

Microsoft Dynamics®

Management Reporter Integration Guide for Microsoft Dynamics GP

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Introduction

Management Reporter 2012 for Microsoft Dynamics® ERP uses a data provider to integrate data between Microsoft Dynamics GP and Management Reporter. You can view and use the data from Microsoft Dynamics GP to create financial reports in Management Reporter 2012 without affecting the original data in the Enterprise Resource Planning (ERP) system.

The following options are available for Microsoft Dynamics GP:

- **Data mart integration (recommended)** – Creates a data mart database of information from the Microsoft Dynamics GP database to create financial reports in Management Reporter 2012. This option improves performance when generating reports in Management Reporter 2012, and it supports a greater level of integration with Microsoft Dynamics GP.

Note: When you use a data mart integration, you are prompted for credentials less often than in a legacy data provider integration.

- **Legacy data provider** – Displays information from the Microsoft Dynamics GP database so that you can create and modify financial reports in Management Reporter 2012.

System setup

Before you configure the Microsoft Dynamics GP data integration, your system must meet the minimum requirements for Management Reporter 2012. For more information, see [System requirements for Management Reporter](#). Additional prerequisites are listed below.

System prerequisites

The following components must be installed before the data provider can be configured on your system.

Integration option	Prerequisite	Notes
Data mart	Dexterity Shared Components	<ul style="list-style-type: none">Must be installed on a computer where the Management Reporter 2012 application service and process service are installed. Note: These components are included on the installation disk for Microsoft Dynamics GP, in the DexteritySharedComponents folder.
	Microsoft SQL Server 2012 or newer	<ul style="list-style-type: none">The data mart requires a SQL Server 2012 or newer database instance for the data mart database and for the system database and company database for Microsoft Dynamics GP. For more information, see the Management Reporter system requirements.
	Microsoft Dynamics GP	<ul style="list-style-type: none">The Microsoft Dynamics GP databases must be upgraded to Microsoft Dynamics GP 2013 or later.A functional currency must be defined for companies in Microsoft Dynamics GP before Management Reporter 2012 is configured.To use Drill to Dynamics in Report Viewer, Microsoft Dynamics GP 2013 or later must be installed. For Drill to Dynamics in Web Viewer, Microsoft Dynamics GP 2013 Service Pack 1 or later is required.
Legacy data provider	Microsoft Dynamics GP client	<ul style="list-style-type: none">Earlier versions of Microsoft Dynamics GP must be updated to Microsoft Dynamics GP 2013 or newer.To use Drill to Dynamics in Report Viewer, Microsoft Dynamics GP 2013 must be installed. Drill to Dynamics in the Web Viewer is not available.
	Dexterity Shared Components	<ul style="list-style-type: none">Must be installed on a computer where the Management Reporter 2012 application service and process service are installed. Note: These components are included on the installation disk for Microsoft Dynamics GP, in the DexteritySharedComponents folder.
	Management Reporter 2012 server components	<ul style="list-style-type: none">For installation procedures, see the Management Reporter installation guide.

Enable SQL Server Change Tracking

Management Reporter 2012 uses SQL Server Change Tracking to ensure that all transactions are integrated from Microsoft Dynamics GP to the Management Reporter data mart. SQL Server Change tracking is turned on with a retention setting of three days by default. If the Management Reporter data mart integration is disabled for more than three days while transactions are posted in Microsoft Dynamics GP, you might want to reset your data mart to ensure that no data was missed.

During the upgrade process, the configuration console enables SQL Server Change Tracking. You might be prompted to provide credentials that have sufficient permissions to enable SQL Server Change Tracking, such as a user with a role of db_owner or a system administrator.

Note: The Microsoft Dynamics GP ERP Integration user account is modified to include the **View Change Tracking** permission to read the change tracking tables in Microsoft Dynamics GP.

For more information, see "How to: Use SQL Server Change Tracking" on MSDN (<http://msdn.microsoft.com/en-us/library/cc305322.aspx>) and "Change Tracking" on MSDN ([http://msdn.microsoft.com/en-us/library/cc280462\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/cc280462(v=SQL.105).aspx)).

