified in the **Project Currency** box on the Summary tab (Project Properties section) of the Projects screen (PM301000), as shown in the screenshot below.

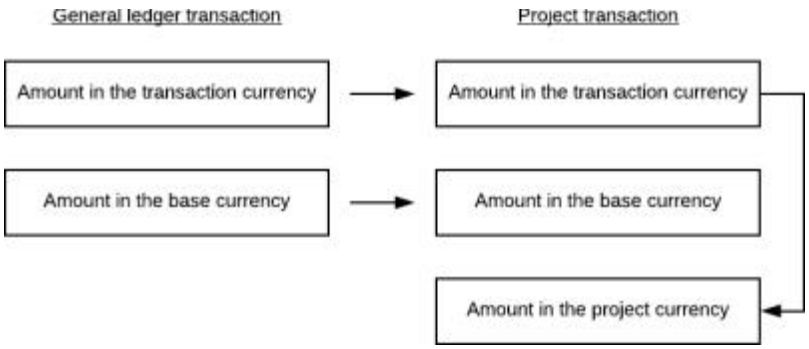
The **Project Currency Rate** of the project transaction is defined by the project-specific rate type selected in the **Currency Rate Type** box on the Summary tab (Project Properties section) of the Projects screen. If the project has no rate type selected, the system uses the default rate type of projects specified in the **PM Rate Type** box (Default Rate Types section) on the Currency Management Preferences screen (CM101000).



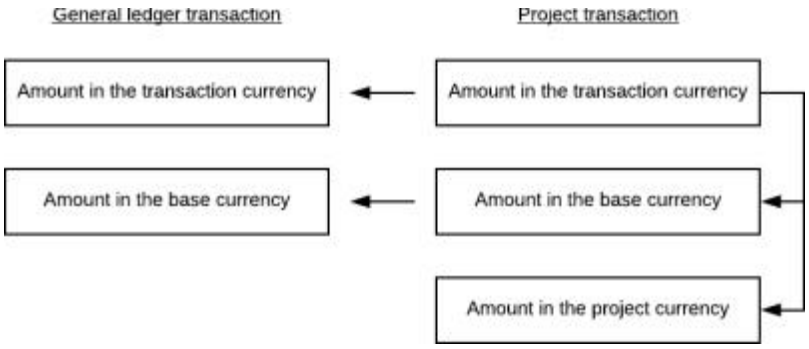
You enter the amount of the project transaction in the transaction currency. The system uses this amount in the transaction currency to calculate the transaction amounts in the project currency and in the base currency. The system also updates the actual amounts of the project budget in the project currency and in the base currency with the corresponding amounts of the project transaction, as shown in the following diagram.



When the system creates a project transaction based on a general ledger transaction, the amount in the transaction currency and the amount in the base currency are copied from the general ledger transaction to the project transaction. The corresponding amount in the project currency of the project transaction is calculated based on the amount in the transaction currency—see the following diagram:



When the system creates a general ledger transaction based on a project transaction, the amount in the transaction currency and the amount in the base currency are copied from the project transaction to the general ledger transaction, as the following diagram illustrates.



Invoices for Projects with Multi-Currency Accounting

During project billing, the system creates pro forma or accounts receivable invoices in the billing currency of the project specified in the **Billing Currency** box on the Summary tab (Billing and Allocation Settings section) of the Projects screen (PM301000).

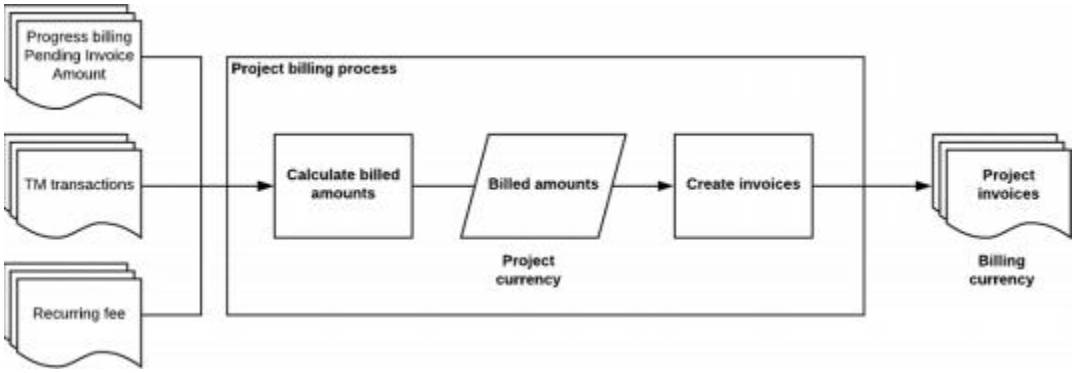
The exchange rate for the invoice is defined by the project-specific rate type selected in the **Currency Rate Type** box on the Summary tab (Project Properties section) of the Projects screen. If the project has no rate type selected, the system uses the default rate type of projects specified in the **PM Rate Type** box (Default Rate Types section) on the Currency Management Preferences screen (CM101000).

A user can override the exchange rate for an invoice if for the customer, the **Enable Rate Override** check box is selected on the General Info tab (Financial Settings section) of the Customers screen (AR303000).

All the invoice amounts can be reviewed in both the invoice currency and the base currency.

Billing Process with Multi-Currency Accounting

During the billing process, the system produces amounts in the project currency. Then the amounts are converted into the billing currency of the project, as shown in the following diagram:



If the `@Price` parameter is used in a time and material step of a billing rule on the Billing Rules screen (PM207000), during the billing process with this billing rule, the system looks for the price in the project currency. If the price in the project currency is not found, the system converts the price from the base currency by using the exchange rate defined by the rate type of the project.

If the `@Rate` parameter is used in a time and material step of a billing rule on the Billing Rules screen, during the billing process with this billing rule, the system retrieves the rate as is for use in the user- defined formulas of the billing rule. On the Billing Rules screen, in formulas of time and material steps of a billing rule, a user can convert an amount retrieved with the `@Rate` parameter by using the `ConvertAmountToCurrency()` function.

The `Report.ConvertAmountToCurrency(fromCuryID, toCuryID, rateType, effectiveDate, value)` function has the following parameters:

- `fromCuryID`: The source currency in which the `@Rate` has been defined
- `toCuryID`: The project currency
- `rateType`: The rate type of the project
- `effectiveDate`: The date on which the exchange rate is effective
- `value`: The amount to be converted

To re-bill an amount in the project currency as is, in the formula of a time and material step of a billing rule on the Billing Rules screen (PM207000), a user can use the following data field: `[PMTran.ProjectCuryAmount]`.

Commitments with Multi-Currency Accounting

The system creates commitments for a project on the Commitments screen (PM306000) in the project currency.

The exchange rate from the document currency to the project currency for the creation of the commitment is defined by the project-specific rate type selected in the **Currency Rate Type** box on the Summary tab (Project Properties section) of the Projects screen (PM301000). If the project has no rate type selected, the system uses the default rate type of projects specified in the **PM Rate Type** box (Default Rate Types section) on the Currency Management Preferences screen (CM101000).

Project Quotes with Multi-Currency Accounting

For a new project quote created on the Project Quotes screen (PM304500), the system fills in the **Currency** box in the Summary area with the business account's currency selected in the **Currency ID** box on the General Info tab (Financial Settings section) of the Customers screen (AR303000). If no currency is defined for the customer, the base currency is selected as the project quote currency.

If a project quote is created based on an opportunity selected on the Opportunities screen (CR304000), the system selects the opportunity currency as the project quote currency.

A user can change the project quote currency if for the customer, the **Enable Currency Override** check box is selected on the General Info tab (Financial Settings section) of the Customers screen.

If the user changes the project quote currency and the project quote is the primary quote of an opportunity, the system changes the opportunity currency accordingly.

For project quotes, the system uses the exchange rate of the default rate type of projects specified in the **PM Rate Type** box (Default Rate Types section) on the Currency Management Preferences screen (CM101000). A user can override the exchange rate for a project quote if for the customer, the **Enable Rate Override** check box is selected on the General Info tab (Financial Settings section) of the Customers screen.

For the estimation lines of a project quote, the system converts the retrieved unit prices and unit costs of the selected inventory items to the project quote currency by using the exchange rate of the project quote.

Although all the project quote amounts can be reviewed in both the project quote currency and the base currency, a user can edit the amounts only in the project quote currency.

When a project is created based on the project quote, the system copies to the project the project quote currency, the exchange rate of the project quote, and the price and cost information from the project quote in the project currency.

Project Budget Forecasts with Multi-Currency Accounting

On the Project Budget Forecast screen (PM209600), all the amounts are shown and entered in the project currency.

ARM Reports

ARM reports of the PM type retrieve amounts in the project currency.

Upgrade Notes

During the upgrade to 2019.1, for every project, the project currency is set to the base currency. The existing budgets, actual balances, and committed balances become values in the base currency and the project currency after the upgrade. The project currency cannot be changed for a project that already has actual balances or commitments.

Breaking Changes

The *Multi-Currency Projects* feature causes the following breaking changes:

- As a result of the upgrade, the project currency of all the projects is set to the base currency.
- The billing currency depends on the project currency instead of the customer currency.
- The amount data fields of the PMTran data access class become the following:
    - PMTran.TranCuryAmount: The amount in the transaction currency
    - PMTran.ProjectCuryAmount: The amount in the project currency
    - PMTran.Amount: The amount in the base currency of the project

- The amount data fields of the PMBudget data access class become the following:
    - PMBudget.CuryActualAmount: The amount in the project currency, which is the sum of the corresponding PMTran.ProjectCuryAmount values
    - PMBudget.ActualAmount: The amount in the base currency, which is the sum of the corresponding PMTran.Amount values
- The PMHistory table has the new BranchID key field. The table now stores actual balances by financial period of the master calendar and by company-specific financial period, which is defined by the branch. Previously, balances were not segregated by branch in this table.
- On the Project Transactions screen (PM304000), if the value of the Quantity, Billable Quantity, or Unit Rate column is changed, the system recalculates the Amount, which previously was not recalculated in this case.
- Project commitments are captured in the project currency instead of the base currency.
- The PMChangeOrderLine.AmountInBaseCury data field has been renamed to PMChangeOrderLine.AmountInProjectCury. On the Commitments tab of the Change Orders screen (PM308000), the corresponding column has been renamed to the Amount in Project Currency (from Amount in Base Currency).
- The contract-based API has been remapped to the Cury data fields.

Quotes

This release introduces a new Project Quotes feature, which provides the following capabilities:

- Ability to use generic inquiries and dashboards to create a sales forecast for projects based on project quotes.
- A simple project quote data entry screen that is similar to the entry screens used for sales orders and invoices.
- Ability to use project templates for the flexible and quick entry of new project quotes.
- A complete workflow for a project quote, which includes its approval, printing, and sending by email. Once agreement has been reached on the terms of the quote, the quote can be converted to a project.
- Ability to utilise the improved mechanism of the labour cost rates table in the quote estimation.
- Integration with CRM sales quotes, which gives users the ability to manage sales quotes and project quotes in a single place.
- Integration with CRM opportunities, which enables users to track the versions of an opportunity by means of different project quotes linked to one opportunity that represents a single deal.
- Ability to bill the project at the prices agreed upon with the client at the quote stage.

The feature makes available the new Project Quotes screen (PM304500), on which users can enter and modify a project quote, and each modification can be printed and sent to the customer for review as many times as it is necessary until an agreement is reached. An optional approval workflow can be enabled for project quotes so that a manager can approve a quote before it is sent to the customer. After the customer agrees to the terms of the quote, the user can convert the winning quote to a project. If the Customer Management feature is enabled on the Enable/Disable Features screen (CS100000), a project quote can be created based on an opportunity on the Opportunities screen

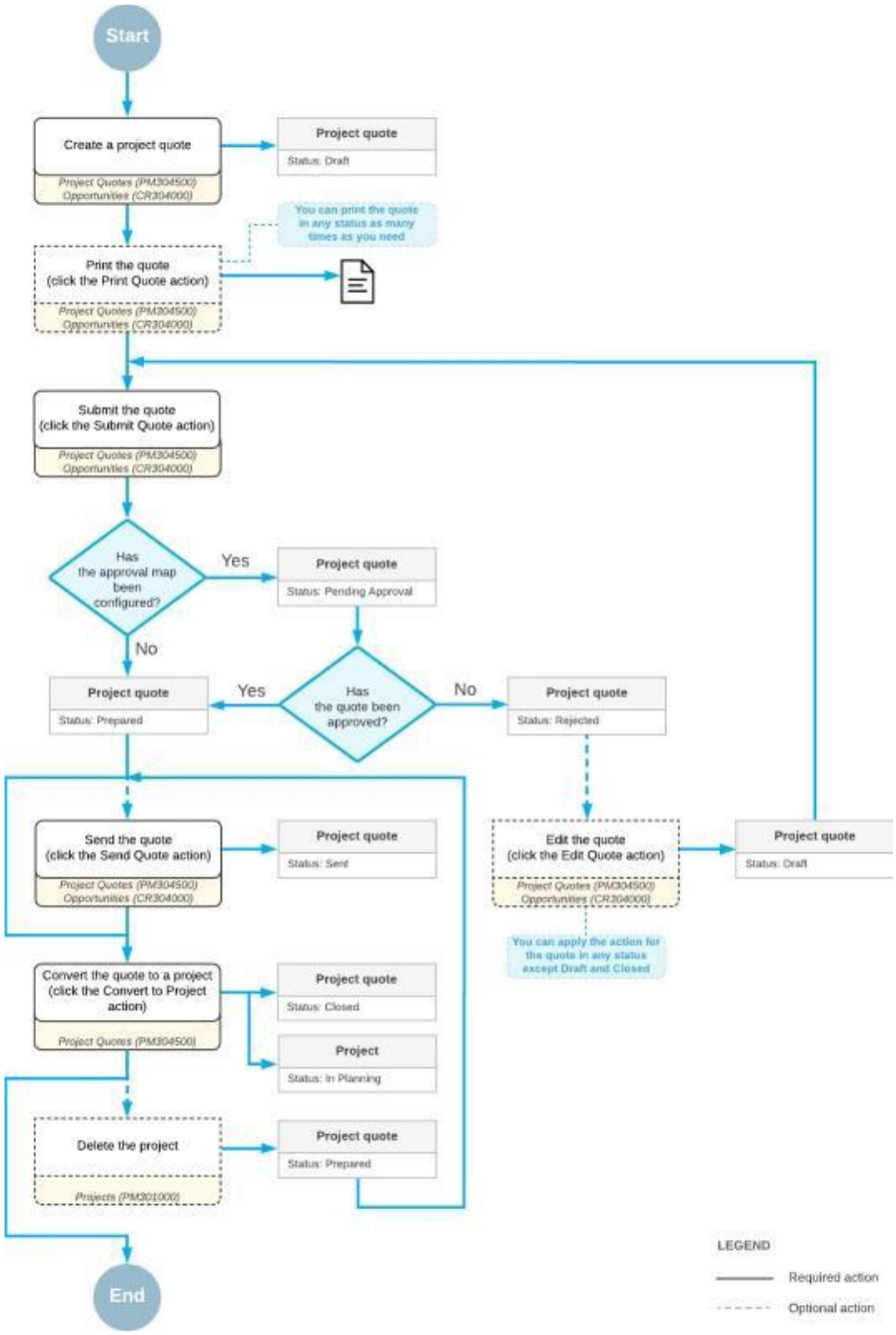
(CR304000). The value of the primary quote in an opportunity is reflected as the opportunity value for sales reporting purposes.

To start using the Project Quotes feature, on the Enable/Disable Features screen, a user enables this feature. The project quote capabilities are described further in the remaining sections of this topic.

Project Quote Workflow

The project quote workflow may include the following stages, which are described in the remaining sections of this topic and shown in the diagram below:

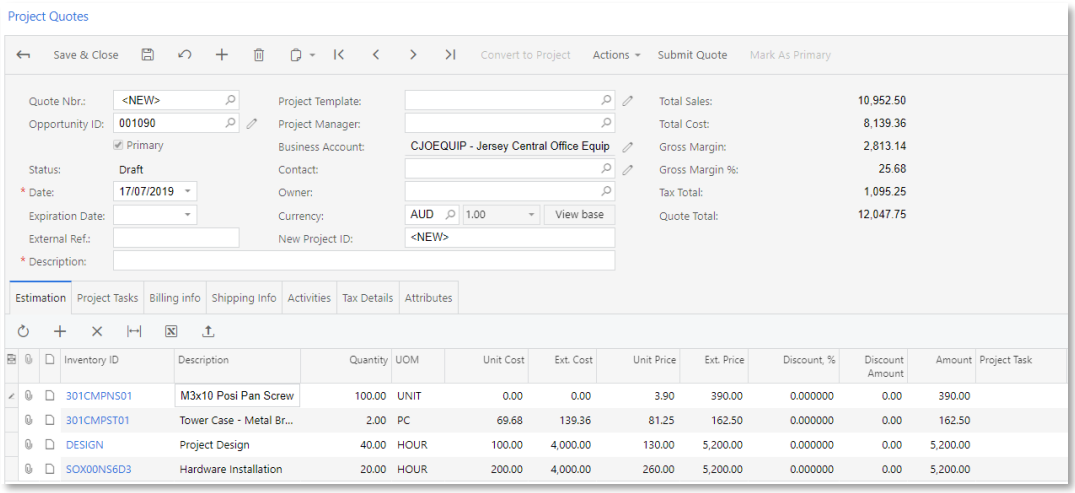
1. Creating a project quote. A user could instead start from an opportunity and create a quote for the opportunity.
2. Submitting the quote.
3. Optionally, approving the quote.
4. Sending the approved quote to the customer for agreement.
5. Changing the quote after negotiations with the customer. A user could instead create a new quote within the opportunity and leave the first quote as it is.
6. Converting the quote to a project.



Project Quote Creation

A user can create a project quote from scratch on the Project Quotes screen (PM304500), as shown in the screenshot below. On the following tabs of the screen, the user specifies the settings of the project quote:

- **Estimation**: Prices, the estimation of labour and material costs, billing rates, or fixed price amounts
- **Project Tasks**: The project tasks that can be preloaded from the project template selected in the Summary area of the screen
- **Billing Information**: Contact, address, and financial details, such as credit terms



On the Project Quotes screen, you can print the selected project quote by clicking **Actions > Print Quote** on the screen toolbar.

A user can also create a project quote based on the selected opportunity on the Opportunities screen (CR304000) by clicking **Create Quote** on the screen toolbar.

Project Quote Approval

A project quote supports the standard MYOB Advanced approval process. The approval map can be configured on the Assignment and Approval Maps screen (EP205500) and then specified in the Quote Approval Map box on the General Settings tab of the Projects Preferences screen (PM101000). The approval notification for project quotes can be specified in the **Quote Pending Approval Notification** field.

The approval process is optional; the configuration of the approval process can be skipped, and a user can create an approved project quote right away.

Creation of a Project Based on a Project Quote

A project quote with the Prepared or Sent status can be converted to a project. To do this, in the Summary area of the Project Quotes (PM304500) screen, a user should specify the following settings for the project quote:

- **Project Template**: The template to be used for the creation of the project
- **New Project ID**: The identifier of the project

On the screen toolbar, the user clicks **Convert to Project** to convert the project quote to a project.

When the system creates a project based on the project quote, to populate the cost budget, the system groups the estimation lines of the project quote by project task, inventory item, cost code, and cost account group. For each group of estimation lines, on the Cost Budget tab of the Projects screen (PM301000), the system creates a cost budget line with the following settings:

- **Project Task**: The project task of the aggregated estimation lines.
- **Inventory ID**: The inventory item of the aggregated estimation lines. Estimation lines without an inventory item specified are aggregated into a cost budget line with the empty item code, which is defined in the Empty Item Code box on the General Settings tab of the Projects Preferences screen (PM101000).
- **Account Group**: The cost account group of the aggregated estimation lines.
- **Original Budgeted Quantity**: The total quantity of the aggregated lines if each of the lines has the same UOM. Otherwise, the quantity is zero.
- **Original Budgeted Amount**: The total extended cost of the aggregated lines.

When the system creates a project based on the project quote, to populate the revenue budget, the system groups the estimation lines of the project quote by the following attributes, depending on the revenue budget level of the project template of the project quote, which is specified in the Revenue Budget Level box on the Summary tab of the Project Templates screen (PM208000):

- **Task**: The estimation lines are aggregated by project task and revenue account group.
- **Task and Item**: The estimation lines are grouped by project task, revenue account group, and inventory item.
- **Task and Cost Code**: The estimation lines are grouped by project task, revenue account group, and cost code.

For each group of estimation lines, on the Revenue Budget tab of the Projects screen, the system creates a revenue budget line with the following settings:

- **Project Task**: The project task of the aggregated estimation lines.
- **Inventory ID**: The inventory item of the aggregated estimation lines. Estimation lines without an inventory item specified are aggregated into a cost budget line with the empty item code, which is defined in the Empty Item Code box on the General Settings tab of the Projects Preferences screen.
- **Account Group**: The revenue account group of the aggregated estimation lines.
- **Original Budgeted Quantity**: The total quantity of the aggregated lines if each of the lines has the same UOM. Otherwise, the quantity is zero.
- **Original Budgeted Amount**: The total amount of the aggregated lines.

When the system creates a project based on the project quote, project tasks and project attributes are copied to the project from the project quote.

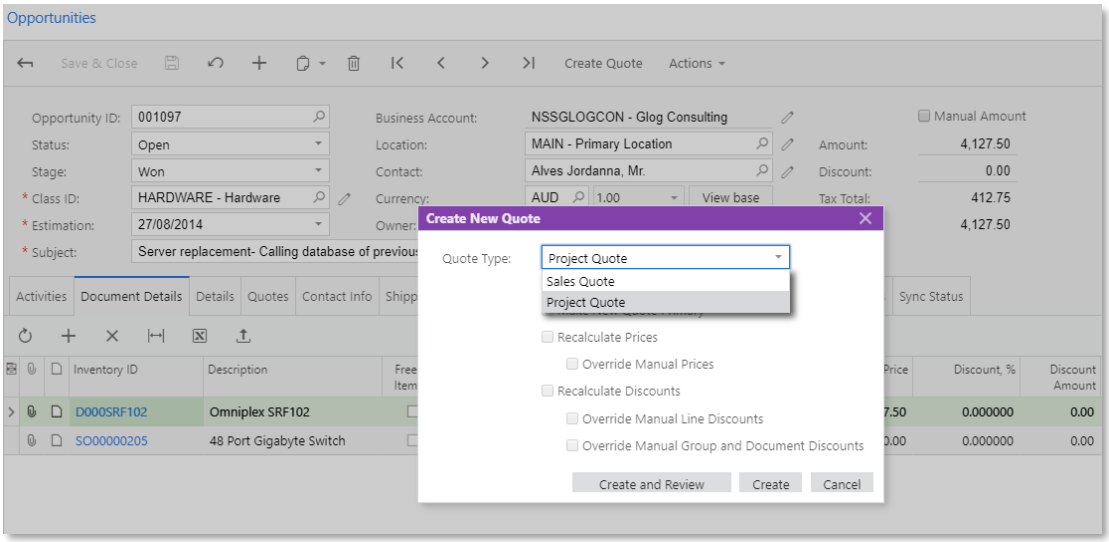
Once a project quote is converted to the project, the quote cannot be modified.

In a project created based on a project quote, the reference to the quote is displayed on the Summary tab of the Projects screen.

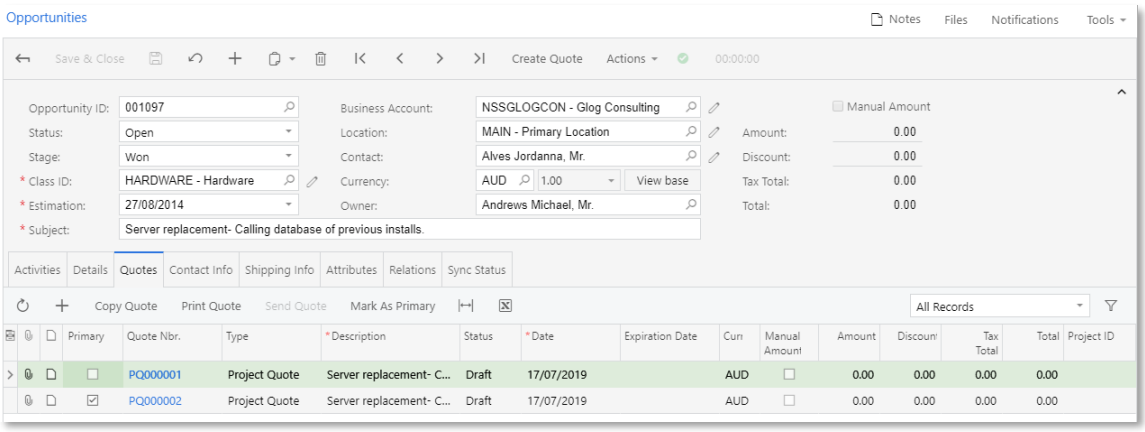
The project template reference is not copied from the project quote to the project, to avoid confusing the user because a project that is created based on a project quote with a project template specified can have a very different structure of project tasks and the project budget than a project that is created directly on the Projects screen based on the same project template.

Integration with Opportunities and Sales Quotes

On the Opportunities screen (CR304000), for the selected opportunity, a user can create a sales quote or a project quote, as shown in the following screenshot.



On the Quotes tab of the Opportunities screen (CR304000), the user can review all the quotes linked to the selected opportunity, as shown in the screenshot below. The primary quote of the opportunity is the quote for which the check box in the **Primary** column is selected. If a project quote is the primary project quote of an opportunity, the project quote reflects the opportunity value. However, the details of the project quote and the actions applicable to the quote are not reflected in the opportunity.

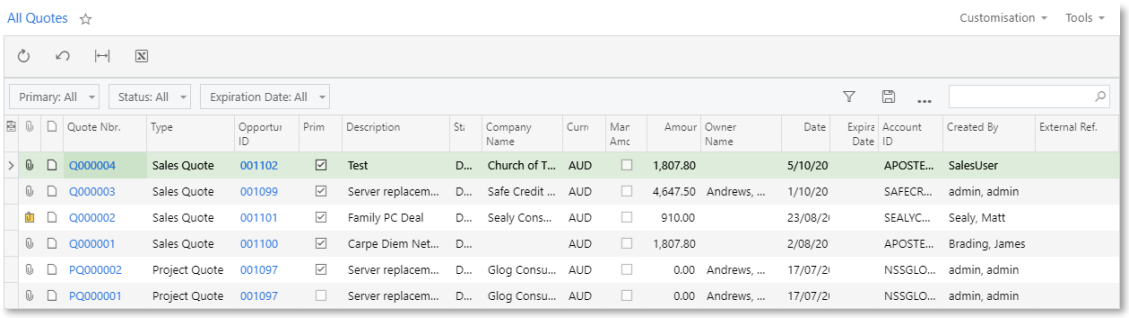


With the linked opportunity and project quote the user can do the following:

- On the Opportunities screen, create a copy of the quote selected on the Quotes tab
- On the Opportunities screen, mark the quote selected on the Quotes tab as primary
- On the Opportunities screen, print the quote selected on the Quotes tab
- On the Opportunities screen, send the quote selected on the Quotes tab, which updates the quote status to Sent
- On the Opportunities screen, make the primary quote available for editing, which updates the status of the quote to Draft

- On the Opportunities screen, submit the primary quote, which updates the status of the quote to Prepared
- On the Project Quotes screen, remove the opportunity with the New or Open status from a project quote if the project quote is not the primary quote for the opportunity

A user can find all the project and sales quotes on the All Quotes screen (PM3045PL), as shown in the following screenshot:



Budget Forecasts

In this release, a new *Budget Forecast* feature has been introduced. The feature makes the new Project Budget Forecast screen (PM209600) available. On this screen, users can enter and modify project budget forecasts and compare these forecasts with the actual project costs and incomes for each financial period.

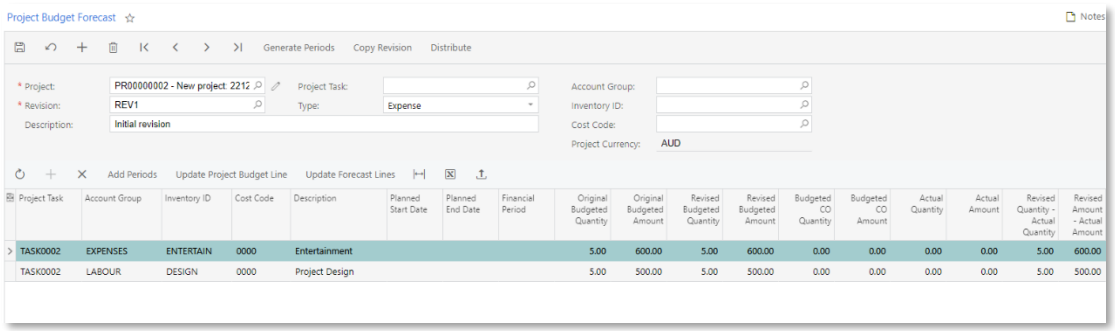
On the screen, users can forecast original and revised budget amounts and quantities for existing project budget lines for financial periods of the master calendar. Each project can have multiple budget forecast revisions. In a forecast revision, a user can distribute amounts and quantities of the project budget among the selected range of financial periods to speed data entry. By using forecast data, users can create generic inquiries and pivot tables.

Before users can start using the budget forecasting functionality, an administrative user enables the Budget Forecast feature on the Enable/Disable Features screen (CS100000).

Creation of the Project Budget Forecast

A user can create a project budget forecast on the Project Budget Forecast screen (PM209600).

For a new project budget forecast, in the Summary area of this screen, the user selects a project and enters an alphanumeric revision identifier of the budget forecast, which must be unique within the project. When a user enters the revision, the system automatically fills in the table with the budget lines of the selected project, as shown in the following screenshot.



In the Summary area, the user can also specify any of the following selection criteria to view in the table only the project budget lines with the selected settings:

- **Project Task**: The applicable project task of the selected project
- **Type**: The account group type of the budget line, which is Expense by default
- **Account Group**: The account group of the budget line
- **Inventory ID**: The applicable stock or non-stock inventory item
- **Cost Code**: The applicable cost code if the Cost Codes feature is enabled on the Enable/Disable Features screen (CS100000)

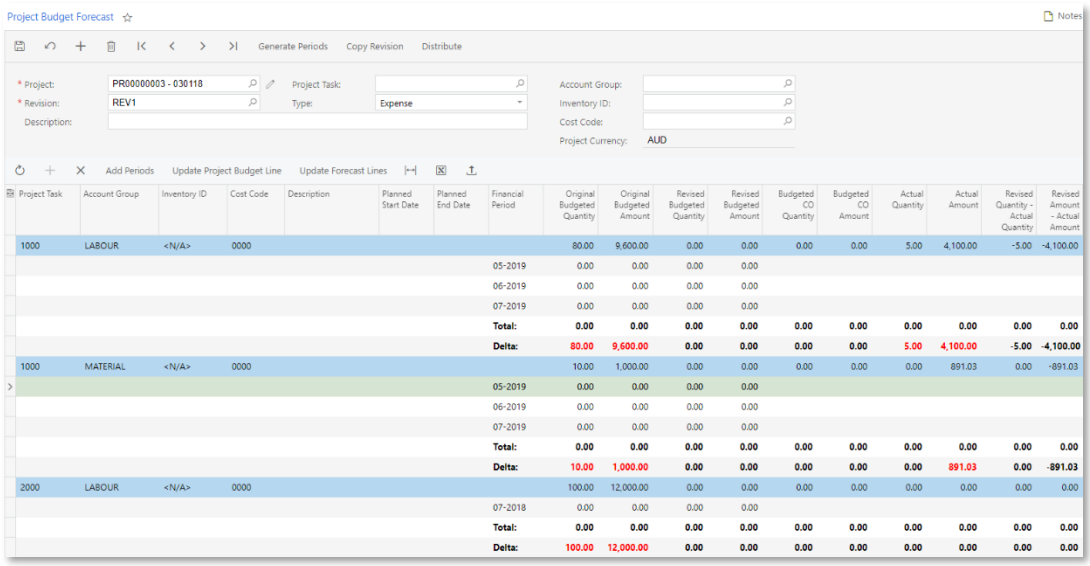
On the Project Budget Forecast screen, a user can also create a new revision of the project budget forecast as a copy of an existing revision of the project budget forecast and modify this copy.

Distribution of Budget Values for Forecast Periods

On the Project Budget Forecast screen (PM209600), a user can add financial periods for project budget lines of the selected forecast revision in one of the following ways:

- Click the project budget line in the table, and on the table toolbar, click Add Periods to add a manually selected range of financial periods for the selected project budget line.
- In the screen toolbar, click Generate Periods to automatically add financial periods for all the project budget lines selected in the table based on the selection criteria specified in the Summary area. For each line, the system adds the range of periods selected as follows:
    - The starting financial period of the range is the earliest of the following periods:
        - The financial period to which the Planned Start Date of the project task on the Project Tasks screen (PM302000) belongs
        - The financial period to which the first actual or change order amount of the budget line was posted
        - The financial period to which the Start Date of the project task on the Tasks tab of the Projects screen (PM301000) belongs, if no planned start date is found for the project task and no actual or change order amount has been posted for the project budget line
        - The financial period to which the Start Date of the project on the Summary tab of the Projects screen belongs, if no start date is found for the project task
    - The ending financial period of the range is the latest of the following periods:
        - The financial period to which the Planned End Date of the project task on the Project Tasks screen belongs
        - The financial period to which the last actual or change order amount of the budget line was posted

The system adds periods for the project budget lines with quantities and amounts of zero, as shown in the following screenshot.

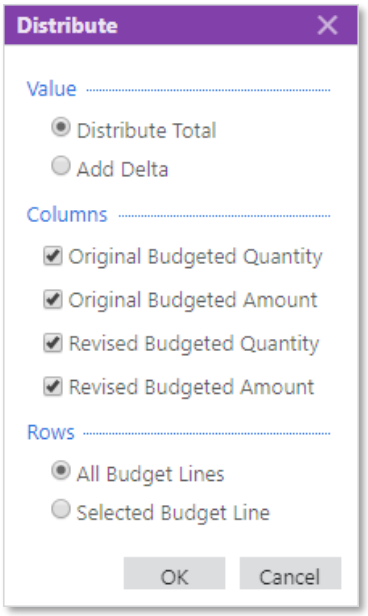


Project Task	Account Group	Inventory ID	Cost Code	Description	Planned Start Date	Planned End Date	Financial Period	Original Budgeted Quantity	Original Budgeted Amount	Revised Budgeted Quantity	Revised Budgeted Amount	Budgeted CO Quantity	Budgeted CO Amount	Actual Quantity	Actual Amount	Revised Quantity - Actual Quantity	Revised Amount - Actual Amount
1000	LABOUR	<N/A>	0000					80.00	9,600.00	0.00	0.00	0.00	0.00	5.00	4,100.00	-5.00	-4,100.00
							05-2019	0.00	0.00	0.00	0.00						
							06-2019	0.00	0.00	0.00	0.00						
							07-2019	0.00	0.00	0.00	0.00						
							Total:	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
							Delta:	**80.00**	**9,600.00**	**0.00**	**0.00**	**0.00**	**0.00**	**5.00**	**4,100.00**	**-5.00**	**-4,100.00**
1000	MATERIAL	<N/A>	0000					10.00	1,000.00	0.00	0.00	0.00	0.00	0.00	891.03	0.00	-891.03
							05-2019	0.00	0.00	0.00	0.00						
							06-2019	0.00	0.00	0.00	0.00						
							07-2019	0.00	0.00	0.00	0.00						
							Total:	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
							Delta:	**10.00**	**1,000.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**891.03**	**0.00**	**-891.03**
2000	LABOUR	<N/A>	0000					100.00	12,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
							07-2018	0.00	0.00	0.00	0.00						
							Total:	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
							Delta:	**100.00**	**12,000.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

A user can specify the **Original Budgeted Quantity**, **Original Budgeted Amount**, **Revised Budgeted Quantity**, and **Revised Budgeted Amount** values for each period line of the project budget line manually.

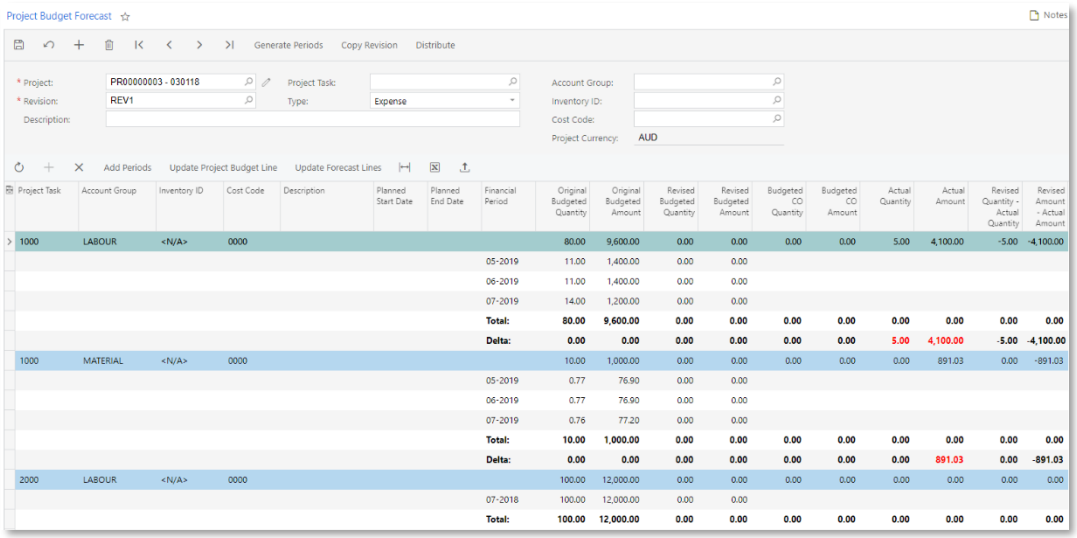
A user can also distribute the quantities and amounts of project budget lines among period lines automatically. On the screen toolbar, the user clicks **Distribute**. In the Distribute dialog box that opens, the user can specify the following settings:

- In the Value section, the user selects one of the following options to define which values the system should distribute:
    - **Distribute Total**: The system distributes the values of the project budget line between all the period lines equally. All the values that have been already specified for the period lines will be overridden.
    - **Add Delta**: The system adds the delta, which is the difference between the values of the project budget line and the total values of the period lines, to all the period lines in proportion to the values that have been already specified for period lines.
- In the Columns section, the user selects the columns in which the system should distribute values.
- In the Rows section, the user specifies whether the system should distribute values for all the project budget lines in the table or for the selected project budget line only.



For each project budget line, in the Original Budgeted Quantity, Original Budgeted Amount, Revised Budgeted Quantity, and Revised Budgeted Amount columns, the system calculates the following values, as shown in the screenshot below:

- **Total**: The total of the period lines
- **Delta**: The difference between the value of the project budget line and the total of the period lines



Project Task	Account Group	Inventory ID	Cost Code	Description	Planned Start Date	Planned End Date	Financial Period	Original Budgeted Quantity	Original Budgeted Amount	Revised Budgeted Quantity	Revised Budgeted Amount	Budgeted CO Quantity	Budgeted CO Amount	Actual Quantity	Actual Amount	Revised Quantity - Actual Quantity	Revised Amount - Actual Amount
1000	LABOUR	<N/A>	0000					80.00	9,600.00	0.00	0.00	0.00	0.00	5.00	4,100.00	-5.00	-4,100.00
							05-2019	11.00	1,400.00	0.00	0.00						
							06-2019	11.00	1,400.00	0.00	0.00						
							07-2019	14.00	1,200.00	0.00	0.00						
							Total:	**80.00**	**9,600.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
							Delta:	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**5.00**	**4,100.00**	**-5.00**	**-4,100.00**
1000	MATERIAL	<N/A>	0000					10.00	1,000.00	0.00	0.00	0.00	0.00	0.00	891.03	0.00	-891.03
							05-2019	0.77	76.90	0.00	0.00						
							06-2019	0.77	76.90	0.00	0.00						
							07-2019	0.76	77.20	0.00	0.00						
							Total:	**10.00**	**1,000.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
							Delta:	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**891.03**	**0.00**	**-891.03**
2000	LABOUR	<N/A>	0000					100.00	12,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
							07-2018	100.00	12,000.00	0.00	0.00						
							Total:	**100.00**	**12,000.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Integration Between Forecasts and Projects

From the Projects screen (PM301000), a user can navigate to the last modified revision of the project budget forecast on the Project Budget Forecast screen (PM209600) by clicking **Inquiries** > **Project Budget Forecast** on the screen toolbar. If the project has no budget forecast, a new forecast revision is created for the project.

The user can click any project budget line and then click **Update Forecast Lines** on the table toolbar to update the selected project budget line of the forecast revision. For this selected line, the system adds the financial periods to which actual values or change orders values have been posted for the project budget line and that have been missed in the forecast revision.

On the table toolbar of the Project Budget Forecast screen, a user can also click **Update Project Budget Lines** to update the values of the project budget lines on the Projects screen with the corresponding values of the project budget lines of the selected forecast revision. The original values of the project budget can be updated if the project budget is not locked. The revised values of the project budget can be updated if the change order workflow is disabled for the project.

Upgrade Notes

After the upgrade to 2019.1, generic inquiries and reports that compare budget and actual values by financial period should be modified to use the data from the `PMForecastDetail` table instead of the `PMProjectStatus` table, because the upgrade procedure moves financial period-specific data from the `PMProjectStatus` table to `PMForecastDetail` table.

After the upgrade to 2019.1, on the Validate Project Balances screen (PM504000), a user needs to run the validation process with the **Recalculate Change Orders** check box selected.

Company-Specific Financial Periods

In this release, companies within the same tenant can have different fiscal year-end dates. With this functionality, users can accelerate implementation, run consolidated operational reports at any time, facilitate the preparation of consolidated financial statements, and simplify maintenance for companies that share suppliers, stock items, and employees. The company-specific periods are defined at the branch level.

To provide the ability to maintain different financial calendars, the *Multiple Calendars Support* feature should be enabled on the Enable/Disable Features screen (CS100000). Then users will be able to configure companies with different fiscal year-end dates within one tenant. The feature can be enabled only when the *Centralised Period Management* feature is disabled.

For more information about the feature, see "Finance: Support for Different Financial Calendars" in the User Guide.

Impact of the Multiple Calendars Support Feature on Project Accounting

On the Project Transactions screen (PM304000), the financial period is company-specific and defined based on the transaction branch and the transaction date.

`PMTran.TranPeriodID` now stores the ID of the master financial period. Also `PMTran.TranPeriodID` depends on `PMTran.BranchID` and `PMTran.FinPeriodID` instead of `PMTran.Date`.

On the Pro Forma Invoices screen (PM307000) and the Invoices and Memos screen (AR301000), for the invoices created for a project, the financial period is defined based on the originating branch of the invoice.

On the Project Budget Forecast screen (PM209600), the system uses the master calendar to retrieve the list of financial periods.

The `PMHistory` table has the new `BranchID` key field. The table now stores actual balances by financial period of the master calendar and by company-specific financial period, which is defined by the branch. Previously, balances were not segregated by branch in this table. The `Tran*` columns of the `PMHistory` table contain values for master calendar financial periods. The `Fin*` columns of the table contain values for company-specific financial periods based on the `PMTran.BranchID` and `PMTran.FinPeriodID` data.

The start period and end period parameters of the data source of ARM reports of the *PM* type are considered as financial periods of the master calendar.

The ARM engine uses the left join clause of `PMHistory` and `PMBudget` with the following parameters: project, project task, inventory item, cost code, and account group. The branch is not included in the list of clause parameters. Therefore, in the Project History Details report (CS600010), data from the `PMBudget` table is repeated for each branch used in the `PMHistory` table.

Upgrade Notes

During the upgrade to version 2019.1, the values of `TranPeriodID` of the `PMTran` table are replaced with the values of `FinPeriodID`. Also, the new `BranchID` key field is added to the `PMHistory` table.

After the upgrade, the data in the `PMHistory` table needs to be rebuilt. To do so, on the Validate Project Balances screen (PM504000), the user needs to select projects for which the data has to be rebuilt and run the process with all the optional parameters cleared in the Summary area.

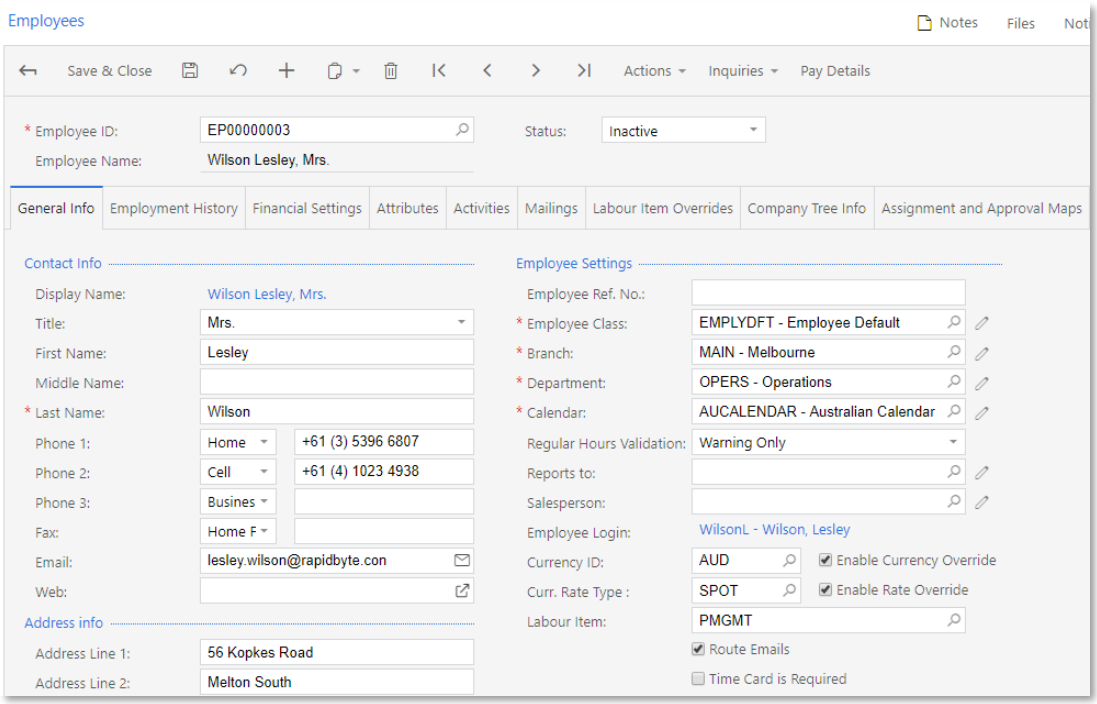
Labour Cost Rates

A new Labour Cost Rates screen (PM209900) has been introduced to provide a way to define labour cost rates specific to different parameters, including the employee, labour item, project, project task, and rate type. The labour cost rates feature provides the following advantages:

- Visibility and maintenance of all the applicable labour cost rates on a single screen.
- Simple time entry because the system provides the retrieval of labour items and labour cost rates.
- Opportunity to select a labour item in a time card line.

Migration of Labour Costs

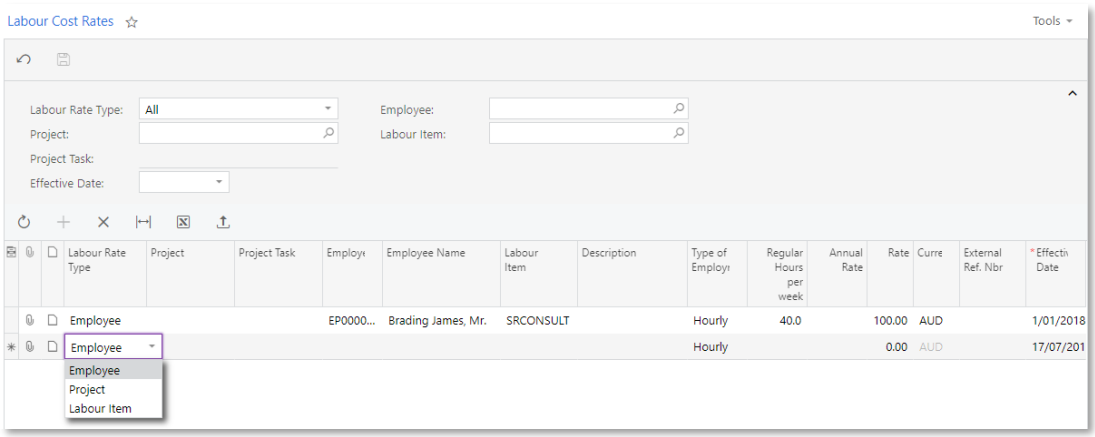
In previous versions of MYOB Advanced, labour costs were defined at the employee level: On the General Info tab of the Employees screen (EP203000), a user can associate the default labour item with the employee, as shown in the following screenshot.



In the default table on the Employee Costs tab of the Employees screen, a user could define the employee's cost, and in the Overrides table, the user could override the

currently effective cost for a particular project and project task (see the following screenshot). In this release, the tab has been deleted.

During the upgrade process, if an employee has the default labour item specified on the General Info tab of the Employees screen and some costs defined on the Employee Costs tab of this screen, the system copies each cost with the related settings to the Labour Cost Rates screen (PM209900), including the labour item, the employee, the effective date, and the specific project and project task for which the cost has been overridden.



Creation of Labour Cost Rates

On the Labour Cost Rates screen (PM209900), a user can view and edit the existing labour cost rates or create labour cost rates of the following types:

- Labour Item: The labour item
- Employee: The employee and optionally the labour item
- Project: The project and optionally the project task, employee, and labour item.

For each labour cost rate, the user specifies the effective date. Among multiple labour cost rates with the same settings, the system uses the rate with the actual effective date, that is, with the closest effective date that precedes the current date. A user can also create a labour cost rate with the same settings as an existing labour cost rate but with the effective date later than the latest effective date of the existing labour cost rate.

Retrieval of Labour Cost Rates

When a user creates a time card on the Employee Time Card screen (EP305000), for each line, the user selects the employee, project, project task, labour item and date.

For each time card line, the system retrieves the cost rate for the specified employee, project, project task, labour item and date. Among labour cost rates of the Project, Employee, and Labour Item rate types, the system selects the most specific existing labour cost rate that matches all the settings specified in the time card line. The following list shows the sets of settings of the labour cost rate, from the most specific to the least specific:

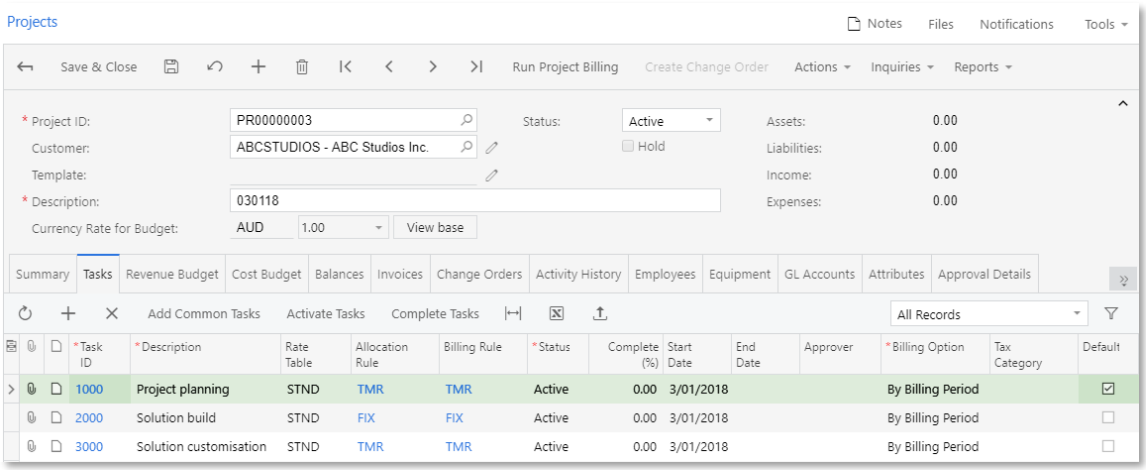
- The Project rate type, project, project task, employee, labour item, and effective date
- The Project rate type, project, project task, employee, and effective date
- The Project rate type, project, project task, labour item, and effective date
- The Project rate type, project, project task, and effective date

- The Project rate type, project, employee, labour item, and effective date
- The Project rate type, project, employee, and effective date
- The Project rate type, project, labour item, and effective date
- The Project rate type, project, and effective date
- The Employee rate type, employee, labour item, and effective date
- The Employee rate type, employee, and effective date
- The Labour Item rate type, labour item, and effective date

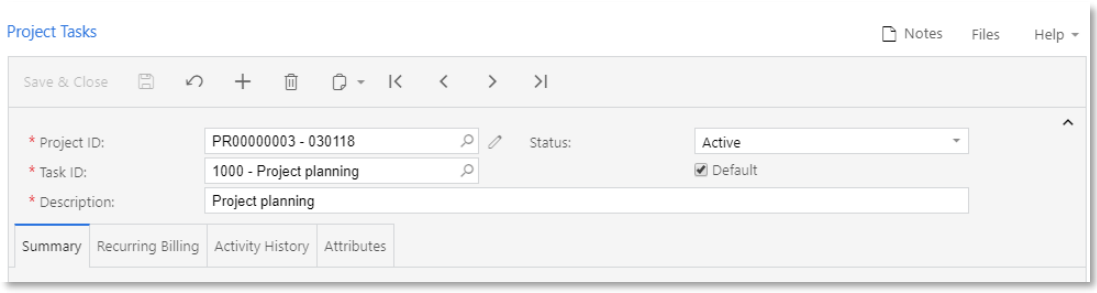
Default Project Task

A selected project task can now be marked as the default task. On the data entry screens that support the selection of a project, the default project task is automatically populated when a user selects a project.

For a project with the Active or In Planning status, a user can select a task to be the default one. To do this, on the Tasks tab of the Projects screen (PM301000), the user selects the check box in the **Default** column for the task.



A user can also mark a project task as the default by selecting the **Default** check box in the Summary area of the Project Tasks screen (PM302000), as shown in the following screenshot.



Similarly, a user can mark a project template task as the default task of the project template on the Tasks tab of the Project Templates screen (PM208000) or on the Summary tab of the Project Template Tasks screen (PM208010).

Project-Centred Entry

In this release, project-centred entry has been implemented on the Purchase Orders (PO301000) and Bills and Adjustments (AP301000) screens.

In the table on the Document Details tab of these screens, a user can move the project and project task columns to the top-left position in the grid and start the data entry from these columns. If a user changes or clears the inventory item, account, subaccount, or warehouse in a document line, the system does not change the project, project task, and cost code in the document line.

If the account in a document line does not belong to an account group, an error message is shown to the user, but the system does not change the project, project task, and cost code in the document line.

