Upgrade Guide

Service Pack 1
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SECTION I

Upgrade
This guide contains information about migrating to MicroStrategy Desktop. A **Project Upgrade Wizard** guides you through the process of migrating your existing projects to MicroStrategy Desktop. Even though the wizard provides an easy way to successfully upgrade your project, you must still understand the upgrade process and what the wizard does for you.

The upgrade wizard performs the basic actions of upgrading your pre-MicroStrategy 7 projects, but in most cases, does not upgrade the product or schema workarounds. Refer to the following for details on how to fully migrate these features to take full advantage of the power of MicroStrategy 7:

**After the Upgrade**

**Important:** Once you upgrade to MicroStrategy 7 there is no correlation, data mapping, or data sharing with your previous installation of the pre-7.0 products. Therefore, once you begin upgrading your project, you must be prepared to move forward. It is highly recommended that you read this entire manual before upgrading to ensure that you are prepared for the upgrade itself, and are aware of all the compatibility issues surrounding the upgrade. It is also suggested that you read, follow, and refer to all recommended readings.

This guide does not include instructions on installing MicroStrategy 7. Refer to the following for information on installing and configuring MicroStrategy 7:

**MicroStrategy 7 Installation and Configuration Guide**

Once you have completed the installation, return to this guide for upgrade instructions.
Audience and assumed knowledge

This guide is for project administrators and managers who plan on upgrading from MicroStrategy pre-7.0 products to MicroStrategy 7. It is assumed you are familiar with MicroStrategy’s pre-7.0 product suite and architecture; specifically the .DSS file, MicroStrategy Architecture, and ODBC connectivity. It is also assumed that you have installed and configured MicroStrategy Desktop and read the Getting Started guide.

New features

After migrating to MicroStrategy Desktop, you can experience first hand the many advantages of using MicroStrategy 7. These include, but are not limited to:


- **Simplified Interface**: MicroStrategy Desktop combines MicroStrategy Agent, Architect, and Administrator into a single easy to use console interface.

- **Improved Schema Support**: MicroStrategy Desktop supports enhanced time transformations, fact extensions, heterogeneous column name support, attribute forms, fact extensions, and smart joins.

- **Improved Administration**: MicroStrategy Desktop provides client and execution idling by project, improved configuration, monitoring, diagnostics, caching, database access, failover, governing, prioritization, and session management.

- **Powerful Analytical Features**: MicroStrategy Desktop provides improved analytical functions, custom groups, and enhanced prompt functionality.

- **Improved Security**: MicroStrategy Desktop provides expanded security features to include improved forms of authentication, metadata security, access control, and user management.
Upgrade process

The upgrade process involves the following steps:

1. Read and complete procedures in Getting Started and Installation and Configuration guides. These two guides provide information on properly setting up your system to handle the upgrade, and describe the key components, features, and functionality of MicroStrategy 7.

2. Review Prerequisites for upgrading - Read the Prerequisites for Upgrading chapter of this manual. This chapter outlines the following information to be aware of before upgrading your pre-7.0 projects to MicroStrategy 7:
   - system requirements
   - supported metadata versions
   - metadata compatibility issues, such as upgrading, downgrading, and execution modes
   - major feature changes between the pre-7.0 products and MicroStrategy Desktop

Use this upgrade process graphic to determine the steps you need to perform to successfully upgrade your pre-7.0 project to MicroStrategy 7.

The steps refer to the following:

1. Read and complete procedures in Getting Started and Installation and Configuration guides
2. Review Prerequisites for upgrading
3. Prepare the pre-7.0 project for upgrade
4. Upgrade projects
5. Complete post-upgrade activities
3. **Prepare the pre-7.0 project for upgrade.** The *Preparing to Upgrade* chapter contains information on how to prepare and protect your pre-7.0 project for the upgrade. This chapter instructs you on how to

- ensure you have the privileges and corresponding passwords necessary to perform the upgrade
- check to ensure you are using supported datatypes
- perform the metadata integrity check
- back-up your pre-7.0 project
- install and configure MicroStrategy Desktop
- create a metadata connection to your pre-7.0 project

4. **Upgrade projects** - The *Upgrading* chapter of this manual contains instructions on successfully upgrading your new MicroStrategy Desktop project. For a successful upgrade using the wizard, you need to complete the following:

- review the upgrade times
- review upgrade checklist
- use the upgrade wizard
  - create a MicroStrategy 7 metadata connection
  - specify the source project
  - authenticate against source project
  - pick a location for the upgraded project
  - create a destination project
  - set process options
  - set viewing options
  - set options for event logging
  - process summary

5. **Review After the Upgrade chapters** - The *After the Upgrade* chapter contains the following information:

- logging in to your newly upgraded project in MicroStrategy Desktop
- using the Report Comparison Tool
- activating users
- comparing features
- migrating users and group users
- manually upgrading features
- optimizing your upgraded project
After completing these steps, you are ready to use your newly upgraded and optimized project.

**Reference materials**

Before you begin upgrading a project, first read the following guides:

- **Getting Started**: Provides an overview of the terms and concepts for MicroStrategy 7.
- **Installation and Configuration**: Read and complete the instructions for installing and configuring MicroStrategy 7 before you upgrade a project.
This chapter provides information to help you ensure your system is ready for the upgrade to MicroStrategy Desktop.

**System requirements**

Before upgrading to MicroStrategy Desktop, verify that each machine in your configuration has the necessary operating system, hardware, and software for a successful upgrade.

These system requirements are documented in the MicroStrategy 7 Installation and Configuration guide. Refer to the following section in that guide to verify your system requirements before you begin upgrading:

*System Requirements* section of the *Installation Prerequisites* chapter

**Supported metadata versions**

The upgrade wizard supports all pre-7.0 metadata versions. Currently MicroStrategy’s Technical Support provides full service for version 5.x and later, so it is recommended that you first upgrade to at least version 5.x, and then upgrade to MicroStrategy Desktop. You can upgrade from a version earlier than 5.x, however MicroStrategy Technical Support can only assist you with problems associated with a 5.x or later version upgrade.

**Metadata compatibility**

This section lists the upgrading, downgrading, and execution modes that are and are not supported in MicroStrategy Desktop.
Upgrading

Upgrading a project using the MicroStrategy Desktop upgrade wizard using a direct ODBC connection (two-tier) is supported. Upgrading a project through a server connection is currently not supported for this release.

Downgrading

Downgrading a MicroStrategy Desktop project to any pre-7.0 product version is not supported. Once you upgrade to MicroStrategy Desktop, you cannot downgrade to an earlier product version.

Execution modes

The following table shows the functionality of the execution modes. Note the following definitions:

Read-only: The user can only view objects using the new interface. They cannot save or modify anything with this setup.

Full capabilities: The user can view, save, and modify objects with this setup. They can use all features and functionalities available in MicroStrategy Desktop.

<table>
<thead>
<tr>
<th>Execution Modes</th>
<th>MicroStrategy Desktop Functionality</th>
<th>Supported?</th>
<th>MicroStrategy Intelligence Server Administration Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Running a pre-7.0 project through MicroStrategy Desktop in 1-tier</td>
<td>Read-only</td>
<td>Yes</td>
<td>None</td>
</tr>
<tr>
<td>Running a pre-7.0 project through MicroStrategy Desktop in 2-tier</td>
<td>Read-only</td>
<td>Yes</td>
<td>None</td>
</tr>
</tbody>
</table>
## Feature compatibility

Before upgrading to MicroStrategy Desktop it is recommended that you refer to the following:

the Feature compatibility section of the After the Upgrade chapter of this manual.

Feature compatibility lists all the pre-7.0 features that have changed or are currently not supported in MicroStrategy 7.

<table>
<thead>
<tr>
<th>Execution Modes</th>
<th>MicroStrategy Desktop Functionality</th>
<th>Supported?</th>
<th>MicroStrategy Intelligence Server Administration Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Running a pre-7.0 project through MicroStrategy Server in 3-tier</td>
<td>Read-only</td>
<td>Yes</td>
<td>• Job Monitor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• User Connection Monitor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Database Connection Monitor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Database Instance Manager</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• User Manager</td>
</tr>
<tr>
<td>Running a MicroStrategy Desktop project in 2-tier</td>
<td>Full capabilities</td>
<td>Yes</td>
<td>• Database instance manager</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Schedule manager</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• User manager</td>
</tr>
<tr>
<td>Running a MicroStrategy Desktop project in 3-tier</td>
<td>Full capabilities</td>
<td>Yes</td>
<td>• Job Monitor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Project Monitor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• User Connection Monitor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Database Connection Monitor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Schedule Monitor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Cache Monitor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Cluster Monitor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Database Instance Manager</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Schedule Manager</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• User Manager</td>
</tr>
</tbody>
</table>

*Feature compatibility* 11
Preparing to Upgrade

This chapter outlines what you need to do before you begin upgrading to MicroStrategy Desktop.