Note: When a new company is added, or when Analytical Accounting is activated for an existing company in Microsoft Dynamics GP, Change Tracking must be reconfigured. In the configuration console for Management Reporter select **Reconfigure Change Tracking**.

User account requirements

The user account that is used during configuration for the data provider must meet the following requirements.

Application	User requirements
Microsoft Dynamics GP	The user account must meet these requirements: <ul style="list-style-type: none">• Is an active user account in Microsoft Dynamics GP.• Is either the sa user, DYNSA user, or a Microsoft Dynamics GP user who has been manually assigned the db_datareader role in SQL Server for the Microsoft Dynamics GP system database and company database.
Management Reporter 2012	The user account must meet these requirements: <ul style="list-style-type: none">• Is a user assigned to the Administrator role.• Has an Active Directory domain account user ID and password.

User account permissions in Microsoft Dynamics GP must be set up before configuring Management Reporter.

Note: All Management Reporter users must have Active Directory domain accounts for authentication. For more information, see "How to create a domain account in Active Directory" on MSDN ([http://msdn.microsoft.com/en-us/library/aa545262\(CS.70\).aspx](http://msdn.microsoft.com/en-us/library/aa545262(CS.70).aspx)).

After Management Reporter is installed and fully configured, you can add users and modify security permissions. See the Management Reporter Help documentation (<http://go.microsoft.com/fwlink/?LinkId=324762>) for more information.

User permissions in Microsoft Dynamics GP

User permissions in Management Reporter are based on the integration that you use.

- In a legacy data provider integration, user permissions are defined by the settings in the ERP system. If a user does not have access to a specific company in the ERP system, then the user cannot generate a report for that company in the ERP system.
- In a data mart integration, user permissions are defined by user roles and are not restricted by the settings in the ERP system. If a user has access to a company in Management Reporter, then the user can generate a report for that company, even if the user does not have access to that company in the ERP system. For more information about how to define user roles and permissions in Management Reporter, see the [Management Reporter Help documentation](#).

Note: A user with the role of Administrator in Management Reporter can view data for all companies. For more information, see the [Management Reporter Help documentation](#).

Installation

Management Reporter 2012 has two different sets of components: the server components and the client components. Server components include an application service, a process service, and the Management Reporter database. The database can be created during installation, or you can use an existing Management Reporter database.

To install Management Reporter 2012 server components, see the [Management Reporter installation guide](#).

Upgrading from previous versions of Management Reporter

You are not required to uninstall a previous version of Management Reporter if you are installing Management Reporter 2012. However, you must select an unused port during configuration because the default port is already in use.

1. Verify that the user who is performing the upgrade is assigned to the Administrator role in Management Reporter.
2. Create backups of your Management Reporter database.
3. Complete the upgrade procedures as explained in the [Management Reporter installation guide](#).
4. If you use the legacy data provider to integrate with Microsoft Dynamics GP, we recommend that you create a new integration with the data mart. Future releases of Management Reporter 2012 will no longer support the legacy data provider for Microsoft Dynamics GP.

Configuration

The legacy data provider and data mart for Microsoft Dynamics GP are installed at the same time as the Management Reporter server components. For more information and installation procedures, see the [Management Reporter installation guide](#).

The following procedures explain how to configure the data integration for Management Reporter.

Configure the data integration

Management Reporter uses a legacy data provider or a data mart to integrate information from a Microsoft Dynamics GP system. You can configure these components during initial configuration or after you have set up the application service and process service for Management Reporter 2012.

Note: Management Reporter 2012 can integrate with multiple ERP systems, but you can configure only one instance of a legacy data provider or data mart at a time.

1. Click **Start**, select **Programs**, select **Microsoft Dynamics**, select **Management Reporter 2012**, and then select **Configuration Console** to open the Management Reporter configuration console.

Note: On Windows 8.0 or later, select the configuration console tile on the Start screen.

2. In the Management Reporter 2012 configuration console, click **File**, and then select **Configure** to open the **Custom Configuration** dialog.

