

Microsoft Dynamics®

Management Reporter Integration Guide for Microsoft Dynamics AX

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Introduction

Management Reporter 2012 for Microsoft Dynamics® ERP can integrate data between Microsoft Dynamics AX and Management Reporter. You can view and work with data from Microsoft Dynamics AX to create financial reports in Management Reporter 2012 without affecting the original data in the ERP database.

The following integration options are available for Microsoft Dynamics AX:

- **Legacy data provider for Microsoft Dynamics AX 2009** – Displays information from the Microsoft Dynamics AX database so that you can create and modify financial reports in Management Reporter.
- **Data mart integration for Microsoft Dynamics AX 2012** – Creates a data mart database of information from the Microsoft Dynamics AX 2012 database to create financial reports in Management Reporter 2012.

Note: Previous releases of Management Reporter 2012 supported a legacy data provider for Microsoft Dynamics AX 2012. The data provider is no longer supported. For more information, see KB article 2755288 (<http://go.microsoft.com/fwlink/?LinkId=265302>).

System setup

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

System prerequisites for Microsoft Dynamics AX 2009

The following components must be installed before the legacy data provider can be configured for Microsoft Dynamics AX 2009.

- **Microsoft Dynamics AX 2009 .NET Business Connector**
The Microsoft Dynamics AX 2009 .NET Business Connector must be installed on a computer where the Management Reporter application service and process services are installed.
- **Microsoft Dynamics AX 2009 Rollup 8**
The Microsoft Dynamics AX 2009 Rollup 8 must be installed on a computer where the Management Reporter application service and process services are installed.
- **Management Reporter 2012 server components**
Data providers must be configured on any computer that hosts the Management Reporter 2012 application service and process service. To configure these components, see the [Management Reporter installation guide](#).

System prerequisites for Microsoft Dynamics AX 2012

The following components must be installed before the data mart integration can be configured for Microsoft Dynamics AX 2012:

- **Management Reporter 2012 server components**
Data providers must be configured on any computer that hosts the Management Reporter 2012 application service and process service. To configure these components, see the [Management Reporter installation guide](#).
- **Microsoft Dynamics AX 2012, Microsoft Dynamics AX 2012 Feature Pack, Microsoft Dynamics AX 2012 R2, or Microsoft Dynamics AX 2012 R3**

Additional feature requirements

Some features in Management Reporter 2012 have additional requirements. Additional prerequisites are listed below. The prerequisite listed is the minimum requirement, so if Cumulative Update 7 is required, Cumulative Update 8 would be acceptable as well.

Management Reporter component	Minimum Requirement
Drill to Dynamics for the Desktop Viewer	<ul style="list-style-type: none">• Management Reporter 2012 with Cumulative Update 8• Microsoft Dynamics AX 2012 Feature Pack or Microsoft Dynamics AX 2012 R2 Note: The Microsoft Dynamics AX 2012 client must be installed on the same computer as Management Reporter 2012.
Drill to Dynamics for the Web Viewer	<ul style="list-style-type: none">• Management Reporter 2012 with Cumulative Update 8• Microsoft Dynamics AX 2012 R2 with Cumulative Update 7 Note: The Microsoft Dynamics AX 2012 client must be installed on the same computer as the Web Viewer.

Management Reporter component	Minimum Requirement
Dimension ordering	<ul style="list-style-type: none"> Management Reporter 2012 with Cumulative Update 8 Microsoft Dynamics AX 2012 R2 with Cumulative Update 7
Currency translation	<ul style="list-style-type: none"> Management Reporter 2012 with Cumulative Update 8 Microsoft Dynamics AX 2012 R2 CU6 to support adding an acquisition date per fixed asset for currency translation reporting Microsoft Dynamics AX 2012 with hotfix 282174 to define an exchange rate type and currency translation type for an account (https://mbs2.microsoft.com/Knowledgebase/KBDisplay.aspx?scid=kb;en), or Microsoft Dynamics AX 2012 CU6 Microsoft Dynamics AX 2012 R2 with hotfix 2823134 to define an exchange rate type and currency translation type for an account (https://mbs2.microsoft.com/Knowledgebase/KBDisplay.aspx?scid=kb;en), or Microsoft Dynamics AX 2012 R2 CU6
Management Reporter menu integration	<ul style="list-style-type: none"> Management Reporter 2012 Rollup 5 Microsoft Dynamics AX 2012 R2 with Cumulative Update 5 and hotfix 2840107 (https://mbs2.microsoft.com/Knowledgebase/KBDisplay.aspx?scid=kb;en), or Microsoft Dynamics AX 2012 R2 with Cumulative Update 6
Budget Control enhancements including new attributes	<ul style="list-style-type: none"> Management Reporter 2012 with Cumulative Update 14 Microsoft Dynamics AX 2012 R2 or R3 with hotfix 3091042 (https://mbs2.microsoft.com/Knowledgebase/KBDisplay.aspx?scid=kb;en)