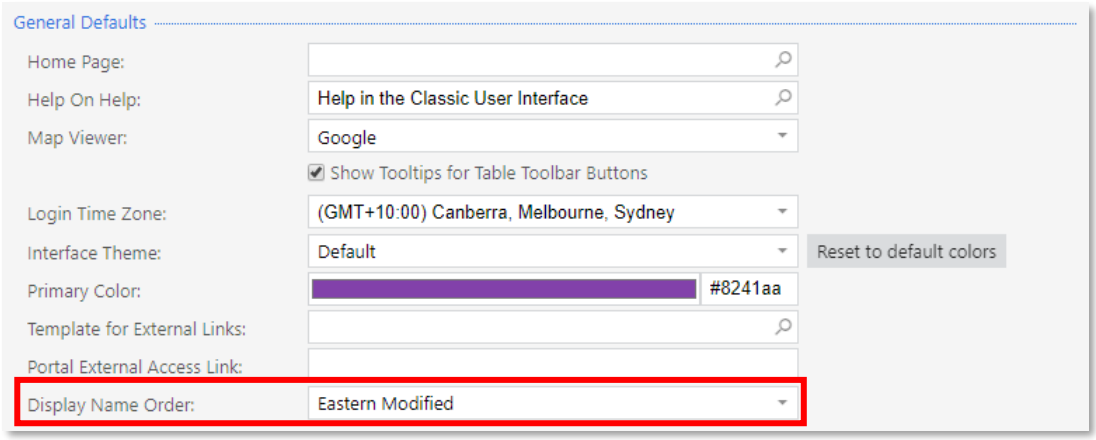
Customer Management

Display of Personal Names and Contact Information

The following improvements have been introduced to allow organisations to control the way personal names and contact information are displayed throughout the system.

Display Name Order

The new **Display Name Order** setting on the Site Preferences screen (SM200505) can be used to specify which name order is to be used for displaying the personal names of all contacts, employees, and users. Name order is the order in which the parts of a person's name (first name, middle name, and last name) are displayed.



The following options are available for selection:

- **Eastern Modified**: The name order used in previous versions of MYOB Advanced. After an upgrade to 2019.1.0, this option will be selected by default, which will preserve the original order.
- **Western**: The name order in which the first name is followed by the last name (for example, John Smith). This option will be selected by default for a newly installed instance of MYOB Advanced 2019.1.0.
- **Eastern**: The name order in which the last name is followed by the first name, separated from it by a comma (for example, Smith, John).
- **Eastern with Title and Middle Name**: The name order that consists of the title, the last name, a comma, and then the first name and the middle name (for example, Mr. Smith, John Anthony).

Inherited Settings

When a record of a particular type is created based on a record of a different type (for instance, when a business account is created based on a lead), the basic settings of the resulting record are now correctly inherited from the corresponding settings of the source record (for example, the **Business Account Name** of the new business account is inherited from the **Company Name** of the lead).

Consistent Labels

To maintain consistency throughout the system, similar elements on different screens, such as the **Business Name** and **Company Name** fields, have been given the same label. (In this example, both fields are now labelled **Company Name**.)

Compliance Tools for General Data Protection Regulation

Because MYOB Advanced holds the personal data of individuals, it should be able to comply with the requirements of the General Data Protection Regulation (GDPR), a new European Union (EU) data privacy law that came into effect on 25 May 2018. This release provides GDPR compliance tools that simplify the handling of personal data and give users the ability to protect personal data and restrict its processing, if needed.

Information on how companies in Australia and New Zealand can comply with the GDPR is available online:

- Office of the Australian Information Commissioner
- Office of the Privacy Commissioner

With GDPR compliance tools, users can:

- Track in the system whether the consent of individuals for the processing of personal data has been obtained or recalled
- Restrict the processing of personal data for particular individuals
- Erase and restore personal data
- Audit who restricted the processing of personal data or erased personal data in the system, when the event occurred, and what data was restricted

For more information about GDPR compliance tools in MYOB Advanced, see Compliance Tools for General Data Protection Regulation.

Note: GDPR features are not compatible with the Payroll module—see page 104.

Availability of GDPR Compliance Tools

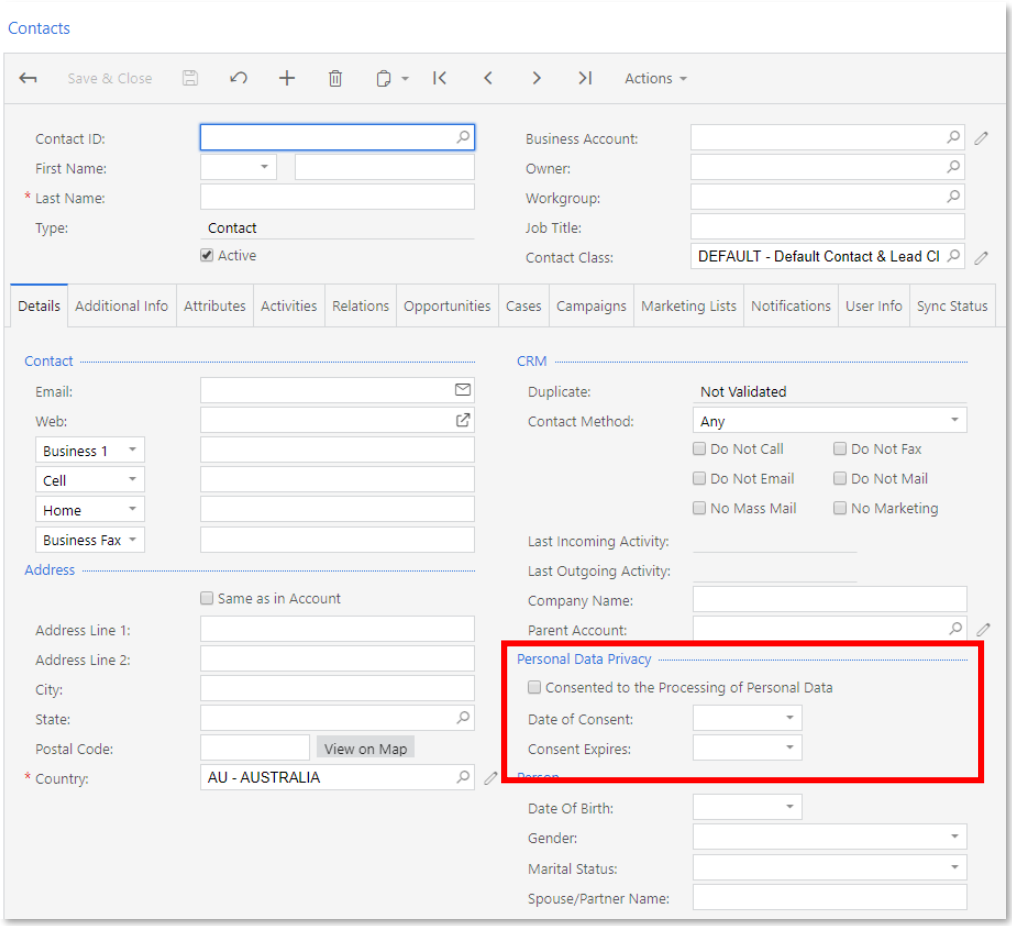
GDPR compliance tools become available in the system if the GDPR Compliance Tools feature (in the Monitoring & Automation group of features) is enabled on the Enable/Disable Features screen (CS100000).

Consent Settings

The Personal Data Privacy section has been added to the following screens: Leads (CR301000), Contacts (CR302000), Business Accounts (CR303000), Customers (AR303000), Suppliers (AP303000), and Opportunities (CR304000). This section includes the following settings (shown in the screenshot below):

- **Consented to the Processing of Personal Data**: A check box that indicates (if selected) that the respective individual has given his or her consent for the processing of the person's personal data. The check box is cleared by default.
- **Date of Consent**: The date when the individual gave consent to the processing of his or her personal data. This field is available if the **Consented to the Processing of Personal Data** check box is selected, and the current business date is specified in it by default.
- **Consent Expires**: The date when the individual's consent is to be revoked. If this box is empty, the system considers the individual's consent to be perpetual.

These settings can be mass-updated for leads, contacts, and business accounts through the Update Leads (CR503020), Update Contacts (CR503021), and Update Business Accounts (CR503320) screens.



Affected Entities

In MYOB Advanced, GDPR compliance tools affect:

- Business accounts, including customers, suppliers, and prospects
- Documents associated with business accounts, such as sales orders, invoices, and purchase orders
- Contacts
- Leads
- Employees
- Opportunities

Also, a user can mark a user-defined attribute as containing personal data by selecting the **Contains Personal Data** check box on the Attributes screen (CS205000); the values of this attribute will then be treated by the system as personal data.

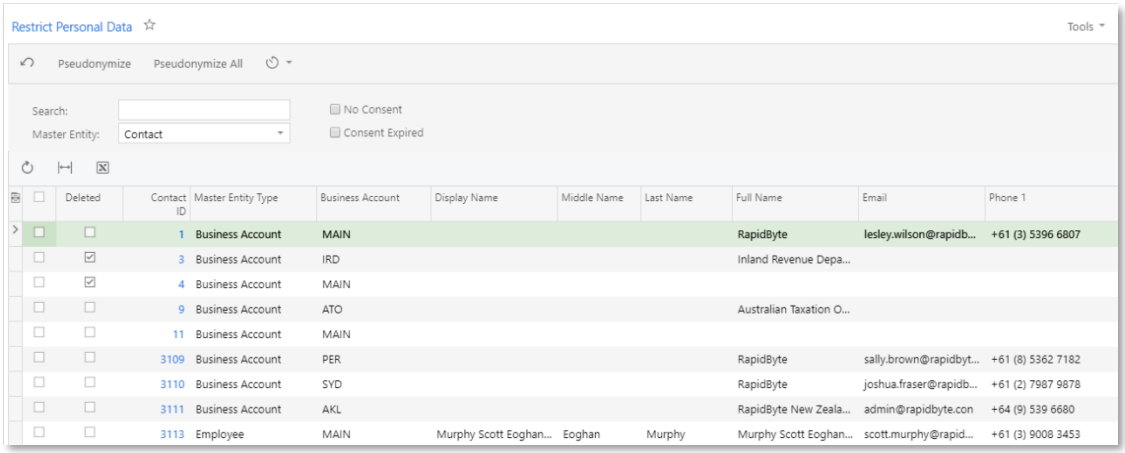
Data Privacy Controller Role

The Data Privacy Controller role is now available. This predefined role has View Only access to all screens that contain personal data. Also, it is the only role that has access (of the Delete type, which means that the role has complete access) to the Restrict Personal Data (GD102010), Erase Personal Data (GD102020), Restricted Personal Data (GD102030),

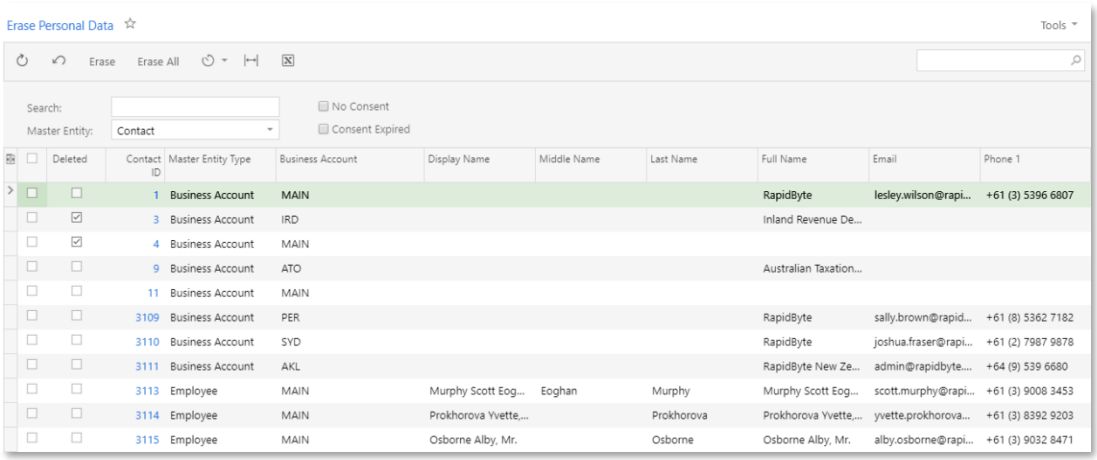
and Privacy Tools Audit (GD101010) screens. These screens are located in the System Management workspace under the Privacy Tools category.

Restriction, Deletion, and Restoration of Personal Data

A user with the Data Privacy Controller role can use the new Restrict Personal Data screen (GD102010) to restrict the processing of personal data for individuals whose consent has expired or has been revoked. On the main toolbar of this screen, the **Pseudonymise** and **Pseudonymise All** actions are available. These actions obfuscate the personal data contained in the selected records (that is, those records in the table for which you have selected the unlabelled check box) or in all listed records, respectively, and make this data unavailable for further processing; however, this data remains stored in the database. Records with pseudonymised personal data are not shown on generic inquiry screens.



The Erase Personal Data screen (GD102020) lets a user with the Data Privacy Controller role permanently delete personal data from the database.



If the Scheduled Processing feature is enabled on the Enable/Disable Features screen (CS100000), automation schedules can be set up for the restriction or deletion of personal data.

On the Restricted Personal Data screen (GD102030), a user with the Data Privacy Controller role can view, restore, or erase restricted records.

On the Privacy Tools Audit screen (GD101010), a user with the Data Privacy Controller role can monitor the history of record changes, track who restricted the processing of

personal data or erased personal data in the system, when this user restricted processing or erased personal data, and what data was restricted.

Custom Fields with Personal Data

Any custom fields will be treated by the system as fields that contain personal data if all of the following conditions are met:

- PXPersonalDataTable is specified for the customised DAC or cache extension.
- The PXPersonalDataField attribute is appended to the corresponding fields.
- The pseudonymizationStatus class is declared, with PXPseudonymizationStatusField specified in it.

Important: GDPR and the Payroll Module

GDPR features are not compatible with the Payroll functions in the People suite. If GDPR features are in use, **these features must not be enabled for any employee who is included in the Payroll module**.

If the functions on the Restrict Personal Data screen are used on the data for an employee who has been added to the Payroll module, then the payroll functions will not work for that employee.

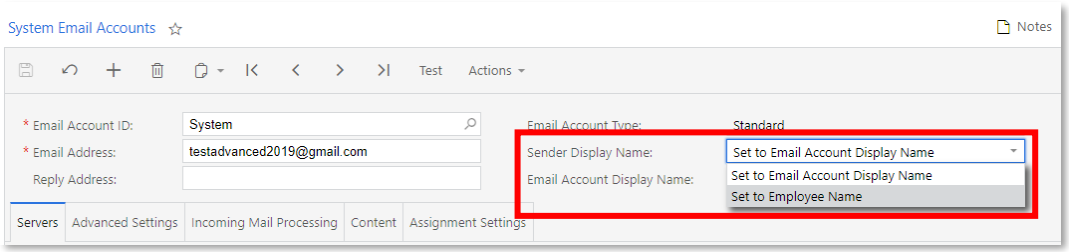
If the functions on the Erase Personal Data screen are used on the data for an employee who has been added to the Payroll module, that employee's Payroll module data will be lost and will not be recoverable.

Information About the Email Sender

In previous versions of MYOB Advanced, if a user sent an email from a system email account, the header of the email included the following information about the email sender:

- The display name of the employee who initiated the sending of the email
- The email address of the system email account enclosed in angle brackets

In this release, the **Sender Display Name** box has been added on the System Email Accounts screen (SM204002), as shown in the following screenshot. For the system email account, the option selected in this box determines the display name to be used in an email sent from this account.



One of the following options can be selected in this box:

- **Set to Email Account Display Name**: Makes the Email Account Display Name box on this screen available for editing. The sender information in the header of a new email sent from the system email account will include the display name of the system email account specified in the **Email Account Display Name box** (or the identifier of the system email account specified in the **Email Account ID** box if the

Email Account Display Name box is empty), followed by the email address of the system email account enclosed in angle brackets. In a new system email account, this option is selected by default, but this setting can be modified at any time.

- **Set to Employee Name**: The sender information in the header of a new email sent from the system email account will include the display name of the employee who initiated the sending of the email (or the identifier of the system email account specified in the **Email Account ID** box if the email has been generated automatically—that is, for any automatic notification), followed by the email address of the system email account enclosed in angle brackets. During the upgrade of MYOB Advanced to 2019.1, the system automatically inserts this option into the **Sender Display Name** box for all existing system email accounts, but an administrator can modify this setting as needed.

Improved Incoming Mail Processing

In this release, the automatic creation of cases during the processing of incoming emails has been improved. In previous versions, each new case that the system created based on a processed email could be associated with only the contact whose email address matched the sender's email address, if such a contact existed in MYOB Advanced. Now new cases can also be associated with business accounts of the Customer type.

When the system processes an incoming email, if the **Create New Case** check box is selected on the Incoming Mail Processing tab of the System Email Accounts screen (SM204002), the system searches the database for a customer business account with an email address that matches the sender's email address. If no such business account exists in the database, the system behaves as it did in previous versions. If such a business account exists, the system associates it with the newly created case; the case also becomes associated with a contact related to the business account if such a contact exists and the contact's email address also matches the sender's email address.

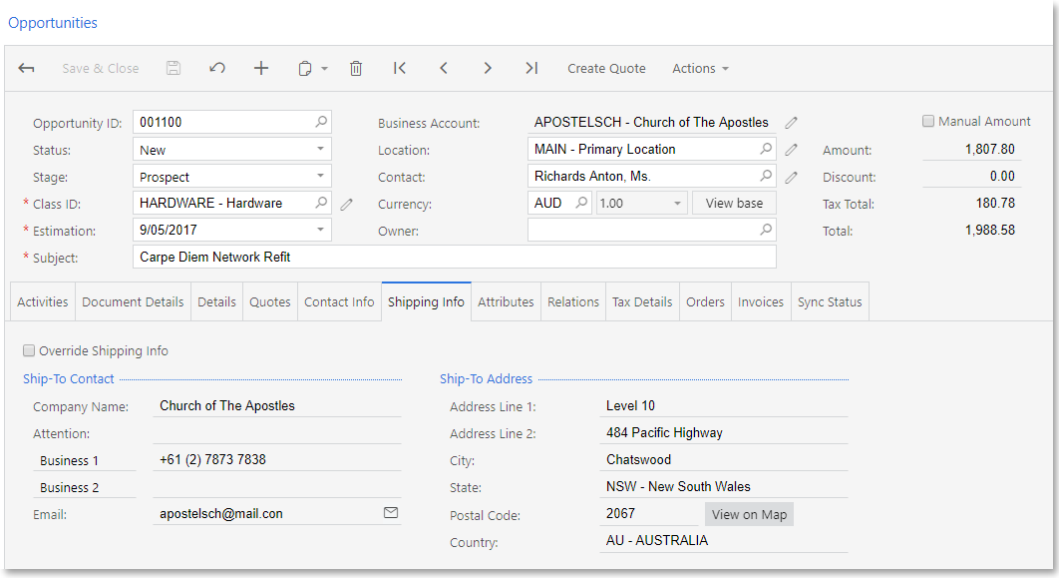
For more information about the processing of incoming emails, see “Incoming Mail Processing” in the User Guide.

Shipping Information in Opportunities

As of this release, shipping information can be specified for an opportunity. This information is then transferred to any sales orders, invoices, and quotes created from the opportunity.

The Shipping Info tab has been added to the Opportunities (CR304000), Sales Quotes (CR304500), and Project Quotes (PM304500) screens. When a user creates an opportunity on the Opportunities screen, the system checks the availability of the following information and populates the Shipping Info tab (shown in the screenshot below) with the first data it finds, in the specified order of priority:

1. The location specified for the opportunity
2. The default location of the specified business account
3. The main contact information and address of the specified business account
4. The contact information and address of the specified contact
5. The contact information specified on the Contact Info tab



If the **Override Shipping Info** check box on the Shipping Info tab is selected, this indicates that the shipping information specified on this tab can be modified or already differs from that of the business account selected in the Summary area of this screen. If the **Override Shipping Info** check box is selected and a user changes the business account, the system brings up a dialog box with a question whether the user wants the specified shipping information to be replaced with the information of the new business account.

If a primary quote exists for an opportunity, the shipping address specified for the quote is synchronised with the shipping information specified for the opportunity.

For more information about shipping information in opportunities, see “Shipping Information in Opportunities” in the User Guide.

Improved Assignment and Approval Maps

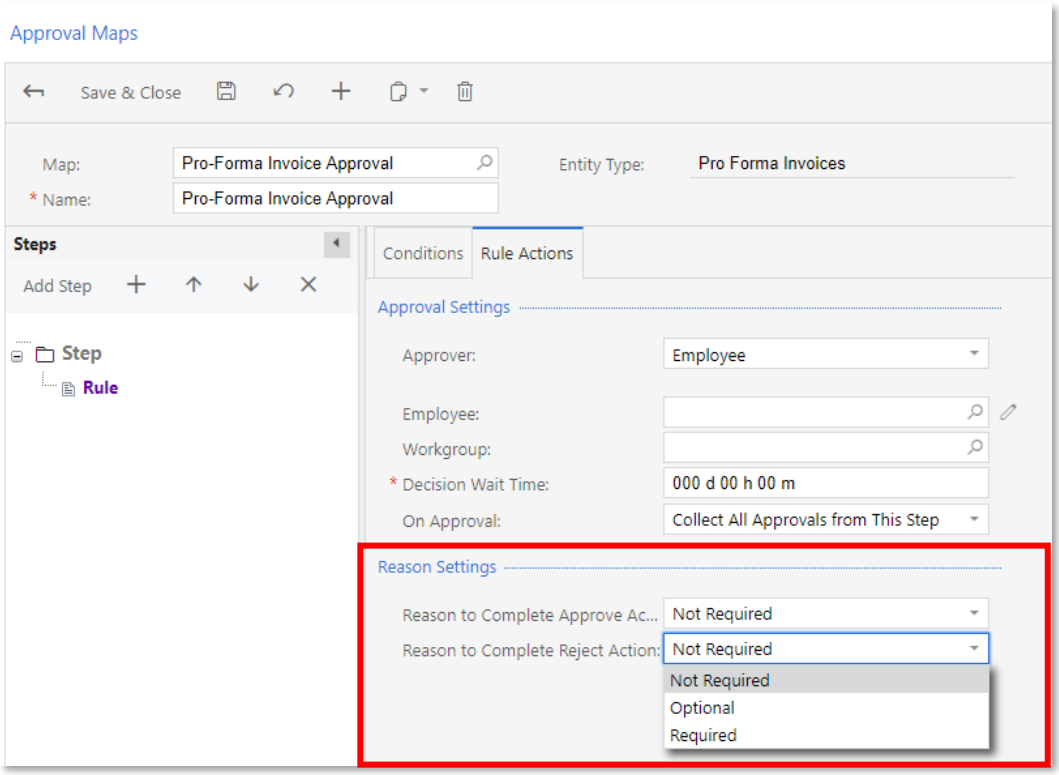
Assignment and approval maps have been significantly improved in this release.

Note: Approval maps are available in the system only if the Approval Workflow feature is enabled on the Enable/Disable Features screen (CS100000).

Entering a Reason for Document Approval or Rejection

On the Rule Actions tab of the Approval Maps screen (EP205015), the Reason Settings group of elements have been added, which includes the following settings (shown in the following screenshot):

- **Reason to Complete Approve Action**: Defines whether an approver would have to enter a comment each time he or she approves a document of the specified type.
- **Reason to Complete Reject Action**: Defines whether an approver would have to enter a comment each time he or she rejects a document of the specified type.



The Reason Settings group of elements is available only for approval maps created for change orders, employee time cards, equipment time cards, expense claims, pro forma invoices, project quotes, or sales quotes.

For each of these settings, the following options are available:

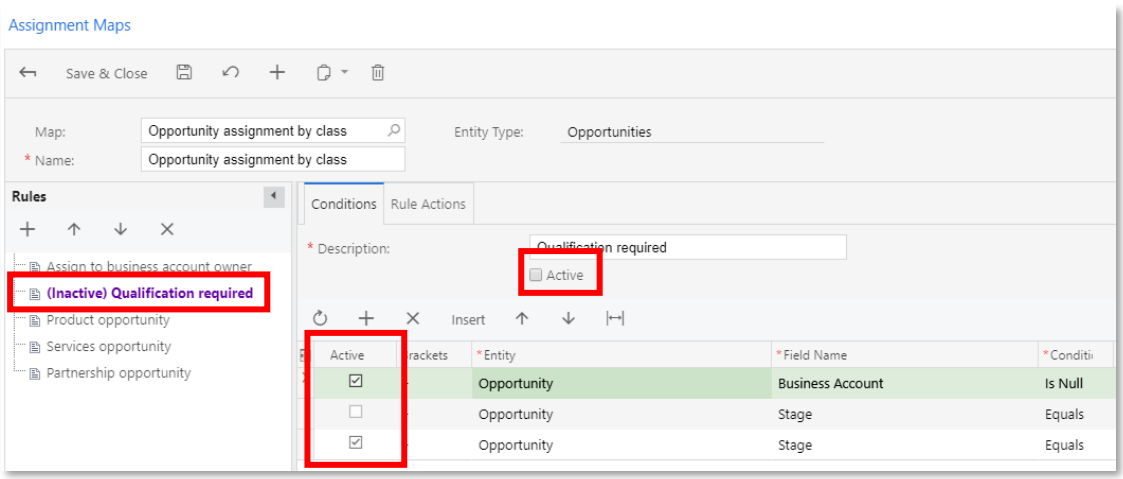
- **Not Required**: The system does not require that an approver comments his or her decision when approving or rejecting a document.
- **Optional**: If an approver attempts to approve or reject a document, the system displays the Enter Reason dialog box (shown in the following screenshot) in which the approver may leave a comment about his or her decision. The approver can click **Cancel** at the bottom of the dialog box to proceed without leaving any comment.

- **Required**: Each time an approver attempts to approve or reject a document, the system displays the Enter Reason dialog box, and the approver has to leave a comment about his or her decision in order to proceed with the approval procedure. If the approver clicks Cancel at the bottom of the dialog box, the dialog box closes and the document remains in the Pending Approval status. An approver can use only the corresponding entry screen to approve or reject a document that requires entering a comment upon approval or rejection; such documents cannot be approved or rejected on the Approvals screen (EP503010).

Entered comments are displayed in the Reason column on the Approval Details tab (shown in the following screenshot) of the Change Orders (PM308000), Employee Time Card (EP305000), Equipment Time Card (EP308000), Expense Claim (EP301000), Pro Forma Invoices (PM307000), Project Quotes (PM304500), or Sales Quotes (CR304500) screen (that is, the entry screen for the corresponding type of document).

The Ability to Temporarily Deactivate Conditions, Steps, and Rules in a Map

If a condition, step, or rule is no longer required in an assignment or approval map, an administrator can temporarily deactivate it by clearing the **Active** check box in the settings of that condition, step, or rule on the Assignment Maps (EP205010) or Approval Maps (EP205015) screen. (See the following screenshot for an example.)



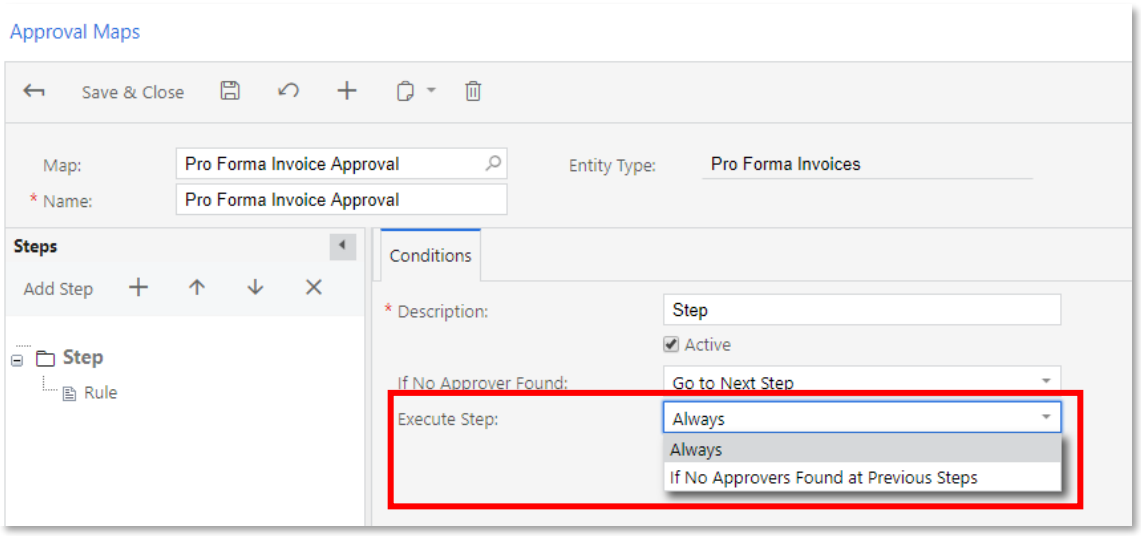
A deactivated step or rule is marked with the (Inactive) prefix in the Steps pane on the Approval Maps screen or in the Rules pane on the Assignment Maps screen.

An Extra Condition for Executing a Step of an Approval Map

If an approval map includes a large number of steps, it may be a difficult task for an administrator to configure that map with all possible variations of conditions taken into account so that an approver is always assigned to a submitted document of the specified type.

In this release, a new setting, **Execute Step** (shown in the following screenshot), has been added to the Conditions tab of the Approval Maps screen (EP205015) for each step of an approval map. The following options are available for this setting:

- **Always (default)**: The step is executed regardless of whether conditions in any previous step have been met and an approver has been assigned to the document.
- **If No Approvers Found at Previous Steps**: The step is executed only if all the conditions in all the previous steps have not been met and no approvers have been assigned to the document. If at least one approver has been assigned to approve the document after all the previous steps in the map have been executed, the system does not execute this step.



For more information about assignment and approval maps, see “Managing Assignment and Approval Maps” in the User Guide.

Field Service Management

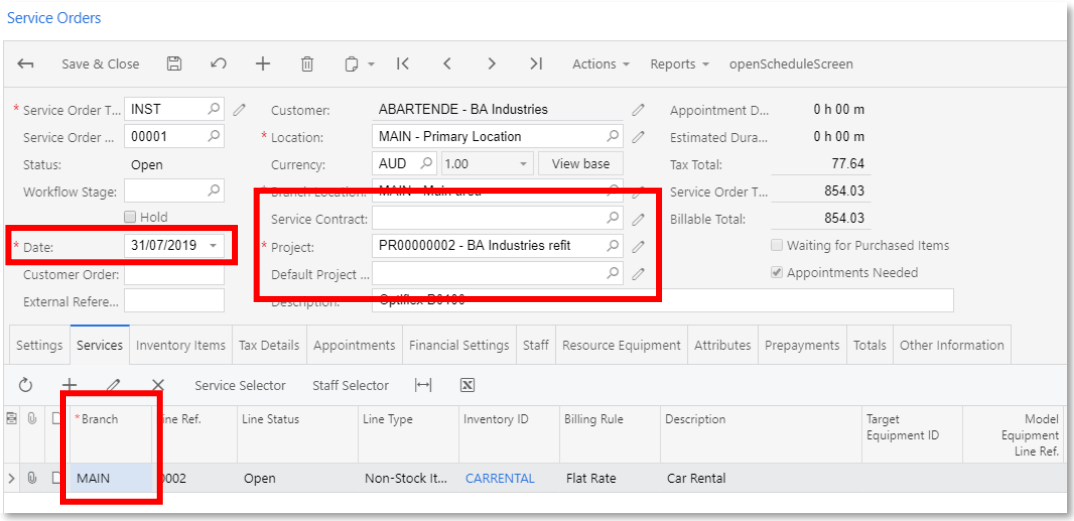
Improvements on Appointments and Service Orders Screens

To adhere to the standards followed on other MYOB Advanced screens, a variety of changes have been made to the Service Orders (FS300100) and Appointments (FS300200) screens, as described in this topic.

Changes on the Service Orders Screen

On the Service Orders screen (FS300100), the following changes have been made in the Summary area (see the screenshot below):

- The **Date** box has been modified so that the user can modify the date.
- The **Service Contract Period** box is not visible unless a Service Contract Nbr. has been selected.
- The **Default Project Task** box is displayed only if the user has selected a project in the Project box. (By default, the Project box contains the non-project code.)
- On the Services and Inventory Items tabs, a Branch column has been added, which shows the branch that provides the service or item (see the following screenshot, which shows the column on the Services tab).

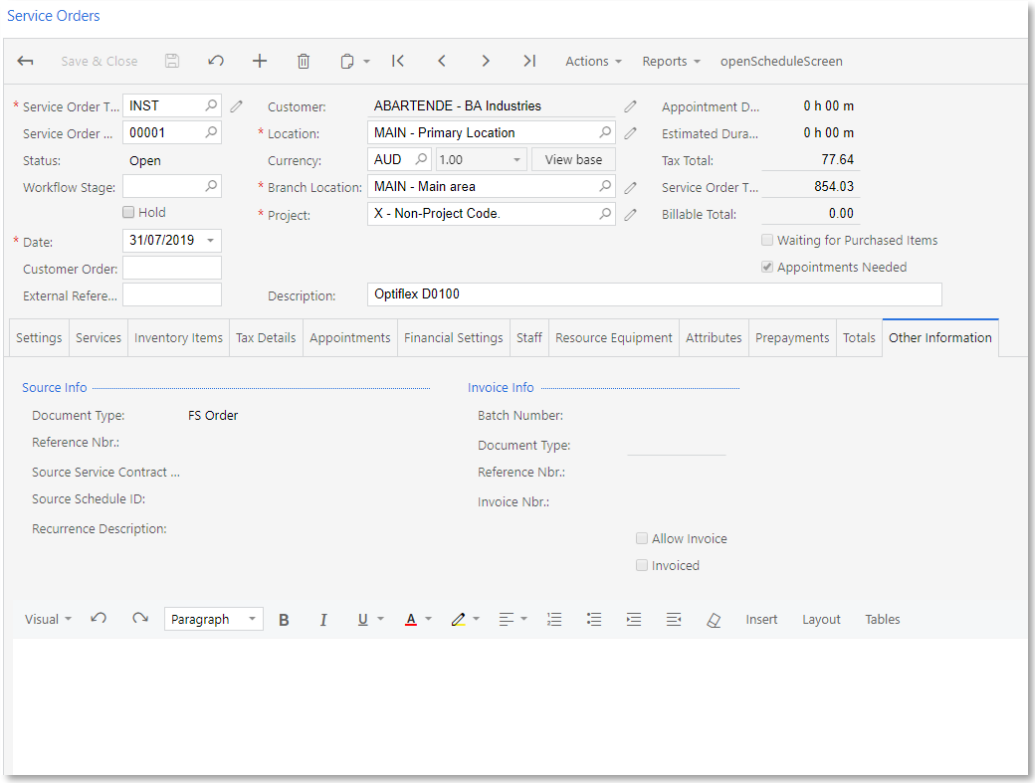


The Summary tab has been renamed to Settings.

A new Other Information tab has also been added, as the screenshot below shows. This tab contains the information about the documents from which the service order is created and the billing documents generated for the service order. It is also possible to leave a comment on this tab. The following changes have been made:

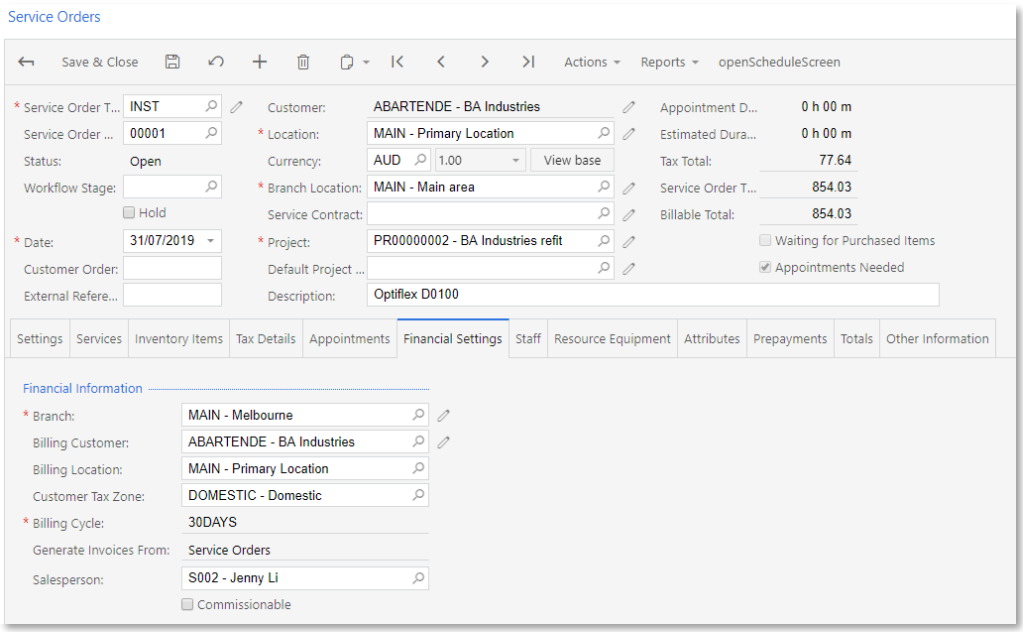
- The information from the Source Info tab (which has been deleted) has been moved to the Source Info section of the Other Information tab. The **Source Type**, **Source Document Type**, and **Source Ref. Nbr.** boxes have been removed, and **Document Type** and **Reference Nbr.** boxes have been added.
- The information from the Invoice Info tab (which has been deleted) has been moved to the Invoice Info section of the Other Information tab. The **Post To** and **Document Nbr.** boxes have been removed, and **Document Type** and **Reference Nbr.** boxes have been added.

- At the bottom of the Other Information tab, there is a text editor with a text box and a toolbar with formatting tools, where a user can add a comment about the service order. The Comment tab has been removed.



The Financial Settings tab has been added, which contains the following information, as shown in the following screenshot:

- Billing information, which had been located in the Billing Info section of the Summary tab in previous versions
- Commission information, which had been located in the Commission section of the Summary tab in previous versions



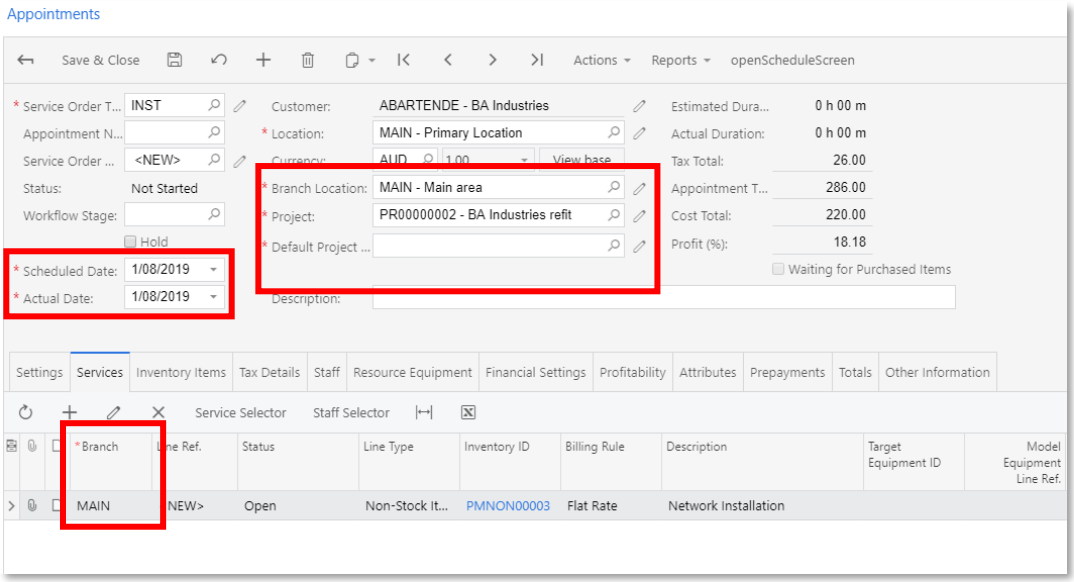
On the Appointments tab, the **Open Appointment Screen** button has been removed. The user should instead use the new **Schedule Appointmen**t menu command in the Actions menu of the screen toolbar to create an appointment.

Changes on the Appointments Screen

On the Appointments screen (FS300200), the following changes have been made in the Summary area (see the screenshot below):

- The **Schedule Date** and **Actual Date** boxes have been modified so that the user can modify the date.
- The **Service Contract Period** box is not visible unless a **Service Contract Nbr.** has been selected.
- The **Default Project Task** box is displayed only if the user has selected a project in the **Project** box. (By default, the Project box contains the non-project code.)

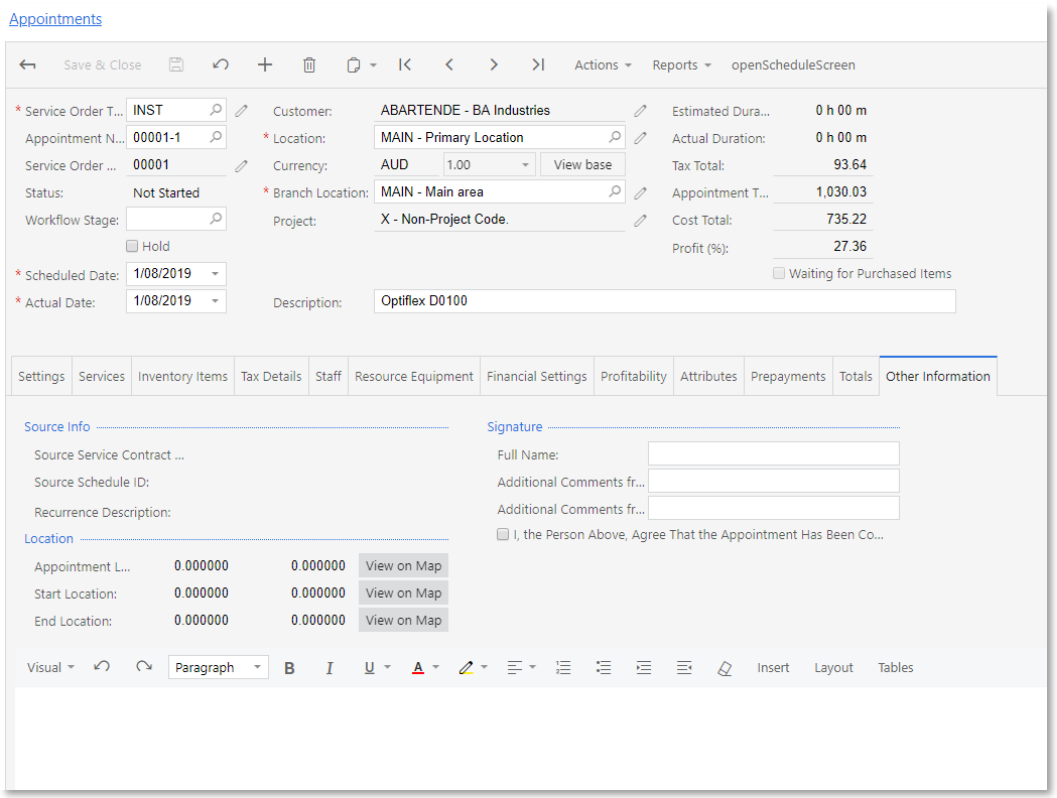
On the Services, Inventory Items, and Pickup/Delivery Items tabs, the Branch column has been added, which shows the branch that provides the service or item (see the following screenshot, which shows this column on the Services tab).



An Other Information tab has also been added to this screen, as the screenshot below shows. This tab contains location information, signature details, information about the documents from which the service order is created, and details of the billing documents generated for the service order. It is also possible to leave a comment on this tab. The following changes have been made:

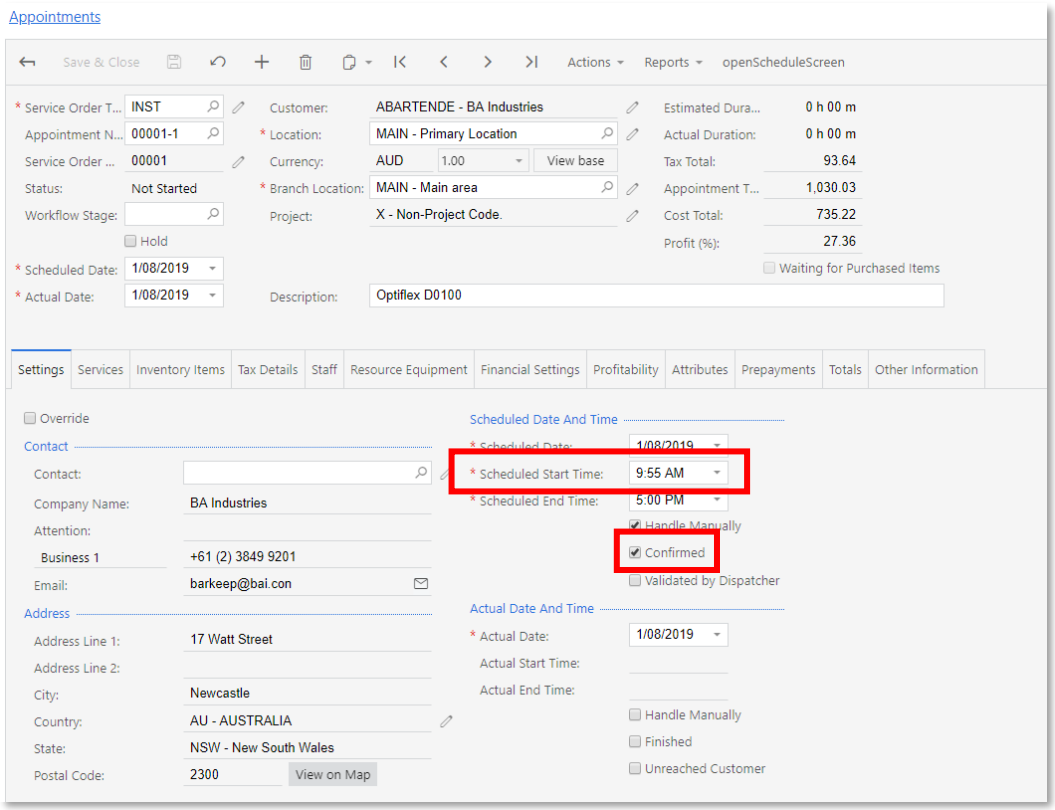
- The information from the Source Info tab (which has been deleted) has been moved to the Source Info section of the Other Information tab.
- The information from the Invoice Info tab (which has been deleted) has been moved to the Invoice Info section of the Other Information tab. The **Post To** and **Document Nbr.** boxes have been removed, and the **Document Type** and **Reference Nbr.** boxes have been added.

- The information from the Location tab (which has been deleted) has been moved to the Location section of the Other Information tab. The information of the Appointment Location section, which contained the **Latitude** and **Longitude** boxes, is now displayed in the **Appointment Location** box. Similarly, the **Start Location** and **Completion Location** sections have been moved. The **Driving Time** and **GPS Latitude Location** boxes have been removed.
- At the bottom of the Other Information tab, there is a text editor with a text box and a toolbar with formatting tools, where a user can add a comment about the service order. The Comment tab has been deleted.
- The information from the Route Info tab (which has been deleted) has been moved to the Route Info section of the Other Information tab.
- The information from the Signature tab (which has been deleted) has been moved to the Signature section of the Other Information tab.



The Summary tab has been renamed to Settings (see the screenshot below). The following changes have been made on this tab:

- The **Schedule Time** box of the Scheduled Date and Time section has been renamed to Scheduled Start Time.
- The **Confirmed** check box has been moved from the Summary area of the screen to the Scheduled Date and Time section of this tab.



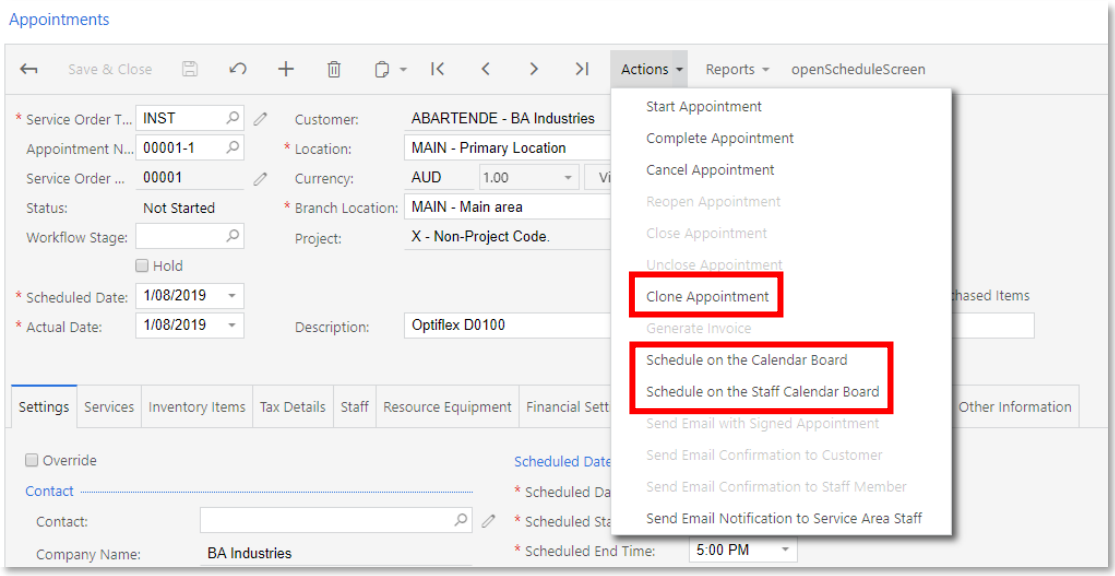
The Financial Settings tab has been added, which contains the following information:

- Billing information, which was located in the Billing Info section of the Summary tab in previous versions
- Commission information, which was located in the Commission section of the Summary tab in previous versions

The following changes have been made to the Actions menu of the screen toolbar (see the screenshot below):

- The **Clone Appointment** button has been removed from the screen toolbar and added as a menu command.
- The **Schedule on the Calendar** Board menu command has been added. When a user clicks this menu command, the system opens the Calendar Board screen (FS300300) with the selected appointment displayed on the Unassigned Appointments tab.
- The **Schedule on the Staff Calendar Board** menu command has been added. When a user clicks this menu command, the system opens the Staff Calendar Board screen (FS300400) with the selected appointment displayed on the Unassigned Appointments tab.
- The **Schedule on the Room Calendar Board** menu command has been added. When a user clicks this menu command, the system opens the Room Calendar

Board screen (FS300700) with the selected appointment displayed on the Unassigned Appointments tab. This menu command is available only if the Enable Rooms check box has been selected on the Service Management Preferences screen (FS100100).



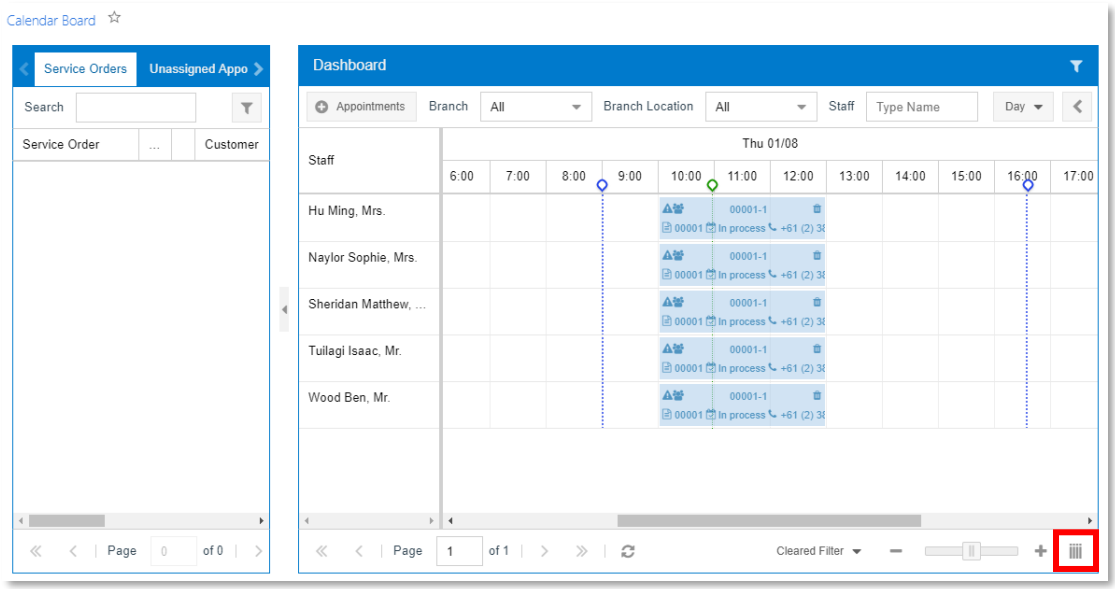
Improvements of Calendar Boards

Various features have been added to the Calendar Board (FS300300) and Room Calendar Board (FS300700) screens, as described in the sections below. For details, see the "Calendar Boards and Maps" chapter of the Interface Guide.

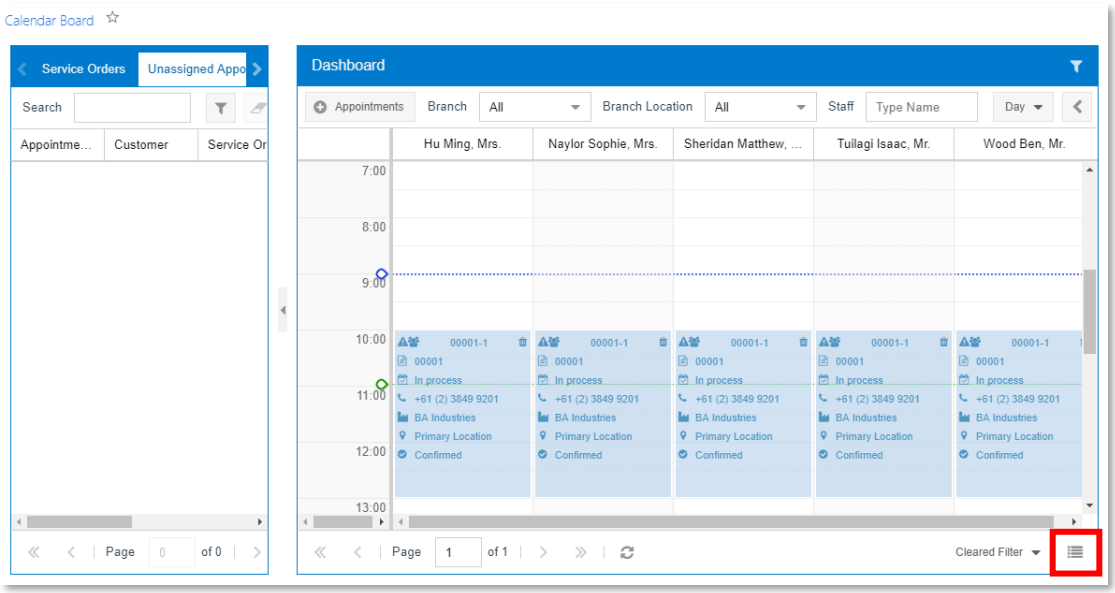
Ability to Change the Dashboard Orientation

In previous versions, the dashboards of the Calendar Board (FS300300) and Room Calendar Board (FS300700) screens were oriented vertically—that is, staff members were located on the horizontal axis and time was located on the vertical axis of the dashboard (see the screenshot below).

As of this release, a user can change the orientation of the dashboard by clicking the button in the lower right corner of the dashboard (see the following screenshot).