Required privileges

Your first step in preparing to upgrade is to ensure you have the privileges and corresponding passwords necessary to perform the upgrade. Upgrading using a .DSS file requires you to know the System User metadata login and password, as well as the Warehouse login and password for the pre-7.0 project. You must use the System User login and password; otherwise some parts of the metadata may not be upgraded properly. If you do not know this password, you can find it in either your pre-7.0 version of MicroStrategy Architect, or in your .DSS file.

- **Pre-7.0 version of MicroStrategy Architect:** To find your System User login and password using MicroStrategy Architect, open your pre-7.0 version of MicroStrategy Architect. The System User login and password are located on the Connections tab under **System User**.

- **.DSS File:** Open the .DSS file associated with your project. The System User setting, which provides the login, is located under [System].

For the MicroStrategy 7 repository, you need a user login and password that has been granted privileges to upgrade/create projects in MicroStrategy Desktop. Any login associated with the administrator works. The default administrator login is **Administrator**. There is no password.
Prepare the pre-7.0 project

Before you begin the upgrade, you should

- check to ensure you are using supported datatypes
- validate the metadata with the metadata integrity checker in MicroStrategy Object Manager 6.0
- backup your pre-7.0 project
- install and configure MicroStrategy Intelligence Server and MicroStrategy 7 repository
- install and configure MicroStrategy Desktop
- create a metadata connection to your pre-7.0 project

Check datatypes

Before you upgrade, you must ensure that all datatypes contained in your pre-7.0 metadata are supported in MicroStrategy 7. Please refer to the following appendix for more information:

Supported datatypes

Perform metadata integrity check

The metadata integrity checker is a utility in MicroStrategy Object Manager 6.0 that scans your pre-7.0 project to detect corrupt objects. This utility fixes some of the corrupted objects, reducing the errors during the upgrade process that could occur from corrupted metadata. Any objects that do not currently work in your pre-7.0 project are not fixed with this utility. The objects that are corrupted in your pre-7.0 project are noted as corrupt in the log file, and are not updated.

Refer to MicroStrategy Object Manager 6.0 documentation for more information.

Backup your pre-7.0 project

Before you begin converting your projects to MicroStrategy Desktop, you should duplicate your project so you have a backup of your metadata and .DSS file. You should also use the backup copy of your project as the source for the upgrade. To duplicate your project, complete the following:

1. Open your pre-7.0 version of MicroStrategy Architect.
2. From the Project menu, choose Duplicate.
3. Select the project you want to duplicate.

4. **Project Location:** If you are duplicating the project into the same metadata location as the currently selected project, click **OK** and skip to step 7.

If you want to duplicate the project to a different metadata location, select the **Change Metadata from** box, which automatically indicates whether the currently selected database type is Microsoft Access or ODBC. Then select either **Microsoft Access** or **ODBC** as appropriate. For example, **Change metadata from MS Access to MS Access** would enable you to duplicate the selected project into a different Microsoft Access database.

If you want to use a metadata prefix for the destination metadata table names, select the **Destination metadata has metadata prefix** box. If the box is left unselected, no prefix is used.

Click **OK** to continue.

5. **If the destination database is Microsoft Access:** In the **Select Metadata Database** window, select a destination database (.MDB file), then click **OK**.

6. **If the destination database is ODBC:** In the **Connect to Destination Metadata** window, enter the connection information, then click **OK**.

If you checked the **Destination metadata has metadata prefix** box in step 4, the **Enter Metadata Prefix** dialog box opens and prompts you for a metadata prefix; otherwise, continue with step 7. This prefix is added to the beginning of each metadata table name (e.g. ADMIN). Restrictions on total table name length and valid characters are database-specific. Enter the desired prefix, then click **OK**.

7. Enter a name for the duplicate project in the **Duplicate Project** dialog box.

8. **Source database:** Choose one of the following:

   ◊ If the source is ODBC and that project is open in MicroStrategy Architect, or the source is Microsoft Access, skip to step 9.

   ◊ If the source is ODBC and that project is **not** currently open, you are prompted to connect to the source database.

9. The project is duplicated and a new .DSS file is created. You should use this duplicated project as the pre-7.0 project you upgrade.
Install and configure MicroStrategy Intelligence Server and the 7.0 repository

Please refer to the MicroStrategy Desktop Installation and Configuration guide for step by step instructions. After you have installed the server and repository, return to this guide for instructions and information on upgrading your projects.

Install and configure MicroStrategy Desktop

Before you can upgrade your project, you must first install and configure MicroStrategy Desktop. Please refer to the MicroStrategy Desktop Installation and Configuration guide for step by step instructions. After you have installed MicroStrategy Desktop, return to this guide for instructions and information on upgrading your projects.

Test your project in MicroStrategy Desktop

Now that MicroStrategy Desktop is installed, it is important to run your pre-7.0 project in MicroStrategy Desktop to ensure that the project works correctly in MicroStrategy Desktop even before upgrading occurs. Note that running a pre-7.0 project in MicroStrategy Desktop without first converting it only allows you to view the project. You may not use any of the MicroStrategy Desktop advanced features, or save or modify your project, until the project is upgraded.

Create a metadata connection to your pre-7.0 project

Creating a metadata connection to your pre-7.0 project allows you to view your pre-7.0 project in MicroStrategy Desktop. You need to know the location of the .DSS file for the pre-7.0 project in order to successfully create a metadata connection.

To create a pre-7.0 metadata connection, complete the following:

Steps

1. Under Tools, select Project Source Manager. The Project Source Manager dialog box opens.
2. Click Add. The Project Source Manager dialog box opens.
3. Accept the default project source name or type in a new name. It is recommended that you type a new name. This is the name that identifies your MicroStrategy Desktop metadata connection in the **Folder List** section of MicroStrategy Desktop.

4. From the **Connection Mode** drop-down list, select **6.x project**.

---

**Note:** Unless you are using 32-bit ODBC drivers with thunking to connect to your pre-7.0 project, for the upgrade to be successful, you must have 32-bit ODBC connections for the pre-7.0 project that have different data source names than the 16-bit ODBC connections created for the same pre-7.0 project.

---

5. In the **.DSS file** text box, either type the path for your .DSS file, or click the browse (...) button to search for it.

6. Click **OK**. Your new metadata connection appears in the list. Ensure the Connection mode is **6.x project**.

7. Click **OK**. Your new project appears under **Folder List**.

Now that your pre-7.0 project is visible in MicroStrategy Desktop, you need to run a few reports to verify that the project is running correctly.
Now that you have properly prepared your system for the upgrade, you are ready to use the upgrade wizard. Plan on the following estimated upgrade times based on the number of objects, and metadata size:

<table>
<thead>
<tr>
<th>Number of objects</th>
<th>Estimated Time (in minutes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>35</td>
</tr>
<tr>
<td>1500</td>
<td>55</td>
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<tr>
<td>2000</td>
<td>75</td>
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<tr>
<td>3500</td>
<td>130</td>
</tr>
<tr>
<td>4000</td>
<td>150</td>
</tr>
</tbody>
</table>

Before you begin upgrading, it is essential that you read and complete all activities in the Preparing to Upgrade chapter of this manual. It is also highly recommended that you duplicate the .DSS file and metadata before beginning the upgrade, and use the duplicated project for the upgrade. For step-by-step instructions on completing these tasks, refer to the Preparing to Upgrade chapter.
Project upgrade wizard

The distinct steps in upgrading any project to MicroStrategy Desktop, as outlined on the Welcome screen of the upgrade wizard, include:

- Select source project to upgrade
- Authenticate against source project
- Select a location for the upgraded project
- Create a destination project
- Set process options
- Set viewing options
- Set event logging options
- Review process summary

Checklist

This section lists the information you need to know to complete the upgrade wizard:

- Your ODBC DSN: the data source name used to connect to your MicroStrategy 7.0 repository
- Your RDBMS (relational database management system) login and password: must have a minimum of Insert privileges to the RDBMS to perform the metadata upgrade
- Name and location of the .DSS file for your pre-7.0 project
- System User login and password to pre-7.0 projects metadata and data warehouse repositories. If you are unsure what these are, refer to the Required privileges section of the Preparing to Upgrade chapter for more information. You are also required to answer the following questions:
  - Is your DSS user profile linked to an NT domain user/group through the User Manager in MicroStrategy 7 Server Administrator?
  - If your pre-7.0 project currently uses partitioning, do you want to keep the 6.x partitioning, or upgrade to 7.x partitioning? Refer to the 6.x MicroStrategy Architect user manual for information on 6.x partitioning, and the MicroStrategy Desktop Project Designer manual (Partitioning chapter) for 7.x partitioning information.
  - Do you want to upgrade all objects, or just your schema objects?
  - Do you want to log the errors only, or all events?
Upgrade instructions

This section provides step-by-step instructions to walk you through the upgrade process. You must complete each step for the successful upgrade of your project.