Enable SQL Server Change Tracking

Management Reporter 2012 uses SQL Server Change Tracking to ensure that all transactions are integrated from Microsoft Dynamics AX 2012 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 AX 2012, 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 ERP Integration user account is modified to include the **View Change Tracking** permission to read the change tracking tables in Microsoft Dynamics AX 2012.

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)).

User account requirements

The user account that is used during configuration must meet the following requirements before you can configure the data integration.

Application	User requirements
Microsoft Dynamics AX 2009	<ul style="list-style-type: none">Be a user in the Administrator user group. For more information, see User permissions in Microsoft Dynamics AX 2009.
Microsoft Dynamics AX 2012	<ul style="list-style-type: none">Be assigned to the System Administrator role.Be assigned to the db_datareader in the Microsoft Dynamics AX 2012 database and model database (minimum).
Management Reporter 2012	<ul style="list-style-type: none">Be a user assigned to the Administrator role.

User permissions in Microsoft Dynamics AX 2009

User account permissions in Microsoft Dynamics AX 2009 must be set up before you can configure the data integration.

Note: All Management Reporter users must have Active Directory domain accounts for authentication. These credentials are used by the data provider to connect to Microsoft Dynamics AX 2009. 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)).

Set up user groups in Microsoft Dynamics AX 2009

User permissions in Microsoft Dynamics AX 2009 are granted by user groups. Users must be assigned to a user group in Microsoft Dynamics AX 2009 before the users can access information in the program.

1. In Microsoft Dynamics AX 2009, create a new user group with an ID of **MR** and a name of **Management Reporter**. All users for Management Reporter will be assigned to this group.

For more information, see "Create user groups" on TechNet (<http://technet.microsoft.com/en-us/library/aa548611.aspx>).

2. Assign the following permissions to the **MR** user group:

Security key	Access level
Basic	View
Business Connector	Full control
General ledger	View

3. Assign the user to the **MR** group in Microsoft Dynamics AX 2009.
4. Repeat step 3 for all appropriate users.

For more information about security permissions for user groups, see "Manage security permissions for user groups and domain combinations" on TechNet (<http://technet.microsoft.com/en-us/library/aa548611.aspx>).

Set up user permissions in Microsoft SQL Server

Management Reporter users that access data from Microsoft Dynamics AX 2009 through the data provider must also have access to the SQL Server® that hosts the Microsoft Dynamics AX 2009 database. These users must have a Windows authenticated SQL Server logon with **Select** access to certain tables where Microsoft Dynamics AX 2009 data resides.

Use the following SQL script on the Microsoft Dynamics AX 2009 database to set up the appropriate SQL permissions.

Note: In the following scripts, replace [domain\user] with the domain and user ID of the actual user.

1. Create the user role and grant appropriate permissions.

```
--create database role
CREATE ROLE [mrx_role] AUTHORIZATION [dbo]
GO
--grant select on tables
GRANT SELECT ON dbo.[LedgerTable] to [mrx_role]
GO

GRANT SELECT ON dbo.[Dimensions] to [mrx_role]
GO

GRANT SELECT ON dbo.[LedgerAccountCategory] to [mrx_role]
GO

GRANT SELECT ON dbo.[LedgerBalancesDimTrans] to [mrx_role]
GO

GRANT SELECT ON dbo.[LedgerTrans] to [mrx_role]
GO

GRANT SELECT ON dbo.[LedgerBudget] to [mrx_role]
GO

GRANT SELECT ON dbo.[LedgerCov] to [mrx_role] GO
```

2. Create a SQL Server logon for the Active Directory domain account.

```
--create a SQL SERVER login for each AX user CREATE
LOGIN [domain\user] FROM WINDOWS;
```

3. Create a SQL Server user in the Microsoft Dynamics AX 2009 database.

```
--create database user for specific login CREATE
USER [domain\user] FOR LOGIN [domain\user]
```

4. Add the SQL Server user to the **mrx_role**.

```
--add user to role
EXEC sp_addrolemember 'mrx_role', [domain\user] GO
```

5. Repeat steps 2 through 4 for all SQL Server users who need to be added to the **mrx_role**.

Note: The list of users who are members of this SQL Server role should match the list of Microsoft Dynamics AX 2009 users who are members of the Microsoft Dynamics AX 2009 **MR** user group.