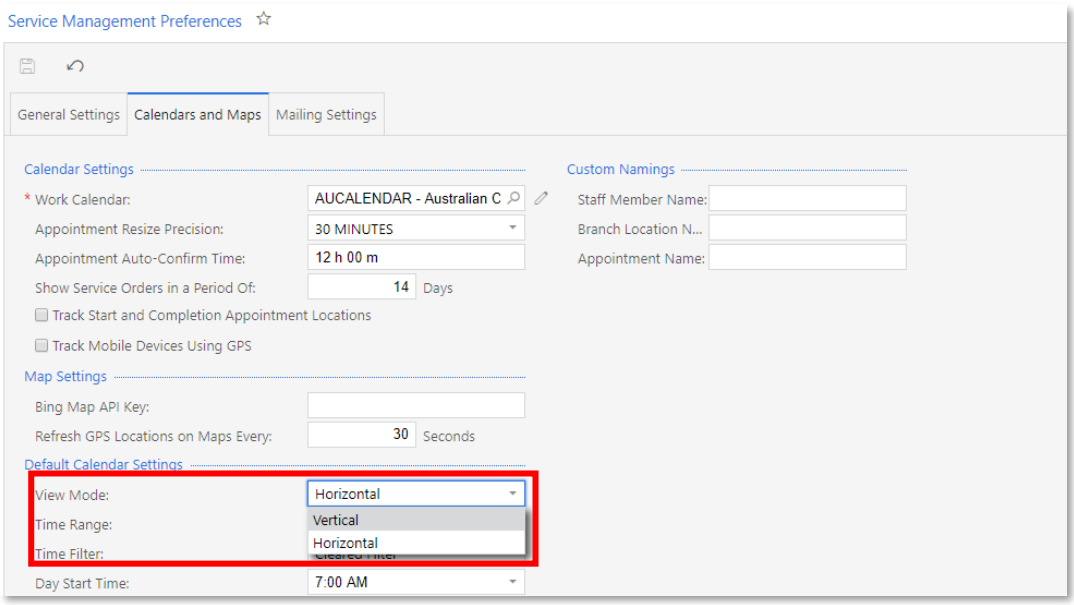


If the user clicks this button while viewing the vertical orientation, the orientation is changed to horizontal so that the staff members are shown on the vertical axis and time is shown on the horizontal axis, as shown in the following screenshot.



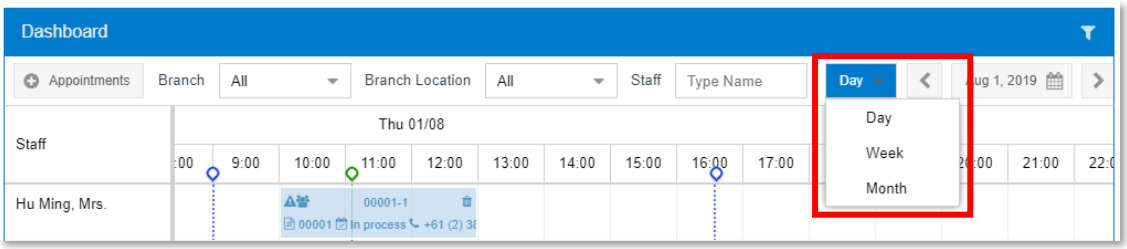
If the user clicks this button again (while viewing the horizontal orientation, the orientation is changed back to vertical).

To give an administrator the ability to set the default orientation for the instance, on the Calendars and Maps tab of the Service Management Preferences screen (FS100100), a **View Mode** box has been added with "Vertical" and "Horizontal" options.



Ability to Change the Time Range

In previous versions, schedules for only one day have been shown on the Calendar Board (FS300300) and Room Calendar Board (FS300700) screens. In this release, a user can now change the time range to show schedules for one week or one month. To do so, the user selects the necessary option in the new box in the upper right corner of the dashboard (see the screenshots below). This functionality gives the user the ability to perform such actions as reassigning an appointment from one staff member to another on a different date, viewing the agenda for a group of staff members on a particular week or month, or viewing the availability of rooms on a particular week or month.



The following options are available in this new box:

- **Day**: One day is shown on the dashboard. The Date box shows the selected date (for example, Jan 11, 2019). By clicking the arrow buttons right and left of the Date box, the user can change the date displayed on the dashboard.
- **Week**: One week (Sunday to Saturday) is shown on the dashboard. The Date box shows the date interval (for example, Jan 6, 2018–Jan 12, 2019). By clicking the arrow buttons right and left of the Date box, the user can change the week displayed on the dashboard. If the user selects a date by using the Calendar dialog box, the Date box shows the week that contains the selected date.

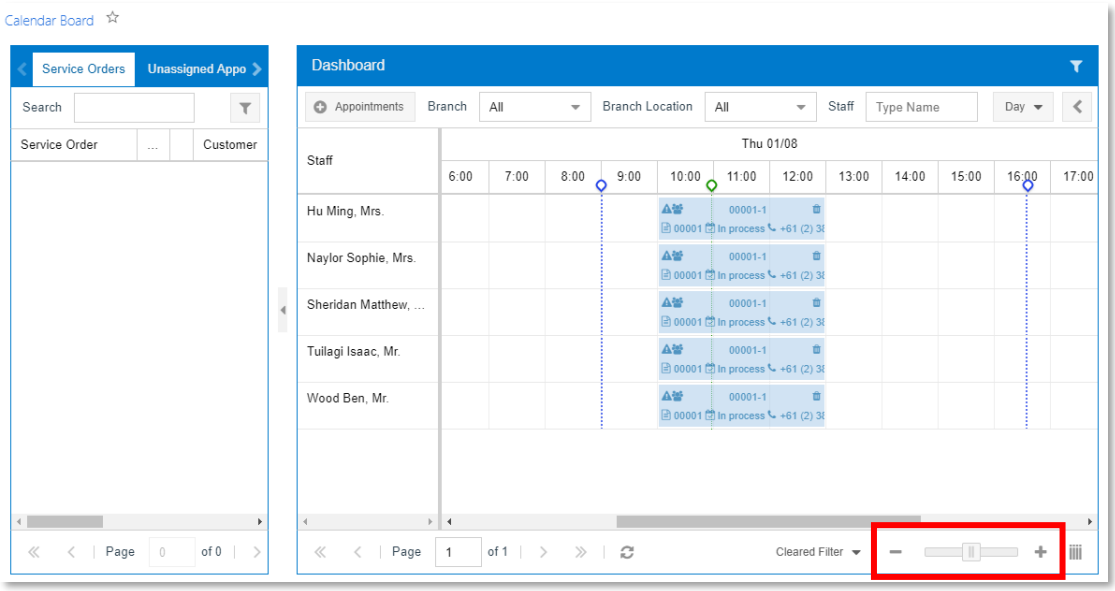
- **Month**: One month (from the first day of the month to the last day of the month is shown on the dashboard. The **Date** box shows the selected month (for example, January 2019). By clicking the arrow buttons right and left of the Date box, the user can change the month displayed on the dashboard. If a user selects a date by using the Calendar dialog box, the box shows the month that contains the selected date.

The time range functionality is available in both the Horizontal and Vertical view modes.

To give an administrator the ability to set the default time range for the instance, on the Calendars and Maps tab of the Service Management Preferences screen (FS100100), a **Time Range** box has been added with "Day", "Week" and "Month" options.

Ability to Change the Time Resolution

In this release, a user can now change the time resolution in the Vertical view mode on the Calendar Board (FS300300) and Room Calendar Board (FS300700) screens. To make this possible, a new time zoom slide and buttons have been added to the lower right section of the dashboard, as the following screenshot shows.



A user can change the time resolution in one of the following ways:

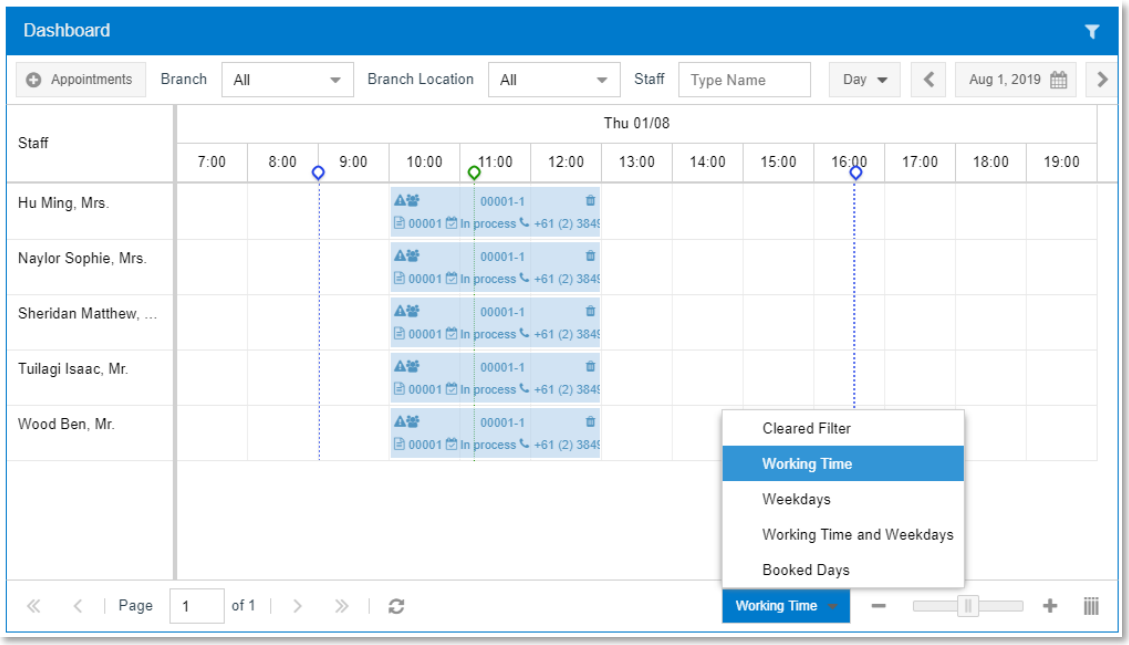
- By moving the slide. When the user moves the slide, a tooltip appears showing the current resolution.
- By clicking the minus or plus button.

On the Calendars and Maps tab of the Service Management Preferences screen (FS100100), the following boxes have been added (as shown in the screenshot below):

- **Day Resolution**: The default time resolution for the Day view mode on calendar boards.
- **Week Resolution**: The default time resolution for the Week view mode on calendar boards.
- **Month Resolution**: The default time resolution for the Month view mode on calendar boards.

Ability to Set Time Filters

Users can now display information filtered by time on the Calendar Board (FS300300) and Room Calendar Board (FS300700) screens. The Time Filter box has been added to the lower right corner of the dashboard with the following options:



- **Cleared Filter**: No filters are applied to the dashboard. That is, the dashboard shows information for 24 hours of each day of the selected time range selected.
- **Working Time**: The dashboard shows information for the start and end time of working hours for each day of the selected time range (see the following screenshot).

Note: The start time and end time of working hours are specified in the **Day Start Time** and **Day End Time** boxes on the Calendars and Maps tab of the Service Management Preferences screen (FS100100).

- **Weekdays**: The dashboard shows information for 24 hours from Mondays to Fridays for the selected time range.
- **Working Time and Weekdays**: The dashboard shows information for working hours from Mondays to Fridays for the selected time range.
- **Booked Days**: The dashboard shows the days to which at least one appointment is assigned for the displayed staff members during the selected time range selected; for each day, it shows only the time interval to which at least one appointment is assigned.

To give the administrator the ability to set the default time filter, on the Calendars and Maps tab of the Service Management Preferences screen (FS100100), the **Time Filter** box has been added with options for Cleared Filter, Working Time, Weekdays, Working Time and Weekdays, and Booked Days.

Improvements in Creating Service Orders from Sales Orders

The following changes have been made on the Sales Orders screen (SO301000):

- In the Summary area, the Service Management section has been removed.
- The Service Management tab has been removed.
- A **Create Service Order** command has been added to the Actions menu on the screen toolbar. If a user clicks **Actions > Create Service Order**, the Create Service Order dialog box opens with the following boxes, which the user should fill in:
    - Service Order Type: The type of the service order that is created for the sales order
    - Assigned To: The staff member who is a supervisor of the service order
    - Deadline - SLA: The date and time when the services of the service order must be performed
- When the user fills in these boxes and clicks **OK**, the system closes the dialog box, creates the service order related to the sales order, and opens the Service Orders screen (FS300100).
- The **Schedule on the Calendar Board** menu command has been added to the Actions menu. If a service order document has been created from the sales order, this menu command is available. (The screenshot below shows this menu command being unavailable because a service order related to the sales order has not yet been created.) If services have been added to the service order, when the user invokes this action, the Calendar Board screen (FS300300) opens, on which the user can schedule appointments to perform the services.
- A new **View Service Order** menu command has been added to the Inquiries menu. If a service order has been created from the sales order, this menu command is available; when the user clicks it, the system opens the Service Orders screen with the associated document.

For more information, see “Integration of Sales Orders and Service Orders” in the User Guide.

Improvements on the Service Order Types Screen

To improve the UI, minimise the decisions involved in defining a new service order type, and standardise the field services functionality with that of other parts of MYOB Advanced, the following check boxes have been removed from the Service Order Types screen (FS202300):

- Allow Only One Appointment per Service Order
- Allow Only One Service per Service Order/Appointment Allow Assignment of Multiple Staff Members
- Allow Creation Without Specifying a Service
- Allow Creation Without Assigning a Staff Member

Depending on whether or not each check box was selected, the system performed extra validation steps. For example, if **Allow Only One Appointment per Service Order** had been selected, when a user attempted to create an appointment, the system performed validation to be sure no other appointments exist for the specified service order. Based on whether the check boxes are selected or cleared, as described below, the appropriate system users need to prepare the system before upgrading it.

System Upgrade Notes

Before upgrading to 2019.1, an appropriate system user has to verify whether the check boxes for each service order type defined in your system are set on the Service Order Types screen (FS202300) as described below—that is, whether validations are turned on for any service order type. If any of the check boxes are set to perform validation for any service order type, the user has to contact the MYOB Advanced support team for help with the upgrade process.

The following settings correspond to validations that are turned on for the service order type:

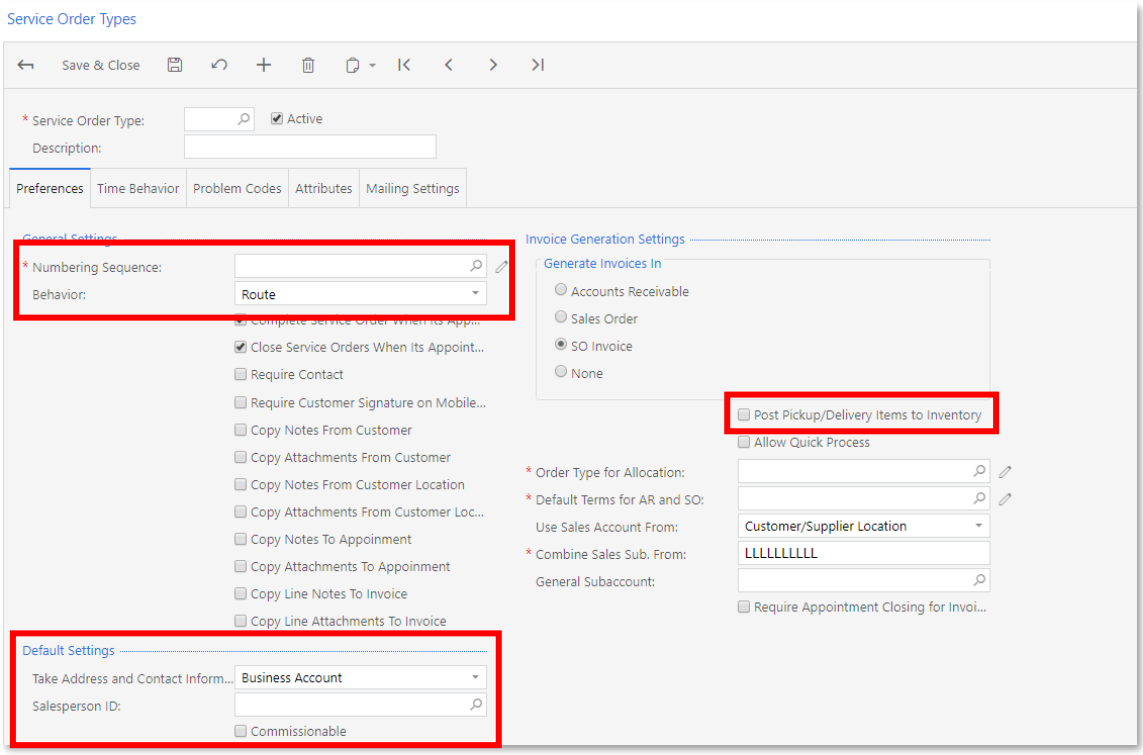
- **Allow Only One Appointment per Service Order: Selected**
  If this check box is selected, the system allows only one appointment per service order.
- **Allow Only One Service per Service Order/Appointment: Selected**
  If this check box is selected, the system allows only one service per service order and appointment.
- **Allow Assignment of Multiple Staff Members: Cleared**
  If this check box is cleared, the system allows only one staff member to be assigned to an appointment.
- **Allow Creation Without Specifying a Service: Cleared**
  If this check box is cleared, the system allows the creation of appointments only if at least one service has been assigned to an appointment.
- **Allow Creation Without Assigning a Staff Member: Cleared**
  If this check box is cleared, the system allows the creation of appointments only if at least one staff member has been assigned to an appointment.

Other UI Changes

The UI of the Service Order Types screen (FS202300) has been modified to follow the standards established in other MYOB Advanced screens in which maintenance settings are specified. The following changes have been made (see the screenshot below):

- The **Numbering Sequence** and **Behaviour** boxes have been moved to the General Settings section of the Preferences tab.
- The Appointment Settings section has been renamed to Default Settings.
- The **Take Address and Contact Information From** group of option buttons is now a box with a drop-down list.
- In the **Take Address and Contact Information From** box, the “Customer Contact” option has been renamed to “Contact”.
- The **Salesperson ID** box and the **Commissionable** check box have been moved to the Default Settings section.

- The **Post Pickup/Delivery Items to Inventory** check box is now visible only if **Route** is selected in the General Settings section of the Preferences tab, which means that service orders of the type are fulfilled by appointments to provide a route service.



Support of Costs of Labour, Stock Items, and Non-Stock Items

The Appointments screen (FS300200) now shows the costs of labour, stock items, and non-stock items.

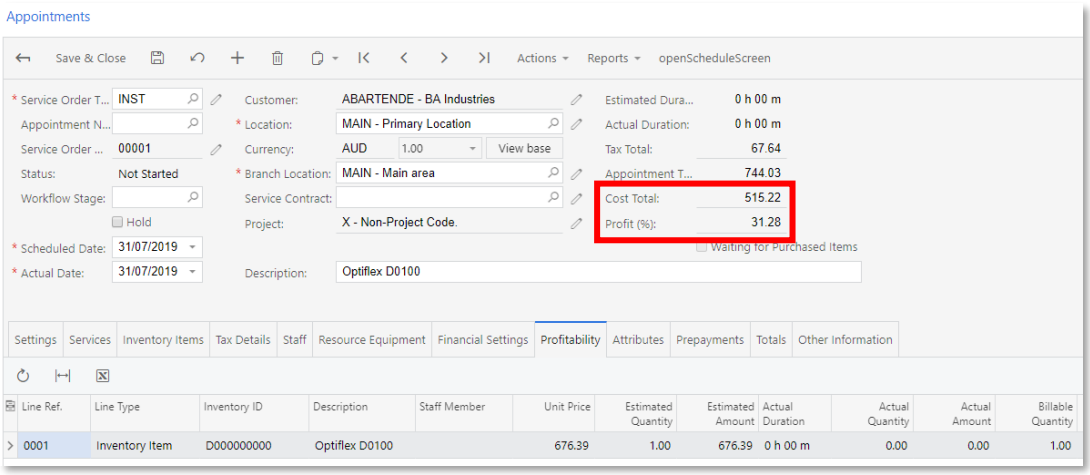
Tracking of Costs on the Appointments Screen

A Profitability tab has been added to the Appointments screen (FS300200) to show the cost of the document. The tab includes the following columns:

- **Line Ref.**: Depending on the line type, this column shows the line reference number of a service, inventory item, or staff member.
- **Line Type**: The type of the line, which is one of the following: Inventory Item, Labour, and Non-Stock Item.
- **Inventory ID**: The identifier of the line item.
- **Unit Cost**: The cost of one unit of the item.
- **Cost Total**: The total cost of the transaction (that is, unit cost multiplied by actual quantity).
- **Profit**: The amount of profit received from providing the item, which is calculated as billable amount minus total cost.
- **Profit (%)**: The percent of profit received from providing the item, which is calculated as (Profit / Cost Total) * 100. For example, if Actual Amount is $200 and Cost Total is $100, the profit is $100, which is 100%.

Additionally, the following fields have been added to the Summary area (see the screenshot below):

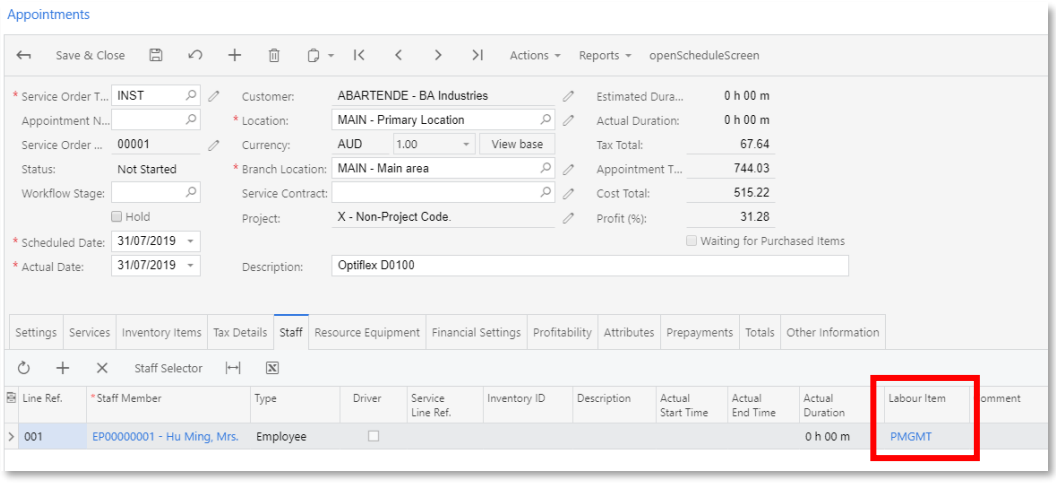
- **Cost Total**: The total cost of the transactions on all items, which is calculated as the sum of values in the Cost Total column on the Profitability tab.
- **Profit (%)**: The percent of profit received from providing all items. The formula for this box is ((Appointment Total Cost Total) / Cost Total) * 100.



Calculation of Labour Costs

The specifications on the new Labour Cost Rates screen (PM209900) are used to calculate the cost of the hours spent on the appointment.

Also, the Labour Item column has been added to the Staff tab of the Appointments screen (FS300200), as the screenshot below shows. By default, the value is copied to this column for the employee from the **Labour Item** box, which is located on the General Info tab in the Employee Settings section of the Employees screen (EP203000).



Note: As part of this release, in appointments, the system calculates the labour costs only for staff members that are associated with the Employee or Labour Item labour rate type and the Hourly type of employment.

As an additional improvement, now the Actual Start Time, Actual End Time, and Actual Duration columns are available for editing for staff members that are not associated with any service line. When a staff member completes an appointment, if the Actual Start

Time, Actual End Time, and Actual Duration columns are empty, the system inserts the information based on the appointment's time settings.

Calculation of Stock Item Costs

Every time a line item of the Inventory Item type is added to the Inventory Items tab of the Appointments screen (FS300200), on the Profitability tab, the line item is also added with the average cost in the Unit Cost column.

When this stock item is removed from the inventory (that is, when the related issue is released), the system updates the Unit Cost column on the Profitability tab of the screen with the actual cost of the item (that is, the cost specified in the related issue). If the stock item was part of a purchase order and the unit cost was overwritten in the related service order, this cost is inserted in the Unit Cost column on the Profitability tab.

Calculation of Non-Stock Item Costs

Every time a line item of the Non-Stock Item type is added to the Services tab of the Appointments screen (FS300200), on the Profitability tab, the line item is also added with the current cost in the Unit Cost column.

If this non-stock item was part of a purchase order and the unit cost was overwritten in the related service order, this cost is inserted in the Unit Cost column on the Profitability tab.

Allocations to Service Orders

Users can now allocate items to a service order or appointment. The following scenarios can be accomplished:

- The scheduler can allocate certain items for the service order and its appointments.
- The staff member can select a serial number of the item to use in an appointment.
- The warehouse manager can use replenishment to order stock items based on items assigned to service orders.
- The scheduler can verify how many items are available when he or she creates a service order.
- Once a purchase order is created from a service order, when these items are received, they are automatically allocated to the service order.

Note: During an upgrade to MYOB Advanced 2019.1.0, inventory items that were included in service orders or appointments in the previous version will not be automatically allocated.

To implement this functionality, various changes have been made, as described in the sections of this topic.

New Elements on the Availability Calculation Rules Screen

The following check boxes have been added to the Availability Calculation Rules screen (IN201500):

- **Deduct Qty. on Service Orders Prepared**: A check box that users select to deduct (for items of the class) the quantities of items on service orders with the On Hold status from the available quantities of these items. The item quantity on service orders with this status is shown in the FS Prepared box on the Inventory Allocation Details screen (IN402000).
- **Deduct Qty. on Service Orders**: A check box that users select to deduct (for items of the class) the quantities of items on service orders with the Open status from the available quantities of these items. The item quantity on these service orders is shown in the FS Booked box on the Inventory Allocation Details screen.
- **Deduct Qty. Allocated for Service Orders**: A check box that users select to deduct (for items of the class) the quantities that were specifically allocated for service orders from the available quantities of these stock items. The item quantity on these service orders is shown in the FS Allocated box on the Inventory Allocation Details screen.

New Elements on the Inventory Allocation Details Screen

The following fields have been added on the on the Inventory Allocation Details screen (IN402000):

- **Purchase for FS Prepared**: The quantity of the inventory item listed on purchase orders created for service orders and not yet open. This quantity doesn't affect the availability of the item.
- **Purchase for FS**: The quantity of the inventory item listed on open purchase orders created for service orders. This quantity doesn't affect the availability of the item.
- **Receipts for FS**: The quantity of the inventory item listed on purchase receipts that were created for service orders. This quantity doesn't affect the availability of the item.
- **FS Prepared**: The quantity of the inventory item listed in service orders with the On Hold status. This quantity affects the available quantity only if the **Deduct Qty. on Service Orders Prepared** check box is selected on the Availability Calculation Rules screen (IN201500) for the item class (as reflected by the read-only check box to the right of the FS Prepared box).
- **FS Booked**: The quantity of the inventory item listed on open service orders. This quantity affects the available quantity only if the Deduct Qty. on Service Orders check box is selected on the Availability Calculation Rules screen for the item class (as reflected by the read-only check box to the right of the FSSO Booked box).
- **FS Allocated**: The quantity of the inventory item allocated on the undelivered service orders. This quantity affects the available quantity only if the Deduct Qty. Allocated on Service Orders option is selected on the Availability Calculation Rules screen for the item class (as reflected by the read-only check box to the right of the FSSO Allocated box).

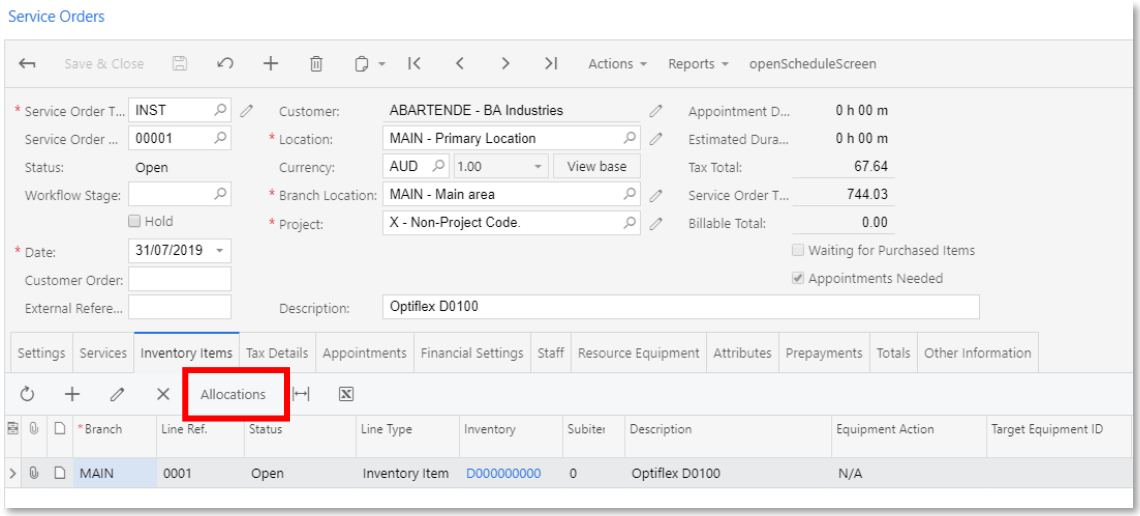
- **FS to Purchase**: The quantity of the inventory item included in service order lines that are marked for purchasing. This quantity doesn't affect the availability of the item.

Additionally, if an item is allocated for a service order, this is reflected in the table of the Inventory Allocation Details screen (lines with the FS module).

The same elements have been added to the Inventory Summary (IN401000) and Prepare Replenishment (IN508000) screens.

New Elements on the Service Orders Screen

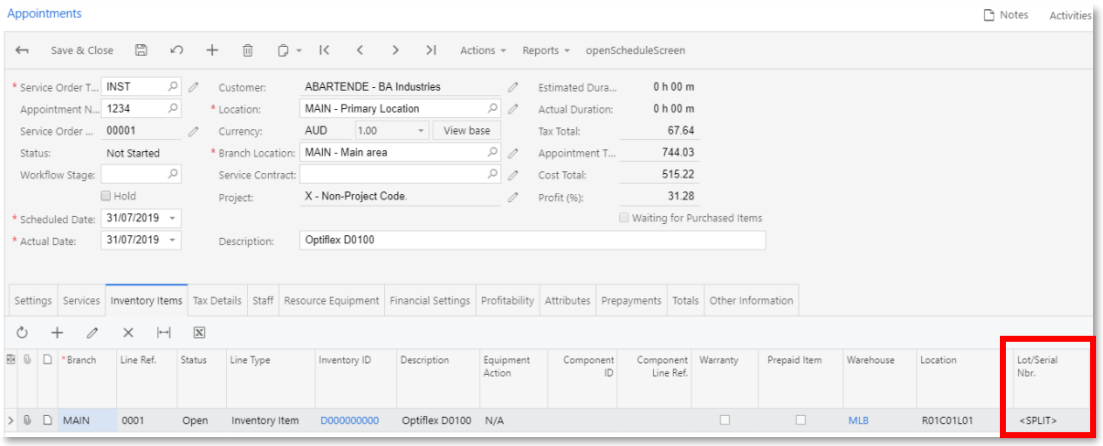
On the Service Orders screen (FS300100), on the Inventory Items tab, the new **Allocations** button opens the Allocations dialog box, in which users can specify the lot or serial number of the item and allocate the item. Additionally, on the bottom of the Inventory Items tab, users can now see these elements, which represent quantities: On Hand, Available, Available for Shipping, and Allocated.



New Elements on the Appointments Screen

On the Inventory Items tab of the Appointments screen (FS300200), the Lot/Serial Nbr. column has been added so that users can select the lot or serial number assigned to the service order or a new lot or serial number for new line items (see the screenshot below).

Note: The Field Services module does not support processing of stock items of lot/serial class with the When Used assignment method.



Notes About Allocations for Service Orders

With allocations for each inventory item line, the system will not allow a staff member to assign more units of an inventory item to an appointment than the quantity of units specified in the related service order. For example, suppose that one service and two units of the ACINF21 inventory item are associated with a service order on the Service Orders screen (FS300100). Two appointments are created to fulfil the service order, and each appointment has one unit of the ACINF21 inventory item assigned. Suppose that during the second appointment, the customer asks for a third unit of the ACINF21 inventory item. The system will not allow the staff member to modify the quantity of the line associated with the two original ACINF21 inventory items because the appointment quantity would be greater than the service order quantity. In this case, the staff member needs to add a new line item to the second appointment for the extra ACINF21 inventory item on the Inventory Items tab of the Appointments screen. The system will add the line item to the service order as well.

If a user clones an appointment that includes inventory items, if the quantity of inventory items in all appointments would exceeds the quantity specified in the related service order, the system automatically adds new items to the service order.

If the scheduler has added inventory items to a service order, and then not all inventory items have been used in the appointments associated with the service order, and if the billing cycle is set to generate invoices from appointments, when the service order is closed, the system cancels the allocation of the quantity of inventory items that were not used in appointments.

Note: If a user uncloses this service order, the system will not reallocate the inventory items that had not been assigned to any appointment.

After a sales order document is generated from the Field Services module, if a user deletes the sales order, the system allows the user to reopen the appointment or service order, modify it, and generate the sales order again. These actions do not cause the

system to automatically reallocate the inventory items in the appointment or service order.

Changes on Creating Purchase Orders from Service Orders

The Create Purchase Orders screen (FS501000) has been removed. Purchase orders from service orders are created on the Create Purchase Orders screen (PO505000). Thus, users can now create purchase orders for both sales orders and service orders at the same time.

If a purchase order for an inventory item was created from a service order, after the inventory item is received, the inventory item is now automatically allocated for the service order. Additionally, if a serial number was specified in the purchase receipt, the serial number is copied to the service order.

Support of Tax Calculation in Service Orders and Appointments

The Service Orders (FS300100) and Appointments (FS300200) screens now display calculated tax amounts. The tax calculations can be done by the system or by a tax agency.

To support tax calculation, new elements have been added to these screens.

New Elements on the Service Orders Screen

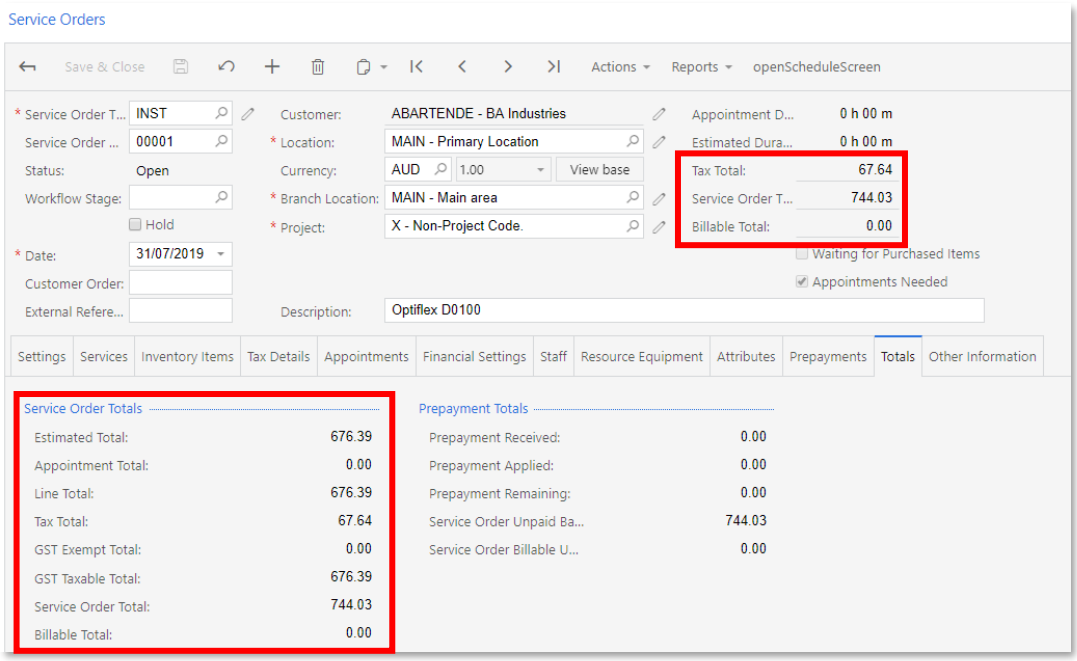
The following new fields have been added to the Summary area of the Service Orders screen (FS300100):

- The **Tax Total** field, which represents the total amount of tax paid for the service order. The Service Order Total box, which displays the total amount paid for the service order and is calculated as a sum of total amounts in lines and a tax total amount.
- The **Billable Total** field, which displays the billable total amount, which is based on the billing cycle of the customer as follows:
    - If the billing cycle is set to generate invoices from service orders, the billable total will not include appointment totals, and instead will include only service order totals.
    - If the billing cycle is set to generate invoices from appointments, the billable total will include only appointment totals of the appointments with the “Completed” or “Closed” status.

The following fields have been added to the Totals tab:

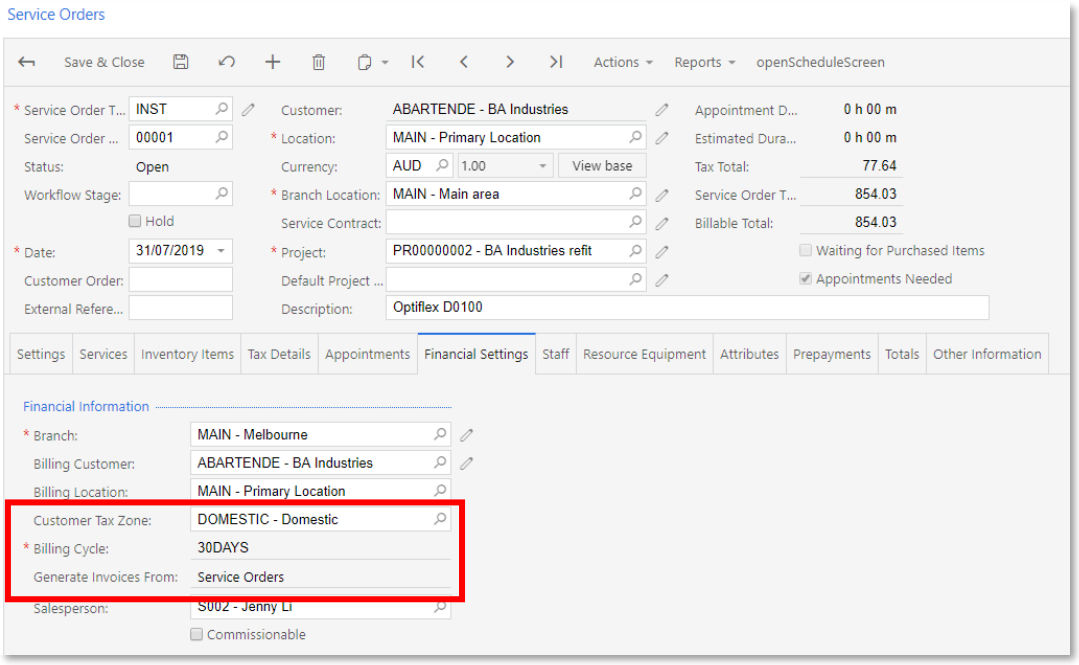
- The **Estimated Total** and **Appointment Total** fields, which have been moved from the Summary area of the screen to the Service Order Totals section.
- The Line Total field, which was previously named **Billable Total** and was located in the Summary area of the screen. This element represents the total without tax calculations, and is calculated by adding the values of the Billable Amount column of the Services and Inventory Items tabs.
- The **Tax Total** box, which represents the total amount of tax paid for the service order.
- The **GST Exempt Total** box, which represents the total amount that is exempt from GST.

- The **GST Taxable Total** box, which represents the total amount of GST paid for the service order.
- The **Service Order Total** field, which displays the total amount paid for the service order and is calculated as the sum of the total amounts in lines and the tax total amount.
- The **Billable Total** field, which contains the same information as the **Billable Total** field in the Summary area does.



The following new fields have been added to the Financial Settings tab:

- **Customer Tax Zone**: Contains the tax zone to be used to process the document. Generally, this is the zone associated with the appointment address.
- **Billing Cycle**: Contains the billing cycle that is applied to the service order. This setting is filled in based on the settings of the applicable customer. If the Manage Multiple Billing Options per Customer check box is selected on the Service Management Preferences screen (FS100100), the system bases the billing cycle on the customer and the service order type.
- **Generates Invoices From**: Indicates whether the invoice considers the information on the service order or appointment. This read-only setting is copied from the associated billing cycle.



A Tax Details tab, which contains information on all individual taxes applied to the document lines, has been added to the screen. The system automatically fills in the columns on this tab when the user saves changes to the service order.

The Tax Category column has been added to the Services and Inventory Items tab. The system fills in this column with the tax category of the item that is specified in the line.

New Elements on the Appointments Screen

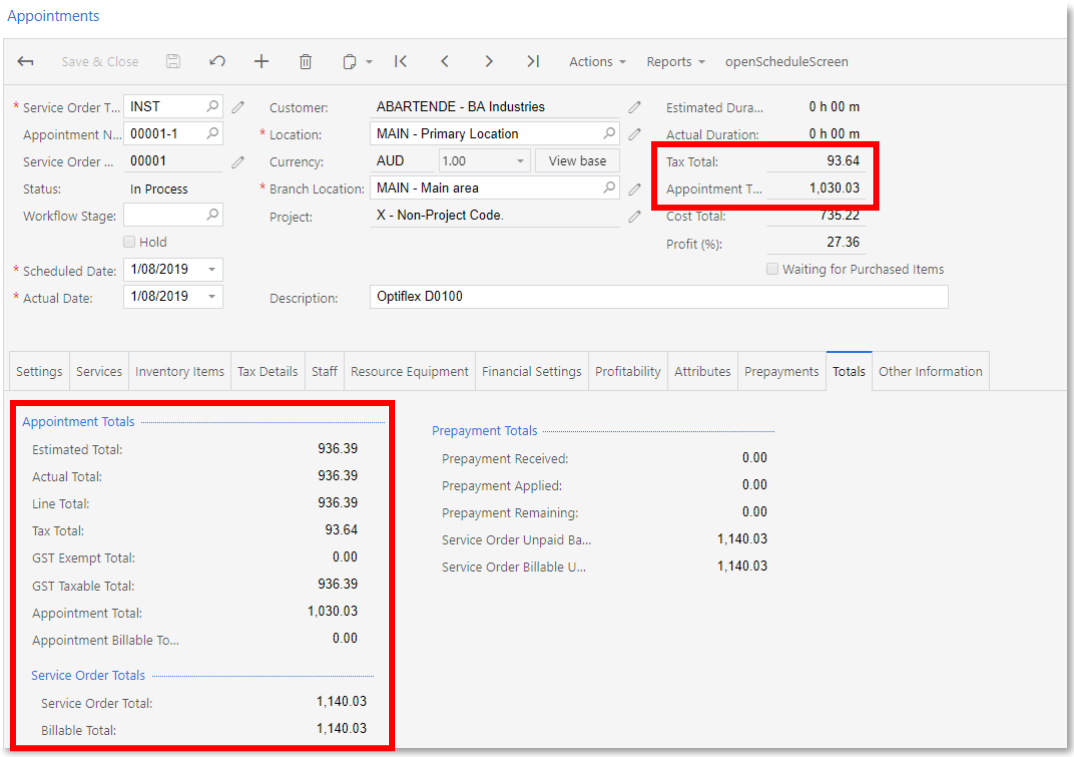
The following new fields have been added to the Summary area of the Appointments screen (FS300200):

- **Tax Total**, which represents the total amount of tax paid for the appointment.
- **Appointment Total**, which displays the total amount paid for the appointment. This amount is calculated as the sum of the total amounts in lines and the tax total amount.

The following fields have been added to the Totals tab:

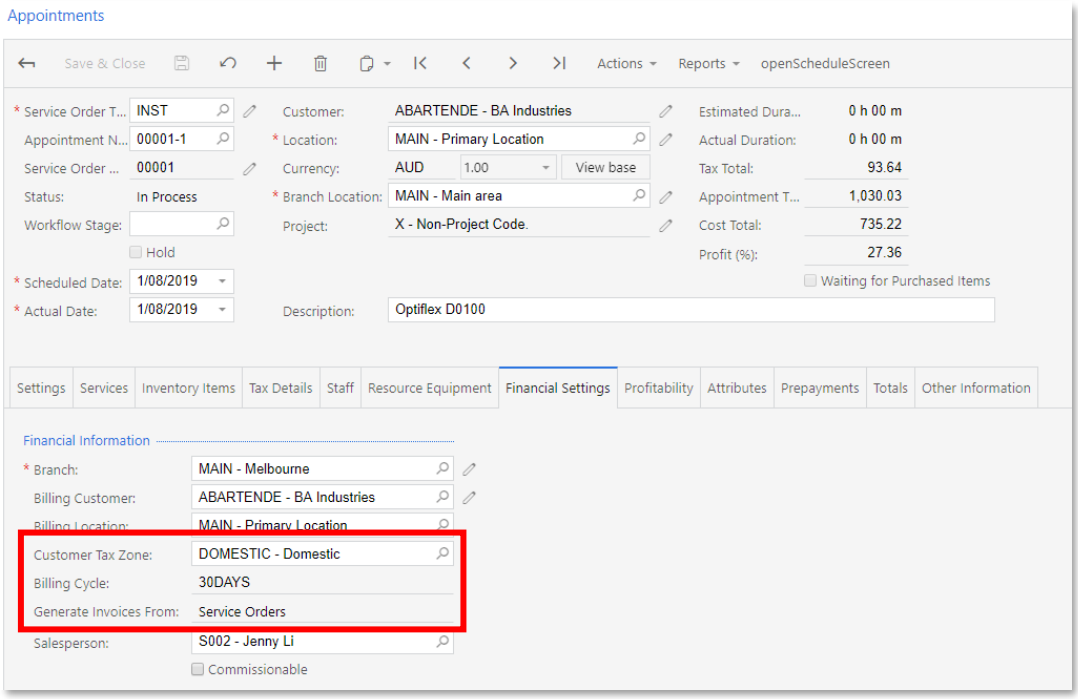
- **Estimated Total** and **Actual Total**, which have been moved from the Summary area of the screen to the Appointment Totals section of the tab.
- **Line Total**, which was previously named Billable Total and was located in the Summary area of the screen. This box represents the total without tax calculations, and is calculated by summing the values in the Billable Amount column of the Services and Inventory Items tab.
- **Tax Total**, which represents the total amount of tax paid for the appointment.
- **GST Exempt Total**, which represents the total amount that is exempt from GST.
- **GST Taxable Total**, which represents the total amount of GST paid for the appointment.
- **Appointment Total**, which displays the total amount paid for the appointment and is calculated as the sum of the total amounts in lines and the tax total amount.

- **Appointment Billable Total**, which displays the billable total amount based on the billing cycle of the customer as follows:
    - If the billing cycle is set to generate invoices from service orders, the billable total will not include appointment totals. That is, the amount will be zero.
    - If the billing cycle is set to generate invoices from appointments, the billable total will include the appointment total only once the appointment is completed or closed.
- The **Service Order Total** field in the Service Order Totals section, which contains the total amount calculated on the service order and is calculated as the sum of the total amounts in lines and the tax total amount.
- The **Billable Total** field in the Service Order Totals section, which displays the billable total amount of the service order and its appointments, based on the billing cycle of the customer.



The following new boxes have been added to the Financial Setting tab:

- **Customer Tax Zone**: Contains the tax zone to be used to process the document. Generally, this is the zone associated with the appointment address.
- **Billing Cycle**: Contains the billing cycle that is applied to the appointment. This setting is filled in based on the related customer settings. If the Manage Multiple Billing Options per Customer check box is selected on the Service Management Preferences screen (FS100100), the system bases the billing cycle on the combination of the customer and the service order type.
- **Generates Invoices From**: Indicates whether the invoice considers the information on the service order or appointment. This setting is copied from the associated billing cycle.



A Tax Details tab, which contains information on all individual taxes applied to the document lines, has been added to the screen. The system automatically fills in the columns on this tab when the user saves changes to the service order.

Finally, a Tax Category column has been added to the Services and Inventory Items tab. The system fills in this column with the tax category of the item that is specified in the line.

Note: As part of this release, tax calculation done by third parties uses the branch address as origin address and the address of the billing customer location as destination address.

Prepayment for Service Orders and Appointments

Now a user can create prepayments for appointments and service orders. A prepayment associated with a service order or appointment will be applied to a sales order when the sales order is generated in the system.

Note: This functionality is available only if the **Sales Orders** option button is selected under Generate Invoices In on the Service Order Types screen (FS202300) for the type of the service order or appointment.

The following scenarios can be accomplished with this functionality:

- A service order is created so that service personnel can perform a service, and a prepayment of 50% of the total cost of the services is required in advance to perform the appointment related to this service order.
- When the appointment is performed at the customer location, the customer would like to prepay for part of the service that was completed.
- A service order is created to cover the installation of four air conditioners. After the second appointment is performed, the customer would like to prepay for the job done so far that is, the installation of the first and second air conditioners.

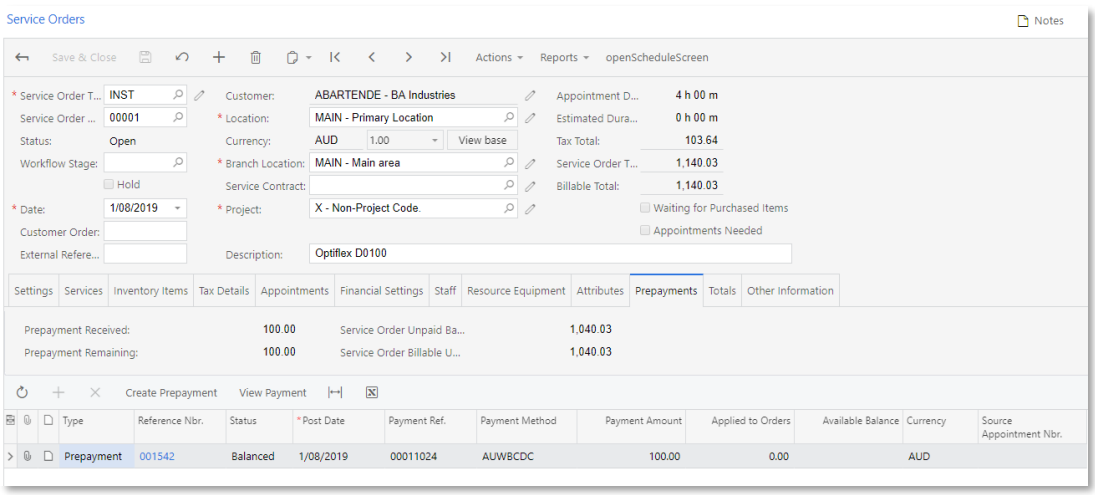
Prepayments are associated with service orders. For sales orders generated from appointments, the prepayment is applied (or the prepayments are applied) to the sales orders in the order in which the sales orders are generated for the associated appointments.

For example, suppose that a service order has two appointments, and that the customer made a prepayment during the first appointment. If the sales order for the second appointment is generated first, the prepayment is first applied to the sales order of the second appointment. If the billable amount of the appointment is less than the prepayment amount, the remaining amount will be applied to the sales order generated for the first appointment.

New Elements on the Service Order and Appointments Screens

The Prepayments tab has been added on the Service Orders (FS300100) and Appointments (FS300200) screens. This tab shows the list of prepayments related to the service order or appointment. The Summary area of the tab shows total amounts from the service order or appointment and associated prepayments.

A user can click the **Create Prepayment** button on the table toolbar of the Prepayments tab to open the Payments and Applications screen (AR302000) with applicable boxes already filled in based on the service order. The **View Payment** button on the Prepayments tab opens an associated prepayment.



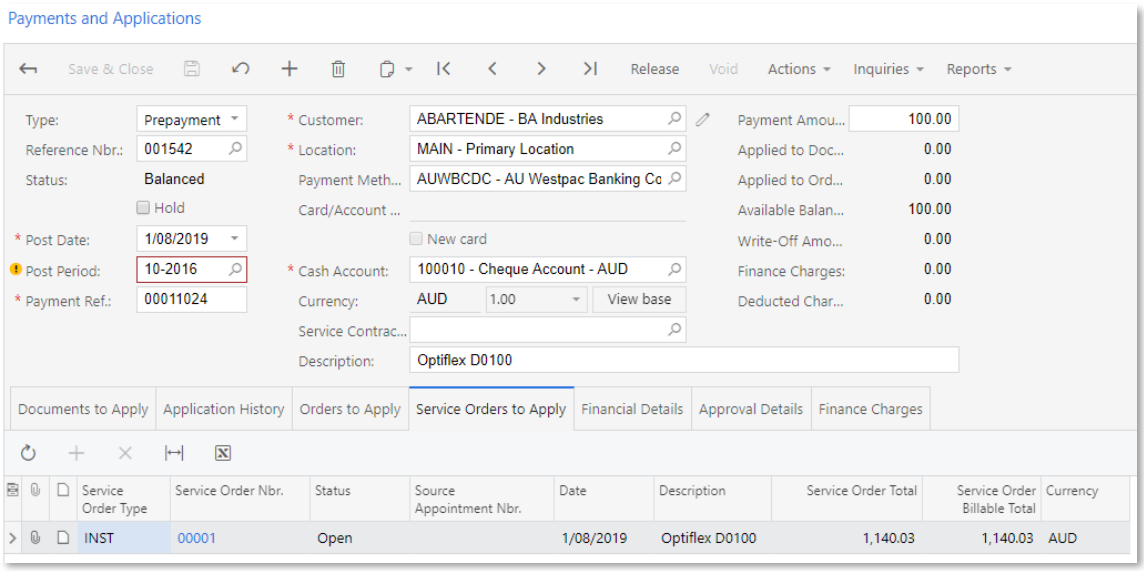
A new Prepayment Totals section with the following fields has been added to the Totals tab of the Service Orders (FS300100) and Appointments (FS300200) screens:

- **Prepayment Received**: The sum of amounts of the prepayments associated with the service order or appointment.
- **Prepayment Applied**: The sum of the values in the Applied to Orders column on the Prepayments tab of the associated prepayments.
- **Prepayment Remaining**: The sum of the available balances of the prepayments associated with the service order or appointment.
- **Service Order Unpaid Balance**: The unpaid balance of what was estimated on the service order. This amount is the value in the **Service Order Total** field of the Summary area minus the value in the **Payment Received** field of the Prepayment tab.

- **Service Order Billable Unpaid Balance**: The unpaid balance of what has been completed so far; this amount is the value in the **Service Order Billable Total** field minus the value in the **Payment Received** field of the Prepayment tab.

New Elements on the Payments and Applications Screen

A new Service Orders to Apply tab has been added on the Payments and Applications screen (AR302000) to display the service order or orders associated with a prepayment, along with the related appointments if the prepayment has been created from the appointment. The tab appears on the screen only if at least one service order is associated with the prepayment. The tab is read-only because these prepayments can be created only from the Service Orders (FS300100) and Appointments (FS300200) screens.