**Note:** You can cancel an upgrade at any time, but you are not able to restart the upgrade from where you left off. To cancel the upgrade, from the upgrade wizard, click *Cancel*.

---

Create a MicroStrategy Desktop metadata connection

This connection stores the metadata that is generated by the project upgrade process. Creating it now guarantees that there is a suitable destination for the upgraded project.

To create the MicroStrategy Desktop metadata connection, complete the following:

**Steps**

1. Under *Tools*, select **Project Source Manager**. The **Project Source Manager** dialog box opens.
2. Click *Add*. The **Project Source Manager** dialog box opens.
3. Accept the default project source or type in a new name. It is recommended that you type a new name. This is the name that identifies your MicroStrategy Desktop metadata connection in the **Folder List** section of MicroStrategy Desktop.
4. From the **Connection Mode** drop-down list, select *Direct*.

**Note:** Although there are three types of MicroStrategy Desktop connection modes, only those that are *Direct* can be the destination for a pre-7.0 project upgrade because project creation and upgrade are only supported in 2-tier.

5. From the **Connection** tab, select your ODBC DSN. This is the data source name used to connect to your MicroStrategy Desktop metadata.
6. Type in the RDBMS login and password for the metadata. Note that the RDBMS login must have at least insert privileges to metadata for upgrade.

7. Click OK. You should see your new metadata connection listed. Ensure the Connection Mode is Direct.

8. Click OK. Your new project appears under Folder List.

Specify the source project

Steps

1. Under the Schema menu, select Upgrade Project. The Project Upgrade Wizard displays the Welcome page.

2. Click Next. The Project Upgrade Wizard displays the Source Project Selection page.

3. Specify the pre-7.0 project. There is no advantage to identifying the file using the .DSS file over the data source (or vice versa). It is merely a matter of preference.

   ◊ If specifying by the .DSS file, click Specify a DSS File and either type the file path and name, or click Browse to find the .DSS file. Click Next. The Project Upgrade Wizard displays the Source Project Authentication page.

   ◊ If specifying by the project data source, click Specify a Project Source and use the drop-down list to select the correct data source. The DSS data source is the 6.x metadata connection you created. If you have only created one 6.x metadata connection, then that appears as the only choice. Click Next. The Project Upgrade Wizard displays the Source Project Authentication page.

Authenticate against source project

Steps

1. Enter the System User login and password for the pre-7.0 project’s metadata and data warehouse repositories. You must use the System User login and password If you are unsure what the login and password are, refer to the Required privileges section of the Preparing to Upgrade chapter for instructions on locating them. If you used the AllowAltOwner setting in the .DSS file, enter the System User login in the Alternate Owner box as well.

2. Click Next. The Project Upgrade Wizard displays the Upgrade Project Location page.
Pick a location for the upgraded project

Steps

1. Under Available Project Sources, select the MicroStrategy Desktop metadata connection (the Direct connection) you created.

2. Select the way MicroStrategy Desktop should verify the authenticity of your username. Note: You must use a login and password associated with a user that has the ability to create and upgrade projects. The default administrative login is Administrator. There is no password for this login.
   ◊ Use Windows NT authentication: Select if your MicroStrategy user profile has been linked to an NT domain user/group through the User Manager in MicroStrategy Server Administrator.
   ◊ With the login id and password provided below: Select if you do not want to use, or have not set up, a trusted login.

3. Click Next. The Project Upgrade Wizard displays the Upgrade Project Creation page.

Create destination project

Steps

1. In the Destination Project Name box, type a name to identify your upgraded project. This name is visible from the Folder List of the main window in MicroStrategy Desktop.

2. (Optional) Type a description for your upgraded project.

3. Click Next. The Project Upgrade Wizard displays the Process Options page.

Set process options

From this page you must choose where to store your partitioning information. If you wish to keep your current partitioning setup, the information continues to be stored in the warehouse. For more information on pre-7.0 partitioning, refer to your MicroStrategy Architect User Manual. For information on the version 7.x partitioning setup, refer to the Partition chapter of the MicroStrategy 7 Project Designer guide.
Steps

1. Specify what objects in your pre-7.0 project you want upgraded to your MicroStrategy Desktop project.
   ◦ **All objects**: Select to upgrade all pre-7.0 objects.
   ◦ **Schema objects only**: Select to upgrade only your project’s schema objects, which include: attributes, columns, facts, functions, hierarchies, partition mappings, system subtotals, tables, transformations, and warehouse tables. You would select this option if you want to reuse your schema, but not your whole project.

2. Specify where to store the partitioning information:
   ◦ **In the warehouse (version 6.x)**: Select to keep your current partitioning setup.
   ◦ **In the metadata (version 7.x)**: Select to update your partitioning setup so the partition information is stored in the metadata.

3. Specify what to do when a user already exists in the destination project source.
   ◦ **Add**: Select to merge the groups and privileges that an existing user has in the destination project with what that same user has on the source.
   ◦ **Keep**: Select to keep the groups and privileges of the destination project.
   ◦ **Overwrite**: Select to overwrite the state of the users groups and privileges with the ones from the source.

4. Click Next. The Project Upgrade Wizard displays the Viewing Options page.

Set viewing options

Steps

1. Select **View event log concurrently** to view the log while the upgrade occurs.

Note: If your project does not use partitioning, just accept the default. This does not affect your project, nor does it apply partitioning to your project.
2. Under **Event types**, choose one of the following:
   
   ◊ **Log errors and warnings only**: Select to write only those steps that result in errors to the log.
   
   ◊ **Log all events**: Select to write every step taken to the log, not just those that result in errors.

3. Click **Next**. The Project Upgrade Wizard displays the **Log Options** page.
Set options for event logging

Steps

1. Select from the following event logging options:

   ◊ **Event log**: Select to have information about the upgrade recorded in a text file.
   
   The information that is contained in this log is dependent upon what event type you select. Under **Event types**, choose one of the following:
   
   - **Log errors and warnings only**: Select to write only those steps that result in errors to the log.
   
   - **Log all events**: Select to write every step taken, not just those that result in errors, to the log.

   The Event log provides information on the following:
   
   - **Connection information**: such as the source project name, .DSS file, metadata version, and connection login, as well as the destination project name, DSS datasource, metadata version, and the connection login.
   
   - **Options selected**: the selections you made throughout the upgrade wizard.
   
   - **Events log**: either the errors only, or all events are listed here.

   ◊ **Corrupted objects log**: Click to have a reference list of any corrupted objects recorded in a log file.

   ◊ **Statistics log**: Click to have the upgrade statistics information recorded in a text file. This log provides you with information on the
   
   - total number of objects upgraded
   
   - number of schema objects upgraded
   
   - number of application objects upgraded
   
   - number of configuration objects upgraded
   
   - number of user objects upgraded
   
   - number of errors in copying from pre-7.0 version metadata
   
   - number of errors in saving to the new MicroStrategy Desktop metadata
   
   - time taken to upgrade
   
   - number of each type of object that was upgraded

   For each log type chosen, you can accept MicroStrategy Desktop’s default file name and path for the log file, type the file name and path on your own, or click **Browse** to navigate to an existing file.
2. Click Next. The Project Upgrade Wizard displays the Process Summary page.

**Process summary**

**Steps**

Review the summary information to ensure the information is accurate, and that you still want the options you selected. Click Back to change your options. Click Finish to start the upgrade.

**The upgrade**

Depending on what you selected in the Set Viewing Options page of the wizard, you might view the logs while the upgrade occurs. If not, it is recommended that you review the log file(s) before you use the project.

---

**Note:**

- Once the upgrade begins, you cannot pause or cancel the upgrade until the schema is loaded. This takes only a few seconds.
- Once the Upgrade controls become accessible, you can click Pause to pause the upgrade at any time. Click Start to continue the upgrade.
- You can cancel the upgrade at any point up to its completion. Click Cancel to cancel the upgrade. You must verify that you wish to cancel the upgrade. Click OK. The upgrade is canceled and the partially upgraded project is deleted.
- When the upgrade is finished, a pop-up window indicates the upgrade is complete. Click OK. Under Upgrade controls, click Exit.