User permissions in Microsoft Dynamics AX 2012

User account permissions in Microsoft Dynamics AX 2012 must be set up before you can configure the data integration. The user account that is used to set up the integration must meet the following requirements:

- Be assigned to the **Security Administrator** role in Microsoft Dynamics AX.
- Be assigned to the **db_datareader** role in the Microsoft Dynamics AX 2012 database and model database (minimum).

Note: In Cumulative Update 7 and newer, Management Reporter 2012 automatically grants database permissions to the integration user that is selected during installation.

- Be granted the **View Change Tracking** permission to read from the Change Tracking tables.

Note: All Management Reporter users must have Active Directory domain accounts for authentication. These credentials are used by the data provider to connect to Microsoft Dynamics AX 2012. 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 integrate users from Microsoft Dynamics AX, and modify security permissions for other users. For more information about user integration, see [Integrating users from Microsoft Dynamics AX 2012](#).

Installation and upgrade

The following sections provide information about how to install and upgrade Management Reporter 2012.

Note: If you are upgrading from a previous version of Management Reporter, you must create backups of your Management Reporter database before you begin the upgrade process. For more information, see the [Management Reporter installation guide](#).

Install Management Reporter 2012

For manual installation procedures, see the [Management Reporter installation guide](#).

Note: If you are integrating with Microsoft Dynamics AX 2012 R2 with Cumulative Update 7, you can install Management Reporter using the Microsoft Dynamics AX installer. For more information, see the documentation for your Microsoft Dynamics ERP (<http://go.microsoft.com/fwlink/?LinkId=325383>).

Upgrade to Management Reporter 2012 from previous versions

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 initial configuration.

Tip: To help replicate pre-upgrade settings, we recommend that you upgrade to Management Reporter 2012 before you uninstall previous versions of the application, so that you can perform a side-by-side installation. You could also take screen captures of your row definitions and column definitions before the database is upgraded.

1. Verify that the user who is performing the upgrade is assigned to the administrator role in Management Reporter.
2. Complete the upgrade procedures as explained in the [Management Reporter installation guide](#).
3. To integrate with Microsoft Dynamics AX 2012, you must update the following fields in your row definitions and column definitions:
 - Attribute filters, if used
 - Book codes

Configuration

The legacy data provider and data mart for Microsoft Dynamics AX 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.

Note: If you have installed Management Reporter using the Microsoft Dynamics AX installer, Management Reporter is configured automatically during installation and you can skip this procedure.

Configure the data integration

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

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.

Note: If you are using a legacy data provider integration, you can connect to only one instance of the Application Object Server (AOS) at a time. A data mart integration supports multiple AOS instances.

1. Click **Start**, select **Programs**, select **Microsoft Dynamics**, select **Management Reporter 2012**, and then select **Configuration Console** to open the Management Reporter configuration console.
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 AX 2009** – Configure the legacy data provider for Microsoft Dynamics AX 2009.
 - **Add Microsoft Dynamics AX 2012 Data Mart** - Configure a data mart integration for Microsoft Dynamics AX 2012 and create a data mart database.
4. Click **Next**.
5. 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.
6. Click **Next**.
7. On the **Settings** page, enter the following information for the data integration:

ERP integration	Required information
Microsoft Dynamics AX 2009 Legacy	<ul style="list-style-type: none">• AOS server – The name of the server that hosts the AOS.• Domain, user name, and password of a user account that has permissions to connect to the AOS. For more information, see User account requirements.• AOS port – The port that the Application Object Server (AOS) uses. By default, this port is 2712.• Database name – The name of the Microsoft Dynamics AX 2009 database to connect to.• Database Server – The SQL Server to connect to.