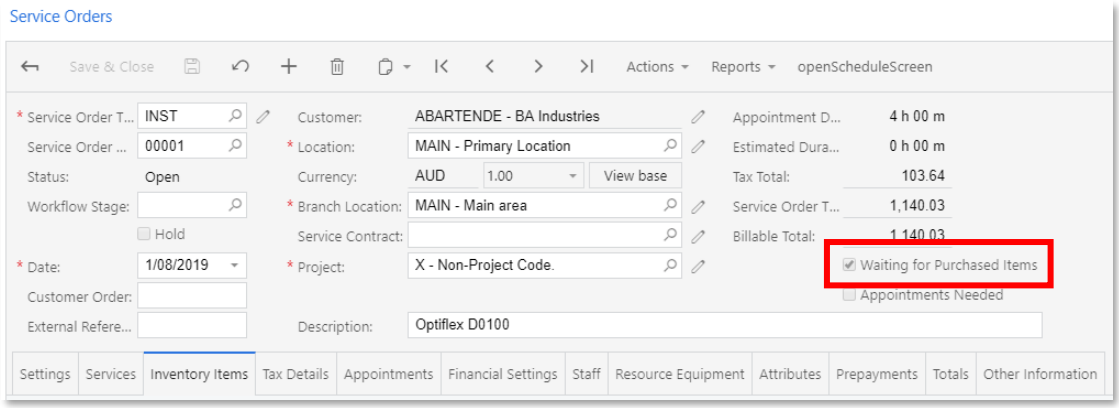
Tracking Service Orders Waiting for Purchased Items

It is now possible to view whether any items in a service order need to be received at a warehouse. Additionally, you can view this information in each appointment related to the service order.

To implement this functionality, the elements described in the sections of this topic have been added.

New Elements on the Service Orders Screen

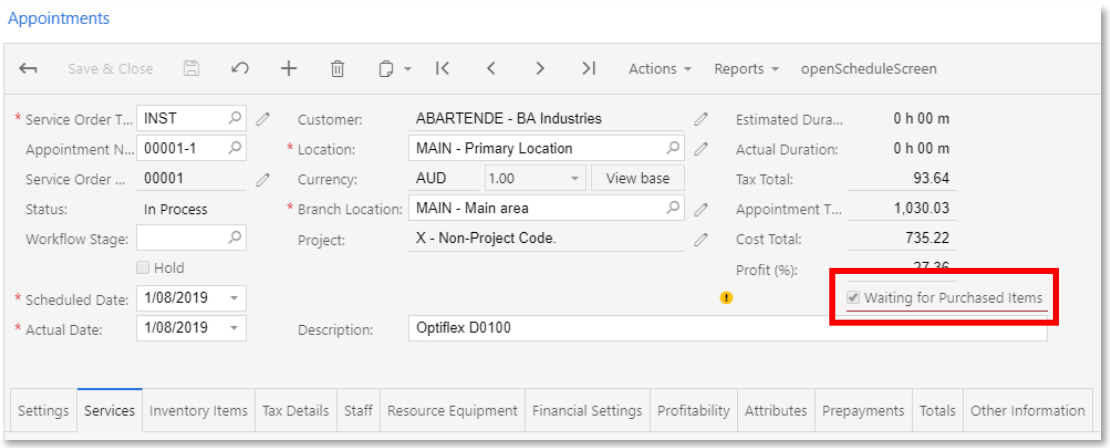
On the Service Orders screen (FS300100), in the Summary area, a **Waiting for Purchased Items** check box has been added. This check box indicates (if selected) that at least one item needs to be received (that is, the **Mark for PO** check box is selected for the line on the Services or Inventory Items tab):



New Elements on the Appointments Screen

On the Appointments screen (FS300200), the system now allows the addition of line items for which service personnel are awaiting receipt, and a **Waiting for Purchased Items** check box has been added to the Summary area.

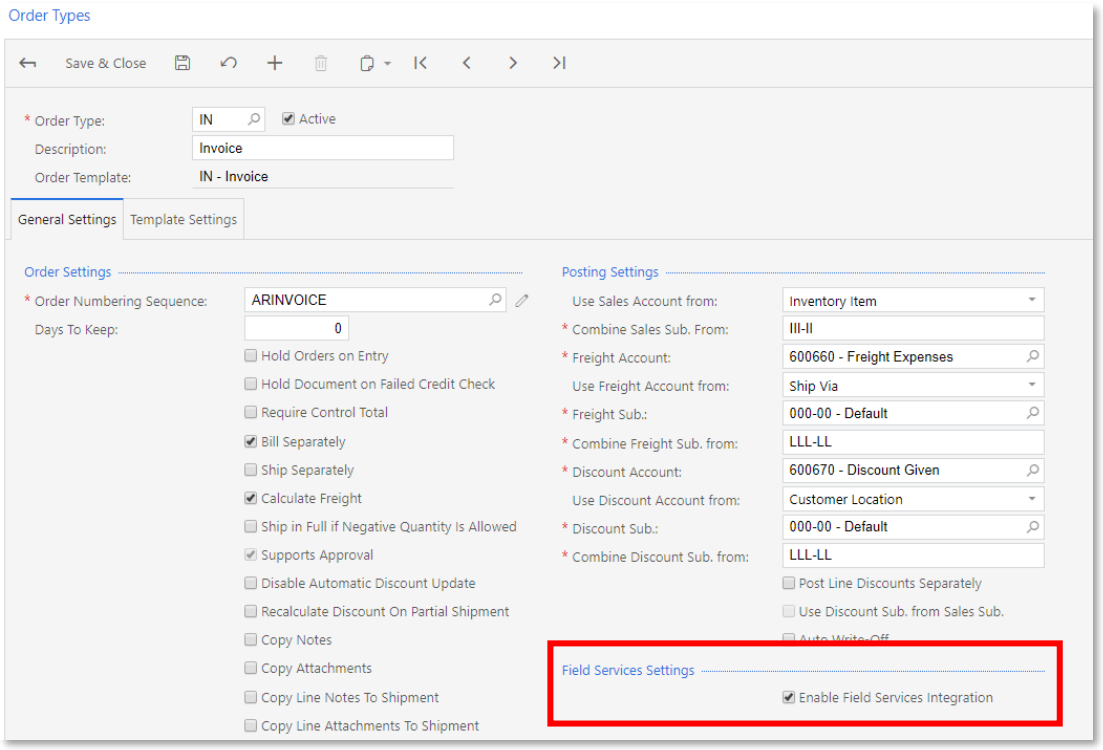
On the Services and Inventory Items tabs, the following read-only columns (also shown in the following screenshot) have been added to show purchasing details: Mark for PO, PO Nbr., and PO Status. The columns are hidden by default, and the system fills them in with the values specified in the related service order on the Service Orders screen (FS300100).



Restriction of Sales Order Types Integrated with Field Services

In many companies, only one particular sales order type is generated from Field Services. For the other types of sales orders, the actions, columns, and behaviours related to Field Services are not necessary and should be disabled to avoid overloading the screen with unused elements.

This release adds an **Enable Field Services Integration** check box to the Order Types screen (SO201000). If this check box has been selected for an order type, the elements related to Field Services are displayed on the Sales Orders screen (SO301000) if this order type is selected. If this check box has been cleared for an order type, these elements are not visible on the Sales Orders screen if this order type is selected.



Additionally, for an invoice created from a sales order for which field service integration has not been enabled (based on the order type), the elements related to services are not displayed on the Invoices screen (SO303000).

On the Service Order Types screen (FS202300), in the **Order Type for Invoice** and **Order Type for Negative Balance Invoice** fields, only an order type with the **Enable Field Services Integration** check box selected can be selected. Similarly, on the Equipment Management Preferences (FS100300) and Route Management Preferences (FS100400) screens, in the **Order Type for Invoice** field, only an order type with the **Enable Field Services Integration** check box selected can be selected.

Ability to Copy Notes and Attachments

It is now possible to copy notes and attachments to appointments and service orders from a customer or customer location, as well as to copy notes and attachments to the generated invoices and purchase orders from the related service orders or appointments. Employees often need to add to the customer document a note with instructions on how to provide a service. Now, this note can automatically be included in the appointment when a user creates it. To support this functionality, new elements have been added to the screens of the Services module.

New Elements on Screens

On the Service Order Types screen (FS202300), the following check boxes have been added to the General Settings section:

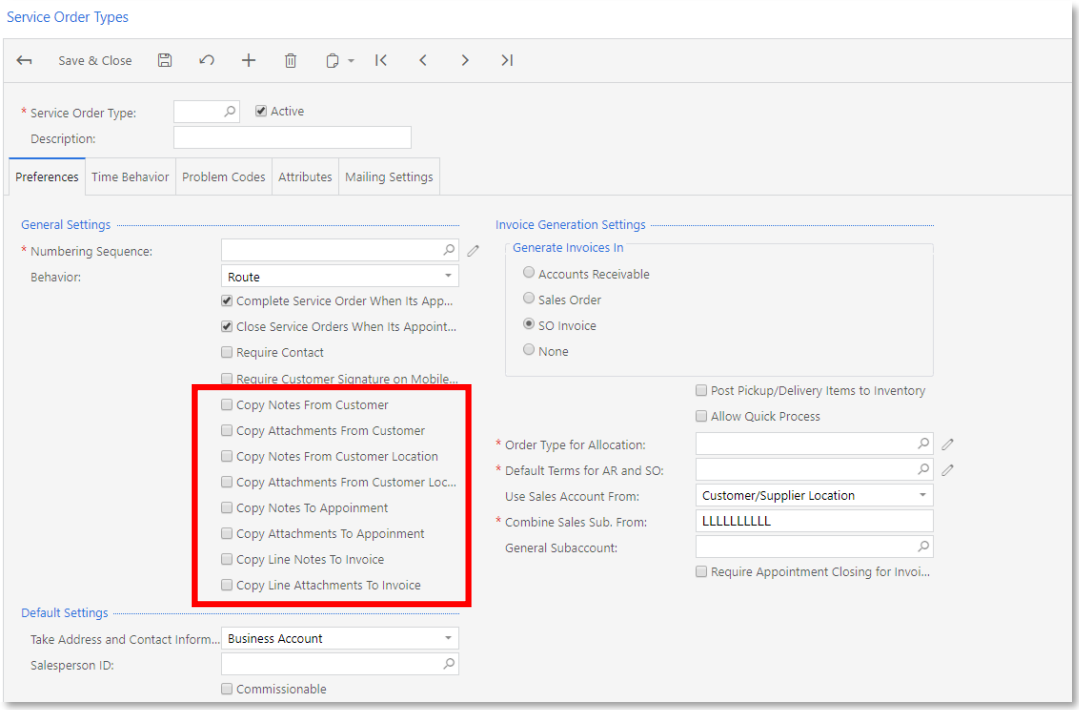
- **Copy Notes from Customer:** Notes are copied to an appointment and service order from the associated customer.
- **Copy Attachments from Customer:** Attachments are copied to an appointment and service order from the associated customer.
- **Copy Notes from Customer Location:** Notes are copied to an appointment and service order from the associated customer location.

  Note: If the **Copy Notes from Customer** and **Copy Notes from Customer Location** check boxes are both selected, and if both a customer and its location have notes, the service orders and appointments created for the customer and this location will have one note that contains the concatenation of these notes.

- **Copy Attachments from Customer Location:** Attachments are copied to an appointment and service order from the associated customer location.
- **Copy Notes to Appointment**: Notes are copied to an appointment from a service order.

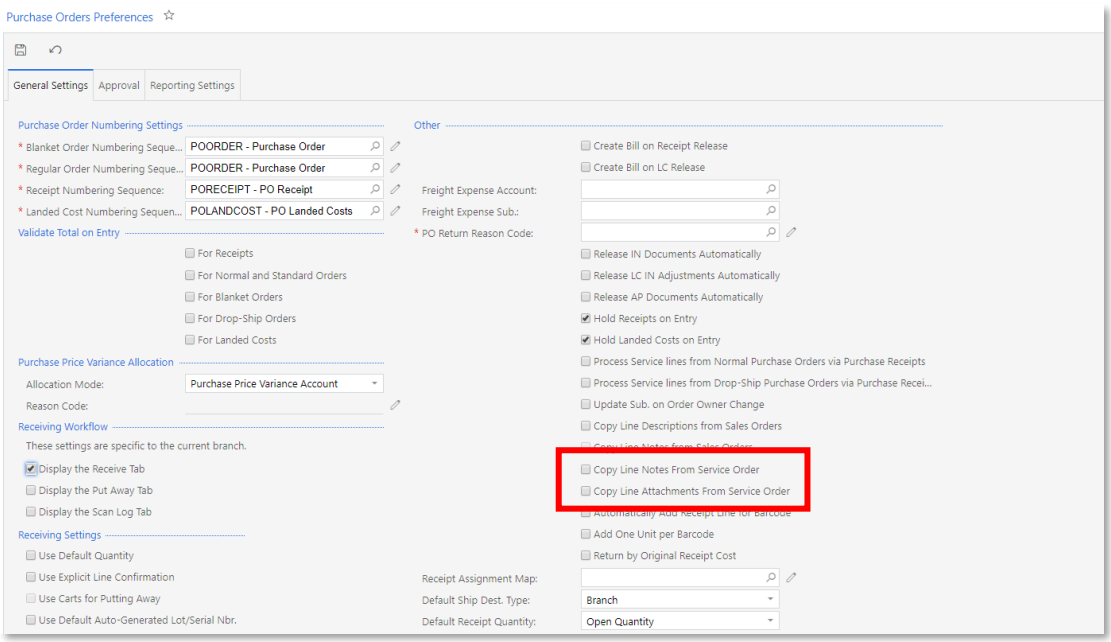
  Note: If the **Copy Notes to Appointment** check box is selected, the **Copy Notes from Customer** or **Copy Notes from Customer Location** check box (or both check boxes) are selected, and if a customer or its location (or both) have a note, when a user creates an appointment, the system ignores any changes that have been made in the related service order created for this customer and this location.

- **Copy Attachments to Appointment:** Attachments are copied to an appointment from a service order.
- **Copy Line Notes to Invoice:** Line notes are copied to an invoice from the associated service order or appointment.
- **Copy Line Attachments to Invoice:** Line attachments are copied to an invoice from the associated service order or appointment.



The following check boxes have been added to the Purchase Orders Preferences screen (PO101000):

- **Copy Line Notes from Service Orders**: Line notes are copied to a purchase order from the associated service order.
- **Copy Line Attachments from Service Orders**: Line attachments are copied to a purchase order from the associated service order.

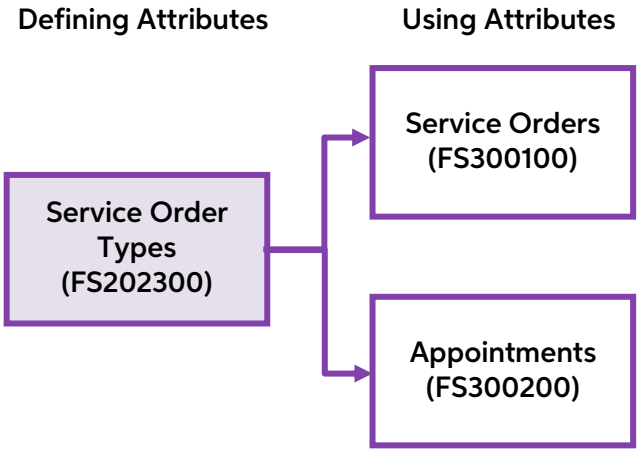


Ability to Add Attributes

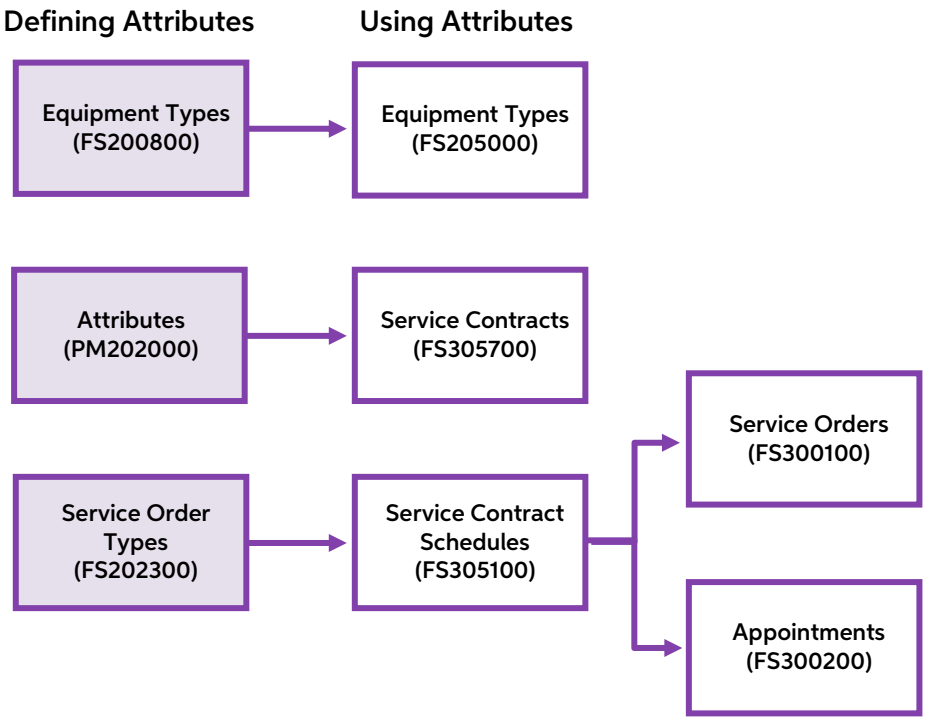
An attribute is a property (such as age or industry) that can be defined in the system so that users can specify its settings for objects in the system.

Now attributes are available in Field Services; users can use them as follows:

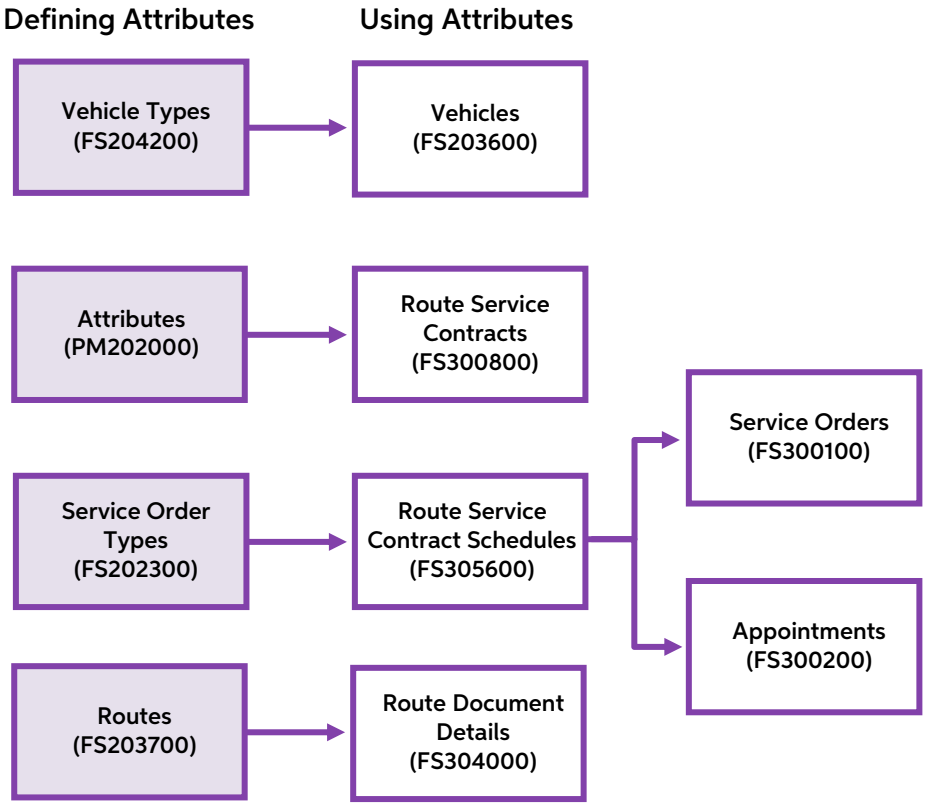
- In the Service Management module, attributes can be used to gather and store information about service orders and appointments. The diagram below shows how the attributes are defined in the Service Management module.



- In the Equipment Maintenance module, attributes store additional properties of equipment items and **service** contracts. Additionally, an administrator or service manager can define attributes for a particular service contract schedule that will be inherited when a service order or appointment document is generated based on the schedule. The diagram below shows how the attributes are defined in the Equipment Management module.

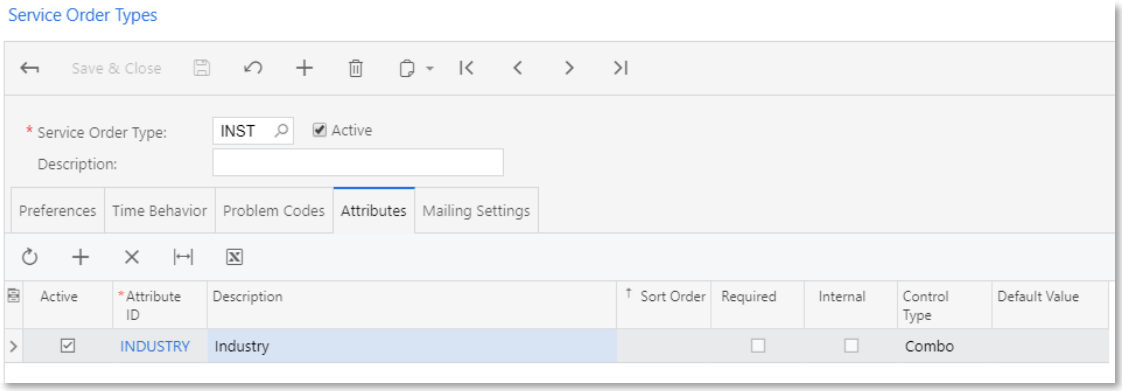


- In the Route Management module, attributes hold additional properties of vehicles, routes, and route service contracts. Additionally, attributes can be defined for a particular route service contract schedule that will be inherited when an appointment document is generated based on the schedule. The diagram below shows how the attributes are defined in the Route Management module.

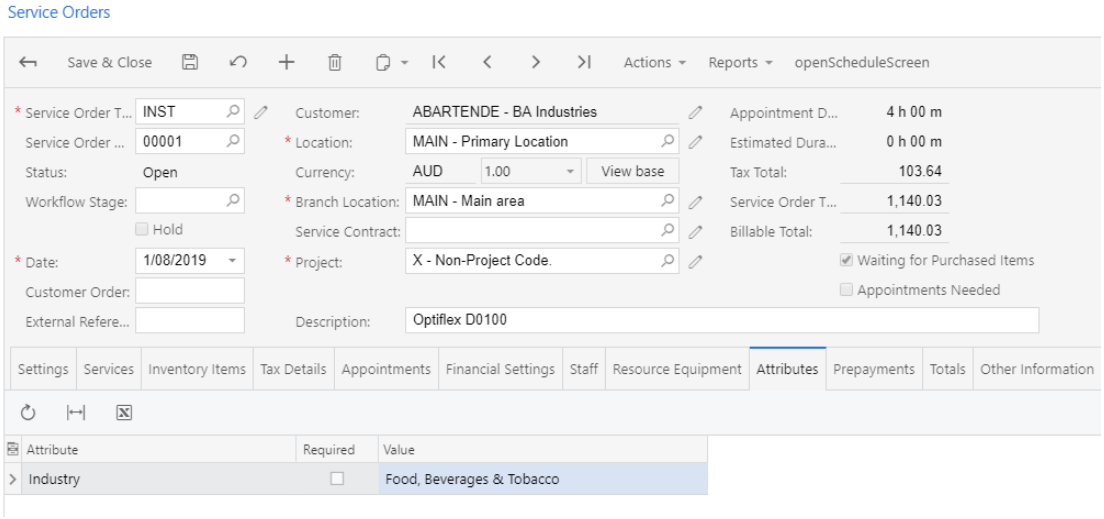


Attributes for Service Orders and Appointments

After the attributes to be used for service orders and appointments have been defined on the Attributes screen (CS205000), they are specified for a particular service order type on Attributes tab of the Service Order Types screen (FS202300).



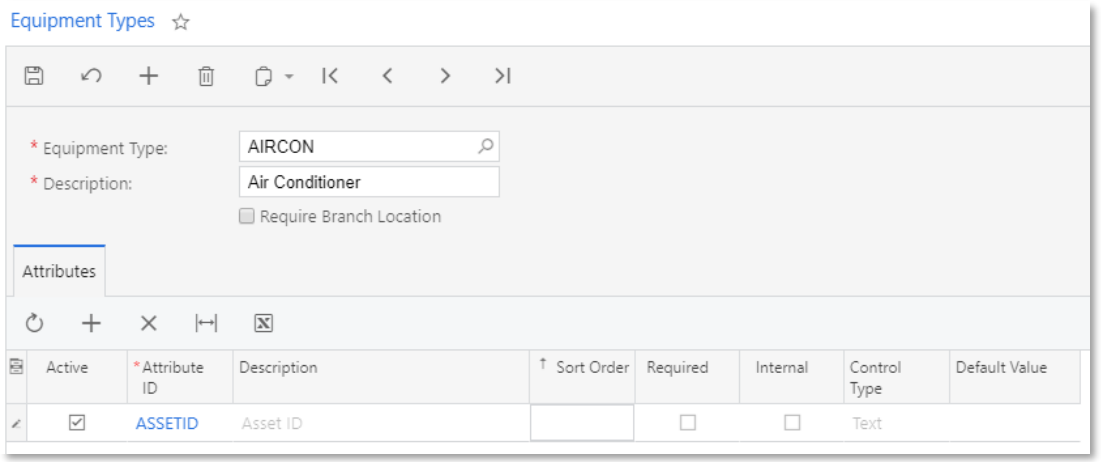
For a particular service order or appointment associated with a service type that has attributes defined, users can specify, view, and modify the values of these attributes on the Attributes tab of the Service Orders (FS300100) or Appointments (FS300200) screen, respectively.



The attributes will be inherited from a service order to the related appointments, but each appointment's attributes are independent.

Attributes for Equipment

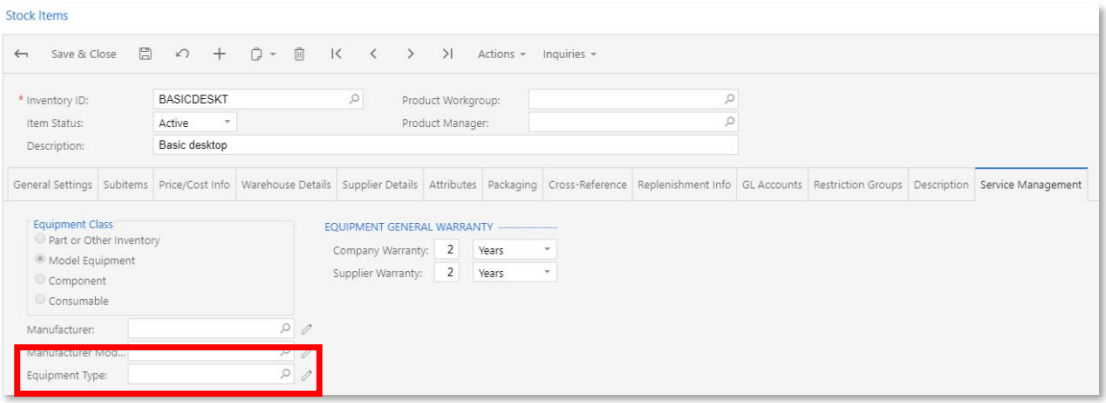
The first step in configuring the attributes to be used for equipment is defining them on the Attributes screen (CS205000). The group of attributes applied to a particular equipment type is defined on the Equipment Types screen (FS200800). The screen has been modified, as the following screenshot shows:



For a particular piece of equipment of an equipment type that has attributes defined, users can specify, view, and modify the values of these attributes on the Attributes tab of the Equipment screen (FS205000).

For model equipment items, on the Service Management tab of the Stock Items screen (IN202500), an **Equipment Type** field has been added (see the screenshot below). If the attributes specified for an equipment type selected in this box are the same as those that are defined for the stock item, when the system creates the target equipment from the sale of a stock item, the attributes are copied to the Equipment screen. If the attributes defined for the stock item are not the same as the attributes specified for an equipment

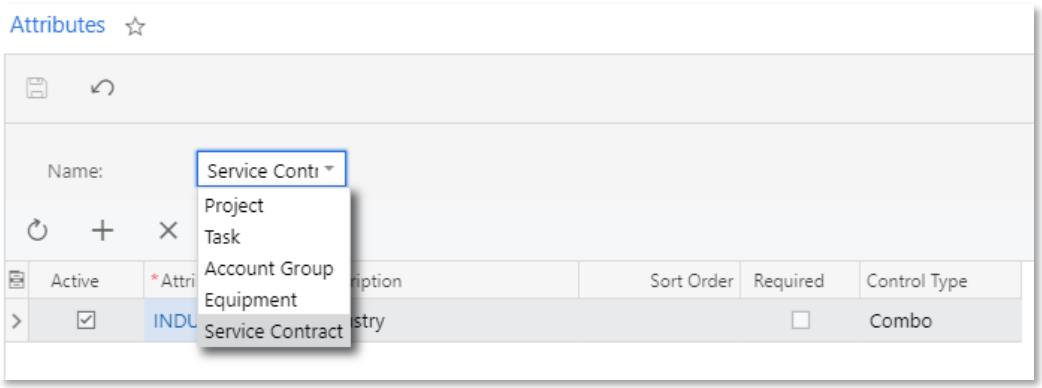
type selected in this box, when the system creates the target equipment from the sale of a stock item, the attributes of only equipment type are copied to the screen.



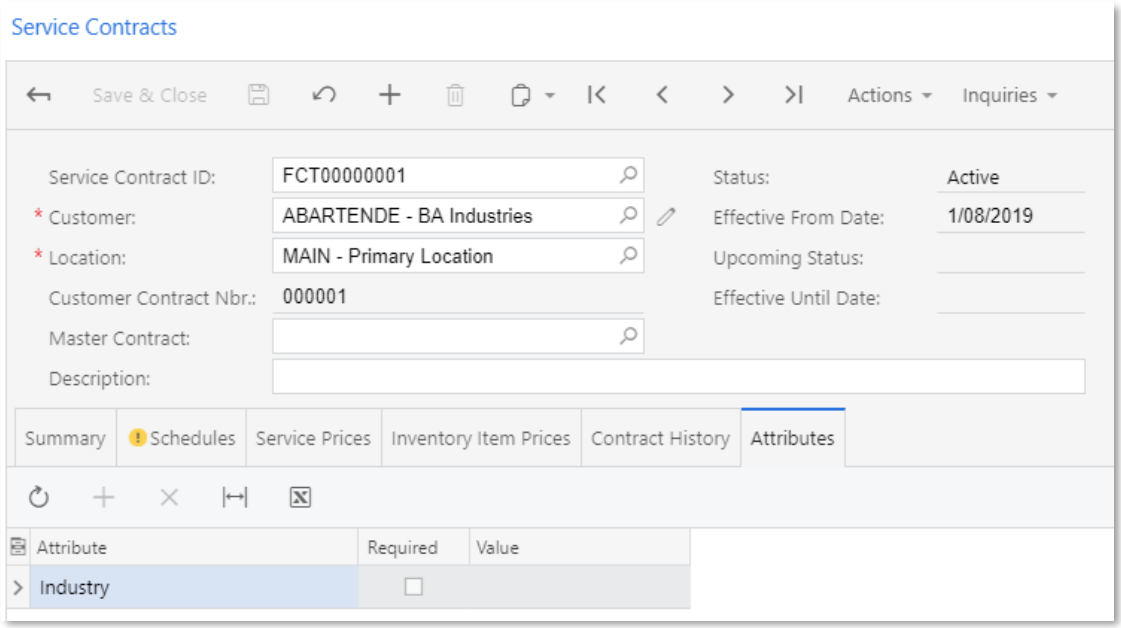
Attributes for Service and Route Service Contracts

After the attributes to be used for service and route service contracts have been defined on the Attributes screen (CS205000), the group of attributes is defined on the Attributes screen (PM202000).

On this screen, the necessary attributes are assigned to the new Service Contract entity type (see the following screenshot), which has been specifically designed to be used when the group of attributes is specified for service and route service contracts.



Users can specify, view, and modify the values of attributes associated with a service contract or route service contract on the Attributes tab of the Service Contracts (FS305700) or Route Service Contracts (FS300800) screen, respectively.



The attributes applied to service and route service schedules, once they have been defined in the system, are specified for the related service order type on Attributes tab of the Service Order Types screen (FS202300). Users can view and modify the values of attributes associated with a service and route service schedule on the Attributes tab of the Service Contract Schedules (FS305100) or Route Service Contract Schedules (FS305600) screen, respectively. When the system generates service orders or appointments from the contract, the attributes from the schedules are inherited to service orders or appointments.

Attributes for Vehicles and Route Executions

After the attributes to be used for service and route service contracts have been defined on the Attributes screen (CS205000), the group of attributes is defined on the Vehicle Types screen (FS204200). Users can view and modify the values of attributes associated with a vehicle on the Attributes tab of the Vehicles screen (FS203600).

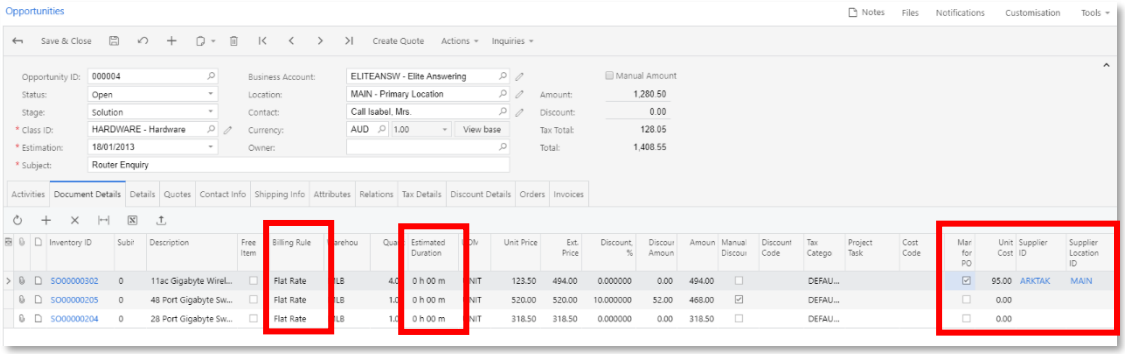
The attributes applied to route executions, once they have been defined in the system, are specified for a route on the Attributes tab of the Routes screen (FS203700). Users can view and modify the values of attributes associated with a route execution on the Attributes tab of the Route Document Details screen (FS304000).

Processing of Sales Quotes Along with Service Orders

This release improves the integration with opportunities to allow a user to create a sales quote that includes services and later (after the customer has agreed to the terms of the quote) create a service order to perform the job. Additionally, the user can mark an item that needs to be purchased in the sales quote and overwrite the default cost and supplier of the item (if necessary). This information is inherited in the sales orders and service orders that have already been created for the opportunity.

The following columns have been added on the Document Details tab of the Opportunities screen (CR304000):

- **Billing Rule**: Has the Flat Rate, Time, and None options.
- **Estimated Duration**: Indicates the estimated duration of a service.
- **Mark for PO**: Indicates that the line item needs to be purchased after the related service order or sales order is created.
- **Unit Cost**: Indicates the unit cost of the line item. If the Mark for PO check box is selected, the user can override the cost.
- **Supplier ID**: Indicates the supplier that provides the line item. If the Mark for PO check box is selected, the user can select the supplier.
- **Supplier Location ID**: Indicates the supplier location that provides the line item. If the Mark for PO check box is selected, users can select the supplier location.



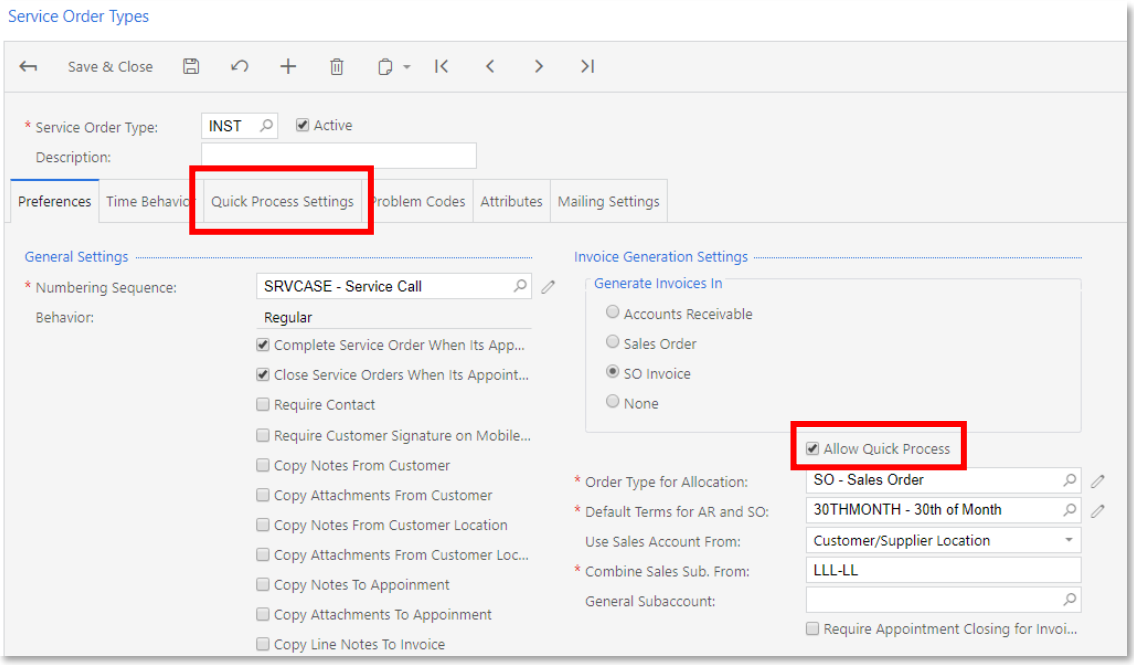
Additionally, line notes and attachments are copied from opportunities to the generated service orders. Whether the line notes and attachments are copied depends on the states of the Copy Notes and Copy Attachments check boxes on the Customer Management Preferences screen (CR101000).

Quick Processing

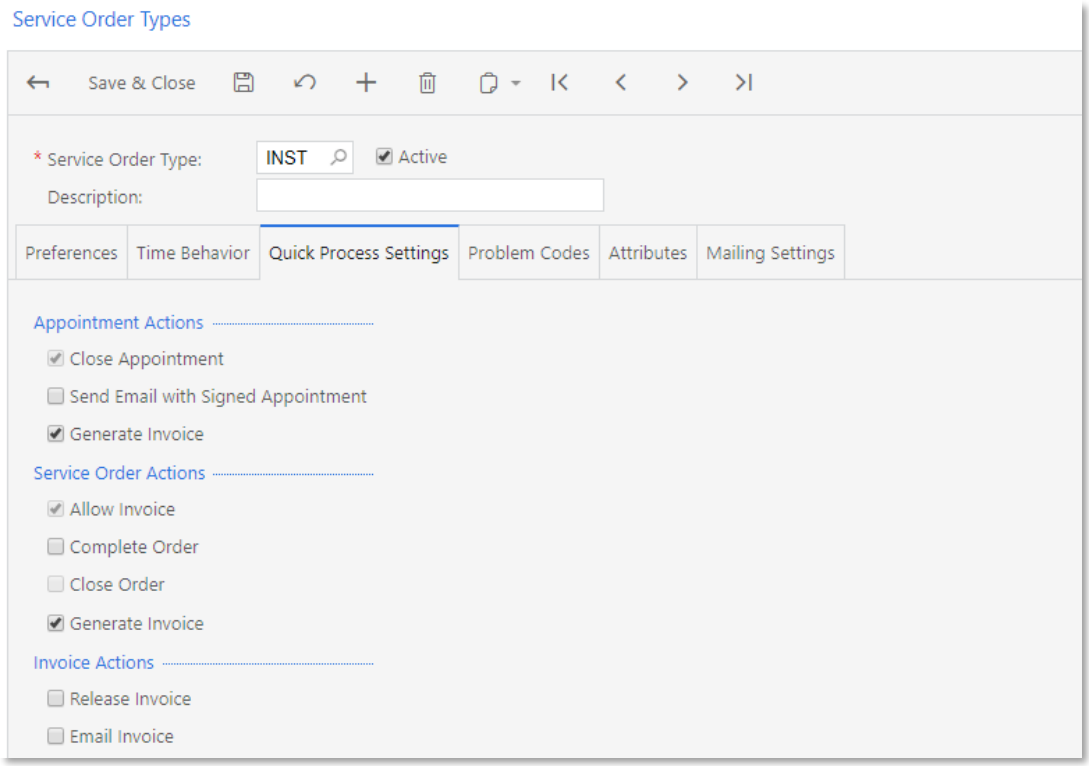
As of this release, users can process a service order or appointment along with a sales order in one click. The system performs the selected steps and keeps the user informed on the completion and outcome of each step.

Quick Processing Setup

If the **Allow Quick Process** check box is selected for a service order type in the Invoice Generation Settings section on the Service Order Types screen (FS202300), quick processing is allowed for the service type. This check box is available only if the **Sales Order** or **SO Invoice** option is selected under Generate Invoices In for the service order type. The Quick Process Settings tab becomes visible on the screen.

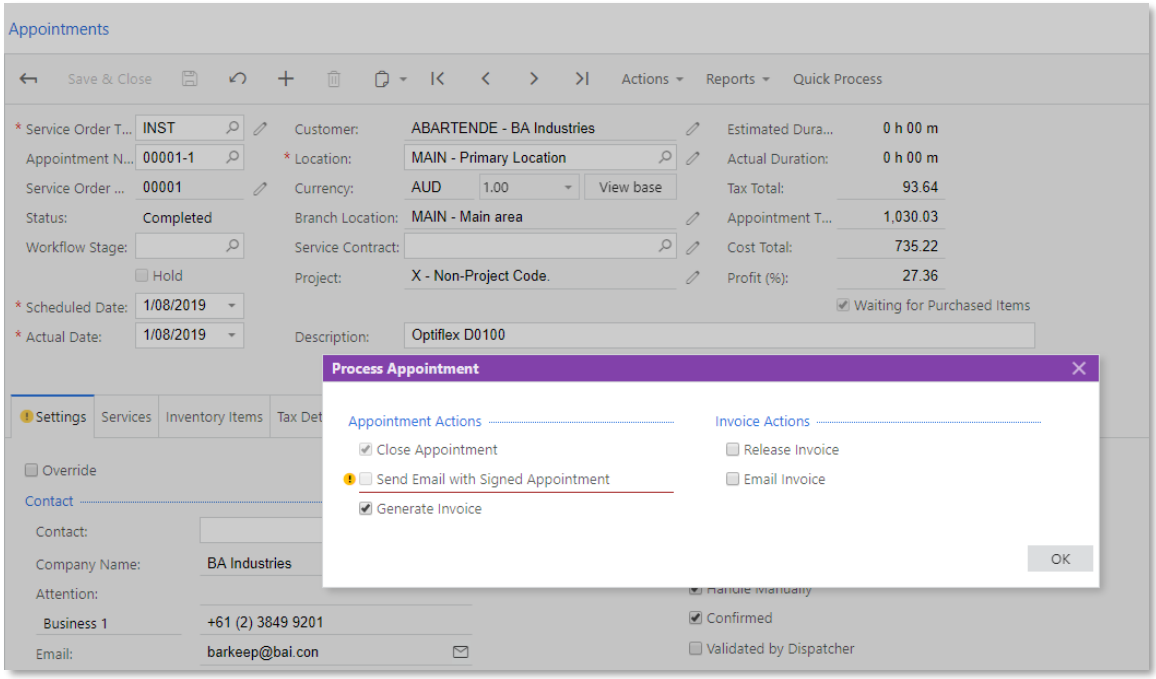


On the Quick Process Settings tab, the processing actions eligible for this type are listed. The administrator or service manager setting up quick processing specifies the actions to be performed by default by selecting the corresponding check boxes. The list of selected actions can be adjusted for each service order type.



Quick Processing of an Appointment

After the setup of quick processing has been performed, if the billing cycle is configured to generate invoices from appointments for a customer, the system will display the **Quick Process** button on the Appointments screen (FS300200). When a user clicks the button, the Process Appointment dialog box is displayed:

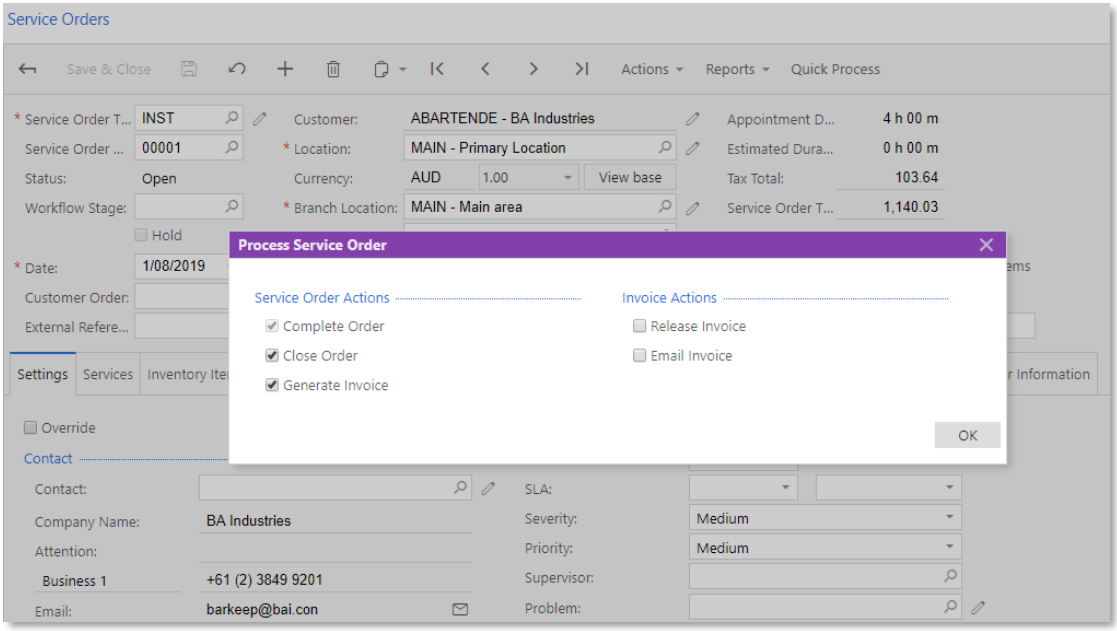


In the dialog box, the user can adjust the list of processing steps to be performed by selecting or clearing the corresponding check boxes. After reviewing the processing details, the user clicks **OK** and the system launches processing of the appointment. During the processing, the system notifies the user about the completion and outcome of each step.

After processing has completed, the user can view the created document or documents by clicking document identifiers (see the screenshot below). The user can send for printing the prepared screens by clicking the corresponding screen name. The system will open each link in a new tab, so the user can easily return to the processing results.

Quick Processing of a Service Order

After the setup of quick processing has been performed, if the billing cycle is configured to generate invoices from service orders for a customer, the system will display the **Quick Process** button on the Service Orders screen (FS300100). When a user clicks the button, the Process Service Order dialog box is displayed.

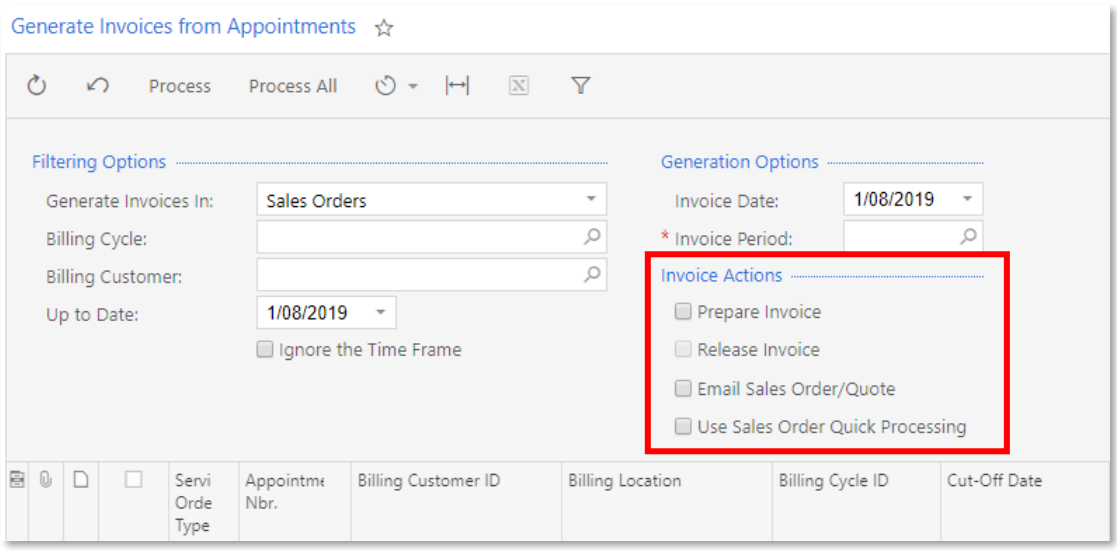


In the dialog box, the user can adjust the list of processing steps to be performed by selecting or clearing the corresponding check boxes. After reviewing the processing details, the user clicks **OK**, and he system launches the processing of the order. During the processing, the system notifies the user about the completion and outcome of each step.

After processing has completed, the user can view the created document or documents by clicking document identifiers. The user can send for printing the prepared screens by clicking the corresponding screen name. The system will open each link in a new tab, so the user can easily return to the processing results.

Quick Processing of Multiple Documents

On the Generate Invoices from Service Orders (FS500600) and Generate Invoices from Appointments (FS500100) screens, you can configure the system to perform multiple steps to process multiple documents with only one click by the user. On these screens, if users are generating sales orders for service orders or appointments, the Invoice Actions section appears in the Selection area (see the screenshot below). In this section, the users can select actions that the system will perform on invoices related to the generated sales orders.



Other Improvements

Users can now generate an invoice from the appointment or service order in one click. To do so, they click **Actions > Generate Appointment** on the screen toolbar of the Appointments screen (FS300200) or **Actions > Generate Invoice** on the Service Orders screen (FS300100).

Additionally, on the Invoice Info tab of the Appointments and Service Orders screens, users can click the link in the **Document Nbr.** field to navigate to the related screen and view the details of the invoice.

Improvements in Scheduling

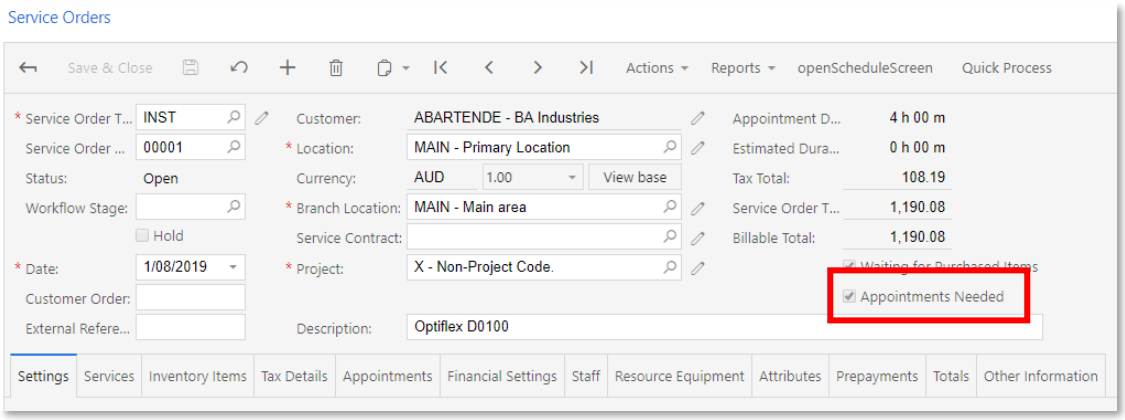
The following circumstances can now be indicated for a service order or appointment:

- Additional appointments must be scheduled for the service order.
- Appointments have not been scheduled for the service order.
- Not all work has been finished during the appointment, and a follow-up appointment is needed.

For these purposes, the **Appointments Needed** check box has been added to the Service Orders screen (FS300100), and a **Finished** check box has been added to the Appointments screen (FS300200).

Indicating That an Appointment Should Be Scheduled

Previously, when a user viewed a service order on the Service Orders screen (FS300100), it was not possible to view whether appointments needed to be scheduled or appointments are already scheduled for the service order. The read-only Appointments Needed check box has been added to the Summary area of the screen to indicate that a new or follow-up appointment needs to be created for the service order.



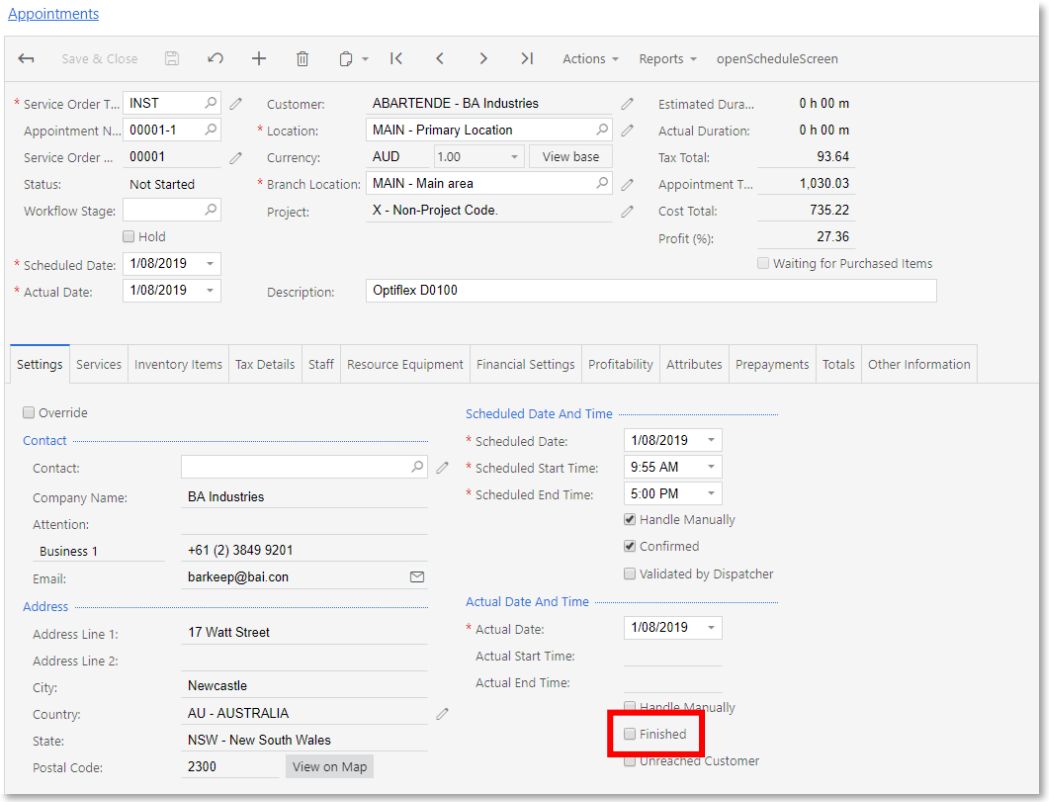
The system ticks the **Appointments Needed** box for a service order under the following conditions:

- At least one line item on the Services or Inventory Items tab is not associated with an appointment.
- At least one associated appointment is not finished, and no appointment has been scheduled after.

On Calendar Board screens, on the Service Orders tab, users can view service orders for which the **Appointments Needed** check box is selected only.