---

**Troubleshooting**

For troubleshooting help, please contact MicroStrategy Technical Support.
After the Upgrade

This chapter identifies the following post-conversion tasks and feature comparisons that should be addressed after completing the upgrade wizard:

- logging in
- activating users
- comparing features
- migrating users and group users
- manually upgrading features
- optimizing your upgraded project

Login

Before you can use your upgraded project, you need to login. Immediately after upgrading, only the Administrator can log in, since all other users are disabled.

Note: All user accounts are upgraded, but the passwords do not upgrade. An Administrator must first login and activate all other users before they can login. The passwords, however, by default are blank. The users must accept the blank password and then are prompted to create a new password.

To log in, complete the following:

1. Under Folder List, click the + icon next to the project source name associated with your project. The Login dialog box opens.
2. In the Login ID box, type the metadata login. This is the same login used in your pre-7.0 projects.
3. In the Password box, type in the password for your metadata, and click OK. The project source name expands and your project is now visible.

Report Comparison Tool

The Report Comparison Tool (RCT) is a troubleshooting utility that compares the results of reports run using MicroStrategy 6.x against results of reports run using MicroStrategy 7.0. This is a quick and easy test that can aid in pinpointing problems in the software. For more information on this tool and instructions on how to use it, please refer to Appendix A: Report Comparison Tool.

Enable users

Users are not enabled upon upgrade. You must enable users via the User Manager in MicroStrategy Desktop. To do so, you must edit the cache users profile and choose Enable user account. Refer to the MicroStrategy 7 Administrator guide for more information.

.DSS file

The .DSS file no longer exists in MicroStrategy Desktop, and therefore is not upgraded with your project. MicroStrategy Desktop uses VLDB (very large database) settings that are configured at the server and report levels. Metadata and Warehouse configurations are also setup at the server level since the server now handles all database connections (with the exception of project upgrade and project creation). Many of the other .DSS file settings are obsolete since they are related to the pre-7.0 MicroStrategy Agent interface.

For a complete listing of the current VLDB settings, refer to the MicroStrategy 7 Administrator guide.

Refer to the .DSS File Settings appendix in this guide to upgrade the .DSS file database properties.

Feature compatibility

The following lists the features and functionalities by product that have changed or are not currently available.
MicroStrategy Administrator

Object Manager

Object Manager is not available with this release.

Warehouse Monitor

Warehouse Monitor is not available with this release.

Microstrategy Agent

Agents

Although MicroStrategy Desktop does not have an Agent object, it does provide functionality that is very similar to Agents and should replace much of the typical Agents usage scenarios.

MicroStrategy Desktop provides the capability to execute multiple reports at once, and schedule individual reports for execution based on both time and events without the need for Agents. The ability to save multiple reports in ‘newspaper’ format can be achieved via the new Document object in MicroStrategy Desktop. The Document object allows you to place grid and graph reports as well as custom text, graphics, and other objects into the same document for display over the Web.

Refer to the Report Designer guide for more details on Documents.

Upgrading Agents

For Agents that do not have any cache properties defined, no scheduling parameters are migrated.

For Agents that have time-based cache properties, the upgrade defines schedule properties for each report contained in that Agent. For each report in the Agent, a schedule object is defined with the command to execute the corresponding MicroStrategy 7 report. Other parameters are translated as follows:

• **Start Date**: The date on which the schedule begins.
• **Start Time**: The time that triggers the execution of the scheduled command (StartTime).
• **Update period and Update Units**: The recurrence interval for the schedule.
For Agents that have event-based cache properties, the upgrade defines schedule properties for each report contained in that Agent. For each report in the Agent, a schedule object is defined with the command to execute the corresponding MicroStrategy 7 report. Other parameters are translated as follows:

- **Delay Amount**: This parameter is ignored as there is no analogous concept in MicroStrategy 7 scheduling.
- **Delay Units**: This parameter is ignored as there is no analogous concept in MicroStrategy 7 scheduling.
- **Event**: This translates directly as the Event ID.

For Agents that are not scheduled in the pre-7.0 project, they must first be changed to a scheduled agent in order to be upgraded. The end time property of their associated trigger, however, is set to a remote past time (1/1/1900) so that the scheduling aspect is effectively disabled.

**Caching**

- Local caching of reports have been replaced by MicroStrategy 7 Intelligence Server-based caching. Report caches are stored as binary files on the Intelligence Server. Metadata and element caching exists on both the Desktop and Intelligence Server in MicroStrategy 7.
- Database server caching (RDBMS) of reports will be available in a future release.

Refer to the MicroStrategy 7 Administrator guide for more information on caching.
**Consolidations**

Consolidation functionality has been modified in the MicroStrategy 7.0 release in the following ways:

- You can import elements from other consolidations
- The Apply Order concept is now referred to as Evaluation Order
- You can drill on a consolidation to view its component elements
- All necessary analytical calculations for a Consolidation are performed by the MicroStrategy Analytical Engine
- You can define a single consolidation element from all levels of a hierarchy
- There is no restriction to the size of the definition for a Consolidation element
- Consolidation formatting properties are not supported in MicroStrategy 7
- Template consolidations are not supported in MicroStrategy 7

**Upgrading Consolidations**

Consolidation objects and definitions are upgraded by the MicroStrategy 7 Project Upgrade Wizard. All new consolidation creation functionality is available following the upgrade. Analytical engine enhancements associated with consolidations automatically take effect during report execution.

Consolidation formatting properties and metric-specific consolidations are not supported in MicroStrategy 7.0 and therefore are not upgraded.

**Database login authentication**

Direct database login authentication is only available when viewing MicroStrategy pre-7.0 projects through the MicroStrategy Desktop interface. To take advantage of this functionality you need to use the database login mapping in the Database Instance Manager. Refer to the MicroStrategy 7 Administrator guide for more information.

**Datamarting**

Datamarting will be available in the next release of MicroStrategy 7.

**Drill governing**

Drill governing is not supported in MicroStrategy Desktop 7.0.
In order to accomplish this functionality in MicroStrategy 7.0, we recommend:

• Modifying the Report Limit setting in the Data/Report Data Options menu of the Template and Report Editors prior to executing the drill-down operation in order to perform additional qualifications on the result set. The Report Limit was previously known as Metric Limit in the MicroStrategy Agent 6.0.

• Utilizing one or more Custom Groups that contain metric qualifications in a report to emulate Drill Governing functionality at different levels.

**Upgrading drill governing**

Because drill governing is not supported in MicroStrategy Desktop, any template created with this property in MicroStrategy 6.0 or a prior release is not upgraded.

**ETL integration**

Not currently supported in this version, but should be available in the next MicroStrategy 7 release.

**Exporting**

MicroStrategy Desktop 7.0 supports a majority of the pre-7.0 exporting capabilities, as well as some new functionality not previously available, such as exporting to an HTML file. Exporting properties are upgraded. In this first release of MicroStrategy 7, you cannot export to the following applications:

• Lotus 1-2-3
• WordPerfect, Ami Pro, Word Pro
• Microsoft PowerPoint
• Microsoft Outlook, Exchange, Lotus cc:Mail, Lotus Notes
• SGI Mineset
**Metric formatting at the template level**

The following formatting options are not available at the template level in this release:

- alignment
- font
- format
- back color
- stoplighting
- thresholds
- template consolidations

**Reporting modes**

**Alert mode**

Alerts defined in versions 6.x or earlier of MicroStrategy Agent are not upgraded in the initial release of MicroStrategy 7. Alerting capabilities will be available in the MicroStrategy Broadcaster Aurora release.

**Map mode**

Maps are not supported in this version. Reports containing maps, when upgraded, display as grids.

**Outline mode**

Outline mode is not supported in this version. Reports saved in outline mode in a pre-7.0 project, when upgraded, will lose their formatting.

**Report writer mode**

Report Writer mode is not supported in MicroStrategy 7. As an alternative, MicroStrategy Desktop provides a complete array of new report formatting styles within the Report and Template Editors. The new styles allow users to modify the look and feel of a report during creation and on-the-fly following report execution.

**MicroStrategy Executive**

MicroStrategy 7 supports the development of Executive Information Systems (EIS) via the Web. Specific capabilities that facilitate the implementation of Web-based EIS have been added to MicroStrategy Web 7.0 and MicroStrategy InfoCenter 7.0, including an XML-based architecture, a component-based interface, and service subscription.
The MicroStrategy 7 platform also supports the easy creation and maintenance of Documents. Documents are new in MicroStrategy 7 and allow use of MicroStrategy grids and graphs and other custom layouts within a regular HTML-based structure, enabling deployment of visually compelling reports through a Web interface. Because a Web-based architecture greatly facilitates system management and because much of the previously available Windows-based EIS functionality has been migrated to the Web products, MicroStrategy Executive is discontinued for the 7.0 release.