ERP integration	Required information
Microsoft Dynamics AX 2012 Data Mart	<ul style="list-style-type: none"> • AOS services port – The port that is used for Microsoft Dynamics AX system services. By default, this is 8201. • AOS server – The name of the server that hosts the AOS. • Domain, user name, and password of a user account that has permissions to connect to the AOS. For more information, see User account requirements. • AOS port – The port that the AOS uses. By default, this is 2712. • Database server (AX)– The address of the Microsoft Dynamics AX 2012 server to connect to. • Database name – The name of the Microsoft Dynamics AX 2012 database to connect to. • Database server (data mart) – 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. <p>Note: To use SQL authentication, type the user name and password, and then click Update to update credentials.</p> <ul style="list-style-type: none"> • Database – The name of the data mart database to create.

Note: To find the AOS services port, review the **AX32Serv.exe.config** file on the AOS server. By default, this file is located at (<Drive>:\Program Files\Microsoft Dynamics AX\60\Server\MicrosoftDynamicsAX\bin\AX32Serv.exe.config)

8. If you are using a data mart integration and 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>).

9. Click **Next**.
10. Review the configuration information, and then click **Configure**.
11. When a message is displayed that indicates that the legacy data provider or data mart integration has been successfully configured, click **Close**.
12. To integrate with another AOS instance, repeat steps 1 through 11. To integrate with a different ERP system, see the integration guide for that ERP system.
13. After all integrations are configured for Microsoft Dynamics AX 2009, company information must be imported. For more information, see [Adding companies](#).

Note: Companies in Microsoft Dynamics AX 2012 are integrated during configuration.

Adding companies

If you use Microsoft Dynamics AX 2012 then company information for all companies is integrated automatically.

If you are using Microsoft Dynamics AX 2009, complete the following steps to enable companies for reporting.

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 the domain, user name, and password of a user account that has permissions to connect to the AOS. 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. 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 the list of imported companies, click **Companies** under the **Management Reporter Services** node in the navigation pane.

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.

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**.
Note: If you are using a legacy provider, such as Microsoft Dynamics AX 2009, you must enter credentials. For data mart integrations, the credentials of the current user account are used.
3. Provide a user ID and password to connect to the company. These credentials must match the credentials that are stored in the Microsoft Dynamics AX database.
4. To save your credentials and not enter them each time that you connect to Microsoft Dynamics AX, select the **Save my credentials** check box.
5. Click **OK** to select the default company.
6. Click **Close**.

Integrating users from Microsoft Dynamics AX 2012

When you configure a data mart integration for Microsoft Dynamics AX 2012, user account information is automatically integrated into Management Reporter, and users are assigned roles in Management Reporter based on current security permissions in Microsoft Dynamics AX 2012.

Note: If you have more Microsoft Dynamics AX 2012 users than licenses for Management Reporter 2012, users are integrated until the license threshold is reached. No additional users will be added until more licenses are purchased and a new license key is added to Management Reporter. For more information about licensing, contact your Microsoft Partner.

User roles

User roles and company access in Management Reporter 2012 are determined by the security permissions that are set up in Microsoft Dynamics AX 2012. For example, if a user does not have access to a specific company in Microsoft Dynamics AX 2012, then the user cannot access information for that company in Management Reporter 2012.

Note: User information integrated from Microsoft Dynamics AX 2012 cannot be modified in Management Reporter 2012.

The following table explains how user roles in Microsoft Dynamics AX 2012 are transferred into Management Reporter.

AOT name	Permission	Microsoft Dynamics AX 2012 role	Management Reporter role
LedgerBalanceSheetDimMaintain	Maintain financial statement setup	Accounting manager Accounting supervisor	Designer
LedgerFinancialJournalBGenerate	Generate financial journal report	Accountant Accounting manager Accounting supervisor Chief executive officer Chief financial officer Compliance manager Financial controller	Generator
LedgerBalanceSheetDimPrintGenerate	Generate financial statement report	Accountant Accounting manager Accounting supervisor Chief executive officer Chief financial officer Compliance manager Financial controller	Generator
SysSecSecurityMaintain	Maintain security settings	Security administrator	Administrator
LedgerViewFinancialStatement (privilege)	Viewing financial statements	Not applicable	Viewer

Note: The **LedgerViewFinancialStatement** privilege for viewers must be added in Microsoft Dynamics AX 2012 and manually assigned to users.

Creating Viewers in Management Reporter

To use the Viewer role in Management Reporter, you must create the **LedgerViewFinancialStatement** privilege in Microsoft Dynamics AX 2012, and then manually assign users to the privilege.

1. In Microsoft Dynamics AX 2012, create the **LedgerViewFinancialStatement** privilege. For more information and how to create a new privilege, see "Create or modify a security role" on TechNet (<http://technet.microsoft.com/en-us/library/gg731823.aspx>).