Indicating That an Appointment Has Been Performed Successfully

To provide the ability to convey to other users whether all necessary work has been performed during an appointment, the **Finished** check box has been added to the Settings tab of the Appointments screen (FS300200), as shown in the screenshot below. A staff member selects this check box before he or she completes an appointment to indicate that no follow-up appointment is necessary.



Ability to Generate SO Invoices

In this release, service personnel can now directly generate an SO invoice from a service order or an appointment.

Note: For SO invoices to be generated, the *Advanced SO Invoices* feature has to be enabled on the Enable/Disable Features screen (CS100000).

For details on generating of billing documents from service orders and appointments, see "Generation of Billing Documents from Service Orders" and "Generation of Billing Documents from Appointments" in the User Guide.

Changes on the Service Order Types Screen

The following changes have been made on the Service Order Types screen (FS202300):

- In the Invoice Generation Settings section of the Preferences tab, the **SO Invoice** option button has been added under **Generate Invoices In**. This is now the default option for new service order types (see the screenshot below).
- If the **SO Invoice** option button is selected, the **Order Type for Invoice** and **Order Type for Negative Balance** boxes are hidden.

- If the **SO Invoice** option button and the **Allow Quick Process** check box are selected, the Quick Process Settings tab is displayed but the Sales Order Actions section is hidden.

Changes on Other Screens

The following changes have been made to MYOB Advanced screens:

- On the Generate Invoices from Service Orders (FS500600) and Generate Invoices from Appointments (FS500100) screens, in the Filtering Option section, the **SO Invoice** option has been added to the Generate Invoices In box.
- If the **SO Invoice** option button is selected on the Service Order Types screen (FS202300), and a user uses quick processing on the Service Orders (FS300100) or Appointments (FS300200) screen, the Sales Order Actions section is not displayed in the Process Service Order or Process Appointment dialog box, respectively.
- On the Document Details tab of the Invoices screen (SO303000), the following changes have been made (see the screenshot below):
- The Equipment Action column has been added. The column displays the equipment- related action that is performed by a staff member (or multiple staff members). The column is read-only; the system copies its settings from the associated sales order, service order, or appointment.
- The Target Equipment column has been renamed to Target Equipment ID.
- The Component Line Ref. column has been added. The column is the line reference number of the component that is replaced if the Replacing Component option is selected in the Equipment Action column. The column is read-only; the system copies its settings from the associated sales order, service order, or appointment.
- On the Equipment Management Preferences (FS100300) and Route Management Preferences (FS100400) screens, in the Invoice Generation Settings section, **the SO Invoice** option button has been added under Generate Invoices In.

Staff Member Locations and Locations History

With the new Location Tracking functionality in this release (see page 188), the ability to view the latest locations of staff members and their actual routes for a particular day on the new Appointment History Map screen (FS301200) has been added. Additionally, the Staff Appointments on Map (FS301100), Staff Routes on Map (FS301000), and Appointment History Map (FS301200) screens now show the latest locations of staff members. The locations of staff members can be shown if location tracking is turned on for these users the Users screen (SM201010).

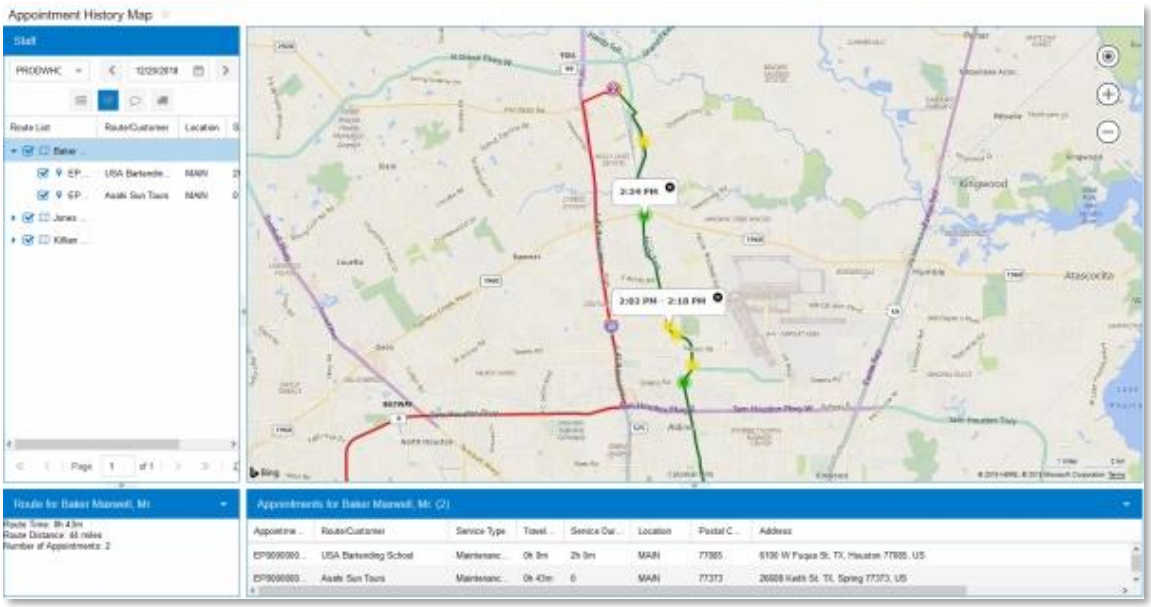
The New Appointment History Map

The Appointment History Map screen (FS301200) has been created (see the screenshot below). The new map has a similar interface to that of the Staff Appointments on Map screen (FS301100). The difference between these maps is that the Appointment History Map screen shows both the route suggested by Bing maps and the actual route of the staff member, which is calculated based on the location tracking engine of the mobile app.

In the map area of the Appointment History Map screen, you can view the following information (also shown in the screenshot below) for the date and branch (if applicable) selected in the Staff pane:

- The actual route of the staff member: The route is displayed in green colour. The system generates it in accordance with the locations tracked for the user.
- The route of the staff member that was suggested by Bing Maps: The route is displayed in the default colour of Bing Maps. This is the route that has been built by Bing Maps.
- The latest location of the staff member: The most recent location is marked with a driver location (D) icon. You click this icon to see the location information (that is, the staff member's name and the time when the location was registered).
- The locations where the staff member was idle: These are the locations at which the staff member stayed for more than 15 minutes within a 5-kilometer or 3.1-mile range. These locations are displayed as yellow dots. You can click any yellow dot to see the time range when the staff member was at this location.
- The locations where a staff member was moving: At these locations, the staff member stayed for less than 15 minutes within a 5-kilometer or 3.1-mile range—that is, the staff member was moving. These locations are displayed as green dots. You can click any green dot to see the time when the staff member was at this location.

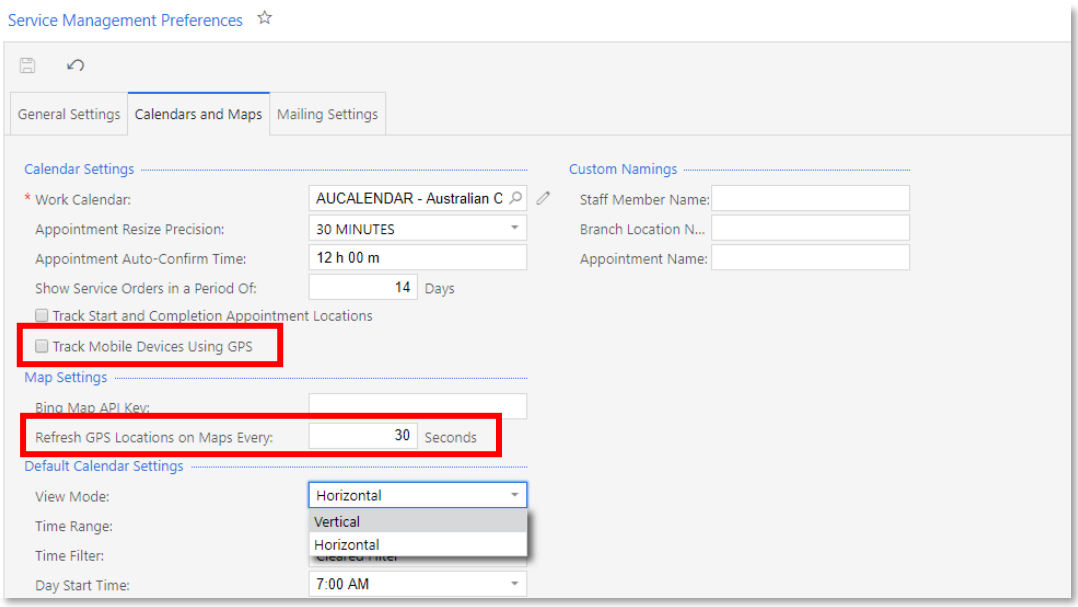
The system updates the information on the current location of the staff member every 15 minutes.



Changes on the Service Management Preferences Screen

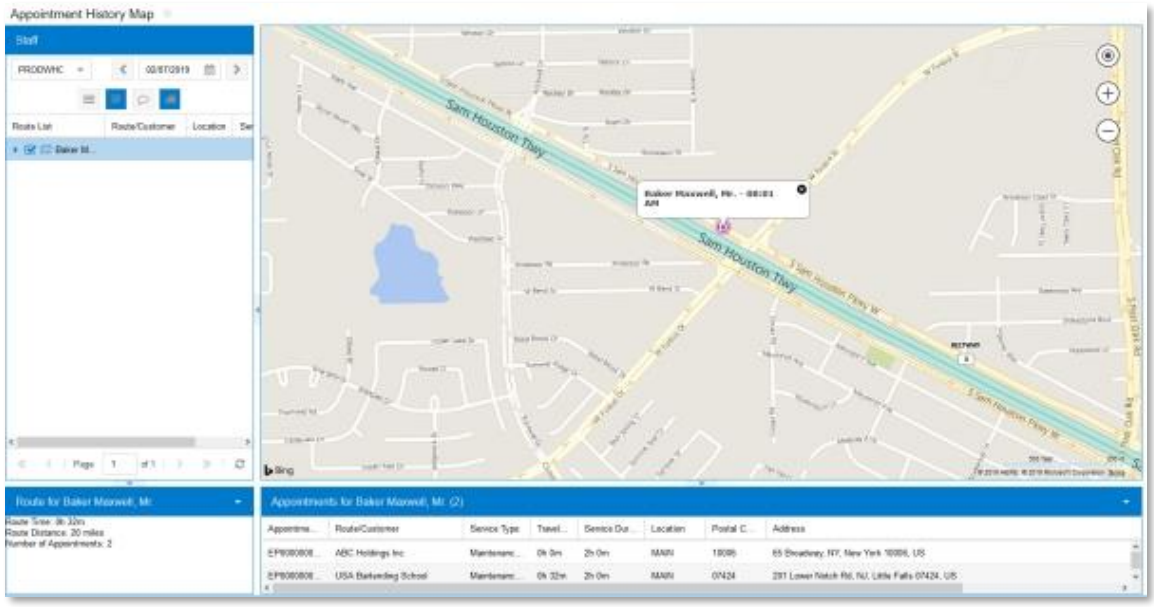
The following elements have been added to the Calendars and Maps tab of the Service Management Preferences screen (FS100100)—see the screenshot below:

- The **Track Mobile Device Using GPS** check box, which indicates (if selected) that the most recent locations of staff members are shown on the Staff Appointments on Map (FS301100) and Staff Routes on Map (FS301000) screens.
- The **Refresh GPS Locations on Maps Every x Seconds** box, which defines how often the staff member locations are refreshed (in seconds) on the Staff Appointments on Map and Staff Routes on Map screens.



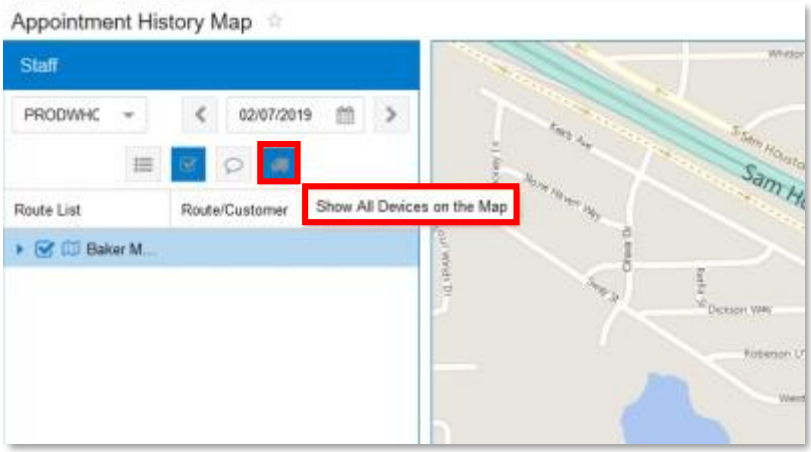
Changes on the Staff Appointments on Map and Staff Routes on Map Screens

If the **Track Mobile Device Using GPS** check box is selected on the Service Management Preferences screen (FS100100), users now can view the most recent locations of staff members (indicated with the D icon) on the Staff Appointments on Map (FS301100) and Staff Routes on Map (FS301000) screens, as the following screenshot shows.

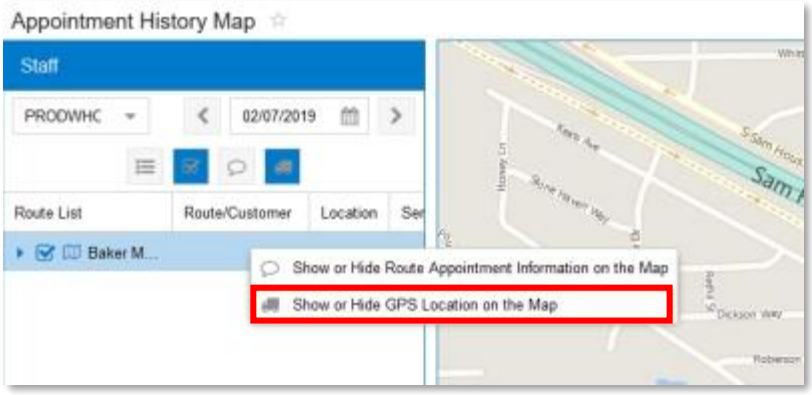


Also, the following changes have been made on the Staff tab of the screens:

- A **Show All Devices on the Map** button has been added. When it is selected, the most recent tracked coordinates of the staff members appear on the map with the D icon. When a user clicks this icon, the informational box shows the employee name and the time when the location was registered.



- The **Show or Hide GPS Location** on the Map action has been added to the menu that appears when you right-click a user. This action shows or hides the latest location coordinates of the selected staff member on the map. When a user clicks this action to show the coordinates, the system zooms in on the map to the related D icon.



Numbering Sequences for Service Contracts and Their Schedules

Previously, the numbering of service contracts on the Service Contracts (FS305700) and Route Service Contracts (FS300800) screens was performed automatically by the system, as was the numbering of schedules on the Service Contract Schedules (FS305100) and Route Service Contract Schedules (FS305600) screens.

The contract numbering consisted solely of numerals, and the system generated the number for each particular customer independently; thus, the same contract numbers could be assigned to multiple contracts. For example, the ABARTENDE customer had service contracts with the 00001 and 00002 reference numbers, and the ABCHOLDING customer had a service contract with the 00001 reference number. The schedule numbers, which were a combination of the service contract number and the number of the schedule sequence, were also generated by the system. For example, 00001-1 was the number of the first schedule of the 00001 contract for ABARTENDE (and the number of the first schedule of the 00001 contract for ABCHOLDING). Thus, to select a particular contract or contract schedule, a user had to first select the customer and then select the reference number of the document.

As of this release, the following numbering sequences for service contracts and schedules have been defined on the Numbering Sequences screen (CS201010):

- FSCONTRACT (FS Contract): The numbering sequence for service and route service contracts, which has the FCT00000000 format and a numbering step of 1
- FSSCHEDULE (FS Schedule): The numbering sequence for service and route service contract schedules, which has the FSC00000000 format and a numbering step of 1

The system uses these numbering sequences to generate the identifiers for service contracts and their schedules for all customers. Thus, each identifier is unique in the system.

Note: The previous numbering sequence for service contracts and schedule is stored in the database, and the system still continues to generate the numbers of contracts and schedules by using the old sequence along with generation of the numbers of contracts and schedules by using the new sequence.

System Upgrade Notes

During the upgrade to 2019.1, the system automatically uses the FSCONTRACT numbering sequence to assign numbers to the existing service contracts and the FSSCHEDULE numbering sequence to assign numbers to the existing contract schedules.

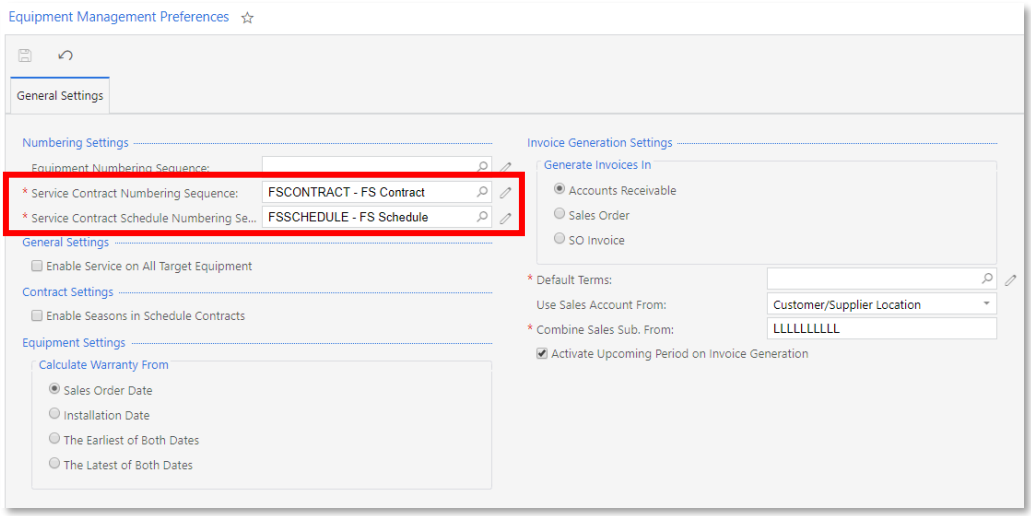
If it is necessary in a particular company to use the old numbers in reports or in a customisation, an appropriate administrative user has to update the reports or the customisation as follows to refer to the new database columns:

- For service contracts, the old numbering sequence is stored in the CustomerContractNbr column of the FSServiceContract database table.
- For service contact schedules, the old numbering sequence is stored in the OldContractScheduleRefNbr column of the FSSchedule database table.

Changes on the Preference Screens

On the Equipment Management Preferences (FS100300) and Route Management Preferences (FS100400) screens, the new following boxes have been added:

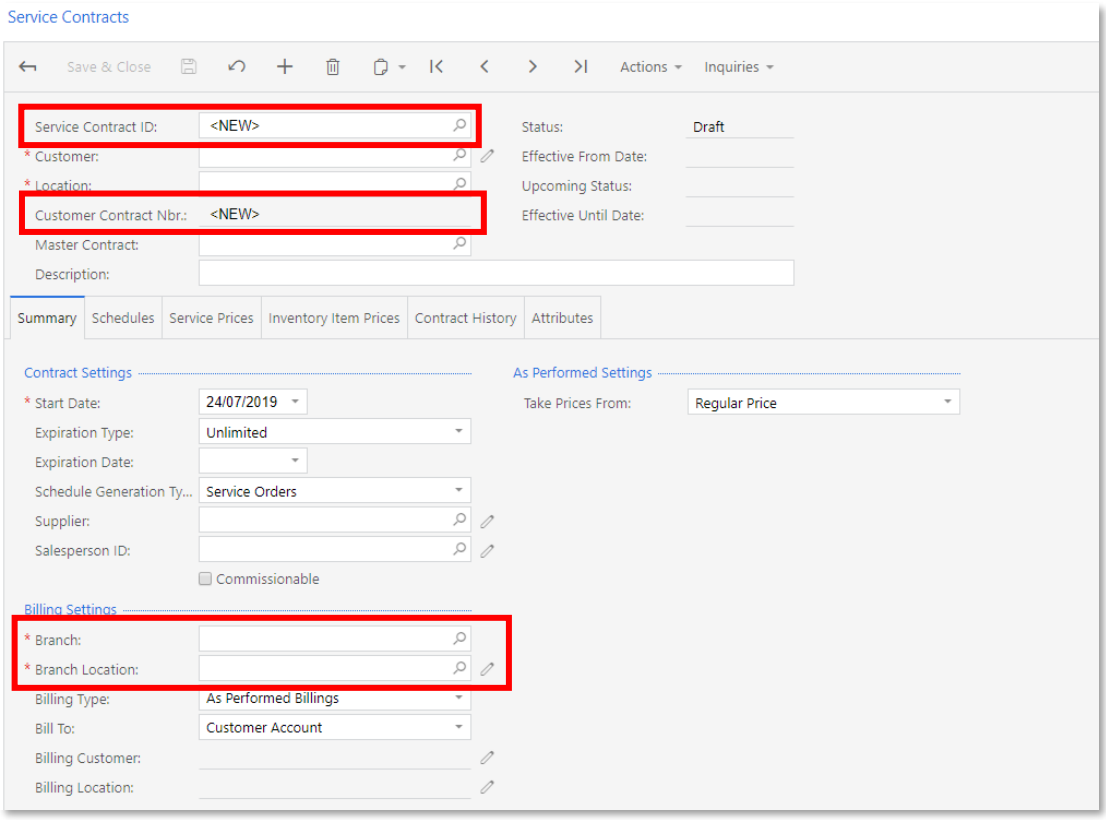
- **Service Contract Numbering Sequence**: The numbering sequence the system uses to assign identifiers to the service contracts created on the Service Contracts screen (FS305700) and route service contracts created on Route Service Contracts screen (FS300800). By default, FSCONTRACT is inserted in this box.
- **Service Contract Schedule Numbering Sequence**: The numbering sequence the system uses to assign identifiers to the service contract schedules created on the Service Contract Schedules screen (FS305100) and route service contract schedules created on the Route Service Contract Schedules screen (FS305600). By default, FSSCHEDULE is inserted in this box.



Changes on the Service Contracts and Route Service Contracts Screens

The following changes have been made on the Service Contracts (FS305700) and Route Service Contracts (FS300800) screens (see the screenshot below, which shows these changes on the Service Contracts screen):

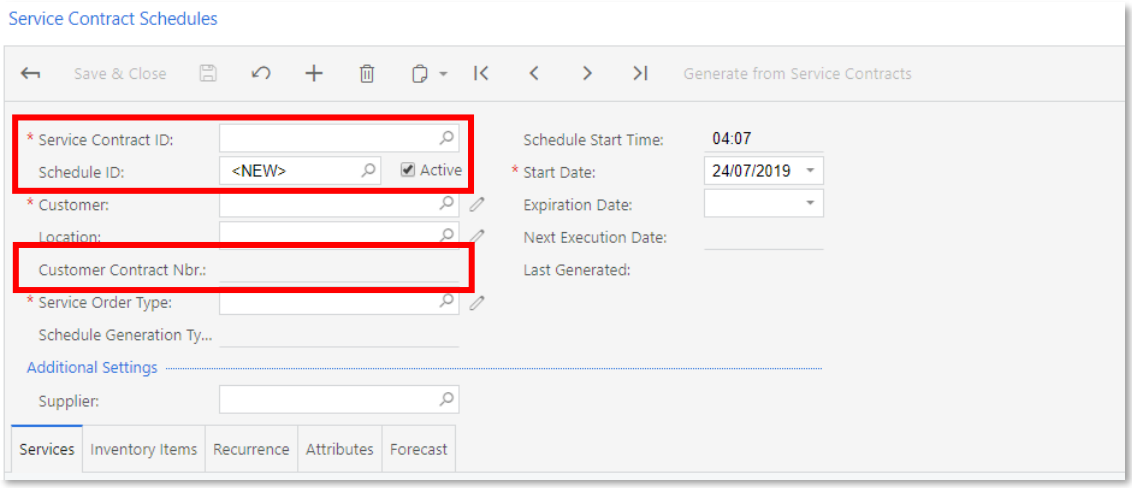
- The **Service Contract ID** box has been added to the screen. For documents that already existed at the time of the upgrade, this is the new identifier of the document, which was inserted during the upgrade. For new documents that are generated after the upgrade, the system automatically generates this ID by using the numbering sequence assigned on the respective preference screen. Because now the generation of the service contract identifiers does not depend on customers, a user doesn't need to select customer to view a particular contract created in the system.
- The **Customer Contract Nbr.** box has been added, which contains the number generated by using the old numbering sequence. This box is read-only, and the system continues to generate its reference numbers (using the old sequence) after the upgrade.
- The **Branch** and **Branch Location** boxes have been moved to the Billing Settings section of the Summary tab.



Changes on the Service Contract Schedules and Route Service Contract Schedules Screens

The following changes have been made on the Service Contract Schedules (FS305100) and Route Service Contract Schedules (FS305600) screens:

- The **Service Contract ID** box has been added to the screen to show the new reference number of the related service contract.
- The **Schedule ID** box has been added to the screen. For documents that already existed at the time of the upgrade, this is the new identifier of the schedule, which was inserted during the upgrade. For new documents that are generated after the upgrade, the system automatically generates this ID by using the numbering sequence assigned on the respective preference screen. Because now the generation of the contract schedule identifiers does not depend on customers, a user doesn't need to select a customer to view a particular schedule created in the system.
- The **Customer Contract Nbr.** box has been added, which contains the number generated by using the old numbering sequence. This box is read-only, and the system continues to generate its reference numbers (using the old sequence) after the upgrade.



Changes on Other Screens

The following changes have been made on other screens, inquiries, and reports that contain information related to service contracts:

- The Service Contract ID element now shows the new identifier of the service contract. The Schedule ID element now shows the new identifier of the service contract schedule.

Pop-Up Notes in Service Orders and Appointments

In previous versions, for service orders and appointments, the functionality of pop-up notes has been provided for non-stock items of the Service type only. To turn on the display of a pop-up note when a service was added to an appointment or service order, on the Service Management tab of the Non-Stock Items screen (IN202000), the user selected the **Open Note When Service Is Selected** check box.

As of this release, the **Open Note When Service Is Selected** check box has been removed from the Non-Stock Items screen (IN202000), and now the Appointments (FS300200) and Service Orders (FS300100) screens are compatible with the pop-up note functionality. The functionality applies for customers, non-stock items, and stock items that have the **Add Pop-Up Notes** check box selected in the Enter Record Note dialog box of the Customers (AR303000), Non-Stock Items (IN202000), or Stock Items (IN202500) screen, respectively.

Note: The system must be prepared before it is upgraded if the company has been using the pop-up notes functionality in service management, as described below.

For information on how to attach a pop-up note to a record, see “To Attach a Pop-Up Note to a Record” in the User Guide.

System Upgrade Notes

To keep showing the pop-up notes that were shown for the field services documents in previous versions of MYOB Advanced, an appropriate system user should:

1. On the Non-Stock Items screen (IN202000), open each document of the Service type.
2. If the **Open Note When Service Is Selected** check box is selected for the non-stock item of the Service type, click **Notes** on the screen title bar, select the **Add Pop-Up Notes** check box, and copy the text from the **Note** box to the **Pop-Up Note** box.

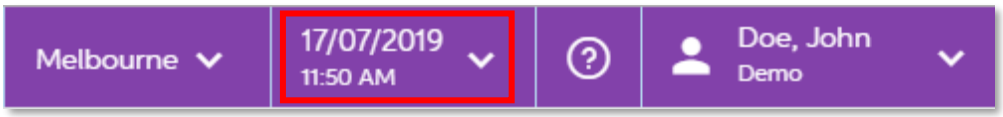
Alternatively, the user can contact the MYOB Support for help with the upgrade process.

Platform

Access Restriction for Editing the Business Date

The date of a document or a transaction plays an important role in the generation of collection reports or reconciliation, and by default, the system uses the current business date for newly created documents. As such, the business date should be changed by only authorised users who know that this change affects all users in the system and would use the capability judiciously.

In this release, the new Secure Business Date feature has been introduced to restrict the ability to change a business date to only users with the BusinessDateOverride role. These users can click the Business Date menu button in the info area, as shown in the following screenshot, and then type or select the needed business date.



If a user is not assigned the BusinessDateOverride role when the "Secure Business Date" feature is enabled on the Enable/Disable Features screen (CS100000), the user will view the business date as an informational area and have no ability to change it, as shown in the following screenshot.

Assigning the Role

By default, the Business Date Override role is not available in the system. This role appears only when the Secure Business Date feature is enabled on the Enable/Disable Features screen. An administrator can assign the BusinessDateOverride role to a user by using one of the following screens:

- Users (SM201010): On this screen, the administrator selects a user, and on the Roles tab, the administrator selects the **Selected** check box for the BusinessDateOverride role in the table.
- User Roles (SM201005): With the BusinessDateOverride role selected, on the Membership tab, the administrator adds a row for the user to whom the role should be assigned.

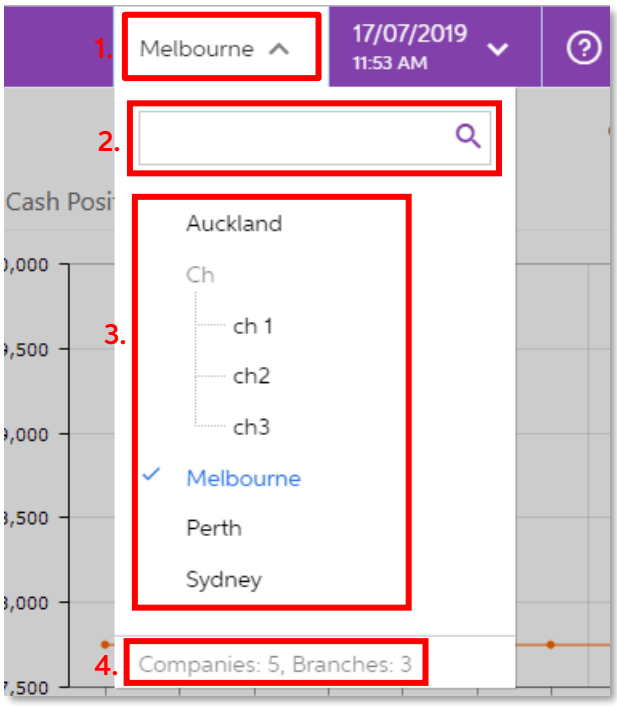
New Company and Branch Selection Menu

In previous versions, a new entity, company, has been introduced to clarify the difference between branches that represent legal entities and branches that represent offices or points of sales within the same legal entity. To help users easily navigate between companies and branches, a new company and branch selection menu has been introduced in this release.

The selection menu has been added to the info area, in the upper-right corner of the MYOB Advanced interface, as shown in the following screenshot. The selection menu displays all the available companies with their branches (if any) as a tree to reflect parent-child relations between these entities.

Selection Menu Interface

The interface of the selection menu is straightforward and easy to use.



1. Displays the company and branch names to which the user is currently signed in
2. Provides the ability to search for a company or a branch
3. Displays the available companies and their branches in a tree format
4. Provides information about the number of configured companies and branches

Ability to Switch Between Companies and Branches

Switching between companies and branches is quite easy. The user opens the selection menu and clicks the name of a company or a branch to which this user wants to sign in. Note that if a company has branches, the company node is not available for selection; the user needs to select a particular branch instead.

Ability to Search for a Company or a Branch

The selection menu is designed to display a limited number of the configured companies and branches to not overload the user interface. If a system has multiple companies and branches configured, it will be easier to find a needed one by using the search. The user starts typing a name in the search box and the system offers possible options for selection.

Expanded System Monitoring Capabilities

In this release, the screen that was formerly called Running Processes (SM201530) has been renamed to System Monitor and has been enhanced as follows:

- The Active Users tab has been added.
- The Resource Usage tab has been added.
- The Active Treads button has been moved from the Request Profiler screen (SM205070) to the System Monitor screen.
- The Memory Usage area and Collect Memory button have been moved from the Request Profiler screen to the System Monitor screen.
- CPU usage information has been added to the System Monitor screen.

Redesign of Pivot Tables

In this release, a pivot table can be used as a filter tab on a generic inquiry screen.

Note: When a pivot table is used in this way, the pivot table that is saved as a generic inquiry filter tab will only be available as the filter tab for the generic inquiry. It will not appear on the Pivot Tables screen (SM208010).

To Use a Pivot Table as a Filter Tab

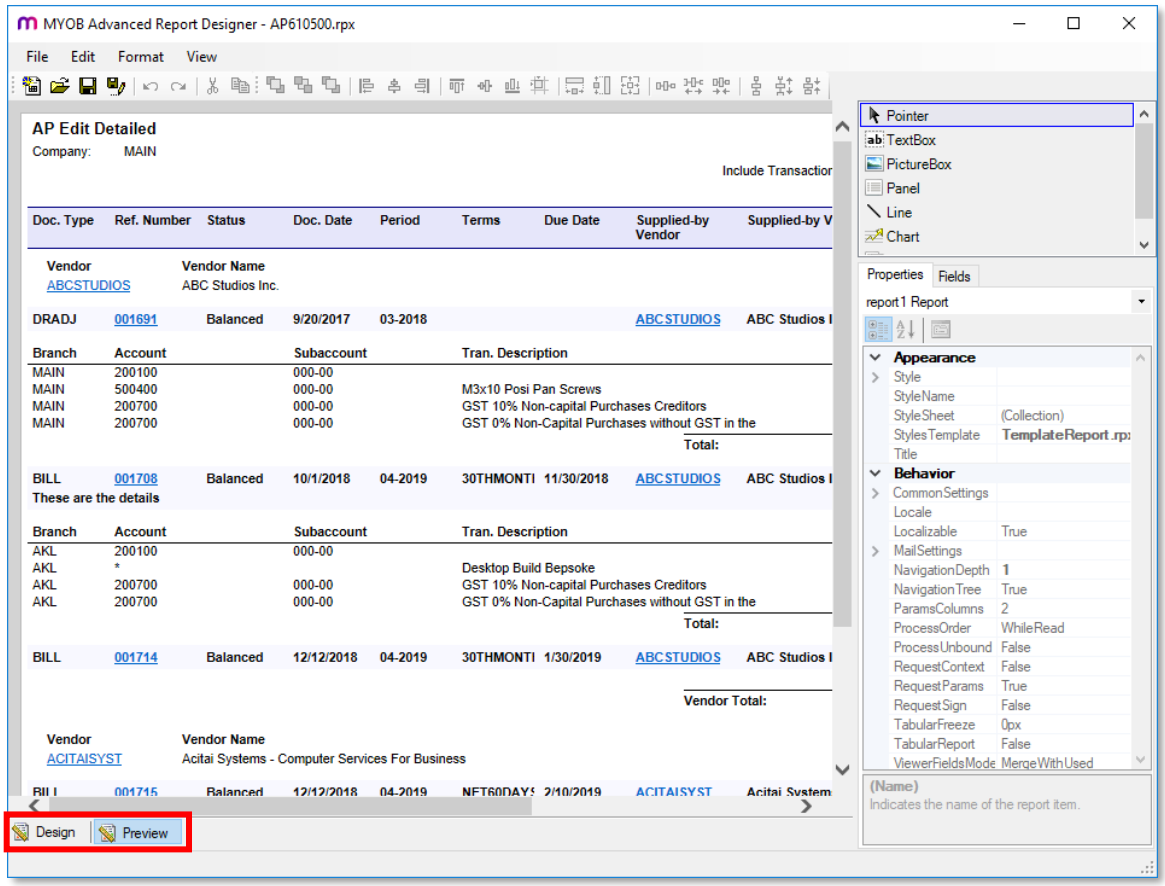
1. On the Generic Inquiry screen (SM208000), select the generic inquiry to which you want to add a filter to and click **View Inquiry**.
2. In the filtering area above the table, click **... > Save As Pivot**.
3. In the dialog box that opens, in the Filter Name field, type the name to be used as the name of the tab with the pivot table on the inquiry screen. If you want to share this pivot table with other users, tick the **Shared Filter** check box.
4. Click **OK** to save the pivot table and close the dialog box. The pivot table edit tab is opened so that you can make edits.
5. Set up the pivot table, as described in “To Add a Pivot Table” in the User Guide.
6. In the filtering area above the table, click the **Edit Pivot Table** icon. The changes are saved and the resulting pivot table opens.

Note: Click **Edit Pivot Table** again if you need to make more edits in the pivot table.

Report Designer Preview Mode

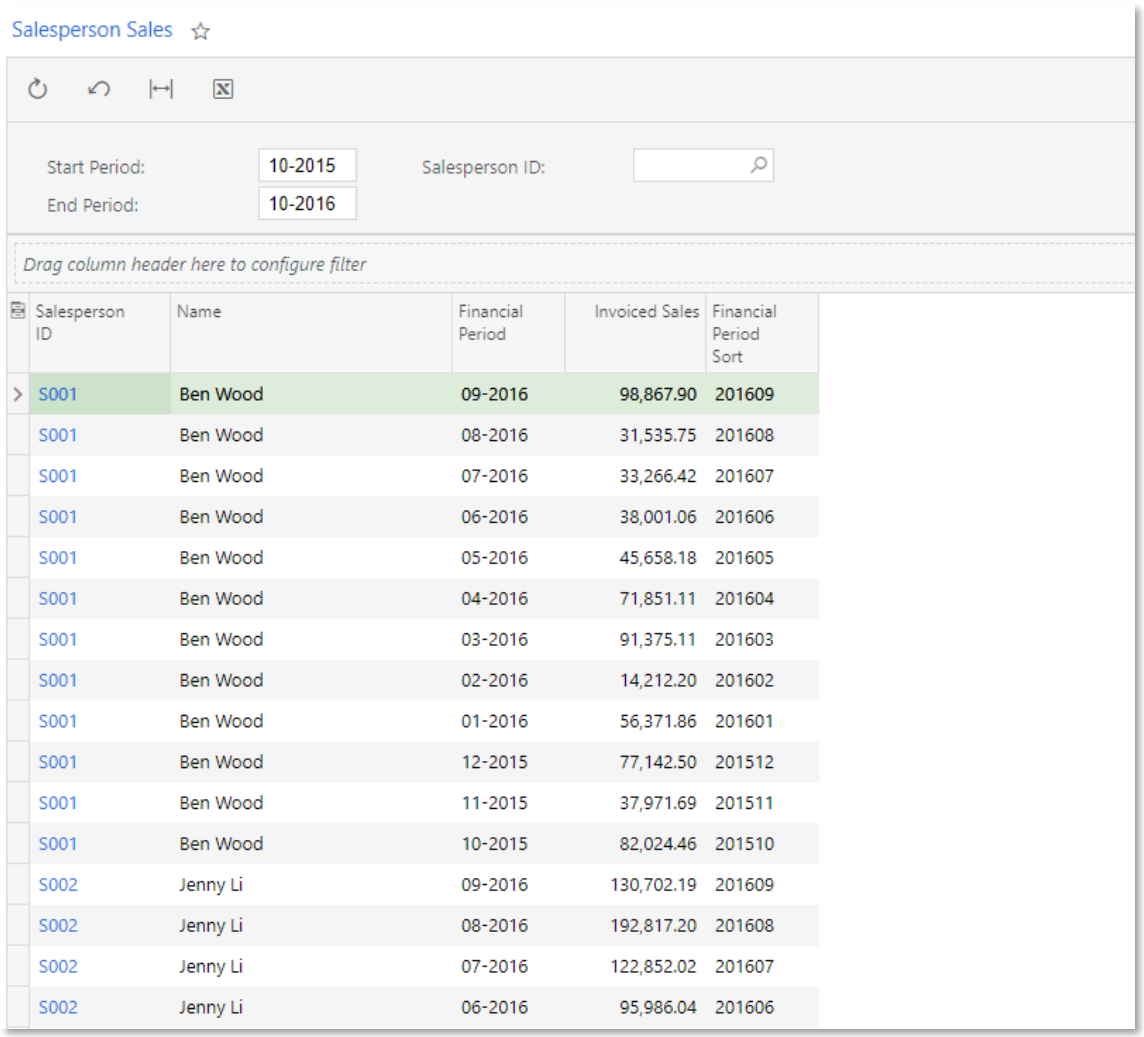
In this release, the Report Designer has been enhanced with Preview mode, which is shown in the following screenshot. The user can now switch between Design and Preview mode at any time using the tabs at the bottom of the window. Preview mode makes the design process more convenient, providing a good idea of what the resulting report will look like.

If the report consists of multiple pages, each page is separated from the next one by a page break.



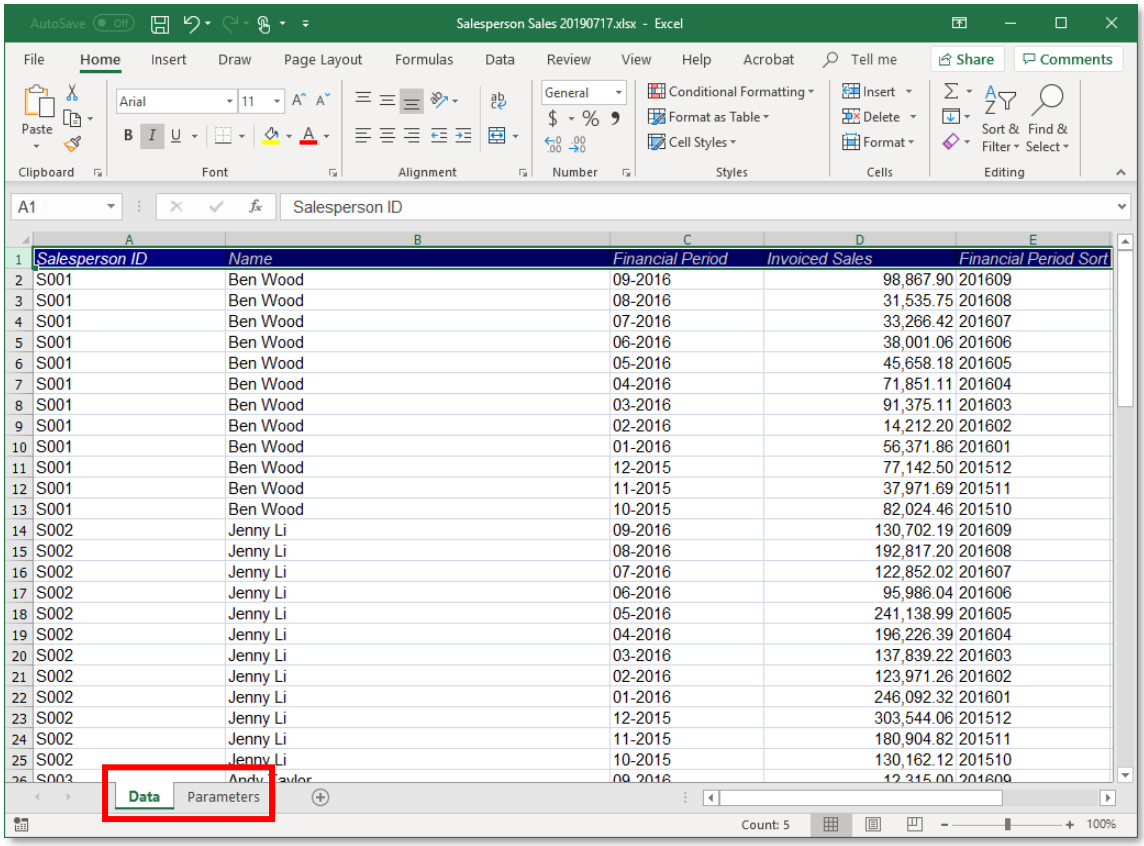
Export of Generic Inquiry Parameters to Excel

In this release, the algorithm used to export a generic inquiry to Microsoft Excel (which a user would do by clicking the screen toolbar button shown in the following screenshot) has been enhanced to place parameters on a separate Excel sheet.



Salesperson ID	Name	Financial Period	Invoiced Sales	Financial Period Sort
S001	Ben Wood	09-2016	98,867.90	201609
S001	Ben Wood	08-2016	31,535.75	201608
S001	Ben Wood	07-2016	33,266.42	201607
S001	Ben Wood	06-2016	38,001.06	201606
S001	Ben Wood	05-2016	45,658.18	201605
S001	Ben Wood	04-2016	71,851.11	201604
S001	Ben Wood	03-2016	91,375.11	201603
S001	Ben Wood	02-2016	14,212.20	201602
S001	Ben Wood	01-2016	56,371.86	201601
S001	Ben Wood	12-2015	77,142.50	201512
S001	Ben Wood	11-2015	37,971.69	201511
S001	Ben Wood	10-2015	82,024.46	201510
S002	Jenny Li	09-2016	130,702.19	201609
S002	Jenny Li	08-2016	192,817.20	201608
S002	Jenny Li	07-2016	122,852.02	201607
S002	Jenny Li	06-2016	95,986.04	201606

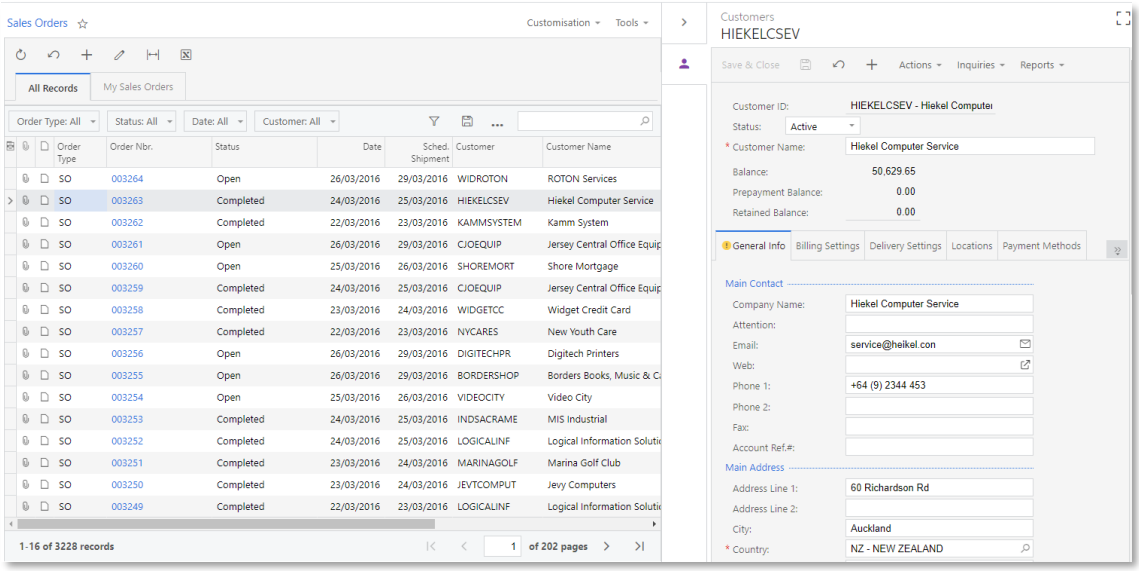
The resulting Microsoft Excel file will now have the Data sheet, which contains the actual generic inquiry data, and the Parameters sheet, which contains the parameters that were set up prior to exporting to Excel.



Salesperson ID	Name	Financial Period	Invoiced Sales	Financial Period Sort
S001	Ben Wood	09-2016	98,867.90	201609
S001	Ben Wood	08-2016	31,535.75	201608
S001	Ben Wood	07-2016	33,266.42	201607
S001	Ben Wood	06-2016	38,001.06	201606
S001	Ben Wood	05-2016	45,658.18	201605
S001	Ben Wood	04-2016	71,851.11	201604
S001	Ben Wood	03-2016	91,375.11	201603
S001	Ben Wood	02-2016	14,212.20	201602
S001	Ben Wood	01-2016	56,371.86	201601
S001	Ben Wood	12-2015	77,142.50	201512
S001	Ben Wood	11-2015	37,971.69	201511
S001	Ben Wood	10-2015	82,024.46	201510
S002	Jenny Li	09-2016	130,702.19	201609
S002	Jenny Li	08-2016	192,817.20	201608
S002	Jenny Li	07-2016	122,852.02	201607
S002	Jenny Li	06-2016	95,986.04	201606
S002	Jenny Li	05-2016	241,138.99	201605
S002	Jenny Li	04-2016	196,226.39	201604
S002	Jenny Li	03-2016	137,839.22	201603
S002	Jenny Li	02-2016	123,971.26	201602
S002	Jenny Li	01-2016	246,092.32	201601
S002	Jenny Li	12-2015	303,544.06	201512
S002	Jenny Li	11-2015	180,904.82	201511
S002	Jenny Li	10-2015	130,162.12	201510

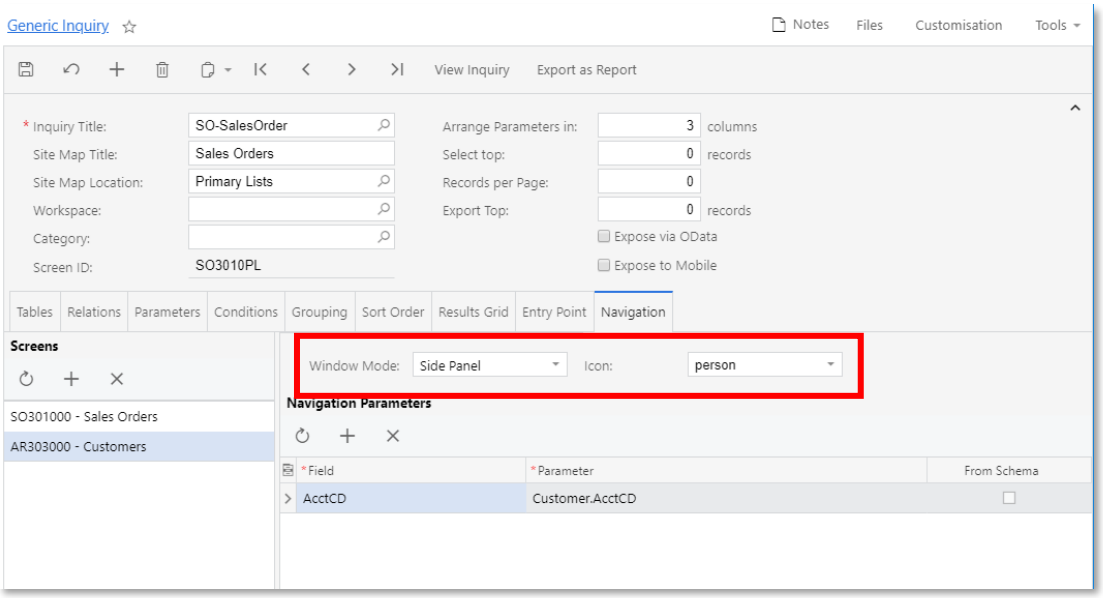
New Navigation Option in Generic Inquiries

This release adds a new “Side Panel” navigation parameter for generic inquiries. Users can now view the details of entities related to a record in the inquiry on the same screen in the side panel. For example, you could display customer details for the selected sales order in the side panel:



Adding a Side Panel Navigation Path

A user can add a side panel navigation path to existing generic inquires or new ones by using the Navigation tab of the Generic Inquiry screen (SM208000). In the Screens area, the user adds a screen of the related entity whose details the user wants to review and in the Navigation Parameters table specifies the parameters to be passed to the selected screen. Then in the **Window Mode** drop-down list, the user selects the “Side Panel” option; in the **Icon** box, the user selects an image to be displayed in the selection area of the side panel. The following screenshot illustrates adding a side panel navigation path to a generic inquiry.



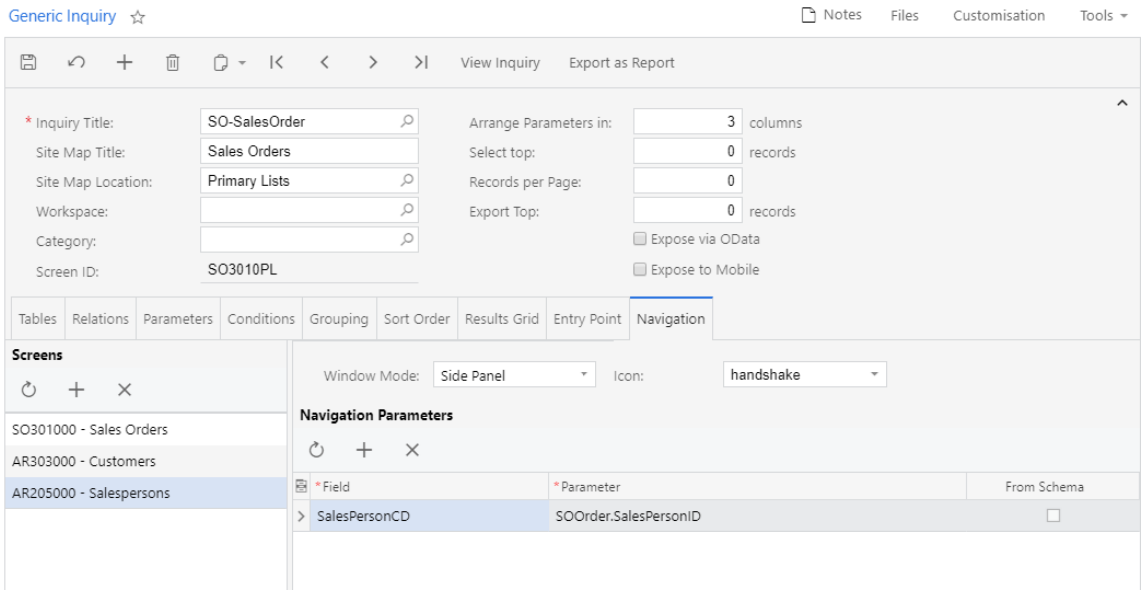
With the side panel navigation path added, users can view the details of the related entity for each record in the list returned by the generic inquiry.

Users can maximise or minimise the side panel. The side panel can also be resized, and its size will be saved automatically.

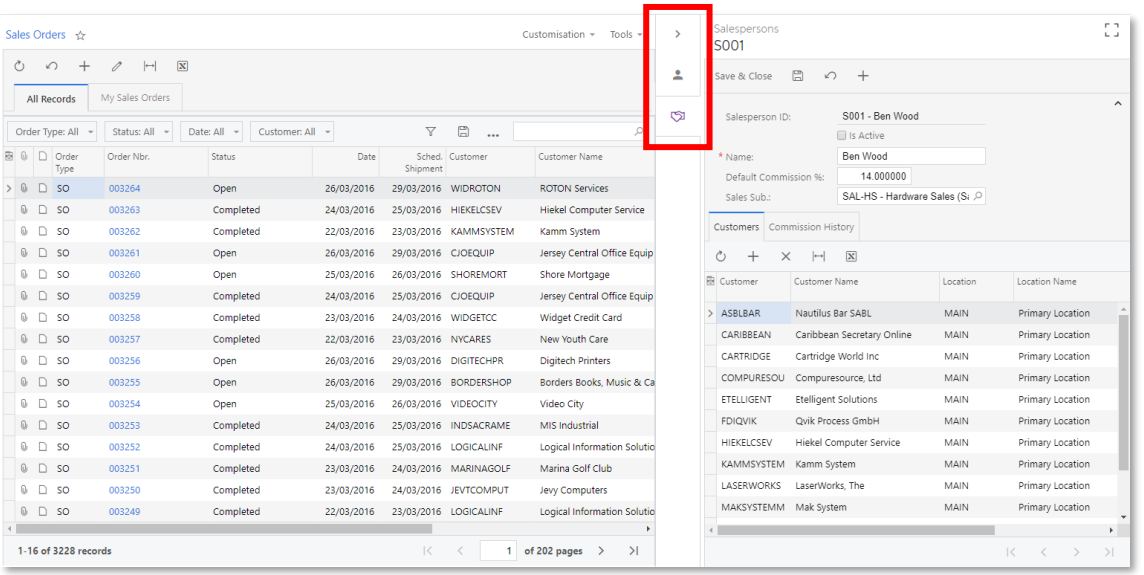
Note: For efficiency, if a user navigates to another generic inquiry record, the system will not reset the active tab selected in the side panel.