**MicroStrategy Intelligence Server**

**Caching**

The following server caching is not supported in this release of MicroStrategy 7:
- relational report result set cached in warehouse
- binary report result set cached on Desktop

**Report cost estimation**

Report cost estimation will be available in a future release. MicroStrategy 7 offers a cost-based priority governor setting that is similar to report cost estimation. Refer to the MicroStrategy Administrator guide for more information.

**MicroStrategy Scheduler**

Scheduling has been seamlessly integrated into the MicroStrategy Intelligence Server.

**Database polling of EVENTS table for event triggering**

There is no database polling of the EVENTS table for event triggering. Event-based scheduling is now triggered through the MicroStrategy 7 API.
MicroStrategy Web

Active X and Java applet functionality

While MicroStrategy 7 Web does not utilize Active X or Java applets, most of the functionality that was provided by it is fully supported via HTML. MicroStrategy 7 also provides many new features that were not provided in earlier versions via its lightweight HTML interface. The following Active X functionality, however, is no longer available:

• **Report Wizard (Template and Filter Editors):** Although MicroStrategy 7 does not provide Filter or Template Wizard functionality over the Web, report building functionality is still fully supported, and in many ways is much more powerful. In addition to complete filter prompting capabilities, MicroStrategy 7 provides customizable report building templates, template prompts (attributes, metrics), the ability to define limits on prompt selections, default answers for prompts and superprompt-type functionality (incremental fetching of long lists, wild-card searching).

• **Outline mode:** Although Outline mode is not a standard option in the report display mode, it is possible to customize an Outline mode report auto style. Upgrading a report with outline mode is not supported. Your reports that are saved in outline mode in a pre-7.0 project, when upgraded, will not keep the outline mode.

• **Graph formatting properties:** MicroStrategy Web provides end users with the ability to choose the graph type and sub type as well as full Web printing capabilities. Other graph formatting properties can be set in MicroStrategy Desktop.

• **Toggle totals:** Totaling properties may be set in MicroStrategy Desktop.

Alerts

Alerts will be available in the MicroStrategy Broadcaster Aurora release. They are not supported in this version.

Caching

Database server caching (RDBMS) of reports will be available in a future release. Refer to the MicroStrategy 7 Administrator guide for more information on caching.
**Database login authentication**

Direct database login authentication is only available when viewing MicroStrategy pre-7.0 projects through the MicroStrategy Desktop interface. To take advantage of this functionality use the database login mapping in the Database Instance Manager. Refer to the MicroStrategy 7 Administrator guide for more information.

**Excel workbooks**

Although Excel Workbook functionality is not supported in MicroStrategy Web, it is possible to customize report output using MicroStrategy Web XML API.

**Saving**

Filter definitions can be saved with reports in this version of MicroStrategy 7.

**Surfing**

Surfing is not supported for this release.

**User and group user migration**

The MicroStrategy Desktop security architecture is greatly enhanced to provide administration at all levels: user, group, object, functionality, and data. Although it does include all of the basic security features of the pre-7.0 product line, the architecture itself is different. This section explains how pre-7.0 applications appear in MicroStrategy Desktop and how they are upgraded with respect to security.

You should review the security portion of the MicroStrategy 7 Administrator guide in order to fully understand how the MicroStrategy Desktop security architecture works prior to reading this section. This section only explains the upgrading aspects of security and not the architecture itself.

**MicroStrategy Desktop: Public Objects folder**

This folder contains all the objects that are considered Designer objects and that do not impact the actual definition of the project or how the MicroStrategy Engine decides to generate SQL.
For upgraded projects, all System User (default: MicroStrategy ADMIN) and any group user Agent objects are placed in the Public Objects folder within the appropriate object type subfolder. Any objects in the Public Objects folder are the equivalent to those that were in bold in the pre-7.0 interface.

Public Objects:
- Base Formulas
- Consolidations
- Custom Groups
- Filters
- Filters subfolders
- Metrics
- Metrics subfolders
- Prompts
- Reports
- Reports subfolders
- Searches
- Templates
- Templates subfolders

**Note:** The Custom Groups, Prompts, and Searches folder do not have objects in them following an upgrade because these features did not exist in the pre-7.0 product.

**Permissions**

For an upgraded project, the following permissions are granted to the Public Objects folder. These permissions are synonymous with their pre-7.0 implementation. “Full Control” consists of Read, Browse, Use/Execute, Delete and Write Access.

- **Everyone** is granted Read, Browse and Use/Execute access.
- **System User** (default: DSSADMIN) is granted Full Control.
- **Administrator** is granted Full Control.

For a new project, the following permissions are granted:

- **Everyone** is granted Read, Browse and Use/Execute access.
- **Administrator** is granted Full Control.
Agent object folders and objects

For each object type that is supported, a new folder is created beneath the Public Objects folder. Each one of these subfolders initially contains only the object types to which they refer.

For an upgraded project, the following permissions are granted to the object folders and objects:

- **Everyone** is granted Read, Browse and Use/Execute access.
- **System User** (default: DSSADMIN) is granted Full Control.
- **Administrator** is granted Full Control.

For a new project, the following permissions are granted:

- **Everyone** is granted Read, Browse and Use/Execute access.
- **Administrator** is granted Full Control.

MicroStrategy Desktop: My Personal Objects folder

This folder contains all individual user objects including reports, report objects (such as metrics, templates, filters, and so on), favorites, and answers (for prompts). The My Objects subfolder within the My Personal Objects folder is identical in structure to the Public Objects folder with the exception of the reports.

For upgraded projects, all user objects are placed in the My Personal Objects folder within the appropriate object type subfolder unless the user is the System User or a Group User. User reports are located in the My Reports subfolder while report objects (templates, filters, and so on) are placed within the My Objects subfolder in accordance with their object type. All objects upgraded within the My Personal Objects hierarchy are equivalent to those that were non-bold in the pre-7.0 interface.

For the System User or a Group User, the My Personal Objects folder is created but not populated during the upgrade. Since their objects are publicly available in pre-7.0, they are relocated to the Public Objects folder in MicroStrategy Desktop.

**Note:** Subfolders within the My Reports and My Objects folders are only created during the upgrade if you created objects of that specific type. For example, if you created several templates and no filters in the pre-7.0 product, a Filters subfolder is not created under the My Objects folder.
My Personal Objects:
  • My Reports
  • My Favorites
  • My Answers
  • My Objects
    ◊ Base Formulas
    ◊ Consolidations
    ◊ Filters
      – Filters subfolders
    ◊ Metrics
      – Metrics subfolders
    ◊ Templates
      – Templates subfolders

Permissions

For an upgraded project, each user that is neither the System User nor a Group User is granted the following permissions to the My Personal Objects folder and all its subfolders (My Reports, My Favorites, My Answers, My Objects, and so on):

• User is granted Full Control.
• Administrator is granted Full Control.

For an upgraded project only (since the pre-7.0 System User is non-existent in a new project), the System User is granted the following permissions to the My Personal Objects folders and subfolders:

• Everyone is granted Read, Browse and Use/Execute access.
• System User is granted Full Control.
• Administrator is granted Full Control.

For an upgraded project only (since the pre-7.0 Group Users are non-existent in a new project), a Group User is granted the following permissions to the My Personal Objects folder and subfolders:

• Group is granted Read, Browse and Use/Execute access.
• User (such as Group User) is granted Full Control.
• Administrator is granted Full Control.
For a new project, all users are granted the following permissions to the My Personal Objects folder and subfolders:

- **User** is granted Full Control.
- **Administrator** is granted Full Control.

**Report Objects within the My Personal Objects\My Objects folder**

For each type of user report object that existed in the pre-7.0 product, a new folder (Templates, Filters, Metrics, and so on) is created beneath the My Personal Objects\My Objects folder during the upgrade. Each one of these folders initially contains only the object types to which they refer.

For an upgraded project, each user is granted the following permissions to these objects:

**User** is granted Full Control.

---

**Note:** The System User and Group Users do not have any report objects in their My Objects folder because their objects are upgraded to the Public Objects folder.

---

**MicroStrategy Desktop: Schema Objects folder**

The Schema Objects folder contains all schema and project definition objects that impact how the MicroStrategy Engine decides to generate SQL.