3. Under **Management Reporter Application Service**, select one of the following options for integration:

- **Add Microsoft Dynamics GP Data Mart** - Configure a data mart integration for Microsoft Dynamics GP and create a data mart database.
- **Add Microsoft Dynamics GP Legacy** – Configure the legacy data provider for Microsoft Dynamics GP.

Note: The legacy data provider for Microsoft Dynamics GP will no longer be supported in a future release. We recommend that you use a data mart integration.

4. Click **Next**.
5. Under **Management Reporter Application Service**, select the **Add Microsoft Dynamics GP** check box, and then click **Next**.
6. On the **Prerequisite Validation** page, review any failed prerequisites or warnings and resolve issues before continuing with the installation process. Click **Revalidate** to run the validation again.
7. Click **Next**.

8. On the **Settings** page, enter the following information for the data integration:

ERP integration	Required information
Microsoft Dynamics GP Data Mart	<ul style="list-style-type: none">• Database server – The name of the server that hosts Microsoft Dynamics GP.• User name and password of a user account that has permissions to connect to Microsoft Dynamics GP. For more information, see User account requirements.• Database – The name of the Microsoft Dynamics GP system database to connect to.• Data mart database server – The server where the data mart database is located.• User name and password of the account that is used to create the data mart database. Select Use Windows authentication to use your current credentials.• Data mart database – The name of the data mart database to create.
Microsoft Dynamics GP Legacy	<ul style="list-style-type: none">• Database server – The name of the server that hosts Microsoft Dynamics GP.• User name and password of a user account that has permissions to connect to Microsoft Dynamics GP. For more information, see User account requirements.• Database – The name of the Microsoft Dynamics GP system database to connect to.

Note: The name of the database server is listed in the ODBC Data Source Administrator that the Microsoft Dynamics GP client uses to connect to the system database. (Click **Start**, select **Administrative Tools**, and then select **Data Sources (ODBC)**.) If SQL Server® is on the same computer as Microsoft Dynamics GP, do not use localhost as the server name.

9. If your SQL Server is configured to use secure Sockets Layer (SSL) for encryption, select **Encrypt connection**. The data that is transmitted between the SQL Server and Management Reporter 2012 services is encrypted.

Note: To use this option, you must configure SSL on the server and install certificates. For more information, see "Encrypting connections to SQL Server" on MSDN (<http://msdn.microsoft.com/en-us/library/ms189067.aspx>).

10. Click **Next**.
11. Review the data integration information, and then click **Configure**.
12. When a message is displayed indicating that the data integration has been successfully configured, click **Close**.
13. To integrate with another instance of Microsoft Dynamics GP, repeat steps 1 through 12. To integrate with another ERP system, see the integration guide for that system.
14. After all integrations are configured, you must define which companies should be available for reporting in Management Reporter 2012. For more information, see [Adding companies](#).

Adding companies

If you are using Microsoft Dynamics GP 2015 and the Management Reporter data mart, companies are enabled for reporting within Microsoft Dynamics GP.

1. Log into each company and click on **Tools, Setup, Company**, and **Company**.
2. Click on **Options** and select **Enable General Ledger Reporting**.
3. If Analytical Accounting has been activated and configured you can also select **Enable Analytical Accounting Reporting** to include Analytical Accounting data on reports for this company.
4. After companies have been added, click **Run ERP data validation** to check for any issues within Dynamics GP data. See ERP data validation for more information on this step.
5. Once one or more companies have been enabled, click the Enable Integration button.

If you are using a Microsoft Dynamics GP 2013 and the Management Reporter data mart, companies are enabled through the Management Reporter configuration console.

1. Open the Management Reporter configuration console.
2. In the left pane, click on the ERP integration to enable companies for.
3. Click **Add Company** to display a list of the Microsoft Dynamics GP companies.
4. Select the check box for each company to enable.
5. To include Analytical Accounting report details in Management Reporter reports, select the **Report on AA** check box. This check box is only available for companies that use Analytical Accounting.
6. Click **OK** to enable the selected companies for use in Management Reporter.
Note: Only companies with a status of "Ready" can be enabled.
7. Enter your Microsoft Dynamics GP credentials and then click OK.
8. After companies have been added, click **Run ERP data validation** to check for any issues within Dynamics GP data. See ERP data validation for more information on this step.
9. Once one or more companies have been enabled, you can proceed on to click the Enable Integration button.