Switching Between Side Panel Navigation Paths

A user can add multiple side panel navigation paths to a generic inquiry. The user is limited by only the set of tables in the generic inquiry, which the user can easily expand by adding new tables and setting relations. The following screenshot illustrates using two side panel navigation paths in a generic inquiry:



As a result, for each record in the inquiry, users can view the details of multiple related entities, by switching between paths in the selection area of the side panel. The following screenshot illustrates the selection area of the side panel:

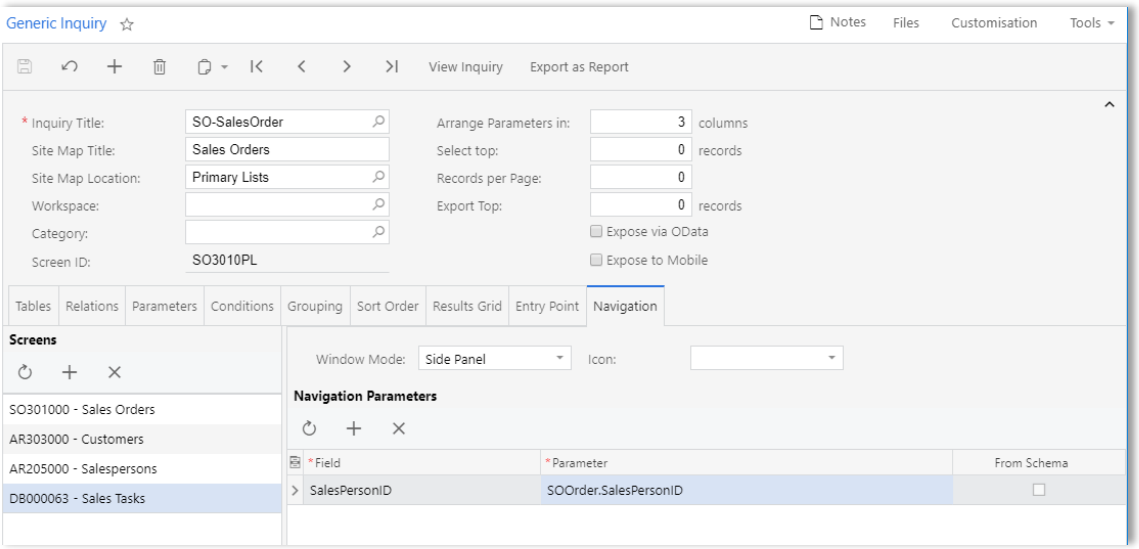


In this example, the side panel has the following controls:

1. The icon shows or hides the side panel.
2. Clicking the icon displays the details of the customer for the selected sales order.
3. Clicking the icon displays the details of the salesperson assigned to the selected sales order.
4. Clicking the icon expands the side panel to take up the entire window.

Adding a Dashboard to the Side Panel

A user can also add a dashboard with parameters to the side panel, adding the navigation path for a dashboard in the same way as for other screens. The following screenshot illustrates adding a dashboard as a side panel navigation path to a generic inquiry:



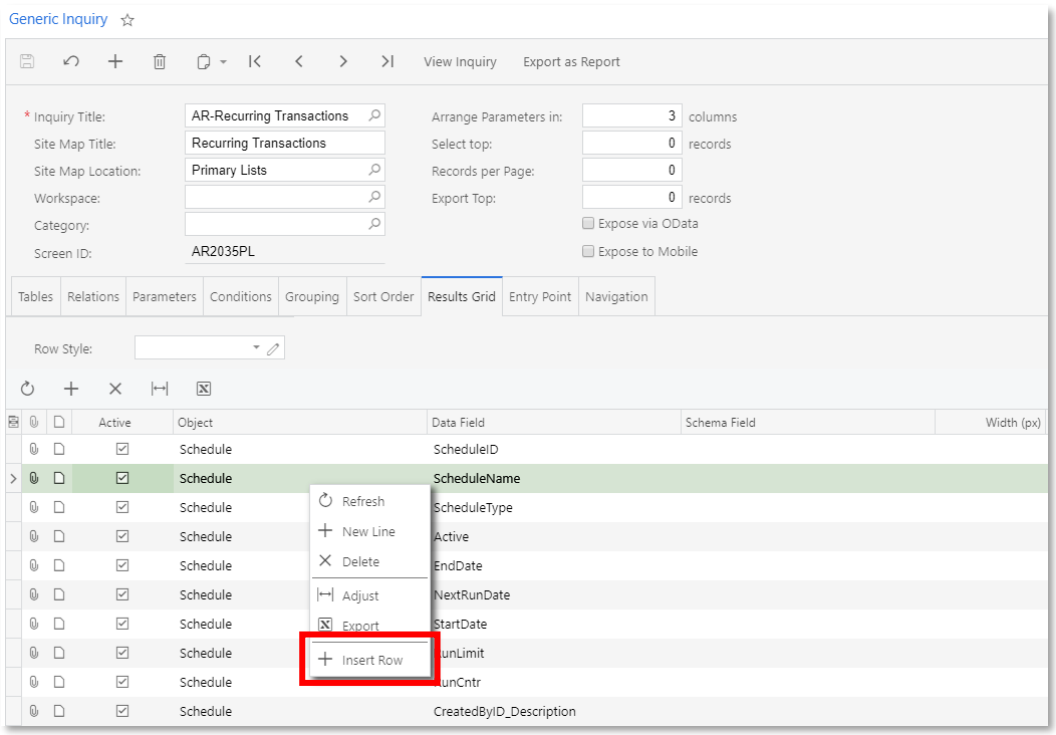
When a user is going through the records of the inquiry, the system will filter widget data by the parameters passed from the inquiry.

Generic Inquiry Row Insertion

In this release, the Results Grid tab on the Generic Inquiry screen (SM208000) has been enhanced to provide the functionality to insert a row before the currently selected row.

To insert a new row:

1. Select and right-click a row in the list.
2. Click **Insert Row**. The row is inserted before the currently selected row.



Also, the Results Grid tab now supports the dragging of rows. For example, a user can add a new row to this table and then drag it to the relevant position in the table.

Generic Inquiry Export as Report

In this release, the Generic Inquiry screen (SM208000) has been enhanced with the ability to export a generic inquiry as a report that can be used in the Report Designer.

The user can export information about data access classes to an .rpx file, which will be used in the Report Designer as a base to design the report layout.

To export a generic inquiry as an .rpx file, on the Generic Inquiry screen (SM208000), the user can click **Export as Report** on the screen toolbar.

The system will export the generic inquiry as an .rpx file that has a similar name to that of the generic inquiry. The resulting exported file will contain information about data access classes of the generic inquiry, such as the relations, sort order, grouping, and list of tables.

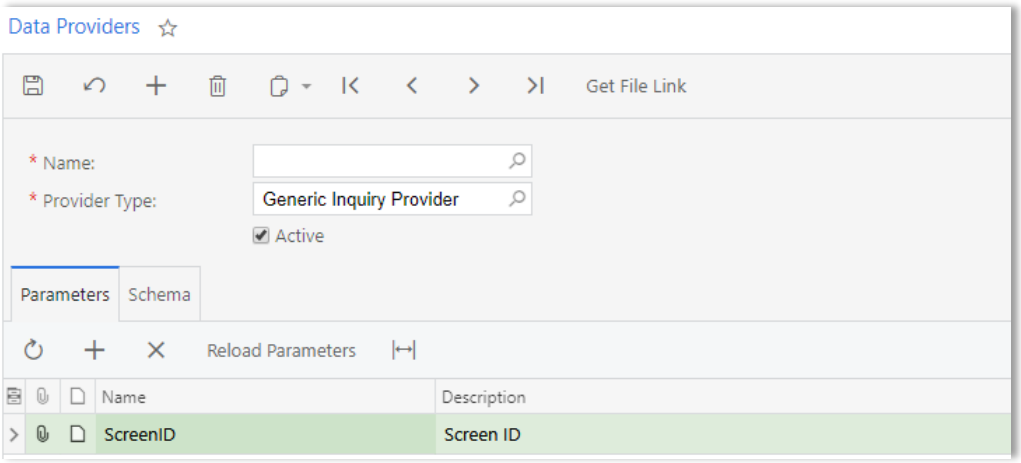
Enhancements in Generic Inquiries and Pivot Tables

In this release, the following improvements to generic inquiries and pivot tables have been made:

- When a user is viewing a generic inquiry, if the number of displayed records is limited by the **Select Top x Records** box on the Generic Inquiry screen (SM208000), a warning icon is now displayed indicating this.
- A **Show Collapsed** check box has been added on the Properties pane of the Pivot Tables screen (SM208010). The user can select this check box for row or column items to be displayed as collapsed by default.
- To give users the ability to collapse all or expand all expandable pivot fields, the **Collapse All** and **Expand All** buttons have been added to the bottom of the pivot table view screen.
- The usability of the clickable areas in the fields and icons of the pivot table view screen has been improved. The icons are now highlighted when a user points at them, so that it is easier to see if the user is clicking the Sort or Filter icon.
- In the pivot table view mode, users can no longer drag the fields between rows and columns. The movement of fields to different rows and columns can now be made only on the Pivot Tables screen (SM208010).
- On the Pivot Tables screen, a field can be added to multiple panes.
- Differentiation between the Null and 0 values in pivot tables has been added, so that a row or column displays 0 instead of a blank if the value is 0.
- An improvement has been introduced on the Navigation tab of the Generic Inquiry screen, so that in the Screens pane, a user can add multiple rows with the same screen, but with different parameters selected in the Navigation pane.

Generic Inquiry as Import Scenario Data Source

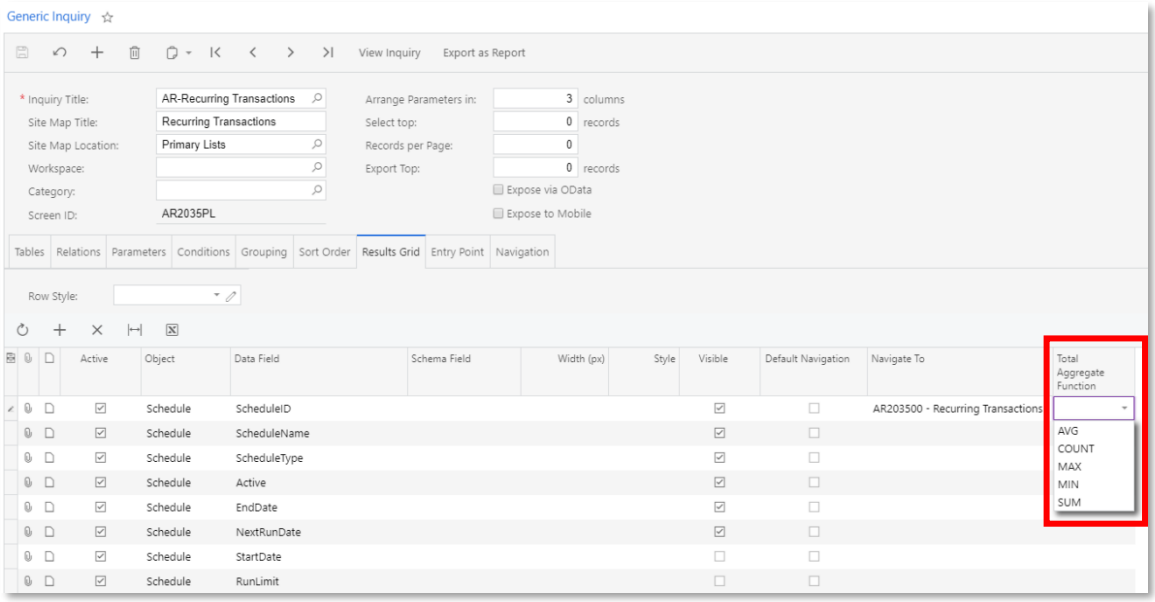
In this release, an option to register generic inquiry as a data source for the import scenario has been introduced. The data provider type for generic inquiries has been added to the Import Scenarios screen (SM206025). On the Data Providers screen (SM206015), the Generic Inquiry Provider type has been added to the Provider Type box.



Total Aggregate Function of Generic Inquiries

In this release, the ability to aggregate the total of a generic inquiry column has been introduced.

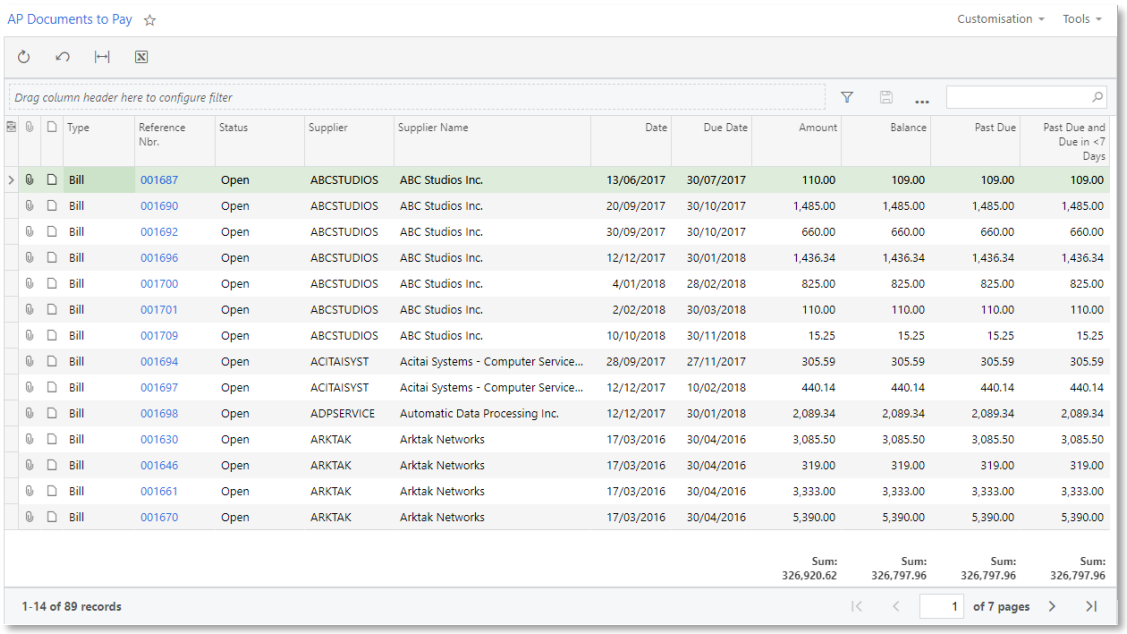
On Generic Inquiry screen (SM208000), on the Results Grid tab, a **Total Aggregate Function** column has been added, which gives the user the ability to aggregate the total value of a generic inquiry column.



The following aggregate functions are available:

- **AVG**: Returns the average of all non-null values of the column
- **COUNT**: Returns a count of all values of the column
- **MAX**: Returns the maximum value of all values of the column
- **MIN**: Returns the minimum value of all values of the column
- **SUM**: Returns the sum of all values of the column

When the **Total Aggregate Function** box is used, the resulting generic inquiry will display the aggregated value of the column displayed at the bottom of the screen.



Type	Reference Nbr.	Status	Supplier	Supplier Name	Date	Due Date	Amount	Balance	Past Due	Past Due and Due in <7 Days
Bill	001687	Open	ABCSTUDIOS	ABC Studios Inc.	13/06/2017	30/07/2017	110.00	109.00	109.00	109.00
Bill	001690	Open	ABCSTUDIOS	ABC Studios Inc.	20/09/2017	30/10/2017	1,485.00	1,485.00	1,485.00	1,485.00
Bill	001692	Open	ABCSTUDIOS	ABC Studios Inc.	30/09/2017	30/10/2017	660.00	660.00	660.00	660.00
Bill	001696	Open	ABCSTUDIOS	ABC Studios Inc.	12/12/2017	30/01/2018	1,436.34	1,436.34	1,436.34	1,436.34
Bill	001700	Open	ABCSTUDIOS	ABC Studios Inc.	4/01/2018	28/02/2018	825.00	825.00	825.00	825.00
Bill	001701	Open	ABCSTUDIOS	ABC Studios Inc.	2/02/2018	30/03/2018	110.00	110.00	110.00	110.00
Bill	001709	Open	ABCSTUDIOS	ABC Studios Inc.	10/10/2018	30/11/2018	15.25	15.25	15.25	15.25
Bill	001694	Open	ACITAISYST	Acitai Systems - Computer Service...	28/09/2017	27/11/2017	305.59	305.59	305.59	305.59
Bill	001697	Open	ACITAISYST	Acitai Systems - Computer Service...	12/12/2017	10/02/2018	440.14	440.14	440.14	440.14
Bill	001698	Open	ADPSERVICE	Automatic Data Processing Inc.	12/12/2017	30/01/2018	2,089.34	2,089.34	2,089.34	2,089.34
Bill	001630	Open	ARKTAK	Arktak Networks	17/03/2016	30/04/2016	3,085.50	3,085.50	3,085.50	3,085.50
Bill	001646	Open	ARKTAK	Arktak Networks	17/03/2016	30/04/2016	319.00	319.00	319.00	319.00
Bill	001661	Open	ARKTAK	Arktak Networks	17/03/2016	30/04/2016	3,333.00	3,333.00	3,333.00	3,333.00
Bill	001670	Open	ARKTAK	Arktak Networks	17/03/2016	30/04/2016	5,390.00	5,390.00	5,390.00	5,390.00
							Sum: 326,920.62	Sum: 326,797.96	Sum: 326,797.96	Sum: 326,797.96

1-14 of 89 records — 1 of 7 pages

Highlighting of Generic Inquiry Rows or Columns

This release introduces the option to highlight rows or columns of a generic inquiry.

On the **Results Grid** tab of the Generic Inquiry screen (SM208000), the **Row Style** box has been added, so that the user designing the generic inquiry can specify the style of a generic inquiry row. This box supports the use of formulas.

In the table of the **Results Grid** tab on the Generic Inquiry screen, the **Style** box has also been added, so that the style of a generic inquiry column can be specified.

The **Component Type** pane of the formula editor box has been enhanced with **Styles** components, to be used in the formulas so that the user can highlight certain elements of a generic inquiry. By using the new **Styles** components, the user can specify the display style of an element described by the formula.

The following operators can be used to specify the styles for the highlighted elements.

Bad
Good
Neutral

Red	Orange	Green	Blue	Gray	Purple
Red 60	Orange 60	Green 60	Blue 60	Gray 60	Purple 60
Red 40	Orange 40	Green 40	Blue 40	Gray 40	Purple 40
Red 20	Orange 20	Green 20	Blue 20	Gray 20	Purple 20

Consider the following example: `=IIf([CRCase.Priority] = 'H', 'bad', 'default')`. If the formula in this example is used as the value specified in the **Row Style** box of a generic inquiry listing support cases, then all the high-priority cases will be highlighted with red colour.

Support of Merged ARM Reports

MYOB Advanced has been enhanced to support the sending of multiple reports created in Analytical Report Manager (ARM). The financial reports can be merged into a report package to be sent as a single HTML or PDF file on the Send Reports screen (SM205060). For details, see To Merge Analytical Reports.

To merge the ARM reports, the user needs to do the following:

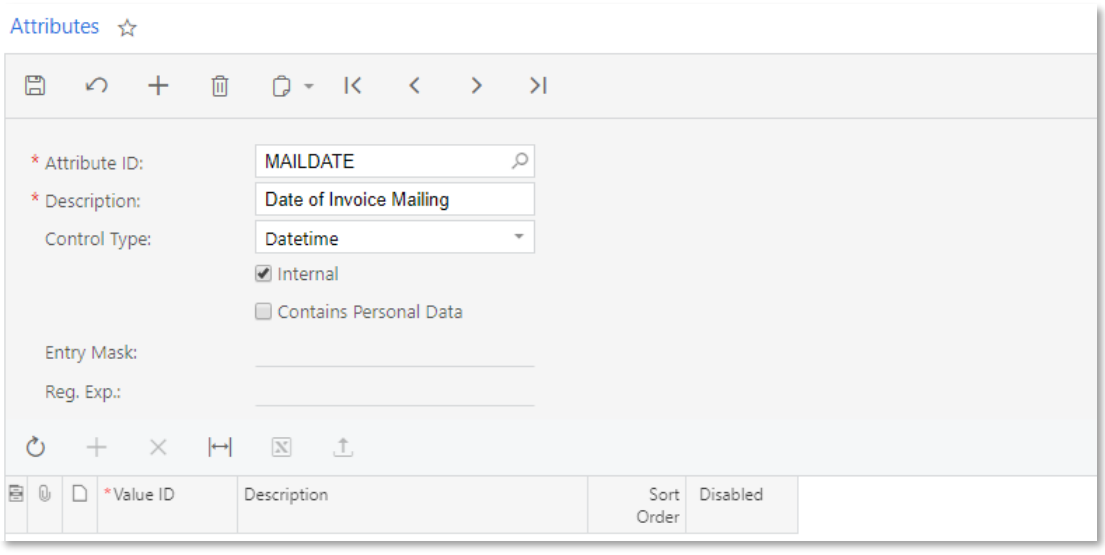
1. On an ARM report screen, set up and schedule a template for every report that you want to merge. For details, see To Create, Remove, and Schedule a Report Template.
2. In the Select Schedule Name dialog box, tick the **Merge Reports** check box and select a value in the **Merging Order** field for every report to be merged.
3. Navigate to the Send Reports screen (SM205060) and process the merged reports.

User-Defined Fields

In this release, the ability to customise screens has been extended further. Now users with appropriate access rights can add new fields for multiple entities.

Adding a User-Defined Field

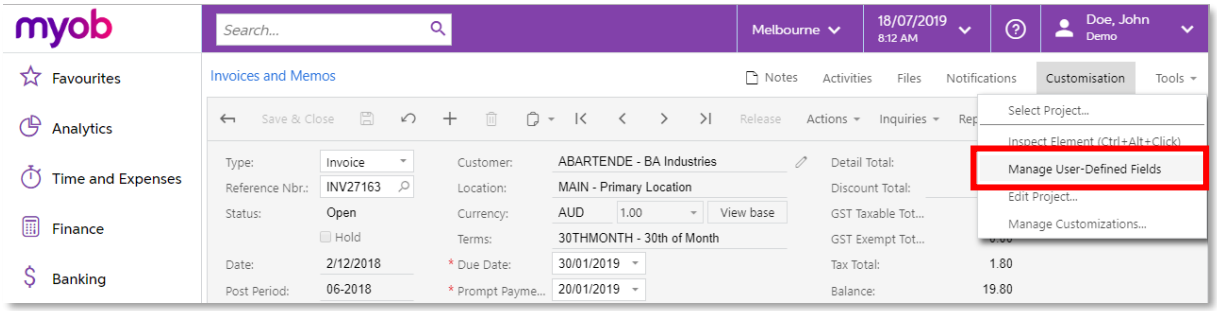
Before adding a new field to a screen, a user should define the field properties by using the Attributes screen (CS205000) in the same way as the user would define an attribute. The following screenshot shows the creation of a user-defined field on this screen. Note that the text entered in the **Description** field will be used as the caption for the field. We recommend using title-style capitalisation for consistency with other UI elements.



Adding a User-Defined Field to a Screen

User-defined fields can be added for only those entities for which corresponding data entry screens have NoteID in the corresponding DACs.

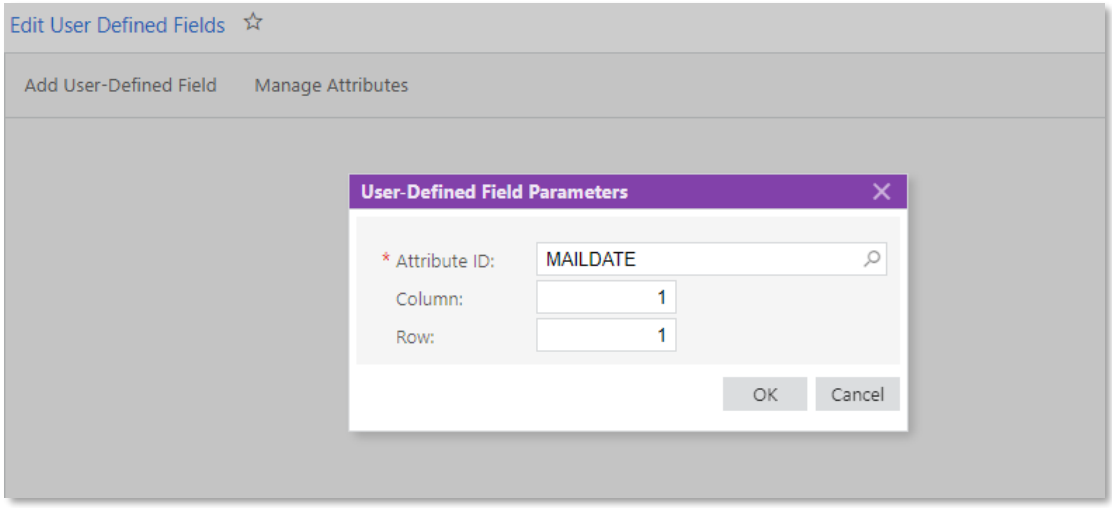
To add a new field for an entity, a user with appropriate access rights navigates to the Edit User-Defined Fields screen (CS205020) directly from the corresponding data entry screen of the entity. To do this, the user clicks **Customisation > Manage User-Defined Fields** on the title bar of the screen:



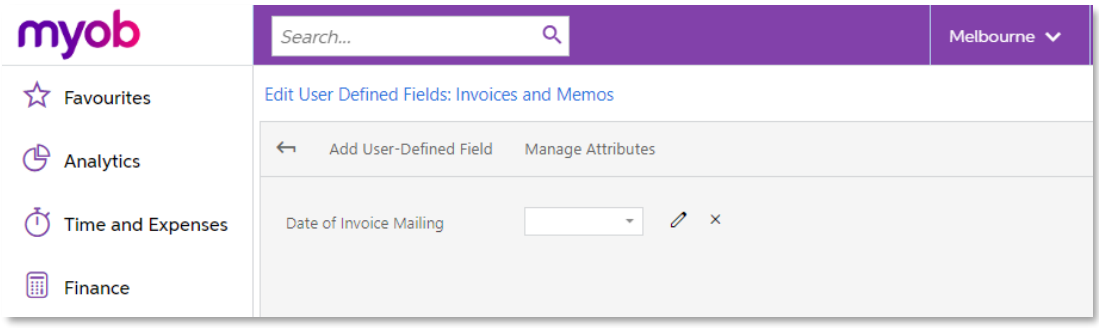
On the Edit User-Defined Fields screen, a user can add to the screen he or she was previously viewing a field that has already been defined by clicking **Add User-Defined Field** on the screen toolbar.

Note: If the field to be added hasn't already been defined, the user can define a new field by clicking Manage Attributes on the screen toolbar. The system opens the Attributes screen (CS205000) in the pop-up window and you then define the field, save your changes, and return to the Edit User-Defined Fields screen to add the defined field.

When the user clicks **Add User-Defined Field**, the system opens the User-Defined Field Parameters dialog box, where the user selects the field and specifies its position on the User-Defined Fields tab of the data entry screen.

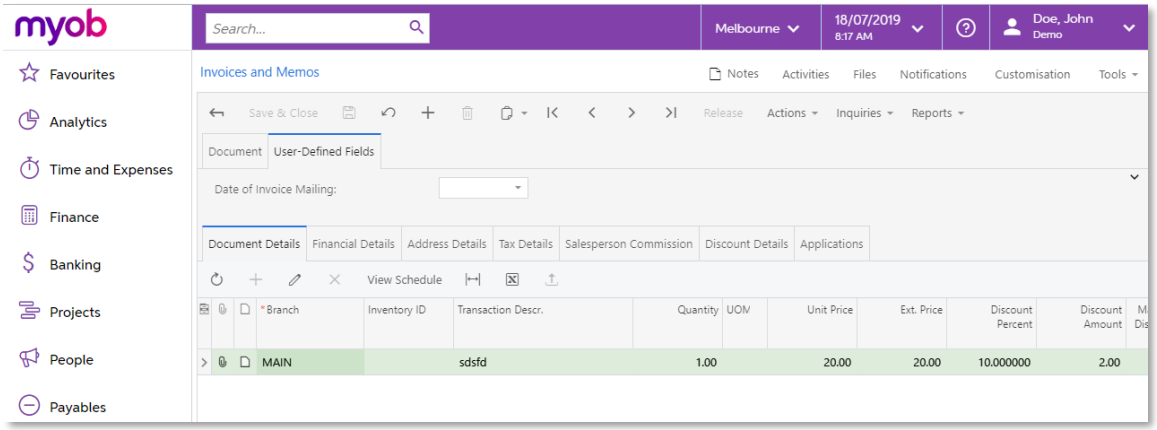


When the user clicks **OK**, the system closes the dialog box and adds the field. The added field can be deleted or edited by using the standard buttons next to it, as shown in the following screenshot.



Using User-Defined Fields

After a user-defined field has been added to a data entry screen, the system displays the User-Defined Fields tab on the data entry screen. On the tab, all the added fields are available and placed according to their specified position.



Screens that Support User-Defined Fields

Users can add user-defined fields to any of the following screens:

Time and Expenses

- Expense Receipt (EP301020)
- Expense Claim (EP301000)
- Employee Time Card (EP305000)
- Equipment Time Card (EP308000)

General Ledger

- Journal Transactions (GL301000)
- Journal Vouchers (GL304000)
- Budgets (GL302010)
- Trial Balance (GL303010)
- Master Financial Calendar (GL201000)
- Allocations (GL204500)
- Recurring Transactions (GL203500)

Cash Management

- Transactions (CA304000)
- Funds Transfers (CA301000)
- Bank Deposits (CA305000)
- Import Bank Transactions (CA306500)
- Reconciliation Statements (CA302000)
- Anticipated Cash Transactions (CA305500)
- Cash Accounts (CA202000)

Accounts Payable

- Bills and Adjustments (AP301000)
- Checks and Payments (AP302000)
- Quick Checks (AP304000)
- Batch Payments (AP305000)
- Supplier Price Worksheets (AP202010)
- Supplier Locations (AP303010)
- Recurring Transactions (AP203500)
- Supplier Discounts (AP205000)

Accounts Receivable

- Invoices and Memos (AR301000)
- Payments and Applications (AR302000)
- Cash Sales (AR304000)
- Sales Price Worksheets (AR202010)
- Customer Locations (AR303020)
- Customer Payment Methods (AR303010)
- Recurring Transactions (AR203500)
- Discounts (AR209500)

Fixed Assets

- Fixed Asset Transactions (FA301000)
- Fixed Assets (FA303000)

Taxes

- Tax Bills and Adjustments (TX303000)
- Tax Adjustments (TX301000)
- Tax Periods (TX207000)
- Tax Zones (TX206000)
- Tax Categories (TX205500)
- Taxes (TX205000)

Currency Management and Deferred Revenue

- Translation Worksheets (CM304000)
- Currency Rates (CM301000)
- Deferral Schedules (DR201510)

Inventory Management

- Receipts (IN301000)
- Issues (IN302000)
- Kit Assembly (IN307000)
- Transfers (IN304000)
- Adjustments (IN303000)
- Physical Inventory Review (IN305000)
- Item Warehouse Details (IN204500)
- Kit Specifications (IN209500)

Order Management

- Sales Orders (SO301000)
- Shipments (SO302000)
- Invoices (SO303000)
- Purchase Orders (PO301000)
- Purchase Receipts (PO302000)
- Requests (RQ301000)
- Bidding Responses (RQ303000)
- Requisitions (RQ302000)

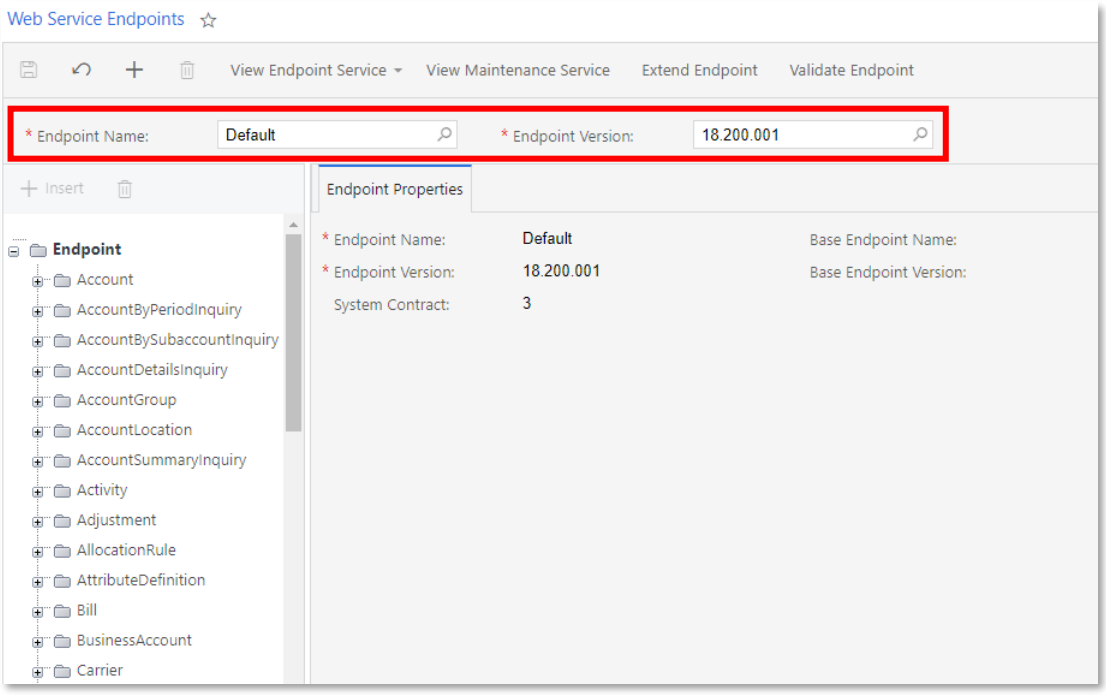
Contract-Based API Improvements

Addition of Project Accounting Entities to the New System Endpoint

This release includes a new system endpoint of the contract-based API (Default/18.200.001). This endpoint uses the Contract Version 3 and includes the most commonly used entities from Finance, Order Management, Customer Management, and Project Accounting.

As compared to the Default/17.200.001 endpoint, the list of entities has been expanded with the entities from Project Accounting. Also, the fields and actions related to discounts and taxes in Order Management have been added. For the full list of differences between the Default/18.200.001 and Default/17.200.001 endpoints, see Comparison of Endpoints in the User Guide. For code examples that use these new entities, see Integration of MYOB Advanced Projects with External Systems (REST and SOAP API Examples).

The user can review the list of entities that are included in the Default/18.200.001 endpoint on the Web Service Endpoints screen (SM207060).



The developer can use the WSDL file or the file with the OpenAPI 2.0 specification to review the API of the endpoint and build the client applications of MYOB Advanced, based on the corresponding file. To obtain the WSDL file or the OpenAPI 2.0 file, on the Web Service Endpoints screen, click either **View Endpoint Service > WSDL** or **View Endpoint Service > OpenAPI 2.0**.

Removed Support for Contract Version 1

Endpoints with Contract Version 1 are no longer supported. The Default/5.30.001 system endpoint, which used Contract Version 1, has been removed. If any custom endpoints that used Contract Version 1 are needed in MYOB Advanced, the developer needs to update these endpoints to use a newer version of the system contract.

Other Changes

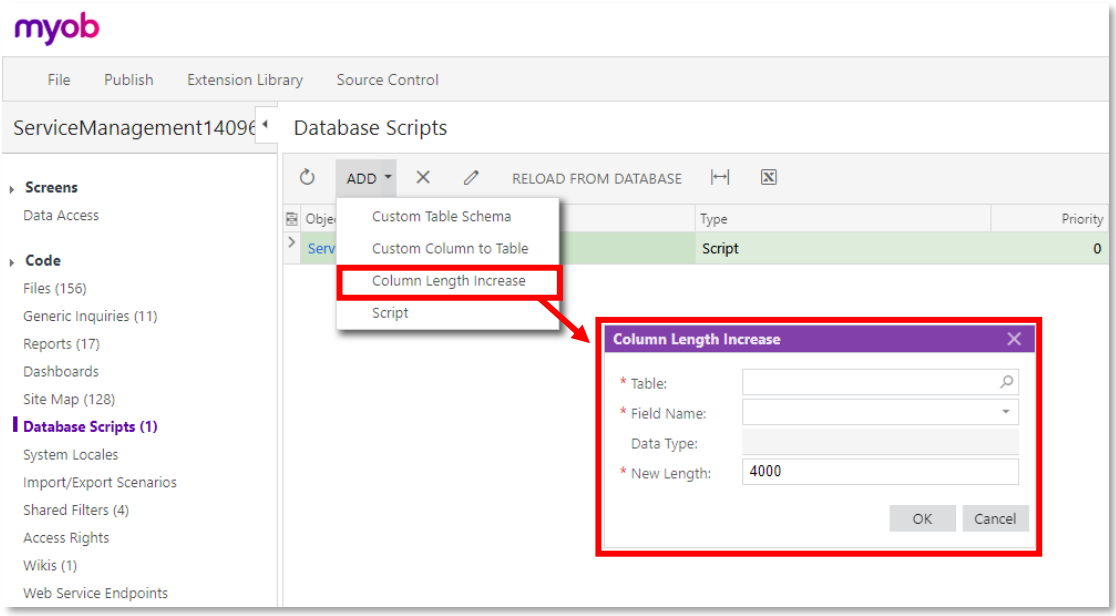
With the Default/18.200.001 contract-based API endpoint of MYOB Advanced 2019.1, developers can also:

- Insert an entire sales order in a shipment in one call. This way is faster than the insertion of the order lines one by one.
- Create a sales order with payments in one call. In this call, a developer can specify the payment method, cash account, and the payment amount for each payment.
- Insert separate lines of a purchase order or a purchase receipt in an AP bill. In previous versions, it was possible to insert only all lines of a purchase order or a purchase receipt in an AP bill.
- Create a purchase receipt with allocations in one call.
- Create a supplier with payment instructions in one call.
- Obtain attributes of cases.

Simplified Increase of the Database Column Size in Customisation

In previous versions, to modify the size of a text column in the database, a customiser had to use the ALTER COLUMN statement in an SQL script included in the customisation project. In this release, a simplified way to increase the size of text columns has been added to the Customisation Project Editor. For example, a customiser can use this way to increase the size of the existing DocDesc column of the EPExpenseClaim table from 60 characters to 255 characters.

To increase the size of a text column in a customisation project, a customiser can use the Database Scripts page of the Customisation Project Editor. On this page, the new Column Length Increase action has been added to the Add menu, as shown in the following screenshot.



Object Layer in Business Query Language

This release introduces changes to the way the system generates an SQL command from the business query language (BQL) command. Instead of working with the text of the command, the system now treats a BQL command as an expression that works with SQL tree objects. That is, the following changes in the conversion of BQL command to SQL have been made:

- For all classes of a BQL statement, the system calls the IBqlCreator.AppendExpression method, which adds to the command an SQL tree expression that corresponds to the class.
- The handlers of the OnCommandPreparing event now return not the name of the field, but an expression that corresponds to the field name.

This improvement removes potential security holes that can appear when the SQL text is returned from the handlers of OnCommandPreparing. Also, this improvement eliminates any post-processing of the SQL text command, such as adding company ID and company mask restrictions or the SQL flattering procedure, which was used to simplify requests to the MySQL databases.

Because of this improvement, in the customisation projects, the developers need to implement the AppendExpression method of IBqlCreator in the custom BQL classes and replace the use of FieldName in PXCommandPreparingEventArgs with Expr.

Deferred Query Execution

As of this release, MYOB Advanced does not execute a database query once it is configured, which improves the performance of the application. For example, MYOB Advanced never fetches multiple records from the database when a request for a single record is performed.

Suppose that the following code is written in MYOB Advanced or a customisation of it:

```
SOOrder order = (SOOrder)PXSelect<SOOrder>.Select(graph);
if (order != null)
{
...
}
```

Previous versions of MYOB Advanced executed this code as follows:

1. Fetch all records from the SOOrder table in the Select call
2. Obtain the first record on the application server

MYOB Advanced processes this code as follows:

1. Configures a delayed query in the Select call
2. Recognises casting to a data access class (DAC) in the code, modifies the delayed query so that it selects only one record, and retrieves that record from the database

Because of this improvement, a call of PXSelect<...>.Select(...) does not fetch any records from the database and does not fill the corresponding PXCache object with records. To make the system fetch records from the database, a developer needs to directly cast the result of the query execution to a DAC or an array of DACs, or iterate through DACs in the result with the foreach statement.

Ability to Attach Reports to Notification Templates

MYOB Advanced has introduced the ability to attach reports to notification templates.

On the Notification Templates screen (SM204003), the Reports Attached tab has been added for business event notifications, so that the user can select a report to attach it to the email. On the new tab, the user can specify the report format and parameters. If the parameter values are not specified, the default value of parameters will be used when the report is generated.

On the Reports Attached tab, in the **Report ID** box, the user can select the report to be attached. In the Report Format box, the user can select the format of the attached report: Excel, HTML, or PDF. Selecting the HTML format makes the new **Embedded** check box available. When this box is selected, the report will be inserted in the email body.

On the Report Parameters section, if the **Use Event as Data Source** box is selected, the system can pass the business event data to the report, rather than selecting data from the database at the moment of the report generation process.

Business Events Grouping Records by Generic Inquiry Fields

This release introduces an option to raise an event per group of records per selected generic inquiry field which will be used for grouping. If this option is selected, the separate event will be raised for each group of records which have the same value of the specified field.

On the Business Events screen (SM302050), the *For Group of Records* option has been added to the dropdown list of the **Raise Events** box. If the *For Group of Records* option is selected, the new box **Group Records By** becomes visible. The **Group Records By** box contains a list of all generic inquiry fields in the format `<Table Name>.<Field Name>`, including formula fields.

The **Use Previous Value** check box has also been added to this screen. If this check box is selected for an event, the previous value of the specified generic inquiry field will be used for grouping records when the event is triggered. When this check box is cleared, the new value of the field will be used when the event is triggered.

Example: To send sales quotes from a sales quotes generic inquiry to the customers, but to avoid sending a separate notification for every sales quote, the user can group the records by customer, so that every customer will receive the notification with the list of his or hers sales quotes in one email. To include the sales quotes and related information in the email body the <foreach> .....</foreach> tags should be used in the notification template.

Ability to Define a Workspace and Category for Particular Entities

In this release, a user can easily define the workspace and category in which each entity created on the following screens is organised:

- Application Resources (SM301010)
- Dashboards (SM208600)
- Generic Inquiry (SM208000)
- Pivot Tables (SM208010)
- Report Definitions (CS206000)

The needed workspace and category of a particular entity are specified in the **Workspace** and **Category** boxes, which have been added to each of these forms.

Any application resource, dashboard, generic inquiry, pivot table, or ARM report is visible in the system only if a user adds it to the site map—that is, makes a selection in the appropriate box of the screen where the entity is created. When the site map location is specified for a new entity created on one of these screens, the system inserts the default values in the **Workspace** and **Category** boxes, thus causing the entity to be placed in the default workspace and category for the type of entity. A user can either leave the default values or change them to the needed ones. The following table shows the default values of these boxes on each of the screens where these entities are created.

Screen title	Workspace	Category
Application Resources	Data Views	Other
Dashboards	Data Views	Dashboards
Generic Inquiry	Data Views	Inquiries
Pivot Tables	Data Views	Pivot Tables
Report Definitions	Report definitions of the GL type: Finance	Financial Statements

For an existing entity, if the site map location has already been selected or a user selects a new site map location, the system leaves the values in the **Workspace** and **Category** boxes that were specified before the user started modifying this entity, unless the user overrides the values in these boxes.

Automatic Deletion of the History of Execution Schedules

Version 2019 R1 provides the ability to automatically clear the history of executions. On the Automation Schedules screen (SM205020), the following elements have been added: the **Executions to Keep in History** box and the **Keep Full History** check box. The value specified in the Executions to Keep in History box indicates how many of the latest execution schedules will be saved in the history. Selecting the **Keep Full History** check box prevents the automatic deletion of the execution history and makes the **Executions to Keep in History** box unavailable.

Note: Before an instance is updated to Version 2019 R1, valuable execution history data should be backed up. When the instance is updated to Version 2019 R1, the **Executions to Keep in History** box will be automatically set to *1*. This will cause the system to delete the history of all previous executions and keep the history of only the latest execution.

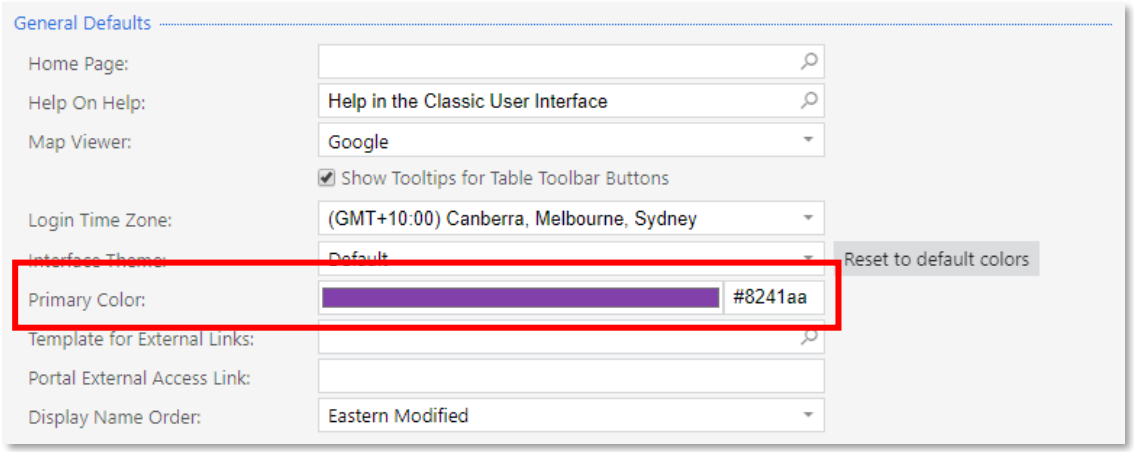
Custom Colour for User Interface

A company may want to personalise MYOB Advanced so that it adheres to the company's chosen style. This may include fitting the colours used in MYOB Advanced to the chosen colours of the company style.

As of this release, administrators who have access to modify company site preferences can now select the primary colour of the user interface. In addition to this functionality, for multi-branch companies, a different colour can be specified for each branch to make it easier for employees to distinguish these branches.

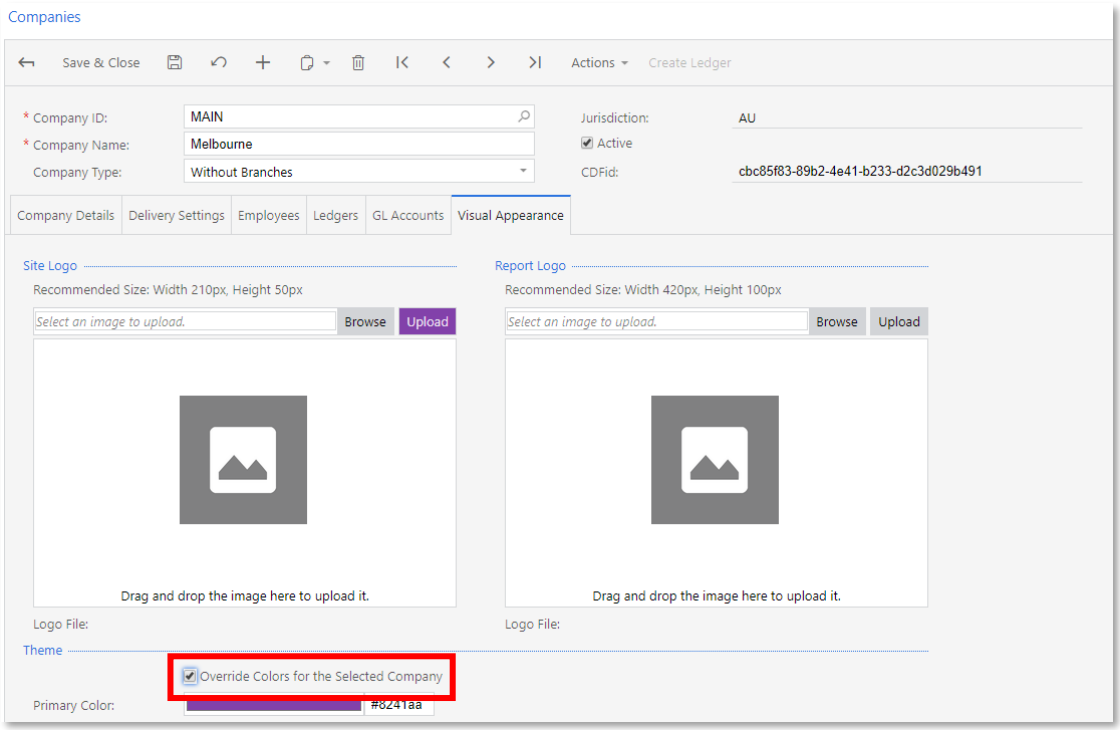
To give administrators the ability to specify a custom colour for the user interface, the **Primary Colour** box has been added on the Site Preferences (SM200505), Companies (CS101500), and Branches (CS102000) screens. (This box on the Site Preferences screen is shown in the screenshot below.)

This functionality is available for only the Default built-in theme. The theme is specified in the **Interface Theme** box of the Site Preferences screen, as the following screenshot also shows.



The colour selected in the **Primary Colour** box is used for such elements as the header, the menu icons in the main menu, tiles, and active tabs.

To override the colour scheme for a specific company or branch, the **Override Colours for the Selected Company** check box has been added to the Visual Appearance tab of the Companies screen and the **Override Colours for the Selected Branch** check box has been added to the **Visual Appearance** tab of Branches screen, as shown in the following screenshot for the Branches screen.



Selecting Colours for the Site

On the Site Preferences screen (SM200505), users can select the built-in theme (Default or Indigo) to apply the particular colour scheme to the user interface. When users select the Default theme, the **Primary Colour** selection box appears under the Interface Theme selection box. Users can leave the default colour defined in the theme or select a different primary colour to be used for the user interface.

The selected colour palette is applied to all companies and branches unless in the settings of a specific company or branch, an override of the site colour is enabled and another colour is selected.

Selecting Colours for the Specific Company or Branch

An administrator with access to modify the preferences of companies can override the colour scheme of the user interface for specific company or branch. If a company has no branches, the administrator overrides the setting of the site colour on the Companies screen (CS101500). If a company has multiple branches, the administrator can use the Companies or the Branches screen (CS102000) to select the needed colour. The colour palette selected on the Companies screen for the company with multiple branches is applied to all branches of a company unless in the settings of a specific branch, an override of the site colour is enabled and another colour is selected. To override the colour for the specific branch, administrator uses the Branches screen.

To override the site theme for the specific company or branch, the administrator selects the **Override Colours for the Selected Company** check box on the Theme section of the Visual Appearance tab of the Companies screen or the **Override Colours for the Selected Branch** check box on the Theme section of the Visual Appearance tab of Branches screen and then select the colour to be used for this company or branch.

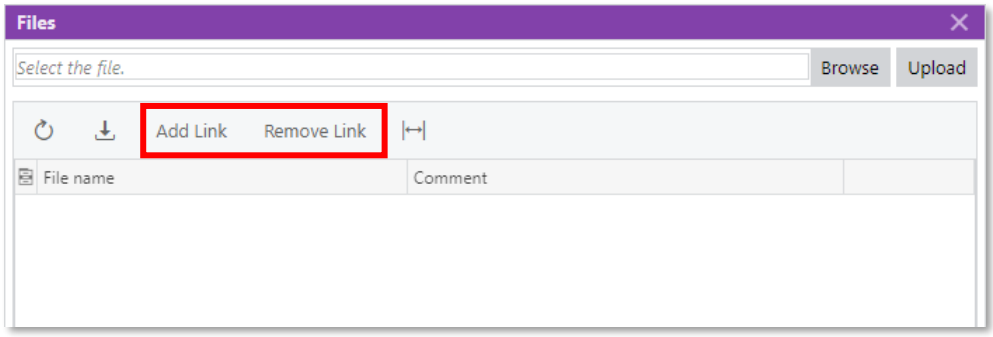
Enhanced Ability to Add and Delete Attachments

In MYOB Advanced, the ability to easily add links to the attachments that already exist in the system has been introduced. With this new functionality, a user can also delete the links to the files.

Previously, if a user wanted to use the same file in multiple documents, the user had to upload it to each document separately. This resulted in duplication of files and inefficient usage of database space. In MYOB Advanced, the user can add the link to the stored files right from the screen to which the file should be attached. If the file is linked to multiple documents and a user wants to delete this file from one of them, after deletion, the file will be still available in the other documents. That is, the user deletes the link to the attachment, rather than deletes the file itself. If a link to the file is the last link to this file, it means that the file is linked to the selected document only; in this case, the user can delete the file only on the File Maintenance screen, which can be opened right from the Files dialog box by clicking **Edit** button next to the name of the file which the user needs to delete.

The Files Dialog Box

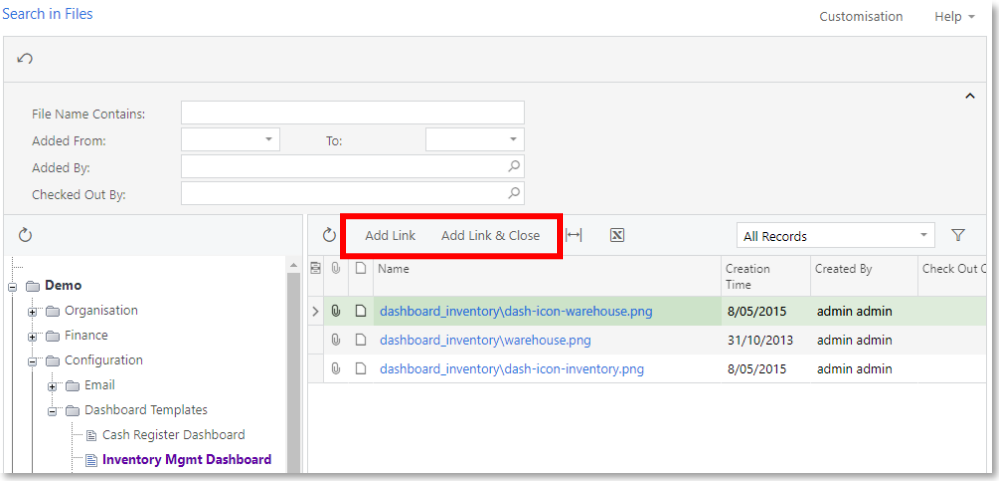
To give users the ability to easily add or delete the links to the files that are saved in the system, the following new buttons have been added to the Files dialog box, as shown in the following screenshot:



- **Add Link**: When a user clicks this button, the Search in Files screen opens in a pop-up window, and the user selects the needed file whose link is added to the document.
- **Remove Link**: When a user clicks this button, the link to the file is removed from the selected document. The Remove Link button doesn't delete the attachment if this attachment is linked to only this document. The user needs to delete the attachment on the File Maintenance screen.