For upgraded projects, all application objects created in the pre-7.0 MicroStrategy Architect (such as attributes, facts, hierarchies, transformations, partition mappings, and tables) are placed in the Schema Objects folder within the appropriate object type folder.
Schema Objects:
- Attributes
- Facts
- Functions (all pre-7.0 and new MicroStrategy Desktop functions)
- Hierarchies
- Data Explorer (equivalent to pre-7.0 Components window for Dimensions)
- Partition Mappings
- Subtotals (new subtotaling functions in MicroStrategy Desktop—average, count, standard deviation, and so on)
- Tables
- Transformations (enhanced equivalent to pre-7.0 Transformation attribute)

Schema Objects (hidden):
- Attribute Forms
- Columns
- Fact Groups
- Partition Filters
- System Hierarchy
- Transformation attributes (replaced by Transformations in MicroStrategy Desktop)
- Warehouse Catalog
- Warehouse Tables
- Schema

Permissions

For an upgraded project, the following permissions are granted to the Schema Objects folder (“Full Control” includes Read, Browse, Use/Execute, Delete, and Write access):

- Everyone is granted Read, Browse and Use/Execute access.
- System User (default: DSSADMIN) is granted Full Control.
- Administrator is granted Full Control.

For a new project, the following permissions are granted:

- Everyone is granted Read, Browse and Use/Execute access.
- Administrator is granted Full Control.
**Architect Objects Folders and Objects**

For each object type that is supported, a new folder is created beneath the Schema Objects folder. Each one of these folders initially contain only the object types to which they refer.

For an upgraded project, the following permissions are granted to these folders and objects:

- **Everyone** is granted Read, Browse, and Use/Execute access.
- **System User** (default: DSSADMIN) is granted Full Control.
- **Administrator** is granted Full Control.

For a new project, the following permissions are granted:

- **Everyone** is granted Read, Browse, and Use/Execute access.
- **Administrator** is granted Full Control.

**Data Explorer**

The Data Explorer folder is created under Hierarchies to provide the hierarchy groupings used in element browsing, like the Components window in the pre-7.0 product.

For an upgraded project, the following permissions are granted to this folder and the hierarchy subfolders underneath.

- **Everyone** is granted Read, Browse, and Use/Execute access.
- **System User** (default: DSSADMIN) is granted Full Control.
- **Administrator** is granted Full Control.

For a new project, the following permissions are granted

- **Everyone** is granted Read, Browse, Use/Execute Access.
- **Administrator** is granted Full Control.

**Manually upgrading features**

This section lists features that you might have used in the pre-7.0 products that are not automatically upgraded by the Upgrade Wizard, and explains what needs to be done to manually upgrade them.

**Non-uniform fact calculations**

In order to take advantage of non-uniform fact calculations per level in MicroStrategy Desktop, complete the following:
1. Identify all metrics that represent the same calculation but in pre-7.0 versions required multiple metrics in order to do so. There may be multiple sets of calculations.

2. Review the definitions of each metric in each set of similar calculations.

3. Select the most frequently used metric of each set and add the metric formulas of its similar metrics into its definition. Refer to the MicroStrategy 7 Project Designer guide for step-by-step instructions on creating a fact expression.

4. Test a report that contains your enhanced metric by drilling to levels it would previously not support. You can also test it by adding other attributes to the report.

5. If the results of your test are consistent with the pre-7.0 versions behavior using multiple metrics with different definitions, then you may want to replace or eliminate all reports that use the other metrics.

**Optimizing your upgraded project**

This section provides a high-level overview of some of the many features and functionalities that you can take advantage of to optimize your project in MicroStrategy Desktop.

**Attribute forms**

Attribute forms are a new schema feature that allow the project designer to define multiple description columns or expressions to one attribute. Refer to the MicroStrategy 7 Project Designer guide for more detailed information.

**Candidates**

The following are candidates for attribute forms:

- attributes that are not qualified on and/or grouped by on a report
- attributes that only exist in one table (typically a fact table) and do not belong to any parent or child attributes

To find these candidates:

1. Search for attributes that are not used in any filters. Typically if the attribute is not qualified on directly, it is not used in the group by clause on the reports.
2. Search for all reports or templates that use these attributes.
3. Determine if the attributes are grouped by in these reports.
   ◊ If they are grouped by, do not change the attribute into a form.
   ◊ If they are not grouped by, and it will never be necessary to perform
     a group by on the attribute, it may be changed into a form.

Migrating to attribute forms

To migrate an attribute candidate into a form
1. Determine the attribute child of the candidate or the attribute the
   candidate relates to directly.
2. Add the candidate as a form of that attribute through the Attribute
   Editor. See the MicroStrategy 7 Project Designer guide for more details.
3. Save your enhanced attribute.
4. Apply the enhanced attribute containing the form to a report along
   with the previous form attribute.
5. Compare the results of the data between the form and previous
   attribute.
6. Remove the contents of the original attribute from all reports and
   replace it with the new form of the enhanced attribute.

Level extensions

If metrics are not available at all levels in warehouse, using MicroStrategy
Desktop you can reduce the dimensionality of facts (in other words, lower
the level at which they can be calculated) by using a dimensional
extension. To do so, complete the following:

Note: These instructions are presented at a high-level for information
purposes only. For detailed instructions and more information on
dimensional extensions, please refer to the MicroStrategy 7 Project
Designer guide.
1. Find metrics that cause the problem you want to solve.
2. Find the facts that these metrics use.
3. Extend the dimensionality of the fact to the proper level in the Fact
   Editor.
4. Create a valid expression for the fact at the level you are extending it
to. For example, if data for my fact <<DOLLAR_SALES>> is available at
   the monthly level only and you want to view it on a report with other daily
   level metrics, you might want to calculate it as
   (<<DOLLAR_SALES>>/30) any time at the daily level.
The topics in this section include:

- MicroStrategy Desktop reserved characters
- MicroStrategy Desktop limits
- .DSS file settings in MicroStrategy Desktop
- Supported datatypes
The following is a complete list of reserved characters that cannot be used when naming objects in MicroStrategy Desktop. Note: Unlike the pre-7.0 products, there are no reserved words.

**Reserved characters**

You cannot save any object that includes any of the following reserved characters in its object name:
- Square brackets ([ and ])
- Double quote (" and ")
- Backslash (\)

Note that MicroStrategy Desktop does not have any reserved words or characters with respect to object definitions or formulas. This pertains to all editors where a custom SQL expression may be made (such as metric, filter, attribute) for submission to the data warehouse. Any expression that cannot be validated by the MicroStrategy Desktop parser in these editors may be passed through to the database using one of the Apply functions.
The following is a list of the MicroStrategy Desktop features that have limits associated with them. Their pre-7.0 limit is provided as a comparison.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Pre-7.0 Limit</th>
<th>MicroStrategy Desktop Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum length of an object* name</td>
<td>255</td>
<td>255</td>
</tr>
<tr>
<td>Maximum length of an object* description</td>
<td>255</td>
<td>255</td>
</tr>
<tr>
<td>Maximum length of an object* definition</td>
<td>Varies by object</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Maximum number of objects* per project</td>
<td>Varies by object</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Maximum number of report rows after cross-tabbing</td>
<td>16,384</td>
<td>16,384**</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This is the number of viewable rows in the report after cross-tabbing only, not the number that are held in the report cache. Placing an attribute(s) in the page-by menu typically allows you to page through everything in the report cache without hitting the row limit.</td>
</tr>
<tr>
<td>Maximum number of report columns after cross-tabbing</td>
<td>255</td>
<td>255**</td>
</tr>
<tr>
<td>Maximum number of elements per attribute displayed while element browsing</td>
<td>4,500</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Maximum number of elements per attribute displayed while element browsing in the filter editor</td>
<td>3,000</td>
<td>Unlimited</td>
</tr>
</tbody>
</table>
MicroStrategy Desktop objects include:
- folders
- metrics
- filters
- consolidations
- custom groups
- templates
- reports
- documents
- prompts
- attributes
- facts
- hierarchies
- transformations
- partitions
- database instances
- security roles
- schedules
- users
- groups (of users)

** The 16,384 x 255 grid limit is a restriction of the grid control used by MicroStrategy.
This appendix lists how the pre-7.0 .DSS file database settings are upgraded, and where they are located in the MicroStrategy Desktop architecture.

Note: The .DSS file settings have been replaced, for the most part, by VLDB Properties. You are strongly urged to read the VLDB Properties appendix of the MicroStrategy Administrator guide for a list and explanation of all the new settings.