Note: When you create the privilege, you do not need to identify any menu items or reports for the privilege.

2. Manually assign the privilege to all of the users who will be Management Reporter viewers, using one of the following options.
 - In Microsoft Dynamics AX 2012, create a new role for Management Reporter viewers, and then add the **LedgerViewFinancialStatement** privilege to the new role. Assign users to the new role.
 - Add the **LedgerViewFinancialStatement** privilege to the existing role of a user in Microsoft Dynamics AX 2012.

Note: Microsoft Dynamics AX 2012 users configured as external won't be integrated to Management Reporter

Adding or modifying a user

When a new user is added in Microsoft Dynamics AX 2012, or when information for an existing user is updated, the changes are reflected in Management Reporter 2012. User roles in Management Reporter are assigned based on the highest security permissions that a user has for companies in Microsoft Dynamics AX 2012. The user role is applied across all companies that the user has access to.

If a user has access to multiple companies in more than one AOS instance, then the Management Reporter role is assigned based on the highest security settings for that user across all of the AOS instances that are integrated.

For example, Bob Kelly has the **Generate financial journal report** permission for Company 1 in AOS 1, but he has the **Maintain financial report setup** permission in Company 2 of AOS 2. Therefore, when user information is integrated from AOS 2, Bob Kelly is assigned to the Designer role for all companies in Management Reporter across all AOS.

Note: Users who are system administrators in Microsoft Dynamics AX 2012 are not supported for integration into the data mart. In addition, some administrators in Management Reporter might be removed from that role during integration with the data mart. To integrate users with the system administrator role, you must assign those users to another role.

Deleting a user

User information cannot be deleted from Management Reporter 2012. To delete a user, you must first delete the user from Microsoft Dynamics AX 2012. The user will then be deleted from the Management Reporter database.

Note: If a user exists in multiple AOS instances, then the user must be deleted from all AOS instances before that user will be deleted in Management Reporter. User roles in Management Reporter are updated based on permissions in any remaining AOS.

Publish server connection to Management Reporter

If you are using Microsoft Dynamics AX 2012 R2, click **Publish server connection** in the configuration console to configure the connection to Management Reporter from the ERP system. This feature allows users with the appropriate security permissions to open Report Designer from the General Ledger and Budgeting areas in Microsoft Dynamics AX 2012. The menu items can connect to the application service and log on to the appropriate company in Management Reporter.

Note: The option to publish server connection information might require an update to the Microsoft Dynamics ERP system. For more information, see KB 2840107.

Appendix

The following sections provide additional information about integrating with Microsoft Dynamics AX.

Entity-backed dimensions should have the last modified date time property enabled

Entity-backed dimensions in Microsoft Dynamics AX 2012 should have the last modified date time property enabled. For more information about locating this property in Microsoft Dynamics AX 2012, see "Table Properties" on MSDN (<http://msdn.microsoft.com/en-us/library/aa871620.aspx>).

Calculating average exchange rates

If you are upgrading from Cumulative Update 7 to a later cumulative update, calculations for average exchange rates might display slightly different results. In previous versions of Management Reporter, average exchange rates for a period were calculated using the harmonic mean, while in later versions, Management Reporter uses the arithmetic mean for the calculations. For example, if you convert an amount to a different currency, and then convert it back to the originating currency, the final amount will match the original amount (if the exchange rate remains the same for the time period).

Error message displayed when customizations are made to lengths of database fields

If customizations are made in Microsoft Dynamics AX to support larger values, such as increasing the MainAccount StringSize property in the AOT from 20 characters to 100 characters, the integration might fail and following message might be displayed: "String or binary data would be truncated."

If you receive this error, contact Microsoft Support to work with the Management Reporter team for assistance.

Using Budget Planning for Microsoft Dynamics AX 2012 R2

To use Budget Planning transactions from Microsoft Dynamics AX 2012 R2 in Management Reporter, the Budget Plan Scenarios and Budget Plan Models must have unique names. If a Budget Plan Scenario uses the same name as a Budget Model, an error might be displayed in Report Designer. To avoid this issue, rename the Budget Model or use a unique name for the Budget Plan Scenario.

Management Reporter integrates Budget Plan Scenarios as book codes in Management Reporter. Individual Budget Plans are accessed using the Budget Plan Name attribute filter. To report on individual Budget Plans first select the Budget Plan Scenario in the book code and then select the appropriate attribute filter.