Note: If you are using the Management Reporter data mart, companies should not be enabled, disabled, and then re-enabled.

If you are using Microsoft Dynamics GP with the legacy data provider, complete the following steps to enable companies.

1. In the Management Reporter 2012 configuration console, verify that the application service is running.
Note: The application service must be running to import company information.
2. In the navigation pane of the Management Reporter configuration console, expand the **Management Reporter 2012 services** node. Under **ERP Integrations**, select the integration to import companies from.
3. Click **Import** in the display pane.
4. Enter your Microsoft Dynamics GP credentials. For more information, see [User account requirements](#).
5. Review the list of available companies. If a company has already been imported, **Already imported** will be selected. To not import a company, select **Skip import**.

6. Click **Import companies**.
7. If you import a company that has the same name and code as an existing company, a message will be displayed that asks if you want to overwrite the existing company information. To overwrite the company information, click **Yes**, or click **No** to cancel the import. To continue the company import, you must select **Skip import** for the existing company, and then click **Import companies** again.
8. When a message is displayed that indicates that the companies have been successfully imported, click **OK**.
9. To view a list of imported companies, click **Companies** under the **Management Reporter Services** node in the navigation pane.

Note: Companies with Analytical Accounting are imported differently depending on the type of integration. For data mart integrations, only one entry is imported per company. For integrations with the legacy data provider, two entries are imported per company.

Select the default company

The first time that you open Report Designer, you are prompted to designate a default company that identifies the source of data for reporting. By default, this company description is displayed in the headings of reports that are created in Management Reporter 2012.

1. Open Report Designer. On the **Company** menu, click **Companies** to open the list of companies in Management Reporter.
2. Select the company to be assigned as the default company, and then click **Set as default**.
3. If you are using the legacy data provider, enter a user ID and password to connect to the company. These credentials must match the credentials that are stored in the Microsoft Dynamics GP database.

To save your credentials and not enter them each time that you connect to Microsoft Dynamics GP, select the **Save my credentials** checkbox.

Note: Credentials are not required if you are using a data mart integration.

4. Click **OK** to select the default company.
5. Click **Close**.

ERP data validation

For data mart integrations of Management Reporter, the configuration console will provide the ability to validate Microsoft Dynamics GP data. The validation checks for inconsistent or invalid data within Microsoft Dynamics GP that is known to cause problems with Management Reporter. If any issues are found, there will be an error in the integration log that will have you run additional scripts located on the Microsoft Knowledge base at <http://go.microsoft.com/fwlink/?LinkID=397214>.

Appendix

The following sections provide additional information about the Microsoft Dynamics GP data provider.

Currency translation in Management Reporter reports

In previous versions of Management Reporter, currency translation was not supported for data mart integrations. In Cumulative Update 8, currency translation for data mart integrations was supported with specific requirements

- Exchange rates for currency translation are defined in the exchange rate tables in Microsoft Dynamics GP.
- Exchange rates on or before the current date are supported. Management Reporter does not use previous, next, or exact exchange rates.
- Balances from the **Currency Translation** window in Microsoft Dynamics GP are not used in Management Reporter. To view the current balance in Management Reporter, enter the effective exchange rate for first year balances in Microsoft Dynamics GP.
- The following characters are not supported in the currency names: & " ' /.
- Currency translation values can be translated by using two methods:
 - When viewing a report in the Web Viewer, change the currency in the app bar.
 - In Report Designer, when editing a column definition, enter a specific currency in the **Currency Display** field.

Management Reporter CU11 added several enhancements and the following is now supported:

- Accounts no longer have to be assigned to the retained earnings account category. Instead, retained earnings will be calculated based on the source documents that have been posted for that account.
- Management Reporter now supports posting transactions to the retained earnings account.

Unposted intercompany transactions not supported in data mart

Unposted intercompany transactions will be unavailable for reporting in Management Reporter. Once these transactions have been posted they can be reported on.