Please note that you can access the VLDB Properties dialog box in any of the following ways:

<table>
<thead>
<tr>
<th>Access from</th>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database Instances</td>
<td>From the Administration hierarchy choose Database Instance Manager. Right-click on Warehouse or Server Metadata and choose VLDB Properties.</td>
</tr>
<tr>
<td>Metric Editor</td>
<td>From the Metric Editor Tools menu, point to Advanced Settings, then select VLDB Properties.</td>
</tr>
<tr>
<td>Report Editor</td>
<td>From the Report Editor Data menu, choose VLDB Properties.</td>
</tr>
<tr>
<td>Template Editor</td>
<td>From the Template Editor Data menu, choose VLDB Properties.</td>
</tr>
<tr>
<td>[Section]/Previous Setting/Subsetting</td>
<td>MicroStrategy Desktop VLDB Properties Location</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>[Databases]</td>
<td></td>
</tr>
<tr>
<td>3TLimitStarOnly</td>
<td>This setting is obsolete</td>
</tr>
<tr>
<td>AllowAltOwner</td>
<td>Login dialog box. (This setting is only available when connecting to a pre-7.0 project)</td>
</tr>
<tr>
<td>AlterTableSQL</td>
<td>This setting is obsolete</td>
</tr>
<tr>
<td>ArithmeticCheck</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>VLDB Settings/Metrics</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>VLDB Settings/Metrics</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>VLDB Settings/Metrics</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>VLDB Settings/Metrics</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>VLDB Settings/Metrics</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>VLDB Settings/Metrics</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>VLDB Settings/Metrics</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>VLDB Settings/Metrics</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>[Section]/Previous Setting/Subsetting</td>
<td>VLDB Properties Location</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>Null Check, Zero Check (2 settings)</td>
<td>VLDB Settings\Metrics</td>
</tr>
<tr>
<td>This setting is obsolete</td>
<td></td>
</tr>
<tr>
<td>CannotUseUpdate</td>
<td>This setting is obsolete</td>
</tr>
<tr>
<td>CheckForCircularReference</td>
<td>This setting is obsolete</td>
</tr>
<tr>
<td>ConcatLength</td>
<td>This setting is obsolete</td>
</tr>
<tr>
<td>ConvertLength</td>
<td>This setting is obsolete</td>
</tr>
<tr>
<td>ConvertNonMetricsToText</td>
<td>This setting is obsolete</td>
</tr>
<tr>
<td>Intermediate Table Type 0=Permanent Table 4=Temporary View</td>
<td>VLDB Settings\Tables</td>
</tr>
<tr>
<td>DataMiningFilter</td>
<td>This setting is obsolete</td>
</tr>
<tr>
<td>Base Table Join for Template 0=Temp Table Join 1=Fact Table Join</td>
<td>VLDB Settings\Joins</td>
</tr>
<tr>
<td>Date Format</td>
<td>VLDB Settings\Select/Insert</td>
</tr>
<tr>
<td>DBCS</td>
<td>This setting is obsolete</td>
</tr>
<tr>
<td>DeleteTempTablePrompt</td>
<td>This setting is obsolete</td>
</tr>
<tr>
<td>Primary database instance Check box not selected</td>
<td>Administration\Database Instance Manager\Database Instances\RMC-Edit\Advanced tab\Database gateway support</td>
</tr>
</tbody>
</table>
## Appendix C .DSS File Settings in MicroStrategy Desktop