The Search in Files Screen

When a user clicks the **Add Link** button of the **Files** dialog box, the system opens the Search in Files screen (SM202500) in a pop-up window with the following new buttons that can be used to add the links to the files, as shown in the screenshot below:



- **Add Link**: When a user selects the needed file, the user clicks this button to link it to the document; the pop-up window remains open, and the user can select additional files to be linked, if needed.
- **Add Link & Close**: When a user selects the needed file, the user clicks this button to link it to the document; the pop-up window is automatically closed by the system.

These two buttons are available only if the user opens the Search in Files screen from the Files dialog box.

Addition of an Attachment that Exists in the System

To add a link to a file that already exists in the system to a different document, a user should do the following:

1. Open the screen and the document to which you want to add a link to a file.
2. Do one of the following:
    - To add a link to the file to a document, in the screen title bar, click **Files**.
    - To add a link to the file to a document line, click the **Files** button at the beginning of the appropriate detail row.

    The Files dialog box opens.
3. Click the **Add Link** button. The Search in Files screen opens in a pop-up window.
4. In the left pane, in the list of nodes, open the node with the needed file or files.
5. Select the file, and on the table toolbar, click one of the following:
    - Add Link: Adds a link to the file and gives you the ability to repeat this step for other files. When you finish, click **Close**.
    - Add Link & Close: Adds a link to the file and closes the pop-up window.

    The link to the selected file will be shown to the Files dialog box for this screen or document.

Deletion of the Link to the Attachment from the Document

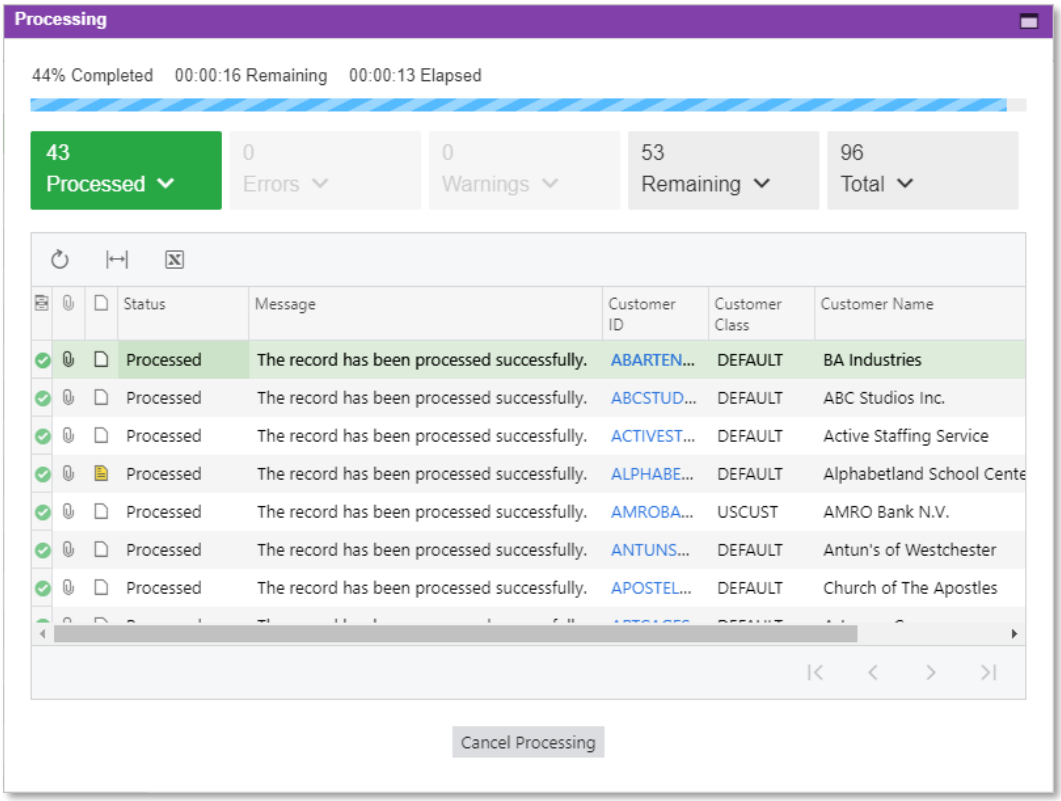
To delete a link to a file that is attached to the document, do the following:

1. Open the screen and the document from which you want to delete a file.
2. Do one of the following:
    - To delete a link to the file from a document, in the screen title bar, click **Files**.
    - To delete a link to the file from a document line, click the **Files** button at the beginning of the appropriate detail row.

    The Files dialog box opens.
3. Select the file whose link you want to delete.
4. On the toolbar, click the **Remove Link** button. The system will process this operation as follows:
    - If the file is linked to multiple documents, the system will delete the link to this file from this particular document. This will not affect other documents to which the file is linked.
    - If the file is linked to this document only, the system will display the error “You can't delete the last link”. To delete the file from the system entirely, in the Files dialog box, next to the file name, click Edit, and on the File Maintenance screen, which opens, click Delete. This will permanently delete the file from the system.

Improvements to Long-Running Processing

In this release, the screens intended for mass processing of data records, such as Validate Customer Balances (AR509900), now display a Processing pop-up window with a progress bar while the process is running:



The new **Processing** pop-up window displays the completion percentage, as well as the elapsed and remaining running time of the process. Also, this window has the following tabs, which display lists of records that meet particular criteria with regard to the long-running process:

- **Processed** - Lists all the successfully processed records
- **Errors** - Lists all the records that were processed with errors
- **Warnings** - Lists all the records that were processed with warnings
- **Remaining** - Lists all the remaining records to be processed
- **Total** - Lists all the records involved in the processing (those that have been processed successfully, those for which warnings or errors have occurred, and those that need to be processed)

The items in the lists of the tabs of the new progress bar window can have links. Clicking a link in the list will open the related record on the appropriate screen in a new browser tab. The new progress bar window is designed to be run as a background operation, so that if the user opens another screen in the same browser tab, the currently long-running process and the progress bar will keep running in the background and will be accessible again by opening the screen from which the processing was invoked in the same browser tab.

The list of all the long-running processes can be viewed on the System Monitor screen (SM201530).

Location Tracking of Users

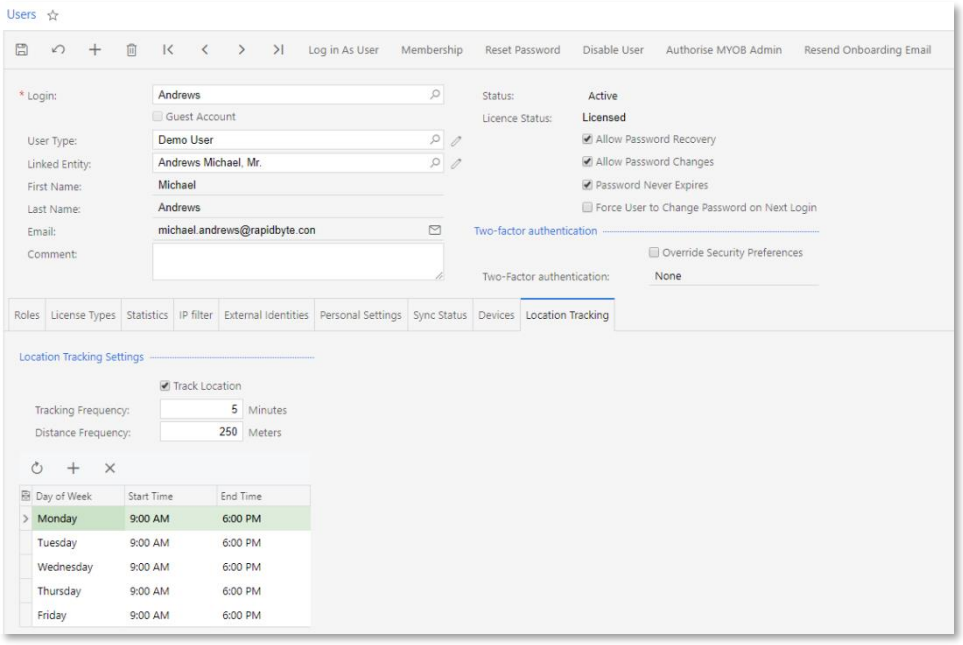
In this release, the ability to track the GPS location of a user by using the mobile app has been added.

Changes on the Users Screen

The Location Tracking tab, where an administrator can configure location tracking for a particular user, has been added to the Users screen (SM201010). The tab contains the following elements (see the screenshot below):

- The **Track Location** check box, which can be selected to turn on location tracking for the user selected on the screen
- The **Tracking Frequency in x Minutes** box, in which the administrator can specify how often the mobile device registers the user location
- The **Distance Frequency in x Meters** box, in which the administrator can specify the distance that the user has to move so that the mobile device registers the user location
- The table in the bottom of the section, in which the administrator can specify on which days and in which time periods the mobile registers the user location. The table contains the following columns:
    - Days of Week: The day of the week on which the location is tracked.
    - Start Time: The time when the location tracking starts for the particular day of the week.
    - End Time: The time when the location tracking ends for the particular day of the week.

By default, if an employee account is associated with the user (that is, if it is selected in the **Linked Entity** box of the Summary area), when the **Location Tracking** check box is selected, the system copies the settings to the table on the **Location Tracking** tab from the calendar assigned to the employee in the **Calendar** box of the Employees screen (EP203000). If no employee is specified in the **Linked Entity** box of the Summary area, when the **Location Tracking** check box is selected, the table on the **Location Tracking** tab is empty and the administrator has to insert the times manually.



New Location Tracking History Screen

The new Location Tracking History screen (SM202000) shows the GPS location coordinates tracked in the system. The screen has the following:

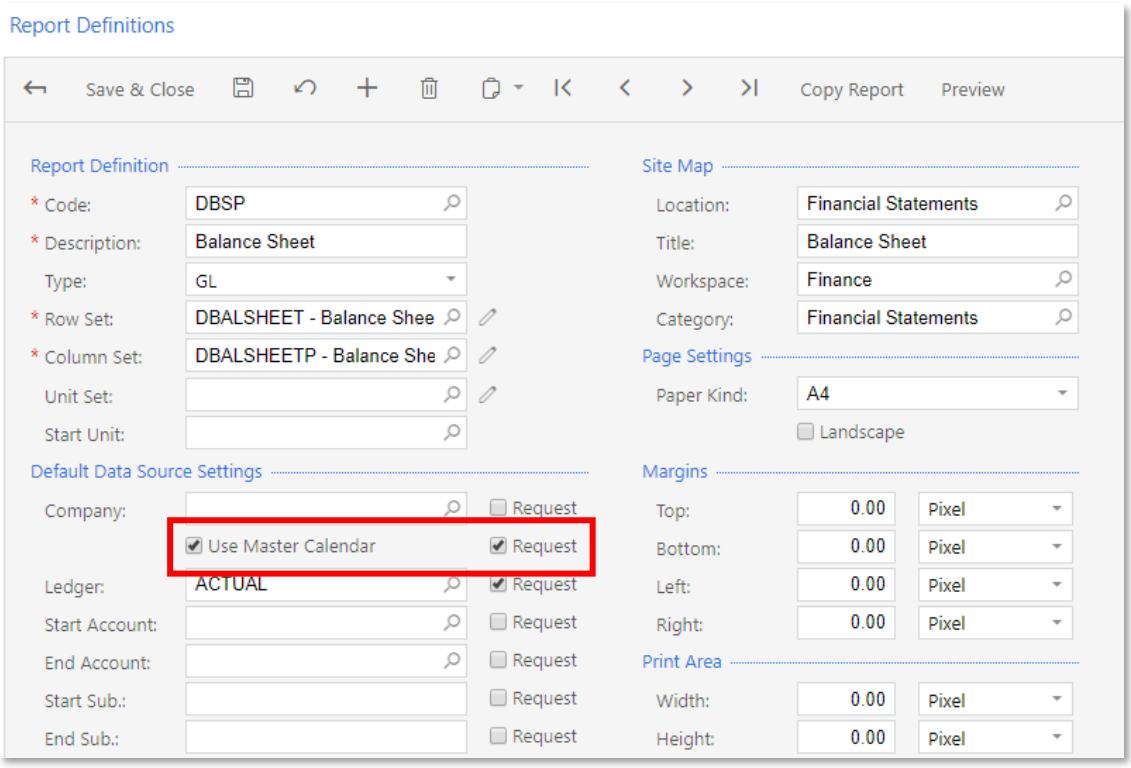
- **Date**: The date and time when the location coordinates were tracked Username: The login name of a user whose location was tracked Entity Name: The full name of the user.
- **Longitude**: The longitude of the user location.
- **Latitude**: The latitude of the user location.
- **Altitude**: The altitude of the user location.
- **Device ID**: The identification of the device of the user, if any. Device Name: The name of the device of the user, if any.
- **Device Name**: The name of the device of the user, if any.

Master Calendars in ARM

In this release, support of master calendars has been added to the Analytical Report Manager (ARM).

Master Period Support in ARM

On the Report Definitions screen (CS206000), the Use Master Calendar and Request check boxes have been added to the Default Data Source Settings section:



If the **Request** check box is selected, the **Use Master Calendar** check box is available on an ARM report screen, and the default value is the value specified on the Report Definitions screen for the report definition. If the **Request** check box is cleared on the Report Definitions screen for the report definition, the **Use Master Calendar** check box is

hidden on the ARM report screen, and this value will always be copied from the report definition.

When the **Use Master Calendar** check box is selected on the Report Definitions screen, the **Start Period** and **End Period** boxes in the Data Source Editor dialog box will list the master periods on the following screens:

- Row Sets (CS206010)
- Column Sets (CS206020)
- Unit Sets (CS206030)

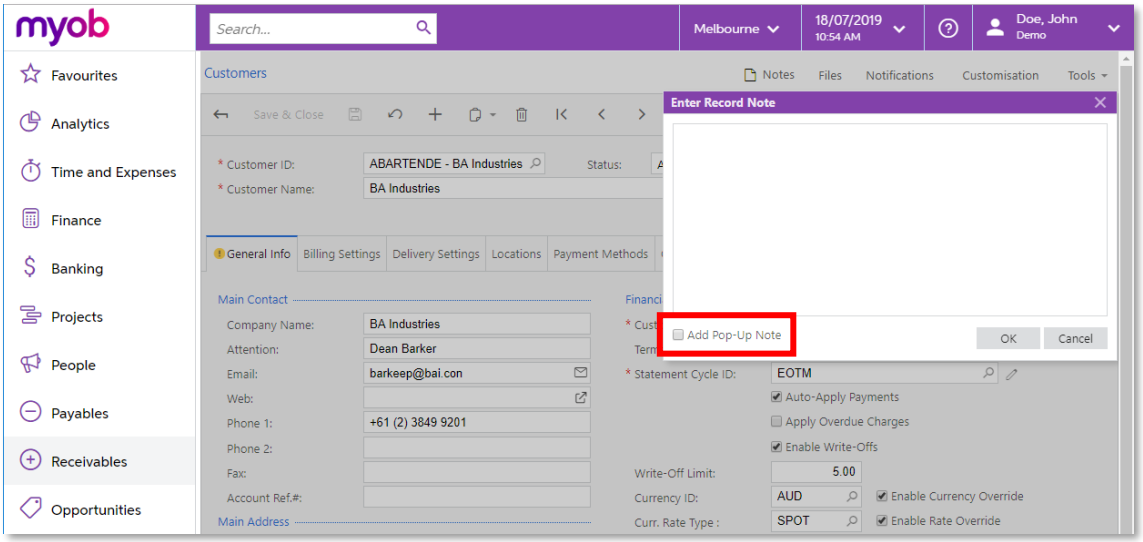
User Experience Improvements

Pop-Up Notes

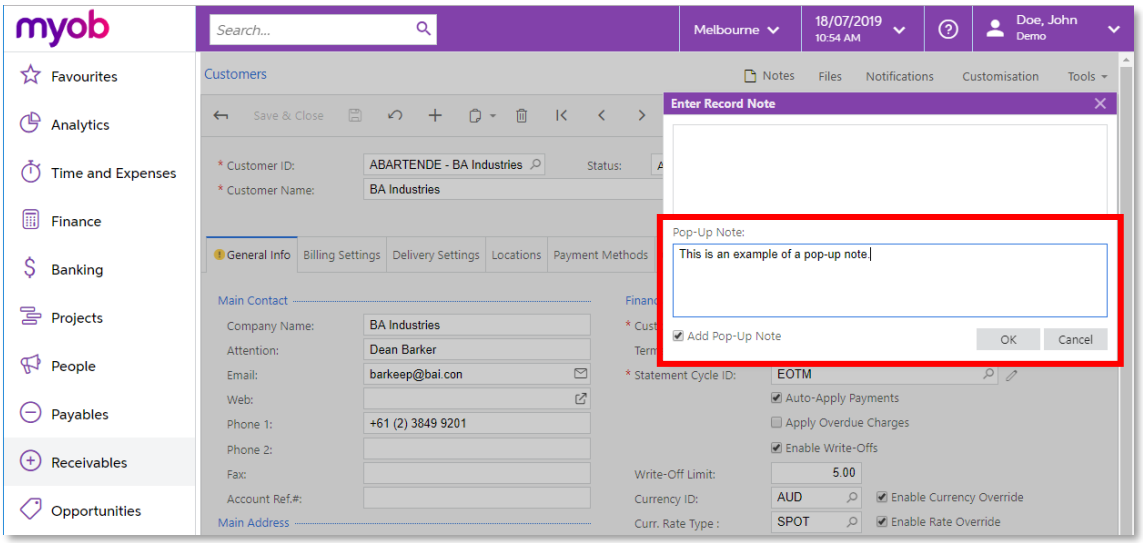
This release introduces ability to communicate important information about an entity to other MYOB Advanced users. A user can now leave a note about a customer, a supplier, or an inventory item that will be displayed to other users when they select the entity while creating documents in the system.

Adding a Pop-Up Note

The standard dialog window used for attaching a note to the records has been extended with the **Add Pop-Up Note** check box, as shown in the screenshot below. (The dialog box is brought up when a user clicks Notes on a screen title bar.)



When a user selects the check box, the system displays the **Pop-Up Note** box, where the user may enter a note, as shown in the following screenshot. (The ability to enter a standard note for the record is preserved if this check box is selected; a user may enter it in the **Note** box.)



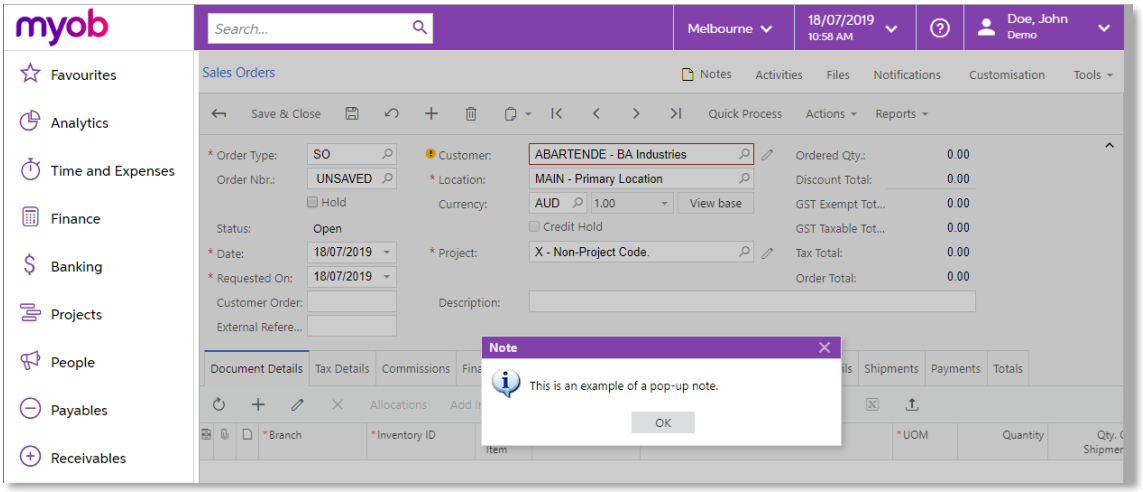
After entering the note, the user clicks OK in the Enter Record Note screen and saves changes for the record.

Users may add pop-up notes to the following entities:

- Customer accounts by using the Customers screen (AR303000).
- Supplier accounts by using the Suppliers screen (AP303000).
- Inventory items by using the Stock Items (IN202500) and Non-Stock Items (IN202000) screens.

Displaying a Pop-Up Note

When a user creates a document in the system with a record to which a pop-up note has been added earlier, the system will display the note as pop-up window:



Users may view pop-up notes added for customer accounts and inventory items when create documents on the following screens:

- Invoices and Memos (AR301000)
- Cash Sales (AR304000)
- Sales Orders (SO301000)
- Invoices (SO303000)

Pop-up notes added for supplier accounts will be displayed if users create documents on the following screens:

- Bills and Adjustments (AP301000)
- Purchase Orders (PO301000)
- Purchase Receipts (PO302000)

User Interface Improvements

A variety of user interface improvements have been made in this release.

Improved Lookup Boxes with Selector Buttons

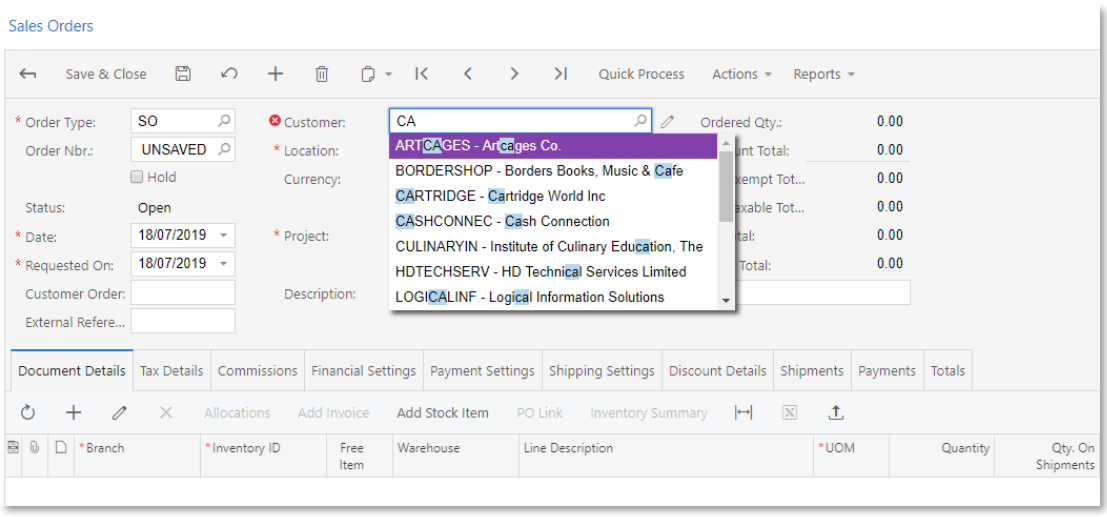
On all MYOB Advanced screens, for lookup boxes having autocomplete functionality, the following improvements have been introduced.

For faster loading of the list in the lookup table, only the first seven entries are displayed initially. If the number of entries exceeds seven, a scroll bar appears on the right (as shown in the previous screenshot). With the new dynamic scroll feature, the more entries are displayed by scrolling, the smaller the size of scroll bar cursor is.

Users can now scroll the list by pressing the Page Up, Page Down, Up arrow, and Down arrow keys. For a list with a significant number of entries, the Prev and Next links have been removed. The whole list is displayed in one box that the user can scroll.

All the previous functionality of the lookup boxes with lookup tables continues to be supported.

The following screenshot shows an example of the autocomplete functionality with the user typing the search text “ca”.



Improvements to Search Relevance for Screens

Usually users search the same word combinations to navigate to limited number of screens. This means that the user usually types the same search string and clicks the same specific menu item link that is displayed in the search results. To provide a more convenient user experience, the displaying of search results has been improved.

Previously, the position of a menu item link in the search results did not depend on how often user followed this link. Now the more frequently the user clicks a specific link in the search results after entering a particular string, the higher the workspace containing this link will be displayed next time in the search results when this user enters this string.

Platform API

Fluent Business Query Language

MYOB Advanced 2019.1 includes the fluent business query language (BQL), which is a new dialect of BQL that is more similar to SQL. Fluent BQL provides the following advantages as compared to the traditional BQL:

- It is easier to read and edit fluent BQL queries than traditional BQL queries because each section of a fluent BQL query does not depend on the others and can appear in only specific places of the query. Also, fluent BQL queries contain fewer commas and angle brackets and do not use numbered classes (such as Select2 or Select6).
- A developer does not need to select a suitable class for the query (such as PXSelectOrderBy<,> or PXSelectJoinOrderBy<,,>); instead, the developer simply starts typing the command, and IntelliSense offers continuations that are relevant for the current query state.

The following example shows the declaration of the same data view in fluent BQL and in traditional BQL.

```
//Fluent BQL view declaration
public SelectFrom<
   PMProject>.
   LeftJoin<PMTask>.On<
      PMTask.projectID.IsEqual<PMProject.contractID>.
      And<PMTask.approverID.IsEqual<
      EmployeeActivitiesApprove.EPActivityFilter.approverID.FromCurrent>>>.
   Where<
      PMProject.isActive.IsEqual<True>.
      And<
         PMTask.taskID.IsNotNull.
         Or<PMProject.approverID.IsEqual<
         EmployeeActivitiesApprove.EPActivityFilter.approverID.FromCurrent>>
         >.View PMProjectFBQLView;

//Traditional BQL view declaration
public PXSelectJoin<
   PMProject,
   LeftJoin<PMTask,
      On<
      PMTask.projectID,Equal<PMProject.contractID>,
      And<PMTask.approverID,Equal<
      Current<EmployeeActivitiesApprove.EPActivityFilter.approverID>
      >>>>,
   Where<PMProject.isActive, Equal<True>,
      And<
   Where<PMTask.taskID, IsNotNull,
         Or<PMProject.approverID, Equal<
         Current<EmployeeActivitiesApprove.EPActivityFilter.approverID>
         >>>>>> PMProjectBQLView;
```

Fluent BQL queries can be used instead of traditional BQL almost anywhere (such as in attributes, view declarations, and dynamic query building). However, fluent BQL cannot be used in the following cases:

- When the query is supposed to be parsed and modified by the direct use of reflection— that is, not by BqlCommand.Decompose(), but by Type.GetGenericArguments()
- When it is necessary to use separate BQL components, such as Join, Where, Aggregate, OrderBy, and On clauses

For the full list of differences between fluent BQL and traditional BQL, see "Comparison of Fluent BQL, Traditional BQL, and LINQ" in the documentation.

A developer can find all classes that can be used in fluent BQL in the PX.Data.BQL.Fluent and PX.Data.BQL namespaces. For details about building queries with fluent BQL, see Creating Fluent BQL Queries in the documentation.

LINQ Support

In MYOB Advanced 2019.1, developers can write requests to the database by using language-integrated query (LINQ) expressions. This approach can be used to define a query in the application code or to filter the data resulting from a business query language (BQL) query.

Developers can configure LINQ expressions in code by using any of the following variants of syntax:

- A query expression, which is shown in the following code.

```
using PX.Data.SQLTree;
using System.Linq;

ProductMaint graph = PXGraph.CreateInstance<ProductMaint>();
var goods = from p in graph.Select<Product>()
   where
      p.ProductCD.Length == 5 &&
      p.GroupMask.Length == 4 &&
       (p.WorkGroupID & 0b10) != 0
   select new
   {
      p.ProductID,
      p.ProductCD,
      p.ProductName,
      Len = p.ProductName.Length,
      BLen = SQL.BinaryLen( p.ProductName) + 1,
      p.GroupMask,
      p.WorkGroupID
   };
```

- Explicit (method-based) syntax. The following code is equivalent to the query expression shown above.

```
using PX.Data.SQLTree;
using System.Linq;

ProductMaint graph = PXGraph.CreateInstance<ProductMaint>();
var goods = graph.Select<Product>()
   .Where( p =>
      p.ProductCD.Length == 5 &&
      p.GroupMask.Length == 4 &&
       (p.WorkGroupID & 0b10) != 0)
   .Select( p => new
      {
         p.ProductID,
         p.ProductCD,
         p.ProductName,
         Len = p.ProductName.Length,
         BLen = SQL.BinaryLen(p.ProductName) + 1,
         p.GroupMask, p.WorkGroupID
      });
```

Because PXResultset<T0>, which is returned by the Select method of all PXSelect classes, now implements the IQueryable<PXResult<T0>> interface, developers can work with the

data defined with a PXSelect query by using LINQ. The following code shows an example of additional filtering of data of BQL query by using LINQ:

```
//BQL statement
var Products = new PXSelect<Product,
   Where<Product.productCD, Like<string_D>>>(graph);
//Use of LINQ for the result of BQL query
var goods = Products.Select()
   .Where(p => p.GetItem<Product>().StockUnit == "item");
//Execution of the query
foreach (var good in goods) {
   var prod = good.GetItem<Product>();
}
```

For details about building queries with LINQ, see "Creating LINQ Queries" in the documentation.

Changes on the Processing Pages

MYOB Advanced 2019.1 introduces a new UI of the processing pages—see "Improvements to Long-Running Processing" on page 187.

When a processing operation is started, all elements of the processing page become unavailable. If a developer needs to enable a button from the processing page during processing, the developer has to add this button to the processing dialog box. A developer can also turn off the displaying of the processing dialog box and use the system behaviour of previous releases.

Adding a Button to the Processing Dialog Box

To add a button to the processing dialog box, a developer can use one of the following approaches:

- For the action that corresponds to the button, in the graph, set the value of the VisibleOnProcessingResults property of PXButtonAttribute or its descendant to true, as shown in the following code example.

```
[PXUIField(DisplayName = Messages.ShowDocuments)]
[PXButton(VisibleOnProcessingResults = true)]
public virtual IEnumerable showDocuments(PXAdapter adapter)
{
   ShowOpenDocuments(SelectedItems);
   return adapter.Get();
}
```

- In the ASPX file that corresponds to the page, set the value of the VisibleOnProcessingResults property of PXDSCallbackCommand to True, as shown in the following example.

```
<px:PXDataSource ID = "ds" Width="100%"
   runat="server" Visible="True" PrimaryView="Filter"
   TypeName="PX.Objects.FA.FAClosingProcess" >
      <CallbackCommands>
         <px:PXDSCallbackCommand Name = "showDocuments"
            VisibleOnProcessingResults="True"/>
      </CallbackCommands>
      </px:PXDataSource>
```

For details about adding buttons to the processing dialog box, see "To Add a Button to the Processing Dialog Box" in the documentation.

Turning Off the New UI of the Processing Pages

To turn off the new UI of the processing pages, a developer can do one of the following:

- To turn off the new UI for a particular page, override the IsProcessing property of the graph that corresponds to the page, as shown in the following code.

```
public override bool IsProcessing
{
   get { return false; }
   set { }
}
```

- To turn off the new UI for all processing pages, add the ProcessingProgressDialog key in the appSettings section of the web.config file of the application, as shown in the following example.

```
<add key="ProcessingProgressDialog" value="false" />
```

For details about how to turn off the new UI of the processing pages, see "To Not Display the Processing Dialog Box" in the documentation.

Logging Improvements

In MYOB Advanced 2019.1, the logging system has been improved, as described in the following sections.

Improved Performance

The performance of the logging system has been improved. Now the system does not collect the stack trace by default. For example, the following code does not collect the stack trace:

```
PXTrace.WriteInformation("The operation has been started.");
```

To collect the stack trace, a developer should call the WithStack() static method and specify thelogging level at which the stack trace should be collected. In the following example, the stack trace is collected for the Information logging level.

```
PXTrace.WithStack().Information("The operation has been started.");
```

The WithStack() method affects the performance of the application.

Collection of the Information about the Location of the Logged Message in Code

Developers can collect the following information about the location in the code where the writing to the log has been performed: the name of the method, the file name, and the line number in this file. To collect this information, developers should use the WithSourceLocation() static method and specify the logging level at which this information should be collected, as shown in the following example:

```
PXTrace.WithSourceLocation().Verbose("The operation has been started.");
```

The WithSourceLocation() method does not affect the performance of the application.

Developers can use both the WithSourceLocation() and the WithStack() methods, as shown in the following code example:

```
PXTrace.WithSourceLocation().WithStack().Verbose("The operation has been
started.");
```

People

New People Payroll User Role

As an enhancement to system security, this release adds a new "People Payroll User" role, which allows sites to control access to the screens for the Payroll module. This role grants users access to:

- All Payroll module screens (MPPP****)
- Employees (EP203000 and EP2030PL)
- Departments (EP201500)
- Employee Classes (EP202000 and EP2020PL)
- Positions (EP201000)
- Work Calendar (CS209000 and CS2090PL)

Apply the role to users as necessary on the Users screen (SM201010).

Effects on Existing Users and Roles

Any users who currently access the MPPP**** screens via the "Full User" or "People User" license types will need to be given the "People Payroll User" role so that they can continue to access these screens.

If you have modified an existing role to allow or deny a specific MPPP**** screen, this modification will continue to work after upgrading to 2019.1—users will be granted or denied access to the screen as before. However, if you have modified an existing role to allow access at a parent page level, including People and Payroll, then the child pages will now be denied because they are now controlled by the "People Payroll User" role. You will need to add the new role to any users that were using the modified role.

Updates to Licensing

Sites that are licensed for Advanced People can access the following new features introduced in this release:

- Centralised Period Management—see page 16
- Multiple Calendar Support—see page 8
- Secure Business Date—see page 160

Note: The People licence does **not** include the new GDPR features, as these features are not compatible with the Payroll module—see "Important: GDPR and the Payroll Module" on page 104.

Self-Service Portal

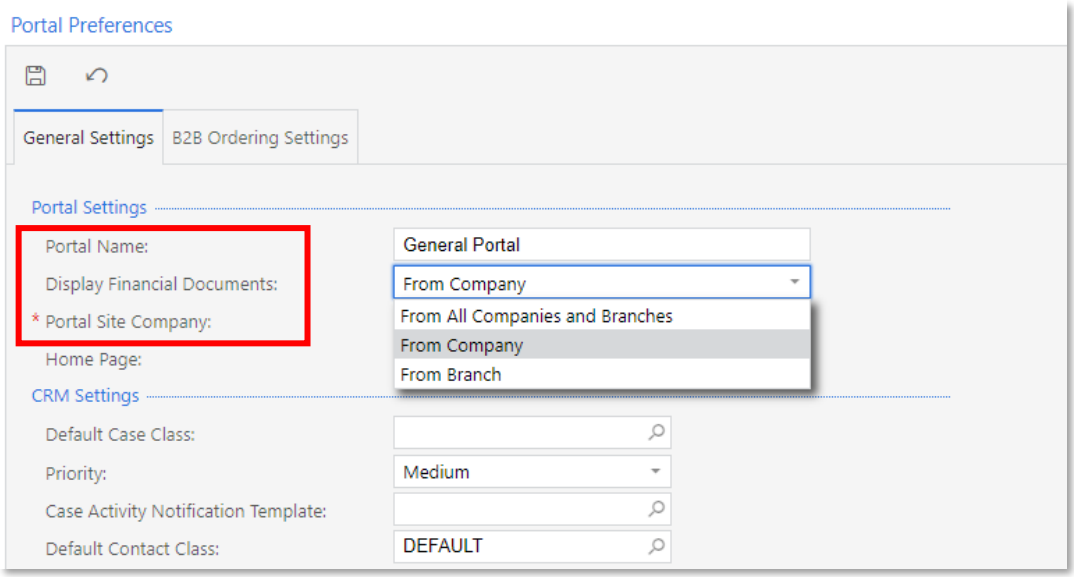
Restricting Data Visibility by Company and Branch

In this release, the Self-Service Portal may be configured so that a customer can view the financial documents associated with any of the following: all companies and branches that are available for the tenant, only a particular branch, or only a particular company. For that purpose, the following enhancements have been introduced.

General Portal Settings

On the General Settings tab of the Portal Preferences screen (SP800000), the following general settings have been added (shown in the screenshot below):

- **Portal Name**: A brief description of the portal.
- **Display Financial Documents:** A setting for restricting the visibility of financial documents on the My Documents (SP402000), My Statements (SP404600), and My Orders (SP700003) screens and the visibility of reports that may be opened from these screens, such as Invoice/Memo (AR641000), AR Balance by Customer (AR632500), and AR Aged Past Due (AR631000). This setting also affects the **Outstanding Invoices and Memos**, **Unapplied Payments**, and **Net Balance** amounts on the My Documents screen. The following options are available:
    - **From All Companies and Branches**: A customer can see documents associated with any company and branch set up in the system.
    - **From Company**: A customer can see documents associated with a particular company and its branches.
    - **From Branch**: A customer can see documents associated with a particular branch.
- **Portal Site Company**: The company whose documents a customer may see. This field appears if the From Company option is selected in the **Display Financial Documents** field.
- **Portal Site Branch**: The branch whose documents a customer may see. This field appears if the From Branch option is selected in the **Display Financial Documents** field.

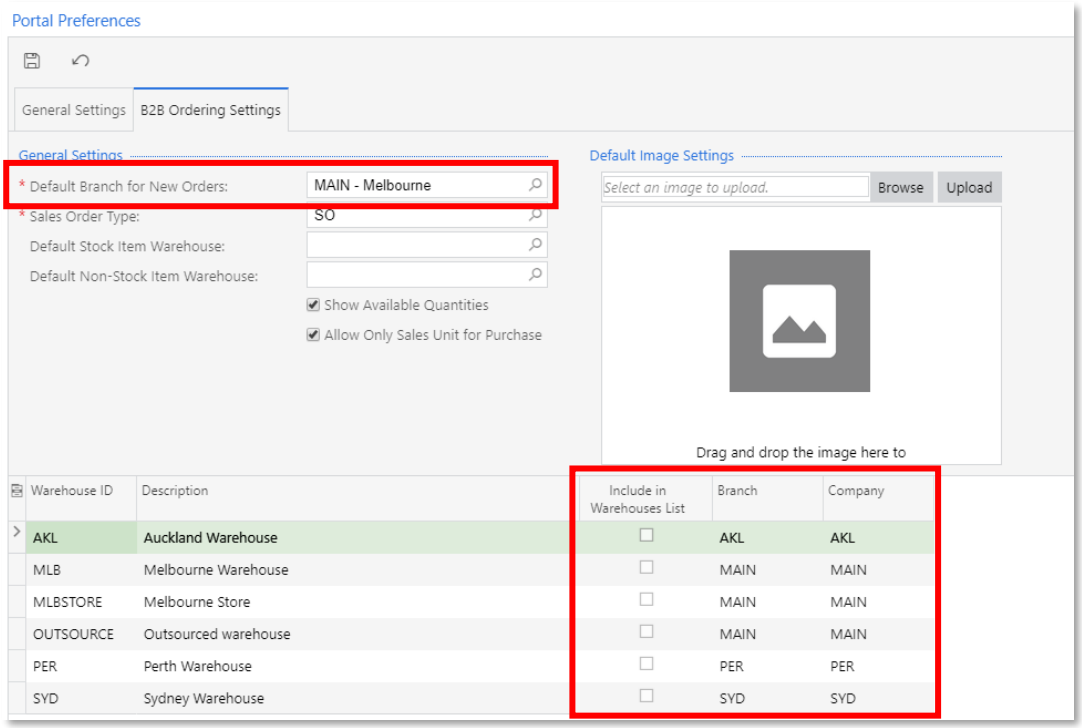


B2B Ordering Settings

On the B2B Ordering Settings tab of the Portal Preferences screen (SP800000), the following settings have been added (see the screenshot below):

- **Default Branch for New Orders**: The branch to be associated by default with new sales orders created from the Self-Service Portal. If this setting is modified, the customer cart on the My Cart screen (SP700001) becomes cleared for all customers.
- **Include in Warehouses List**: A check box that indicates (if selected) that the warehouse in this row should be made available for customers on the Catalog screen (SP700000).

Also, the **Branch** and **Company** columns have been added to the table to indicate the branch and the company with which each listed warehouse is associated.



Customisations

Upgrade Procedure for Customisations and Integrations

Multiple changes have been made that may affect reports, customisations, and integrations that were implemented by developers for the prior versions. The complete list of the changes is provided in Reference List of Changes. Additional recommendations about the possible approaches that a developer can use to prevent issues with the implemented solutions are described in the following sections.

To prevent breaking changes in the customisations, the developer should do the following:

1. Analyse the customisation projects.
2. Carefully read the list of breaking changes in Reference List of Changes.
3. Replace the changed objects with their alternatives.
4. If the objects used in the customisation projects have been removed and no alternatives have been provided, consider creating new customisation projects.

After an upgrade to MYOB Advanced 2019.1, to detect the changes that break existing customisation projects, the developer can check the compatibility of the code included in all published customisation projects with the original code. For details, see "To Validate the Compatibility of the Published Customisation with a New Version Before an Upgrade" in the Customisation Guide.

Note: The validation that detects breaking changes is turned on by default. If any errors occur during the validation, see "To Resolve an Issue Discovered During the Validation" in the Customisation Guide.

Changes in the Translation of BQL Commands to SQL

In MYOB Advanced 2019.1, the system converts all data queries, including the business query language (BQL) commands that the system processes during the generation of reports and of generic inquiry results, to SQL tree expressions. (For details about the conversion, see "Translation of a BQL Command to SQL" in the MYOB Advanced Framework Guide.) The system does not perform the direct conversion of BQL command to SQL text, as it did in previous versions. Because BQL commands no longer generate SQL text, the IBqlCreator.Parse() method, which was used to extract the SQL text from the BQL commands, has been removed.

If customisation code implements any custom BQL classes, the developers of the code have to remove the implementation of the IBqlCreator.Parse() method from these classes.

Changes Related to Fluent Business Query Language

The fluent business query language introduced in this release uses the strongly typed declaration of class fields in data access classes (DACs). All types of the class fields in DACs of MYOB Advanced have been changed to PX.Data.BQL.Bql[Type].Field<TSelf>, where Bql[Type] is the class that corresponds to the type of the related property field of the DAC. For example, if the ProductID property field has the int? type, the productID class field has the PX.Data.BQL.BqlInt.Field<productID> type.

Because PX.Data.BQL.Bql[Type].Field<TSelf> implements the IBqlField interface, all class fields of the predefined DACs of MYOB Advanced can be used in traditional BQL.

Therefore, you do not need to do any changes to the customisation code, however you need to recompile it.

For details about fluent BQL, see "Platform API: Fluent Business Query Language" in this document and "Creating Fluent BQL Queries" in the documentation.

Changes Related to LINQ Support

With LINQ in MYOB Advanced 2019.1, you may not be able to filter records by using custom C# functions. For example, if your C# function filters records by a regular expression, which cannot be converted to standard SQL functions. If the system cannot convert a custom C# function in a LINQ statement, the system executes the data query in memory, which can lead to degradation of the application performance.

The system writes to the trace log about all situations when the system cannot convert the query to standard SQL functions. Therefore, we highly recommend that you investigate the trace log for such issues and fix the issues in one of the following ways:

- Remove the custom C# functions from the queries so that the full query is executed in the database.
- Append the AsEnumerable() method to the part of the query that can be converted to SQL, as shown in the following code, and add after it the conditions that include custom C# functions.

```
// MyHelpers.IsHighPriority is a custom function
var results = graph
.Select<CRCase>()
.OrderByDescending(c => c.Date).AsEnumerable()
.Where(c => MyHelpers.IsHighPriority(c));

foreach (CRCase case in results)
{
...
}
```

For details about building queries with LINQ, see "Platform API: LINQ Support" in this document and "Creating LINQ Queries" in the documentation.

Changes Related to the Support of Different Financial Calendars

In MYOB Advanced 2019.1, users can implement multiple legal entities, which have different fiscal year-end dates, within the same tenant.

In previous versions of MYOB Advanced, the TranPeriodID field stored the financial period ID that was defined by the document date. Now the TranPeriodID field stores the master period ID that corresponds to the FinPeriodID field (which contains the financial period defined by the document date). The master period ID is calculated by using both the financial period ID and the branch ID. The PeriodIDAttribute class and its descendants implement the business logic of the TranPeriodID and FinPeriodID fields. To implement the business logic of multiple financial calendars in master-detail documents, a developer also needs to use the DocumentWithLinesGraphExtension generic graph extension.

Other Code Changes Related to Financial Management

The following classes and methods, which were used in cash management, have been removed as obsolete:

- PX.Objects.AR.ARDunningLetterPrint.DetailsResult.Copy(PXGraph, ARDunningLetter, Customer)
- PX.Objects.CA.AddDetailFilter
- PX.Objects.CA.CABatch.workgroupID
- PX.Objects.CA.CABatch.WorkgroupID
- PX.Objects.CA.CARecon.LineCntr
- PX.Objects.CA.CARecon.lineCntr
- PX.Objects.CA.caCredit
- PX.Objects.CA.CashTranIDAttribute.IsMigrationModeEnabledSetupField
- PX.Objects.CA.CashTranIDAttribute.IsMigrationModeEnabled
- PX.Objects.CA.CashTranIDAttribute(Type)
- PX.Objects.CA.Messages.DocumentCount
- PX.Objects.CA.Messages.AutoReconcile
- PX.Objects.CA.Messages.ParameterShouldNotNull
- PX.Objects.CA.Messages.IsNotBqlField
- PX.Objects.CA.CATranEntry.viewBatch
- PX.Objects.CA.CATranEntry.ViewBatch()
- PX.Objects.GL.GLTranDoc.AccountBranchID
- PX.Objects.GL.GLTranDoc.accountBranchID

Code Changes Related to Inventory and Order Management

Note the following about the code changes that are related to inventory and order management:

- The LockSitePICountEntry property of the PX.Objects.IN.INSite DAC has been removed. The new UnlockSiteOnCountingFinish property of the PX.Objects.IN.INPIClass DAC can be used instead of the removed DAC. The new property implements inverse logic.
- PX.Objects.IN.PXMassProcessException has been marked as obsolete in and is removed in this version. PX.Objects.Common.PXMassProcessException or a custom exception type can be used instead.
- PX.Objects.PO.POItemCostManager.ConventCury(PX.Data.PXGraph, System.String, System.String, System.Decimal, System.String) has been marked as obsolete in and is removed in this version. Instead, PXCurrencyAttribute should be used for currency conversion.
- INLotSerClass.LotSerNumVal and InventoryItem.LotSerNumVal have been moved to the INLotSerClassLotSerNumVal and InventoryItemLotSerNumVal DACs, respectively. The start value for the auto-incremented numbering segment can be obtained by invocation of the INLotSerialNbrAttribute.ReadLotSerNumVal(PXGraph,PXResult<InventoryItem, INLotSerClass>) static method.
- The LSSelect<,,>.AvailabilityFetch method has been marked as obsolete in a previous version and is removed in Version 2019 R1.
- The set of parameters of the SO.SOShipmentEntry.PostShipment method has been changed. Now the method accepts INTransferEntry and INIssueEntry.

Code Changes Related to Project Accounting

The AmountInBaseCury field of the PMChangeOrderLine DAC has been renamed to AmountInProjectCury.

Other Code Changes in Platform

The PX.DataSync.IEnumerableExstension class was renamed to PX.DataSync.IEnumerableExtension and moved to the PX.DataSync.Core.dll library.

Changes to the Default/18.200.001 Endpoint

In the Default/18.200.001 endpoint, mappings of the Amount fields of the entities related to project accounting have been changed: Now these fields are mapped to the internal CuryAmount fields.

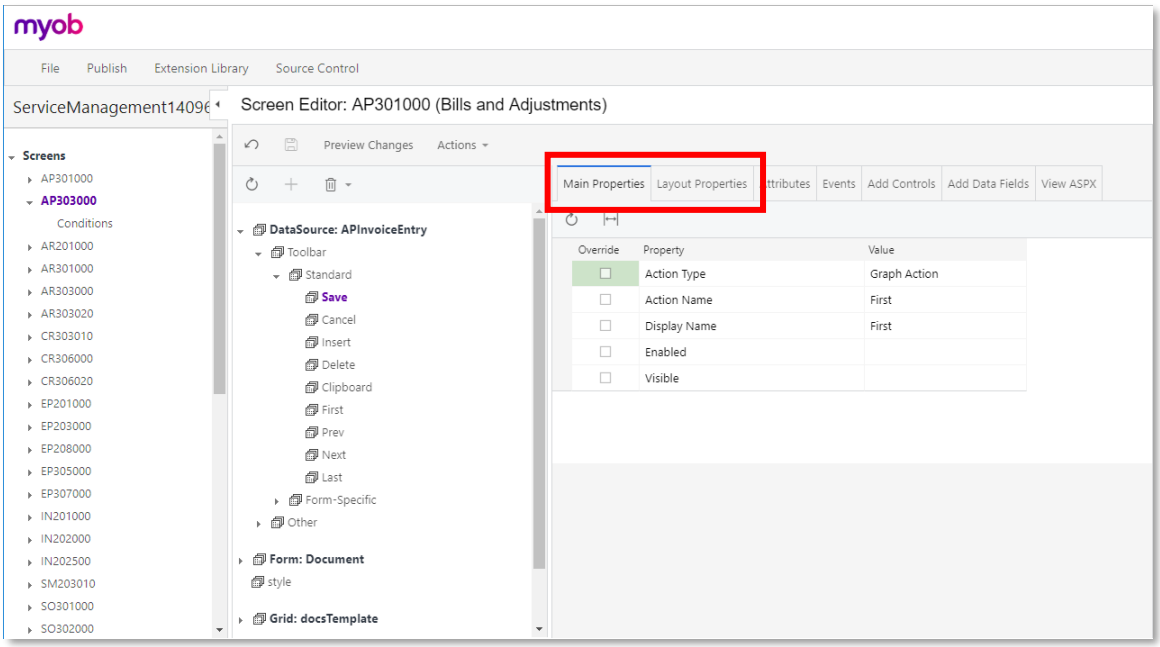
Automation Improvements

In this release, the capabilities for customizing screens have been simplified and expanded with the ability to add conditions. Now there is no need to write code to perform several types of customisation, because these customisations can be performed from the new Screen Editor.

Screen Editor

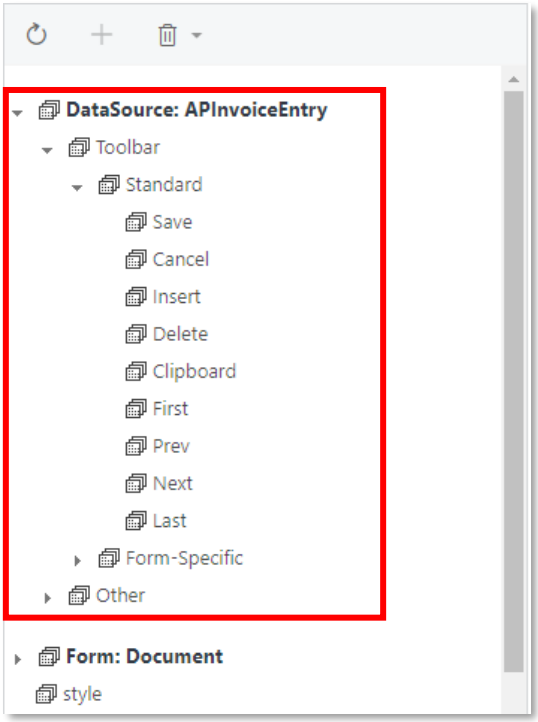
The Layout Editor has been renamed to the Screen Editor to reflect its expanded abilities. The Properties tab has been split into the following tabs (shown in the following screenshot):

- Main Properties: Lists properties that can be modified at the graph level
- Layout Properties: Lists properties that can be modified at the ASPX level



With the new layout, a user can easily review the actions available on the selected screen. The actions are conveniently grouped by toolbars on the screen, such as Standard and

Form-Specific. Other available actions are collected under the Other group; see the following screenshot.



The list of available fields can be also viewed.

New Means of Screen Customisation

The developer can now do the following when customizing screens:

- Review the list of actions for a screen and the list of fields
- Enable or disable, toggle the visibility of existing actions with or without conditions
- Enable or disable, toggle the visibility of existing fields with or without conditions

Note: Developers can enable actions and fields by using the Screen Editor only if these actions and fields are not disabled in the source code of MYOB Advanced.

- Add new actions of any of the following types:
  - Run a report
  - Navigate to an existing record
  - Navigate to the screen to create a new record
- Change the order of actions on the screen by dragging the actions in the actions tree of the Screen Editor (see the previous screenshot)

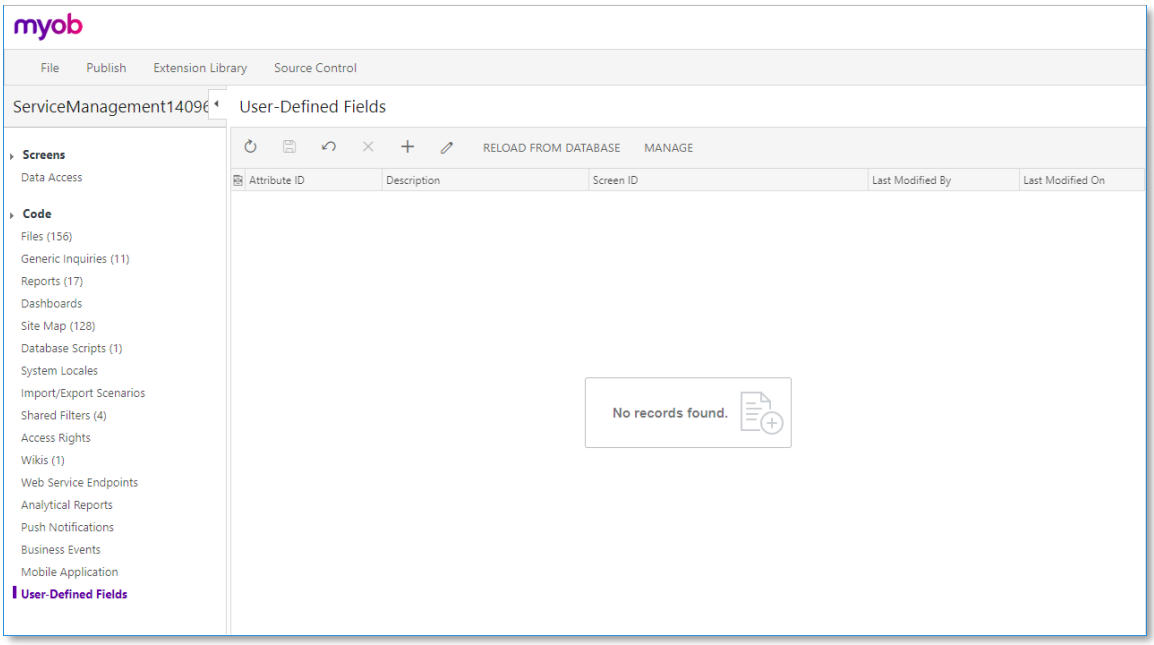
User-Defined Fields in a Customisation Project

In previous versions, user-defined fields were introduced and could be managed only within an instance of MYOB Advanced. Now these user-defined fields can be also managed in the Customisation Project Editor, and then exported and imported with the help of customisation packages.