Analytical Accounting budgets in Management Reporter reports

Budgets and Analytical Accounting (AA) Budgets in Microsoft Dynamics GP reports can use the same name in Management Reporter. AA Budgets are identified with "AA:" preceding the budget name. For example, an AA Budget named "Forecast Budgets 2013" would be identified as "AA: Forecast Budgets 2013."

Note: Any AA Budgets in column definitions must be reselected after integration.

Analytical Accounting dimensions in the data mart are named after the Transaction Dimension ID

In previous versions of Management Reporter, Analytical Accounting dimensions were named using the Transaction Dimension Description. In Rollup 4, Analytical Accounting dimensions in the data mart are named after the Transaction Dimension ID.

Note: After configuration, you might need to select dimension values again for values where the ID does not match the description.

Analytical Accounting details in Management Reporter reports

Reporting on Analytical Accounting details can't be changed without removing the integration to Dynamics GP and reconfiguring the integration.

User defined dimensions not supported in data mart

In a legacy data provider integration, some user defined fields can be used as dimension values. In a data mart integration, user defined fields are supported as attribute values.

If you have reports that currently include user defined fields as dimensions, you must update the reports after the integration is upgraded to a data mart integration.

Account level security not supported in data mart

In a legacy data provider integration, records can be secured at the account level. In a data mart integration, account level security is no longer supported.

If you have reports that currently use account level security, you must manually modify the report design to suppress detail or remove access to those reports after the integration is upgraded to a data mart integration.

History removal within GP not supported in data mart

Microsoft Dynamics GP has several utilities to remove history, but retain summary information. Management Reporter does not support the use of these utilities. If history was removed, any reports referencing that period where data was removed will return a zero value.

Changing report timeout settings

If the legacy data provider takes too much time to process a report, this might result in a report that contains no data. To correct this issue, you might need to change the timeout settings.

If you have upgraded to Management Reporter 2012 Rollup 3 or later, you can adjust the default settings of timeouts in the **MRServiceHost.settings.config** file.

- To increase the timeout during integration of data into the data mart, modify the **SqlBulkCopyTimeout**, and **SqlBulkCopyBatchSize** settings.
- To change the timeout for running data mart based reports, modify the **DataMartQuery** setting.
- To change the timeout for running Microsoft Dynamics GP legacy data provider based reports, modify the **GPReaderTimeout** setting.

Note: The **MRServiceHost.settings.config** file is not modified during upgrade. Any modifications to this file must be completed manually. If you have upgraded from a previous release of Management Reporter 2012, you might need to create these parameters manually.

For more information or additional assistance, contact Microsoft Support.

Change tracking required for new companies and Analytical Accounting

When a new company is added, or when Analytical Accounting is activated for an existing company in Microsoft Dynamics GP, Change Tracking must be reconfigured. In the configuration console for Management Reporter, integrate the company again and select **Reconfigure Change Tracking**.

Importing companies from the legacy data provider into Management Reporter

When companies that are associated with the legacy data provider are imported into Management Reporter, company names include a suffix of **-Curr**. When migrating a legacy company to use data mart, the following components must be updated:

- For headers in reports for legacy companies, use the auto text code for the company description (**@CompDesc**), or manually type the headers.
- Reselect any reporting unit restrictions for reports for legacy companies.
- Update report definitions and reporting tree definitions with the new company name.
- Reselect Analytical Accounting dimensions. In the legacy data provider, Analytical Accounting dimensions are named using the Transaction Dimension ID, but the data mart uses the Description Dimension.

For more information about how to upgrade companies from the legacy data provider to the data mart, see "Upgrading to Management Reporter 2012 RU3 for Dynamics GP 2010 Customers" on MSDN (<http://blogs.msdn.com/b/dynamicscpm/archive/2012/11/14/upgrading-to-management-reporter><http://blogs.msdn.com/b/dynamicscpm/archive/2012/11/14/upgrading-to-management-reporter-2012-ru3-for-dynamics-gp-2010-customers.aspx>2012-ru3-for-dynamics-gp-2010-customers.aspx).