Only Budget Planning transactions with a non-currency amount or amount equal to the functional currency of the company will be integrated into Management Reporter.

Unposted transactions supported only for budgets in the data mart

Data mart integrations for Microsoft Dynamics AX 2012 support only budgets and budget reservations for unposted transactions. When you design a report, the provisional level of "unposted" might be displayed as an available option, but the data providers that connect the data mart to the ERP system does not support integrating of other unposted transactions.

Data mart displays only attributes associated with transactions

In previous versions of Management Reporter, data providers displayed all attribute values that were listed in the ERP database, regardless of context or functionality. This included attributes that were not associated with transaction data.

When you use a data mart integration, Management Reporter 2012 now displays only the attribute values that are associated with a transaction. This improves report creation and data analysis.

Wildcard characters are not supported in ranges

In previous versions of Management Reporter, wildcard characters could be used in ranges for Microsoft Dynamics AX integrations. In Microsoft Dynamics AX 2012, wildcard characters are interpreted differently within the account segment or dimension and they might return unexpected results. For this reason, wildcard characters are not supported data ranges in the legacy data provider and the data mart.

When integrating with Microsoft Dynamics AX 2012, we recommend that you remove wildcard characters from ranges. For example, if you used an account range of 4??? to 9???9, the account range should be updated to 4000 to 9999 (assuming numeric accounts).

Drill to Dynamics supported for Microsoft Dynamics AX 2012 reports only

You can view a report that was generated in Management Reporter and then view the source transaction in the ERP database. This feature is only supported for reports that are generated with data from Microsoft Dynamics AX 2012 from Management Reporter 2012 or newer.

If you use this feature on a report that was generated with from a previous version of Microsoft Dynamics AX, the feature might not operate correctly or might return incorrect data.

Companies with organization hierarchies cannot be deleted

If you attempt to delete a company that has been integrated from Microsoft Dynamics AX, and the company has organization hierarchies attached to it, a message will be displayed that indicates that the company cannot be deleted because building blocks are associated with it.

To delete a company with organization hierarchies, contact Microsoft Support for assistance.

Budget Models configured as part of a virtual company is not supported in Management Reporter

Using virtual companies to share budget models or budget register entries is not supported in Management Reporter. You may get incorrect results on reports if this is configured within Microsoft Dynamics AX 2012.

Changing timeout settings

If the 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 **MRSserviceHost.settings.config** file:

- To increase the timeout during integration of data into the data mart, modify the **SqlBulkCopyTimeout**, and **SqlBulkCopyBatchSize** settings.
- To adjust the timeout for running data mart based reports, you can adjust the **DataMartQuery** setting.
- To adjust the timeout because of a SQL connection timeout exception in the integration log or event log, you can adjust the **SqlConnectionTimeout** setting.
- To adjust the timeout for running reports with the Microsoft Dynamics AX 2009 Legacy reports, modify the **AXReaderTimeout** setting.

Note: The **MRSserviceHost.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 manually create these parameters manually.

For more information or additional assistance, contact Microsoft Support.

Management Reporter Server Dynamics AX Configuration Settings

Management Reporter Cumulative Update 10 affects settings that impact the Microsoft Dynamics AX user experience in Management Reporter. You can modify the following three settings for Microsoft Dynamics AX.

These settings will not be present in the case of an upgrade, but can be manually added to the MRSserviceHost.settings.config file.

- **Dimensions to Ignore** – this setting determines what dimensions the customer wants ignored during integration. Defining dimensions to ignore in the configuration file does not integrate the dimensions into the data mart as well does not include them in Report Designer for report design. If you choose to ignore a dimension after your initial integration, you will need to rebuild the data mart. Likewise, if you choose to include a dimension after the initial integration, the data mart must be recreated.

```
<add key="DimensionsToIgnore" value="" />
```

- **Attributes to Ignore** - this setting determines what attributes the customer wants ignored during integration. By default, Customer and Vendor are ignored on new installations. Adding customer and vendor as attributes enables additional report design and drill down capabilities but also will significantly increase the time it takes to integrate data to the data mart. Defining attributes to ignore in the configuration file does not integrate the attributes into the data mart as well does not include them in Report Designer for report design. If you choose to ignore an attribute after your initial integration, you will need to rebuild the data mart. Likewise, if you choose to include an attribute after the initial integration, the data mart must be recreated.

```
<add key="AttributesToIgnore" value="Customer, Vendor" />
```