Now the Customisation Project Editor includes the new User-Defined Fields page, which is shown in the screenshot below. On this page, a developer can do the following:

Load fields that have already been defined by users in an instance of MYOB Advanced.

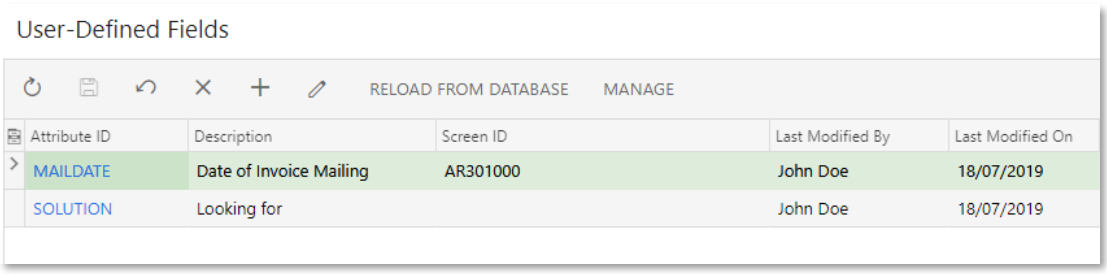
- Add a new user-defined field based on existing attributes. For details on defining attributes, see Attributes and User-Defined Fields.
- View detailed information about a user-defined field.
- Edit or remove an existing user-defined field.



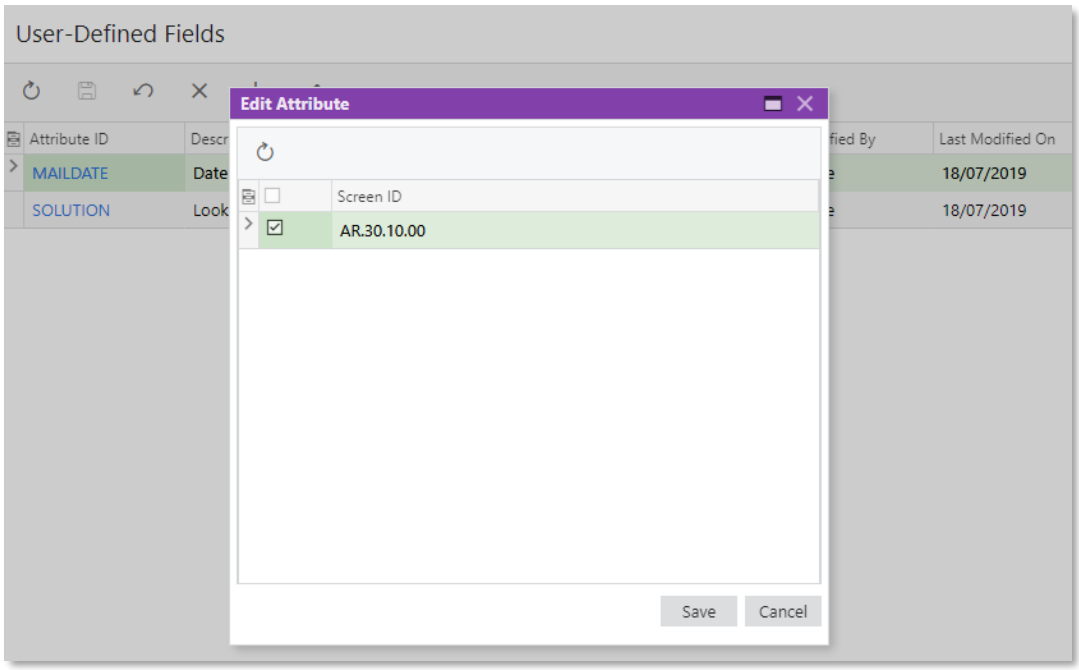
Adding a User-Defined Field to the Customisation Project

A developer can choose which fields defined in an instance are included in the customisation project and manage on which screens these fields are displayed.

After users have defined some fields based on attributes, a developer opens the User-Defined Fields page of the Customisation Project Editor. On this page, the developer loads the fields defined in the instance database or adds them manually by clicking the **Add New Record** button. An example of added user-defined fields is shown below.



After the fields have been added, the developer can edit the list of screens on which each field is displayed. To do this, the developer clicks an attribute ID in the list. In the Edit Attribute dialog box (see the following screenshot), which opens, the developer selects the desired screens by selecting the unlabelled check boxes in the rows of the screen IDs.



After the screens have been selected, the developer clicks **Save** in the dialog box, which closes it, and then clicks **Save** on the page toolbar of the User-Defined Fields page. The selected screen IDs are listed in the Screen ID column of the edited user-defined field.

Third Party Integration

New HubSpot Data Provider

This release adds a new data provider, HubSpot Enhanced Provider, to enhance the integration of MYOB Advanced with HubSpot. MYOB Advanced now supports export of data from MYOB Advanced to HubSpot and import of data from HubSpot to MYOB Advanced through the use of integration scenarios. The HubSpot Enhanced Provider data provider can work with the following data.

Entity Type in MYOB Advanced	Corresponding Entity Type in HubSpot
Leads	Contacts
Contacts	Contacts
Business Accounts	Companies
Marketing Lists	Contact Lists

To configure synchronisation of data between MYOB Advanced and HubSpot, an administrator should do the following:

1. Configure the HubSpot Enhanced Provider data provider on the Parameters tab of the Data Providers screen (SM206015) so that it connects to HubSpot. This data provider supports the use of the OAuth protocol for authorisation in HubSpot.
2. Create integration scenarios that use the HubSpot Enhanced Provider data provider for the entity types whose data need to be synchronised between the systems. You can use the following sample integration scenarios as a basis for the scenarios you need: Export Companies to HubSpot, Export Contacts to HubSpot, Export Lists to HubSpot, Import Companies from HubSpot, Import Contacts from HubSpot, and Import Lists from HubSpot.
3. Configure automation schedules that will run the needed import and export scenarios at the specified time interval.

For more information about the new data provider, see “Enhanced HubSpot Data Provider” in the User Guide.

Mobile

Improved Mobile App Customisation

In this release, developers can include the customisation of the MYOB Advanced OnTheGo mobile application in a customisation project.

With this improvement, the customisation of the mobile application can be used for any needed tenants of an MYOB Advanced instance. Also, the administrator does not need access to the application server to modify the mobile app files stored on the server: Publication of the customisation project with all necessary changes is performed from the application website.

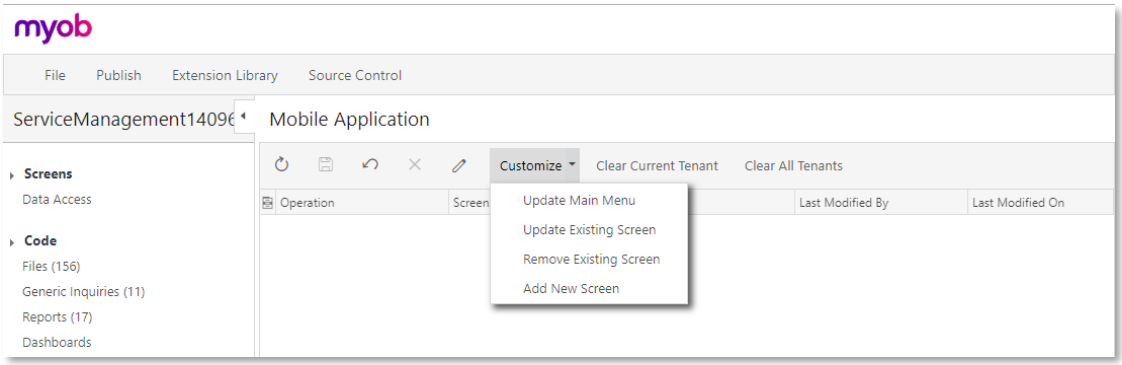
When a customisation project that includes customisation to the mobile application is published in a tenant of an MYOB Advanced instance, the changes to the mobile app are saved to the database for the corresponding tenant. When the developer unpublishes from the tenant the customisation project that has changes to the mobile application, the changes are removed from the database for this tenant.

The sections below describe the changes in the Customisation Project Editor that relate to the customisation of the mobile application.

New Mobile Application Page

The developer adds any changes to the mobile application on the Mobile Application page of the Customisation Project Editor. On this page, the developer can do the following:

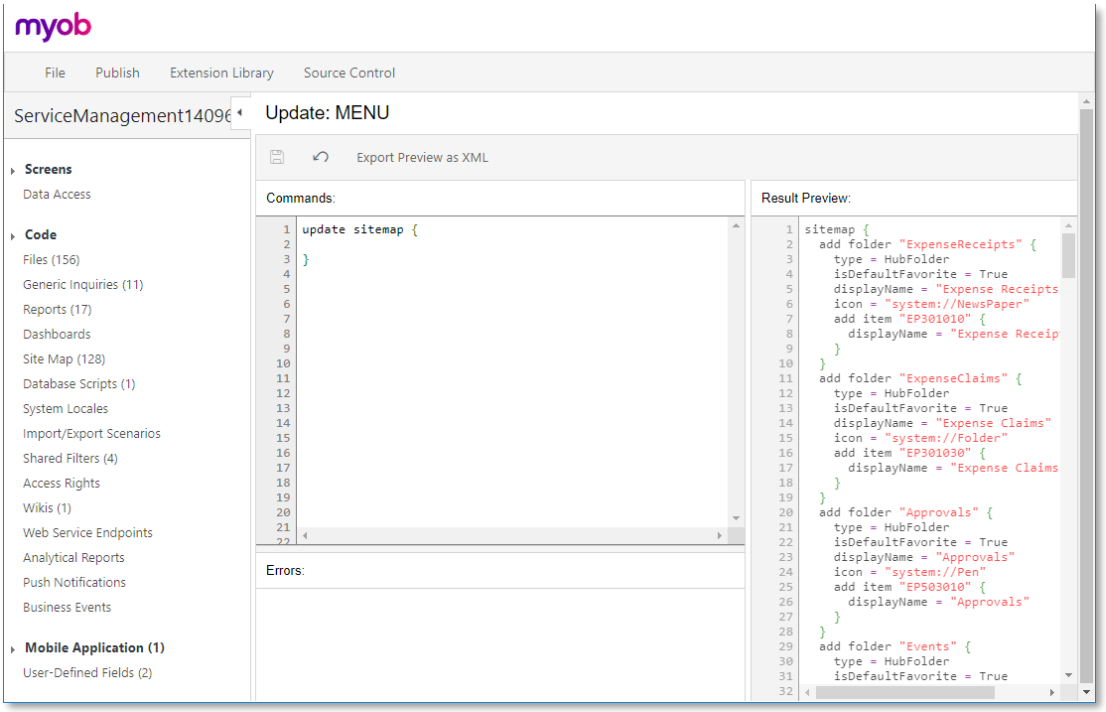
- Customise the main menu of the mobile application
- Customise any existing screen of the mobile application
- Remove any existing screen from the mobile application
- Add a new screen to the mobile application
- Remove from the database any changes made to the mobile application in the current tenant or all tenants



New MSDL Editor

Once the developer has added an item on the Mobile Application page of the Customisation Project Editor, the system opens the page, which is shown in the following screenshot. On this page, the developer can add changes to the mobile application in the Mobile Site Map Definition Language (MSDL). When the changes are saved on this page, the system validates the MSDL script; if any errors have been found, the system shows the errors in the Errors panel. The developer can review the result of modifications in the Result Preview panel.

Note: Mobile site maps in XML format are obsolete and cannot be used in customisation projects.



Mobile Development

The **ac.exe** command-line utility can now compare two mobile site maps and convert a mobile site map in XML format to be in MSDL format. The utility can also save the resulting MSDL script into a customisation package.

The following table lists the added commands and their descriptions:

Command line parameter	Description
`d[elta] s[cript] path_to_old_sitemap_folder path_to_new_sitemap_folder path_to_msdl_script_file`	Compares two mobile site maps, and saves an MSDL script with the delta of these site maps.
`d[elta] p[roject] path_to_old_sitemap_folder path_to_new_sitemap_folder path_to_customization_project_file`	Compares two mobile site maps, and saves the delta of these site maps to the customisation package.
`c[onvert] s[cript] path_to_sitemap_folder path_to_msdl_script_file`	Converts an XML mobile site map to MSDL format.
`c[onvert] p[roject] path_to_sitemap_folder path_to_customization_project_file`	Converts an XML mobile site map to MSDL format, and saves the result to the customisation package.
`u[pgrade] s[cript] path_to_custom_sitemap_folder path_to_msdl_script_file`	Compares an XML mobile site map with the default mobile site map, and saves an MSDL script with the delta of these site maps.

For details, see “ac.exe MOBILESITEMAP Reference” in the documentation.

Documentation

Reorganised User Guides and Help Dashboard

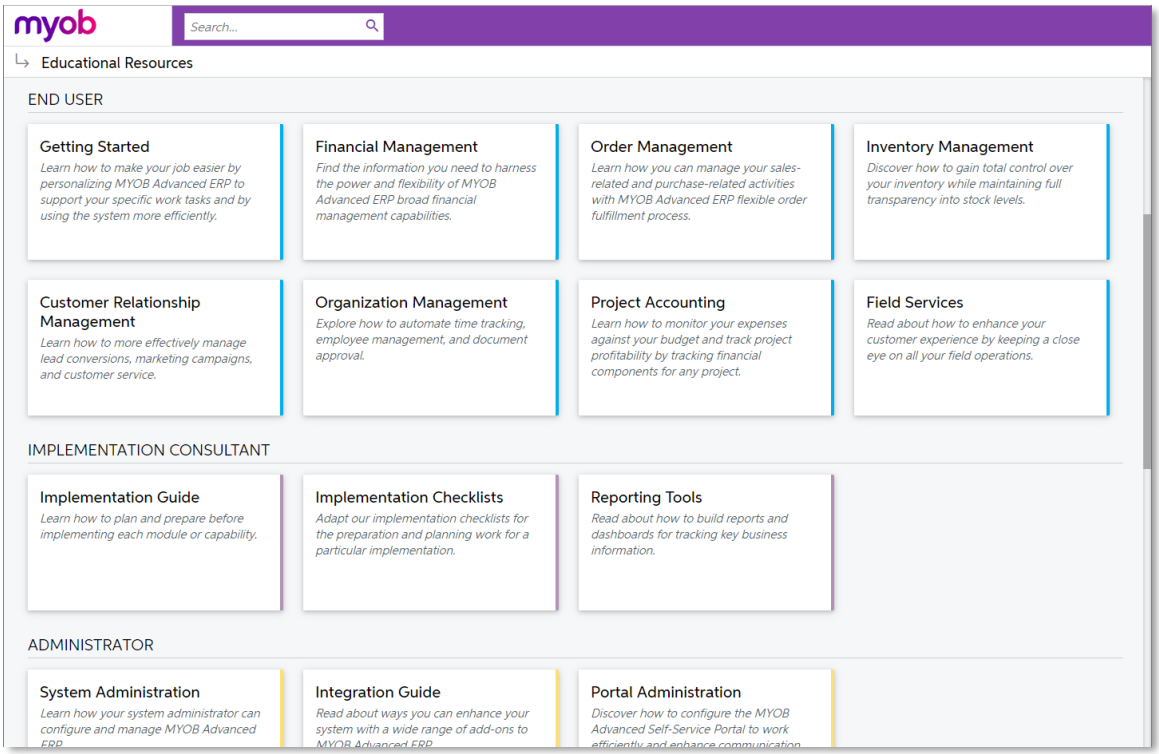
In addition to the help drop-down menus introduced in previous versions of MYOB Advanced, in this release, the structure of the documentation set has been changed.

New Documentation Set

The User Guide has been split into smaller guides to make it easier to navigate. The content in these guides has been grouped by a user competencies, functional areas, or usage. The documentation set now includes a separate guide for novice users (Getting Started), guides for system administrators (such as System Administration and Integrations), and guides for users of a particular functional area of the system (for example, Order Management and Finance). Part of the content (primarily reference materials, such as release notes and screen and report reference topics) has been grouped based on its usage.

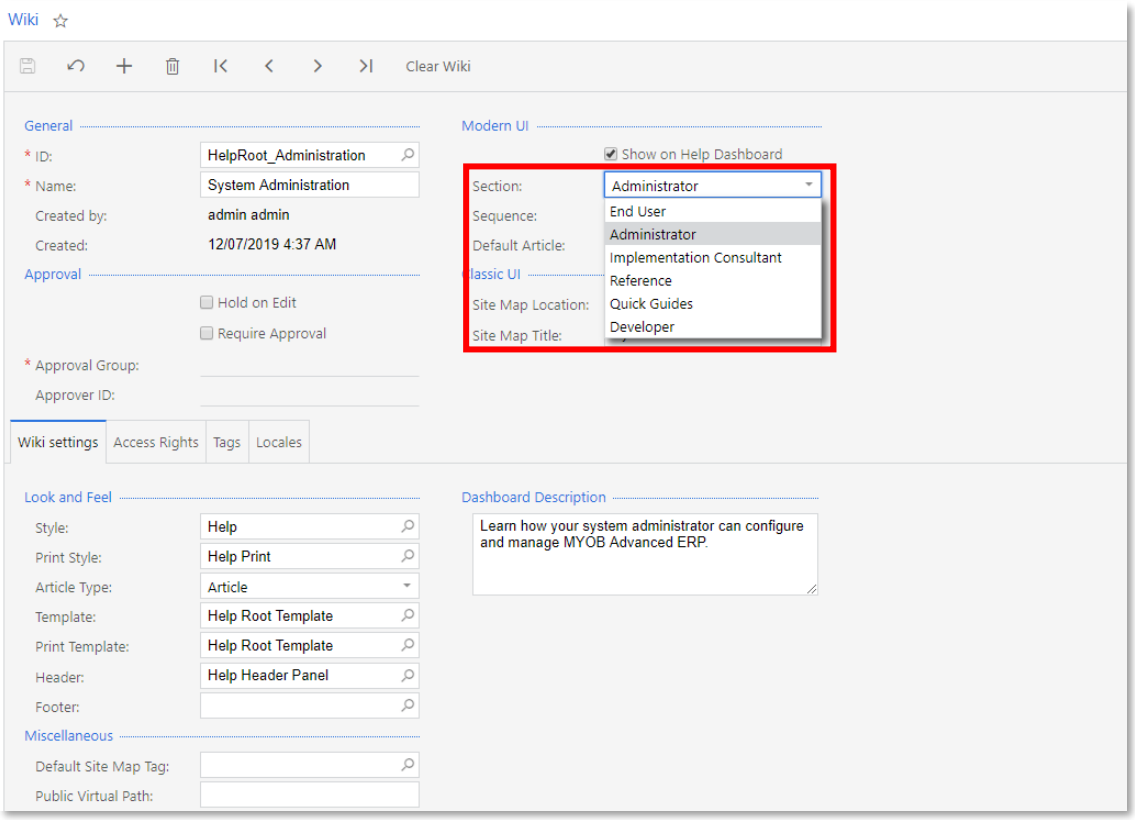
Sections on the Help Dashboard

With the new documentation set, there are 30 user guides, instead of nine in the previous versions. To simplify navigation between guides, sections for the Help dashboard have been introduced. The dashboard is split into sections, each of which groups the guides aimed to a particular audience, as shown in the following screenshot.



Section Assignment

A **Section** field has been added to the Modern UI section of the Wiki screen (SM202005). A user can assign a section to a wiki by selecting one of the predefined options. By default, the box is empty. These sections determine where the wiki is listed on the Help dashboard (as described in the previous section). A wiki, for which a section is not assigned, will be displayed at the bottom of the dashboard and its card will not have a coloured bar.



The set of sections is not configurable, but it can be expanded by means of customisation. For example, if an ISV solution includes documentation as a separate customisation package or a wiki included in the solution package, then the solution developer may add to the package an additional section and assign it to the wiki.

Content Enhancements

The content of multiple Help guides has been enhanced.

Organisation Management Guide

The Organisation Structure Guide and the Time and Expenses Guide have been merged into the Organisation Management Guide.

The Organisation Management Guide has been updated as follows:

- The Overview topics of the Organisation Structure and Time and Expenses parts have been renamed to Overview of Organisation Structure Processes and Overview of Time and Expenses Processes, respectively. The topics have been reviewed and now contain up-to-date information.

- The Managing Companies and Branches chapter in the Organisation Structure part has been reviewed and updated, minor inaccuracies have been eliminated.
- The Managing Employees chapter has been added to the Organisation Structure part. The chapter contains a new topic about employees and the settings that may be specified for an employee.
- The Company Tree topic in the Organisation Structure part has been renamed to Company Tree and Workgroups. The topic has been revised with a focus on workgroups.
- The Company Tree and Workgroups and Multiple Calendar Support topics have been included in the Managing Employees chapter.
- The Reporting Time chapter in the Time and Expenses part has been reviewed and updated, minor inaccuracies have been eliminated.

CRM Guide

The Customer Management Guide has been renamed to CRM Guide. The following changes have been made:

- Multiple procedures have been added to the guide.
- Procedures related to a particular topic have been appended to this topic to maintain information integrity and for easier navigation.

Accounts Payable Guide

The Accounts Payable part of the User Guide has been reviewed and restructured for easier navigation throughout the Guide. The following changes have been made:

- The Managing Suppliers part has been added, which describes in detail the preliminary configuration before creating new supplier accounts and lists other steps required for supplier setup.
- Accounts Payable procedures have been grouped into separate topics such as Processing Bills and Adjustments, Processing Checks and Payments, Processing Prepayments, and others to make it easier for users to find operations related to their everyday work.
- Several new topics with conceptual information and procedures have been added.

Currency Management Guide

The Currency Management Guide has been completely reviewed and updated. The following changes have been made:

- The Overview topic has been renamed to Overview of Currency Management processes. This topic now contains information grouped by main processes that can be performed in the Currency Management functional area.
- The Configuring the Currency Management Submodule chapter has been added with information about how to prepare and configure the submodule in the system.
- The Configuring Currency, Managing Currency Rates, Managing Translations, and Managing Revaluations chapters have been updated and extended with new conceptual topics and procedures.

General Ledger Guide

The content of the General Ledger Guide has been further reviewed and enhanced as follows:

- The Managing Budgets and Managing Allocations chapters have been reviewed and updated. New conceptual topics and procedures have been added.
- Review and enhancements of the Managing Consolidations chapter have been made.
- Procedures related to reviewing of balances and account and transaction details have been moved to the new Reviewing Balances and Details chapter.

Order Management Guide

The Sales Orders, Purchase Orders and Purchase Requisition parts of the User Guide have been combined into the Order Management Guide. The following changes have been made:

- The Overview topics of the Sales Orders, Purchase Orders and Purchase Requisition parts have been renamed to Sales Orders Processes, Purchase Orders Processes and Purchase Requisition Processes, respectively.
- Topics that describe configuring workflows, order types, processing options and other settings that relate to order management have been grouped into the Configuring Order Management section.
- Multiple topics with conceptual information about order management configuration have been added.
- New sections about different scenarios of sales, purchases and returns processing have been added.
- Multiple new topics and procedures have been added.

Inventory Management Guide

The Inventory Guide has been renamed to Inventory Management Guide. The following enhancements have been made in the guide:

- The guide has been restructured. Topics are now grouped in chapters that correspond to usage scenarios.
- Topics with procedures for the most common processes have been added.
- The majority of topics with conceptual information have been restructured and extended.
- The Closing Inventory Periods chapter has been added. This chapter contains topics with conceptual information and procedures related to closing financial periods in the Inventory submodule.

Getting Started Guide

A Getting Started Guide has been created. The guide consists of the existing topics that can be handy for new users of MYOB Advanced. The Getting Started Guide topics are structured in such order, so that new users of MYOB Advanced can quickly find information that is relevant for the user role in the organisation. The Getting Started Guide contains information about access to the system, personalisation of the system (such as configuration of your user profile, management of document processing, and configuration of your workspace), and description of system-wide actions that can be used in MYOB Advanced.

The Getting Started Guide has been enhanced as follows:

- Similar content has been merged
- Duplicate chapters and topics have been eliminated.
- Obsolete names of chapters and topics have been updated.
- Content of the Getting Started Guide has been revamped.

Administration Guide

An Administration Guide has been created. The guide consists of the existing user guide topics related to system administration user role. The Administration Guide provides information about abilities of a system administrator to configure and manage the system.

Other system administration topics improvements:

- Duplicate topics have been eliminated.
- Obsolete names of the sections have been updated.
- Various administrator-related content of the User Guide has been revamped.

Reporting Tools Guide

A Reporting Tools Guide has been created. For the user convenience, the guide collects the existing topics related to MYOB Advanced reporting tools in a newly developed document structure. The topics of the guide are structured in such way, so that users of MYOB Advanced can quickly find the information that is relevant for the report designer and other report-related user roles. The guide contains information about Generic Inquiries, Pivot Tables, Dashboard Pages, Microsoft Power BI Integration, Analytical Reports, MYOB Advanced Report Designer and various Third-Party reporting solutions in MYOB Advanced.

Existing topics and chapters included in the Reporting Tools Guide have been enhanced as follows:

- The structure and various content of the topics has been revamped significantly.
- Similar content has been merged.
- Duplicate chapters and topics have been eliminated.
- Obsolete names of the chapters and topics have been updated.
- Example topics for Generic Inquiries, Pivot Tables, Analytical Reports and others have been added.
- The Third-Party Reporting Solutions group of topics and multiple other new topics have been added to the guide.

Framework Guide

The MYOB Advanced Framework Guide has been updated as follows:

- The MYOB Advanced Framework Overview has been reviewed and contains up-to-date information.
- The Application Programming Overview part has been removed and replaced by the Getting Started with MYOB Advanced Framework part.
- The Design Guidelines part has been renamed to Designing the Application and now contains the following chapters:
    - Designing the Database Structure and DACs
    - Designing the User Interface
    - Naming the Graphs and Event Handlers

- The Configuring Webpages part has been renamed to Configuring ASPX Webpages and Reports and contains multiple chapters related to configuration of particular ASPX elements.
- The Accessing Data part has been added. This part contains the following chapters:
    - Querying Data by Using BQL (moved from the Implementing Business Logic part)
    - Defining Relationships Between DACs (new)
    - Working with Data in Cache and Session (aggregates topics that were scattered over the MYOB Advanced Framework Guide)
- The Implementing Business Logic part now contains the following new chapters:
    - Working with Attachments
    - Configuring the UI from the Back End
- The Troubleshooting MYOB Advanced Framework-Based Applications part has been added.

Customisation Guide

The MYOB Advanced Customisation Guide has been updated as follows:

- The Getting Started part has been added.
- The PX.CommandLine tool has been described.
- The Integrating the Project Editor with Microsoft Visual Studio part has been updated and complemented with the topics about the use of extension libraries and other tips.
- The Integrating the Project Editor with a Version Control System part has been updated to fit any version control system.
- Information on working with dependent customisations has been complemented.
- Information about customisation of field attributes in DAC extensions has been added.

Integration Development Guide

The new Integration Development Guide has been added. The guide includes the topics related to development of applications for integration of MYOB Advanced with external system by using web services API. These topics, which were previously located in the Integration part of the User Guide, are now provided as a separate guide.

Mobile Framework Guide

The Mobile Framework Guide has been moved from the MYOB Advanced Framework Guide to a separate guide.

Plug-In Development Guide

The topics related to plug-in development, which were a part of the MYOB Advanced Framework Guide, are now in the separate Plug-In Development Guide.

Other Improvements

Customer Management

- An **Expense Receipt Numbering Sequence** field has been added to the General Settings tab of the Time and Expenses Preferences screen (EP101000). In this field, an administrator can select the numbering sequence to be used for automatic assignment of numbers to new expense receipts.
- On the Expense Receipts screen (EP301010) and in the Add Receipts dialog box, which a user can open from the Expense Claim screen (EP301000), the Receipt Number column has been added to the table. The Receipt ID element has been renamed to Receipt Number throughout the system.
- If a user is adding a new record or opening an existing record from the Tasks (EP404000) or Events (EP404100) screen, the Task (CR306020) or Event (306030) screen now opens on the current browser tab instead of in a pop-up window.
- On the Quotes substitute screen (CR3045PL), which displays the quotes in list view, the Primary, Status, and Expiration Date quick filters are now displayed by default. The My Quotes Expiring in a Week filter tab has been deleted from this substitute screen.
- On the Account Locations substitute screen (CR3031PL), the Active and Country quick filters are now displayed by default, and the Account Class ID, Account Status, and Account Type columns are now available. Initially, these columns are hidden, but they can be made visible in the table through the Column Configuration dialog box.
- The out-of-the-box performance of the quick search functionality used on generic inquiry screens has been improved due to a reduced number of columns that are used in the quick search by default. If the check box is selected in the Use in Quick Search column on the Results Grid tab of the Generic Inquiry screen (SM208000), the column is used in the search.
- If a standard cost is specified for an expense non-stock item (that is, a non-stock item that represents a specific type of expense) on the Price/Cost Information tab of the Non-Stock Items screen (IN202000), the system now inserts this cost by default for the expense item in the **Unit Cost** box on the Expense Receipt (EP301020) and Expense Claim (EP301000) screens, with respect to the effective date of the current standard cost—that is, for a document whose date is earlier than the effective date of the current cost, the system uses the last cost of the non-stock item as the default unit cost on the document entry screen.
- Because the **Show Author's Email Address** check box on the General Settings tab of Customer Management Preferences screen (CR101000) duplicated the logic that had been implemented on the System Email Accounts screen (SM204002), this check box has been removed.

Finance

- A Status column has been added to the Print Invoices and Memos screen (AR508000), which gives users the ability to filter documents by their status (Balanced or Released).
- On the Customer Details screen (AR402000), the **Pay Invoice** action (in the Actions menu on the screen toolbar) has been renamed to **Enter Payment/Apply Memo**. Similarly, on the Supplier Details screen (AP402000), the **Pay Bill** action (in the

Actions menu on the screen toolbar) has been renamed to **Pay Bill/Apply Adjustment**. If these actions are invoked for an unreleased, voided, or closed document, the system displays an error message; these actions can be invoked only if the document has the Open status. These enhancements make it more convenient for users to further process documents opened on these screens.

- Small credit write-offs are now allowed directly on the Payments and Applications screen (AR302000). A user can perform a credit write-off if the payment amount is greater than the invoice amount. To do this, when creating a payment for an invoice, on the Documents to Apply tab, the user should enter a negative amount in the **Balance Write-Off** column and select the credit write- off reason code in the **Write-Off Reason Code** column. Users can also enter negative write-offs on the Applications tab of the Invoices and Memos (AR301000) and Invoices (SO303000) screens.
  For example, if the invoice amount is $95 and the payment amount is $100, on the Payments and Applications screen, on the Documents to Apply tab, the user should enter 100 in the Amount Paid column and -5 in the Balance Write-Off column to give both documents the Closed status after release. In this case, the system creates the following GL batch:

Account	Debit	Credit
Cash Account	$100	$0
Accounts Receivable Account	$0	$95
Other Income Account	$0	$5 ($100 – $95)

Field Service Management

- Each of the following screens now has a substitute screen with a list view, i.e. when you navigate to or search for the screen, it is opened as a list of documents or entities created by using the screen:
  - Service Orders (FS300100)
  - Appointments (FS300200)
  - Service Order Types (FS202300)
  - Equipment (FS205000)
  - Branch Locations (FS202500)
  - Billing Cycles (FS206000)
  - License Types (FS200900)
  - Service Areas (FS201900)
  - Service Contracts (FS305700)
  - Service Contract Schedules (FS305100)
  - Manufacturers (FS204400)
  - Manufacturer Models (FS204800)
  - Service Templates (FS204900)
  - Master Contracts (FS204700)
  - Route Document Details (FS304000)
  - Routes (FS203700)
  - Route Service Contracts (FS300800)
  - Route Service Contract Schedules (FS305600)
  - Vehicles (FS203600)
  - Vehicle Types (FS204200)

- On the Appointments screen of the MYOB Advanced OnTheGo mobile app, a user can now specify the time in the **Actual Start Time** and **Actual End Time** fields for the selected line by invoking the Start Time and Complete Time actions on the Services or Staff tab. The system sets these times based on the time the action was invoked on the mobile application.
- The UI of the calendar boards and maps has been improved for consistency with the rest of the MYOB Advanced UI. These improvements have not affected the functionality of the screens that include calendar boards and maps.

Inventory and Order Management

- A new PX.StampsCarrier.StampsCarrier plug-in for carrier integration with Stamps.com has been introduced. This plug-in works only with USPS and supports international shipping. The USPS plug-in (PX.UspsCarrier.UspsCarrier) is now obsolete and is used for backward compatibility only.
- In the table on the Process Shipments screen (SO503000), a new Bill Separately column containing a check box has been added. If the check box in this column is selected in a particular row of the table (which represents a shipment), when the user runs the mass-processing of the selected shipments, the system will prepare a separate invoice for this shipment from the invoice of the other shipments to the same customer, if applicable.
- On the Document Details tab of the Sales Orders screen (SO301000), the Amount column, which shows the amount of the document line after the application of discounts, has been added; this amount cannot be edited. The Ext. Price column on the same tab now shows the extended price, which is the unit price multiplied by the quantity; the extended price can be edited.
- On the Availability Calculation Rules screen (IN201500), the **Include Qty. on Returns** check box has been renamed to **Include Qty. on Sales Returns** for clarity.
- The new *Completed* status has been introduced for purchase orders on the Purchase Orders screen (PO301000). The system assigns this status to a purchase order that has been received in full but has not been billed in full—that is, if all purchase order lines on the Document Details tab have the **Completed** check box selected and at least one purchase order line still has the **Closed** check box cleared. (The system does not consider purchase order lines of the Description line type in assessing whether this status should be assigned; lines of this type are ignored.)

Project Accounting

- If the **Validate Document Totals on Entry** check box is selected in the Data Entry Settings section of the General Settings tab of the Accounts Receivable Preferences screen (AR101000), the cash discount is now calculated for Accounts Receivable invoices that originate from projects.
- For a project being viewed on the Projects screen (PM301000), a user can click **Inquiries > Labour Cost Rates** on the screen toolbar to open the Labour Cost Rates inquiry. The system navigates to the Labour Cost Rates screen (PM209900) in the same tab with the project selected in the inquiry selection criteria.
- For an employee being viewed on the Employees screen (EP203000), a user can click **Inquiries > Labour Cost Rates** on the screen toolbar to open the Labour Cost Rates inquiry. The system navigates to the Labour Cost Rates screen (PM209900) with the employee selected in the inquiry selection criteria.

- On the toolbar of the Allocation Rules screen (PM207500), a user can click **Clipboard > Export to XML** to export the selected allocation rule to an .xml file. On the same screen, the user can import an .xml file by clicking **Clipboard > Import from XML** on the screen toolbar. On the toolbar of the Billing Rules screen (PM207000), a user can click **Clipboard > Export to XML** to export the selected billing rule to an .xml file. On the same screen, the user can import an .xml file by clicking **Clipboard > Import from XML** on the screen toolbar.
- Because the value of the Description column was required on the Revenue Budget and Cost Budget tabs of the Projects screen (PM301000), a user could not edit an auto-created budget line that was created with an empty description without having to type a description in the line first.
- On the Revenue Budget and Cost Budget tabs of the Projects screen (PM301000), the system calculates the value of the Performance (%) column as the ratio (expressed as a percentage) of the actual amount to the revised budgeted amount.
- On the Commitments tab of the Change Orders screen (PM308000), a user can now select a purchase order line with the Completed, Closed, or Cancelled status. If this line belongs to a purchase order with the Completed, Closed, or Cancelled status, the purchase order can be reopened by means of change orders and will be assigned the Open, Pending Printing, or Pending Email status, depending on the purchase order workflow.
- On the table toolbar of the Commitments tab of the Projects screen (PM301000), a user can click **Create Purchase Order** and navigate to the Purchase Orders screen (PO301000) to create a new purchase order.
- The Project box has been renamed to Project/Contract on the following screens:
    - Sales Orders (SO301000), in the Summary area
    - Invoices and Memos (AR301000), in the Summary area
    - Deferral Schedule (DR201500), in the Summary area
    - Journal Transactions (GL301000), in the table
- The **Internal Revenue Commitment Tracking** check box has been hidden on the General Settings tab (General Settings section) of the Projects Preferences screen (PM101000). The check box can be made visible by a simple customisation project.
- The PMHistory table has been changed as follows:
    - The new BranchID key field has been added. The table now stores actual balances by financial period of the master calendar and by company-specific financial period, which is defined by the branch. Previously, balances were not broken down by branch in this table.
    - The Tran* columns of the table contain values for master calendar financial periods.
    - The Fin* columns of the table contain values for company-specific financial periods based on the PMTran.BranchID and PMTran.FinPeriodID data.

Reporting

- Support of project currency has been added to reports related to projects. The amounts in the generated reports will be shown in the currency of the project.

Platform

- If a customisation project contains the schema of an MYOB Advanced system database table, an error is now displayed during validation of the customisation project.
- The File Maintenance screen (SM202510) has been enhanced with the ability to use SFTP (Secure File Transfer Protocol) in the **Synchronisation Type** field of the Synchronisation tab.
- The Generic Inquiry screen (SM208000) has been enhanced with the ability to use formulas in the Data Field column of the Grouping and Sort Order tabs, as they could already be used on the Results Grid tab.
- The MYOB Advanced Report Designer export algorithm has been enhanced to include clickable hyperlinks in the resulting files when the report is exported to an Excel or PDF file.
- Outdated CompanyAU and CompanyNZ data templates have been removed from the MYOB Advanced Configuration Wizard.
- On data entry screens, a user no longer has the ability to modify any details of a document while the system is running a long-run operation, such as the release of the document the user is working with. If the user changes the document while this processing is occurring and tries to save the changes, the system displays a warning message indicating that the changes have blocked and continues processing the operation involving the document.
- Elements of the user interface have been renamed as follows:

Old Element Name	New Element Name	Location of the Element
All Items	Full Menu	Name of the element displayed in the workspace title bar
Help Articles	Help Topics	Name of the tab name in the Search Results window
Exit Edit Menu	Exit Menu Editing Mode	Name of the button in Menu Editing mode
Form Parameters	Item Parameters	Name of the dialog box that is opened when a user clicks Edit on the form link

Customisation and Integration

- The MYOB Advanced Customisation Engine now supports C# 7.0. Developers can use all features of C# 7.0 in customisations of MYOB Advanced.
- The dashboard import and export scenarios have been improved, so that when a new dashboard is added to a customisation project, all the included generic inquiries and wiki pages are also added or updated in the customisation project. If any widget in the dashboard is linked to an MYOB Advanced screen, the screen is added or updated on the Site Map page of the Customisation Project Editor.
- Now developers can use the RowPersisting and RowPersisted events and the InsertDocumentTransaction, InsertSplitTransaction, InsertRoundingTransaction, and InsertDepositChargeTransaction methods to customise the release of cash transactions. For details about this approach, see “Customizing the Release Process for CA Documents” in the documentation.
- The names of the customisation projects that contain periods and brackets were imported incorrectly in the Customisation Project Editor. Periods and brackets can now be used in the names of customisation projects.
- For the screens that have multiple dependent sets of detail lines, such as the Projects screen (PM301000), the performance of exporting data has been improved. For these screens, all of the following processes work faster: the copying and pasting of an entity on a screen, the export of an entity in XML format, and the data retrieval through export scenarios, the web services APIs, and the mobile API.

Platform API

- The Having<TCondition> and Aggregate<TFunctions,THaving> classes have been added to the business query language (BQL). The Having<TCondition> class is equivalent to the SQL HAVING clause. In this class, you can specify the condition only by using fluent BQL.
- The Power<Operand1, Operand2> class, which is equivalent to the POWER(Operand1, Operand2) SQL function, has been added to BQL.
- Now it is possible to run a report with predefined report parameters (Dictionary<string, strting>) and data to be used for report generation (PXResultSet). To generate a report, a developer can use a PXReportRedirectParameters instance to pass the parameters and the data to a PXReportRequiredException instance.

Resolved Issues

Organisation

Problem ID	Description
171797055238 171903583531 171726041431	When adding products to an opportunity, the stock description was truncated to 60 characters. This has been resolved.
163565873248 165199991731 163437072341	Branches did not have an Access Role assigned, which could cause errors when preparing tax reports. This has been resolved.

Finance

Problem ID	Description
149699404359 171117368981 156175714541 155918712391 155252838581 155213744901 153984053301 149266555395	In some cases it could be impossible to take a paid invoice on the Invoices and Memos screen (AR301000) off Hold status. This has been resolved.
168864419914 172103899861 170668747301 168747000741	This release improves the performance of ARM reports.
165298139203 164431860401 **164407554417** 163961901218	It was possible to add inactive Payment Methods, Customers and Suppliers to Cash Accounts and use them in Bank Transactions. This has been resolved.
164092217861 165313711201 163661196861	Payments created on the Process Bank Transactions screen (CA306000) didn't contain a correct description. This has been resolved.
145837375464 163304371851 144836842721	An error could occur when releasing an AP bill that was created from a purchase order. This has been resolved.
166110789333 165823085771	The Customer Details screen (AR402000) could show a minor balance discrepancy for some customers. This has been resolved.
141825537511 141711287361	In some cases, the system would hang when clicking **Process All** on the Update Business Accounts screen (CR503320). This has been resolved.
125481574581 125379507523	The Credit Limit set for a customer did not take sales order freight into account. This has been resolved.
172213510341 172073037651	In some cases, the error "Object Reference not set to an instance of an object" could appear when attempting to post a batch to the General Ledger. This has been resolved.
172006333138 172073037651	The system could hang when attempting to run a Profit and Loss report. This has been resolved.

Problem ID	Description
169420219447 168976544821	In some cases, missing sub-items meant that sales order invoices could not be posted to the General Ledger. This has been resolved.
168923568110 168677320151	In some cases, an invoice could be released with a negative amount. When attempting to reverse the invoice, the corresponding Credit Memo could not be released. This has been resolved.
166539624488 166376492211	In some cases, it was not possible to close a period on the Close Financial Periods screen (AR509000) due to unreleased documents, but the document(s) listed had been release and closed. This has been resolved.
166378499258 166290141241	The message "Any unsaved changes will be discarded" could appear when trying to create a new customer. This has been resolved.
161458462607 160871254801	Depreciation calculations could cause a report imbalance if a purchase transaction was in a period prior to the receipt date. This has been resolved.
158169032883 157987994951	The error message "'VendorPaymentMethodDetail' exists for this 'PaymentMethod'" could appear when trying to delete an inactive Payment Method. This has been resolved.
158164801301 158122411661	In some cases, applying a payment to on invoice increased the invoice's balance instead of reducing it. This has been resolved.
157509912273 157356841271 **115332038741** 112227958206	When processing landed costs, the GST amount could be processed against the items and be incorrectly included in the cost of the inventory. This has been resolved.
153861320122 153324146061	The error message "Last Financial Period cannot be found in the system." could appear on the Prepare Translation screen (CM501000) when preparing translations for the current period if the last financial period was inactive. This has been resolved.
151916913133 151586667481	Rounding was calculated differently depending on whether **the Line Discount Basis** on the AR Preferences screen (AR101000) was set to "Unit Price" or "Ext. Price" . This has been resolved.
138388620433 138193868531	Tax could be calculated incorrectly on transactions entered via the Transactions screen (CA304000). This has been resolved.
154534183079 154466836121	When creating a new AP Bill from a document template that did not specify a supplier, the error "BAccountID cannot be empty" could appear on saving. This has been resolved.

Distribution

Problem ID	Description
155092795128 171605534901 168604054061 167178109411 166290141181 166290141111 163676094151 163089200634 163089200621 162635826374 162070373372 160520626131 155467442341 155307555111 154976521426 **165751884437** 165313711279	In some cases, a Sales Order could be shipped and invoiced, but still have the status "Shipping" instead of "Completed". The related shipment would have the status "Invoice" instead of Completed". These issues have been resolved.
154065359330 155394721171 153995221961	The error message "Lost connection to MySQL server during query" could appear when preparing a full stock count on the Prepare Physical Count (IN504000) screen. This has been resolved.
162569621524 164859528521 161655290784	The error message "The given key was not present in the dictionary" could appear when creating new stock items by cutting and pasting existing items. This has been resolved.
172086246905 172008586261 171914903751	Inventory valuations of purchase returns used the Average Cost of the stock item instead of following the valuation settings of the related warehouse. This has been resolved.
165155028524 164454478641	If a Stock or Non-stock Item was added to a project budget but had not been used in any project-related transactions, it would not appear in the Project History Detail report, and therefore any budget amount entered on the Project Budget screen (PM309000) without an Actual would not appear on the ARM report. This has been resolved.
171930942194 171895563663	If a sales order was used to create a dropship purchase order, and the purchase order was then cancelled, the affected line(s) would remain allocated. This has been resolved.
172048486529 171903583631	In some situations, freight would be added to a credit memo when the originating order did not have freight. This has been resolved.
145395723852 145286595941	In some cases, the adjustment journal generated by a Physical Inventory Review could not be released. This has been resolved.
172047920401 171990340211	It was not possible to create a payment for a sales order if the Line Total was 0, even though the Order Total was greater than 0 due to freight. This has been resolved.
169993458373 169919553341	This release improves the performance of the Sales Orders screen (SO301000) when preparing invoices.
168088690778 167452742161	The currency used for prepayments defaulted to the base currency instead of the supplier's currency. This has been resolved.
162590653859 161880082191	When processing Customer or Supplier accounts on the Update Business Accounts screen (CR503320), the Class ID field would not be updated. This has been resolved.
160738359956 160273307805	RC-type Sales Orders would have a $0 unit cost, when stock levels fell to zero. This has been resolved.

Problem ID	Description
152619399769 152576281271	It was possible for a billed Purchase Receipt to appear as unbilled on the Purchase Accrual Details (PO631000) and Purchase Accrual Summary (PO630500) reports. This has been resolved.
152199249199 151969164101	If a sales orders had a single line item that was tax free, when freight was added into a shipment for the order, the freight tax was not included in the related invoice. This has been resolved.
144770251270 144638889678	Purchase returns created from the Purchase Receipts screen (PO302000) did not generate GL journals, which resulted in a Debit adjustment journal created incorrectly. This has been resolved.
151128846409 150854192621	The Issue document created after a Purchase Receipt of type "Return" was released used the incorrect Unit Cost. This has been resolved.
137350789270 137263584031	Invoices generated from a sales order that had not calculated freight, incorrectly charged freight based on the payment terms assigned. This has been resolved.
168905116790 168817043291	In some cases, the Inventory Valuation report (IN61550) did not show Lot/Serial Numbers. This has been resolved.
-	When adding an item to a stock take on the Physical Inventory Count (IN305010) and Physical Inventory Review (IN305000) screens, after selecting a location on the Add Line popup window, the Inventory ID and UOM fields would be blanked out. (This was a display issue only – clicking **Add** would add the item with the correct values.) This has been resolved.

Projects

Problem ID	Description
162564975996 162459068776 162459068771	The ability to set Project Budgets by period was removed in the 2018.1.x releases; this release restores the Project Budget by Period screen (PM305000).
170332684116 170170232407 167688030361	Project budgets were not updated when the updated information was uploaded from a file on the Project Budgets screen (PM309000). This has been resolved.
172145213862 172046402609 172046402601	The error message "TaxBucketID cannot be empty" could appear when attempting to release a pro forma invoice. This has been resolved.
160863406168 167661931691 159934591867	Project allocations could not be run if Cost Codes were enabled. This has been resolved.
162589742744 162414390991	Project invoices were calculated incorrectly when the "Retainage Support" feature was enabled but the **Pro Forma on Billing** option was unticked. This has been resolved.
169550723158 169114314711	Pro forma invoices were calculated incorrectly when the "Retainage Support" feature was enabled and the **Retain Taxes** option was ticked on the Accounts Receivable screen (AR301000). This has been resolved.

Problem ID	Description
167285548454 167194167151	The error message "Nullable object must have a value." could appear when clicking **Run Project Billing** on the Projects screen (PM301000). This has been resolved.
161764271739 161515192961	When creating external commitments on the Commitments screen (PM306000), if the user selected one project on the External Commitments popup window, then selected a different project, the first project's tasks would still be displayed. This has been resolved.
150741615420 150681818591	Attempting to edit a project task on the Activity History tab of the Projects window (PM301000) could generate the error messages "Project cannot be empty" and "Billable hours must be other than zero". This has been resolved.
137676582213 137640419101	Currency exchange rates did not calculate correctly when invoicing projects. This has been resolved.
140095392812 139238412201	Releasing a time activity against a project created additional lines on the Project Budgets screen (PM303000). This has been resolved.
168374866648 167329544811	Allocation Reversal transactions were missing for items that were written off on the Proforma Invoices screen (PM307000). This has been resolved.

System and Platform

Problem ID	Description
166133905910 172351693141 172277623401 172277622961 172246551081 172231849461 172167895171 171988177551 171937410481 171829777971 171653051711 167434424751 167350990471 167104936661 165393059571 164969432521	In some cases, users logging in with Secure Authentication did not see the correct UI (Modern vs. Classic) as per their preference settings. This has been resolved.
160535842766 172266540031 172068921361 171931967981 169762106584	This release resolves an issue that could result in the DataIntegrityLog taking up most of a site's storage space.
164409144377 163953645357 163953645351 163953645346	In some browsers, after opening a PDF document it would not be possible to click anywhere else on the screen to navigate somewhere else. This has been resolved.
160746685352 163661196881 162429195531 160710369721	The Company dropdown control did not work on some older dashboards. This has been resolved.
154003555381 171780717641 153199557901	The error message "Sorry, but we're having trouble signing you in." could appear when trying to connect to MYOB Advanced in PowerBI.
166177771774 165818275521 164808727571	When using the Advanced OnTheGo mobile app, it was not possible to select multiple customers on screens where multiple selections were possible in the web browser interface. This has been resolved.

Problem ID	Description
164138966827 163252230431	Changing the screen ID of a Generic Inquiry in the site map did not update any entities that used the inquiry, e.g. pivot tables or widgets, causing those entities to break.
159791208246 159671639263	When importing consolidation data, the system would not import entries that had segment values whose length was shorter than the length of the segment. This has been resolved.
163427553289 162918788251	Attribute filters applied to Pivot Tables did not work. This has been resolved.
151502120603 151453010676	This release improves the performance of the "InvoicedItems" generic inquiry that is included in the standard demo databases.
156003724733 155948538366	Information on some new features was missing from the wiki. This has been resolved.
170366487014 170171829821	After creating a user and assigning a default branch on the Personal Settings tab of the Users screen (SM203010), the **Show Classic UI by Default** option would become ticked.
156003724781 155948538361	An error could occur when attempting to save changes to a workspace in the Modern UI. This has been resolved.
136621870758 136549118821	The company logo on a document would disappear if the document was emailed then printed. This has been resolved.
172747861200 172731464281	Help content was not available for the Payroll module. This has been resolved.
-	Inactive printers were still available for selection when setting up DeviceHub. This has been resolved.
-	The View Space Usage option in the Actions dropdown on the Tenants screen (SM203520) has been removed, as the screen it links to is not available.
-	The **Status** column has been removed from the Partner Support screen (MYSM2010), as it did not accurately display users' access to the system, which is indicated (correctly) by the **Allows access to MYOB Advanced** column.
-	When a Partner Support user changed the name of a company in a multi-tenant site, the name change was not propagated to all tenants. This has been resolved.
-	The error message "Cannot insert the value NULL into column 'TranPeriodID'" could appear when saving a new invoice on the Invoice and Memos screen (AR301000). This has been resolved.
-	Employee's names were incorrectly populated into the AcctName. This has been resolved.
-	The Services module could disappear from workspace menus after an upgrade. This has been resolved.

Platform API

Problem ID	Description
162033298048 161492621231	In some case, a GET request that included `$expand=Attributes` returned an error. This has been resolved.
160293105026 159934591191	Web Services Endpoints were not able to add Payment Instructions for Suppliers. This has been resolved.
151627029119 151427999441	Payments in a foreign currency submitted via the API would fail with the error message “Denominated GL Account currency is different from transaction currency.” This has been resolved.
157988337179 157669404421	Creating Purchase Receipts for Transfer Orders via the REST API resulted in errors. This has been resolved.
-	The error message "The system failed to commit the document row" could appear when trying to attach a document to a Closed AP Bill via the REST API. This has been resolved.

Customer Portal

Problem ID	Description
-	Users could not delete contacts from the Customer Portal. This has been resolved.
-	This release removes the **Validate CC Payment** button from the Checkout screen (SP700002), as this operation is not currently supported.

Known Issues

The following known issues and breaking changes have been identified in this release.

Currency refresh may not happen immediately

After refreshing currency rates on the Refresh Currency Screen (CM507000), the updated rates may not appear on the Currency Rates screen (CM301000) immediately. If the user's Time zone matches the UTC time zone, the rates will be updated instantly; otherwise the updates will appear once the local time matches the UTC time when the update was made.

Disabled Partner Support users see the wrong error message

Partner Support users whose accounts have been disabled see the error message "Looks like you're ready to use Secure Authentication! Just log into Advanced as normal and we'll send you a prompt to sign up." when they attempt to log in via Secure Authentication. Disabled users are correctly prevented from logging in, but the error message may cause confusion.

Error message appears after Secure Authentication onboarding

When a new licenced user receives and onboarding email and uses the link it, the Secure Authentication signup process completes and the user is authenticated, but they are returned to the Advanced login page displaying an error message. This error can be disregarded—if the user clicks the purple **Sign in with Secure Authentication** button, they will be logged in successfully.

Automated Warehouse Operation screens may not open

After upgrading, the following screens Automated Warehouse Operation screens may display an error message when users try to open them:

- Storage Lookup
- Item Lookup
- Scan and Issue
- Scan and Receive
- Scan and Transfer

This is due to missing configuration information—users must click on their username at the top right, then click the **My Profile** link from the dropdown menu to open the User Profile screen (SM203010). Enter any missing information on this screen, e.g. Default Warehouse, before opening the Automated Warehouse Operation screens.

Credit Card controls available on some screens

The following controls relating to credit cards are currently visible:

- The **Validate CC Payment** option in the Actions Menu on the Payments and Applications screen (AR302000).
- The CCEXPIRENOTE Notification Template on the Mailings tab of the Customers screen (AR303000).

Credit card features are not currently supported—these controls cannot be used.

Services module can disappear from workspace menus

After upgrading MYOB Advanced, the Services module could disappear from workspace menus in the Modern UI. The individual screens are still available in the Data Views section.

Outlook Add-in requires a login on each e-mail

After installing the Outlook Add-in for MYOB Advanced, users are required to re-enter their login details for the add-in each time they navigate to a new email in Outlook.

Side Panels are missing the ability to set an icon

When adding a side panel to a Generic Inquiry, the option to select a custom icon for the panel is missing, which means that all side panels have the default icon.

Unable to delete Contacts in the customer portal

The **Delete** button on the Contact screen in the customer portal does not work. (The ability to delete contacts should not be available; this button will be removed in a future release.)

Non-Stock Item images displaying incorrectly

The Attributes tab of the Non-Stock Items screen (IN202000) does not display images correctly when a new browser tab or window is opened.

Error when attempting to create an Invoice from a Shipment

When trying to Create Invoice from a Shipment that was created from a Sales Order with a Project assigned, the Prepare Invoice functionality fails with the error “Failed to automatically assign Project Task to the Transaction.” A workaround is to create the Invoice manually, assigning the Project/Task as required.