<table>
<thead>
<tr>
<th>[Section]/Previous Setting/Subsetting</th>
<th>MicroStrategy Desktop VLDB Properties Location</th>
<th>MicroStrategy Desktop Setting</th>
<th>MicroStrategy Desktop Subsetting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Administration\Database Instance Manager\Database Instances\RMC-Edit\Advanced tab\Database gateway support</td>
<td>Primary database instance</td>
<td>Check box selected and primary database instance chosen</td>
</tr>
<tr>
<td></td>
<td>Driving Table</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>VLDB Settings\Query Optimizations</td>
<td>WHERE Clause Driving Table</td>
<td>0=Use Lookup Table</td>
</tr>
<tr>
<td>1</td>
<td>VLDB Settings\Query Optimizations</td>
<td>WHERE Clause Driving Table</td>
<td>1=Use Fact Table</td>
</tr>
<tr>
<td>n</td>
<td>This setting is not upgraded</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DropTempTableLater</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-1</td>
<td>VLDB Settings\Tables</td>
<td>Drop Temp Table Method</td>
<td>0=Drop after final pass</td>
</tr>
<tr>
<td>0</td>
<td>VLDB Settings\Tables</td>
<td>Drop Temp Table Method</td>
<td>0=Drop after final pass</td>
</tr>
<tr>
<td>1</td>
<td>VLDB Settings\Tables</td>
<td>Drop Temp Table Method</td>
<td>0=Drop after final pass</td>
</tr>
<tr>
<td>2</td>
<td>VLDB Settings\Tables</td>
<td>Drop Temp Table Method</td>
<td>1=Do not drop</td>
</tr>
<tr>
<td>3</td>
<td>VLDB Settings\Tables</td>
<td>Drop Temp Table Method</td>
<td>1=Do not drop</td>
</tr>
<tr>
<td>DSSAgent</td>
<td>Administration\Database Instance Manager\Database Instances\General tab</td>
<td>Database connection (default)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>DSSAgentSessionSQLxx</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSSAgentType</td>
<td>Administration\Database Instance Manager\Database Instances\General tab</td>
<td>Database connection type</td>
<td>The following database connection types are supported:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• IBM DB2 UDB 5.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Microsoft Access 7.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Microsoft SQL Server 7.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Oracle 7.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Oracle 8.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Oracle 8i</td>
</tr>
<tr>
<td>DummyInsertTableName</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[Section]/Previous Setting/Subsetting</td>
<td>MicroStrategy Desktop VLDB Properties Location</td>
<td>MicroStrategy Desktop Setting</td>
<td>MicroStrategy Desktop Subsetting</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>-----------------------------------------------</td>
<td>--------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>ExtraColumnMode</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FilteredTransformation</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GroupByDesc</td>
<td>VLDB Settings\Select/Insert</td>
<td>GROUP BY Non-ID Attribute</td>
<td>0=Use MAX()</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GROUP BY Non-ID Attribute</td>
<td>1=Put in GROUP BY</td>
</tr>
<tr>
<td>InsertStringLength</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IssueCartesianWarning</td>
<td>VLDB Settings\Joins</td>
<td>Cartesian Join Warning</td>
<td>0=Execute without warning</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cartesian Join Warning</td>
<td>1=Cancel execution</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cartesian Join Warning</td>
<td>2=Cancel execution</td>
</tr>
<tr>
<td>IssueMaxTablesWarning</td>
<td>VLDB Settings\Joins</td>
<td>Max Tables in Join Warning</td>
<td>0=Execute without warning</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Max Tables in Join Warning</td>
<td>1=Cancel execution</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Max Tables in Join Warning</td>
<td>2=Cancel execution</td>
</tr>
<tr>
<td>LocalAgentData</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LocalAgentDataType</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LookupTables</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LookupTablesType</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ManualCommit</td>
<td>VLDB Settings\Tables</td>
<td>Commit Level</td>
<td>0=No COMMIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Commit Level</td>
<td>3=Post DDL and DML</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Commit Level</td>
<td>2=Post DML</td>
</tr>
<tr>
<td>MaxTablesInJoin</td>
<td>VLDB Settings\Joins</td>
<td>Max Tables in Join</td>
<td>user-defined</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Max Tables in Join</td>
<td>user-defined</td>
</tr>
<tr>
<td>[Section]/Previous Setting/Subsetting</td>
<td>MicroStrategy Desktop VLDB Properties Location</td>
<td>MicroStrategy Desktop Setting</td>
<td>MicroStrategy Desktop Subsetting</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-------------------------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>MetricJoinType</td>
<td>Metric Editor Tools menu/Metric Join Type</td>
<td>Metric Join Type</td>
<td>0=Equi-Join</td>
</tr>
<tr>
<td>0</td>
<td>Metric Editor Tools menu/Metric Join Type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Metric Editor Tools menu/Metric Join Type</td>
<td></td>
<td>1=Outer Join</td>
</tr>
<tr>
<td>MultipleInsertInto</td>
<td>VLDB Settings/Select/Insert</td>
<td>Bulk Insert String</td>
<td>user-defined</td>
</tr>
<tr>
<td>0</td>
<td>VLDB Settings/Select/Insert</td>
<td>Bulk Insert String</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>VLDB Settings/Select/Insert</td>
<td>Bulk Insert String</td>
<td></td>
</tr>
<tr>
<td>NoAggAbsIn</td>
<td>VLDB Settings/Metrics</td>
<td>Absolute Non-Agg Metric Query Type</td>
<td>1=Use temp table</td>
</tr>
<tr>
<td>0</td>
<td>VLDB Settings/Metrics</td>
<td>Absolute Non-Agg Metric Query Type</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>VLDB Settings/Metrics</td>
<td>Absolute Non-Agg Metric Query Type</td>
<td>0=Use subquery</td>
</tr>
<tr>
<td>NoCountCompound</td>
<td>VLDB Settings/Metrics</td>
<td>COUNT Compound Attribute</td>
<td>0=COUNT(expression) enabled</td>
</tr>
<tr>
<td>0</td>
<td>VLDB Settings/Metrics</td>
<td>COUNT Compound Attribute</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>VLDB Settings/Metrics</td>
<td>COUNT Compound Attribute</td>
<td>1 (If pre-7.0 DBType in (0,3,7))</td>
</tr>
<tr>
<td>NoDistinctInSelect</td>
<td>VLDB Settings/Query Optimizations</td>
<td>SELECT DISTINCT at Same Level</td>
<td>0=Use DISTINCT</td>
</tr>
<tr>
<td>0</td>
<td>VLDB Settings/Query Optimizations</td>
<td>SELECT DISTINCT at Same Level</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>VLDB Settings/Query Optimizations</td>
<td>SELECT DISTINCT at Same Level</td>
<td>0=Use DISTINCT</td>
</tr>
<tr>
<td>2</td>
<td>VLDB Settings/Query Optimizations</td>
<td>SELECT DISTINCT at Same Level</td>
<td>0=Use DISTINCT</td>
</tr>
<tr>
<td>3</td>
<td>VLDB Settings/Query Optimizations</td>
<td>SELECT DISTINCT at Same Level</td>
<td>1=Do not use DISTINCT</td>
</tr>
<tr>
<td>NoTabNewLine</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NullFunction</td>
<td>This setting is obsolete</td>
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<td></td>
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<tr>
<td>NullIndicator</td>
<td>NULL</td>
<td>Null Display</td>
<td>user-defined</td>
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<tr>
<td>ODBCAsyncLevel</td>
<td>VLDB Settings/Metrics</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Appendix C .DSS File Settings in MicroStrategy Desktop**
<table>
<thead>
<tr>
<th>[Section]/Previous Setting/Subsetting</th>
<th>MicroStrategy Desktop VLDB Properties Location</th>
<th>MicroStrategy Desktop Setting</th>
<th>MicroStrategy Desktop Subsetting</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Administration\Database Instance Manager\Database Instances\Database Connections\Advanced tab</td>
<td>Driver execution mode</td>
<td>Synchronous</td>
</tr>
<tr>
<td>1</td>
<td>Administration\Database Instance Manager\Database Instances\Database Connections\Advanced tab</td>
<td>Driver execution mode</td>
<td>Asynchronous Connection</td>
</tr>
<tr>
<td>2</td>
<td>Administration\Database Instance Manager\Database Instances\Database Connections\Advanced tab</td>
<td>Driver execution mode</td>
<td>Asynchronous Statement</td>
</tr>
<tr>
<td>ODBCWorkAround</td>
<td>This setting is obsolete</td>
<td></td>
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</tr>
<tr>
<td>OuterJoin92</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RankIgnoreNulls</td>
<td>This setting is obsolete</td>
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<td></td>
</tr>
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<td>RankPrecision</td>
<td>This setting is obsolete</td>
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</tr>
<tr>
<td>ReplaceDateSeparator</td>
<td>This setting is obsolete</td>
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<td></td>
</tr>
<tr>
<td>ReportEndSQL</td>
<td>NULL</td>
<td>Report PostStatement</td>
<td>user-defined</td>
</tr>
<tr>
<td>ReportSQL</td>
<td>VLDB Settings\Pre/Post Statements</td>
<td>Report PreStatement</td>
<td>user-defined</td>
</tr>
<tr>
<td>SelectOptions</td>
<td>VLDB Settings\Select/Insert</td>
<td>SELECT PostString</td>
<td>user-defined</td>
</tr>
<tr>
<td>SeparateCounts</td>
<td>0</td>
<td>Separate COUNT DISTINCTs</td>
<td>0=Use same pass</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Separate COUNT DISTINCTs</td>
<td>1=Use different pass</td>
</tr>
<tr>
<td>ServerDataMart</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SQLRowLimit</td>
<td>VLDB Settings\Governing</td>
<td>Result Set Row Limit</td>
<td>0=Returns all rows n=user defined</td>
</tr>
<tr>
<td>StarJoin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[Section]/Previous Setting/Subsetting</td>
<td>MicroStrategy Desktop VLDB Properties Location</td>
<td>MicroStrategy Desktop Setting</td>
<td>MicroStrategy Desktop Subsetting</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-----------------------------------------------</td>
<td>------------------------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>0</td>
<td>VLDB Settings\Joins</td>
<td>DSS Star Join</td>
<td>0=No star join</td>
</tr>
<tr>
<td>1</td>
<td>VLDB Settings\Joins</td>
<td>DSS Star Join</td>
<td>1=Partial star join</td>
</tr>
<tr>
<td>2</td>
<td>VLDB Settings\Joins</td>
<td>DSS Star Join</td>
<td>1=Partial star join</td>
</tr>
<tr>
<td>SubQueryType</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 1                                  | VLDB Settings\Query Optimizations            | Sub Query Type               | 0=Where exists (Select "..."
| 10                                 | VLDB Settings\Query Optimizations            | Sub Query Type               | 1= Where exists (Select col1, col2...)
| 2                                  | VLDB Settings\Query Optimizations            | Sub Query Type               | 3=Where (col1, col2) IN (Select s1.col1, s1.col2...)
| 20                                 | VLDB Settings\Query Optimizations            | Sub Query Type               | 2=Where col1 IN (Select s1.col1...)
<p>| 4                                  | VLDB Settings\Query Optimizations            | Sub Query Type               | 4= Use temp table               |
| TableDescriptor*                   | VLDB Settings\Tables                         | Table Descriptor             | user-defined                     |
| * This setting is not upgraded**   |                                               |                              |                                 |
| TableInsertMode                    |                                              |                              |                                 |
| 0                                  | VLDB Settings\Tables                         | UNION Multiple INSERTs      | default depending on platform chosen |
| 1                                  | VLDB Settings\Tables                         | UNION Multiple INSERTs      | 0=Do not use Union              |
| 2                                  | VLDB Settings\Tables                         | UNION Multiple INSERTs      | 1=Use Union                     |
| TableNameCompressionMode           | This setting is obsolete                      |                              |                                 |
| TableQualifier*                    | VLDB Settings\Tables                         | Table Qualifier             | user-defined                     |
| * This setting is not upgraded**   |                                               |                              |                                 |
| TableQualifierFlags                | This setting is obsolete                      |                              |                                 |
| TableStatement                     | NULL                                          | Table PostStatement         | user-defined                     |
| TableNameAnalyse                   | This setting is obsolete                      |                              |                                 |
| TableNameOption*                   | VLDB Settings\Tables                         | Table Option                 | user-defined                     |
| <em>This setting is not upgraded</em>*    |                                               |                              |                                 |</p>
<table>
<thead>
<tr>
<th>[Section]/Previous Setting/Subsetting</th>
<th>MicroStrategy Desktop VLDB Properties Location</th>
<th>MicroStrategy Desktop Setting</th>
<th>MicroStrategy Desktop Subsetting</th>
</tr>
</thead>
<tbody>
<tr>
<td>TempTablePrefix*</td>
<td>Administration\Database Instance Manager\Database Instances\General Tab</td>
<td>Table Name Prefix</td>
<td>user-defined</td>
</tr>
<tr>
<td>TempTablePrimaryKey</td>
<td>VLDB Settings\Indexing</td>
<td>Intermediate Table Index</td>
<td>0=Do not create Primary Key/Index</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1=Create Primary Key/Index after table creation. Warehouse type IN (5,7,8,10,17)</td>
</tr>
<tr>
<td>TempTableSpace*</td>
<td>Administration\Database Instance Manager\Database Instances\Advanced tab</td>
<td>Table Space Name</td>
<td>user-defined</td>
</tr>
<tr>
<td>TempTableType*</td>
<td>VLDB Settings\Tables</td>
<td>Intermediate Table Type</td>
<td>0=Permanent table</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1=Derived table</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>2=Common table expression</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3=True temporary table</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4=Temporary view</td>
</tr>
<tr>
<td>TryReconnectODBC</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TTAtributeOrdering</td>
<td>This setting is not upgraded. The following series of new settings replace this: Attribute Weights, Max Cols in Index, and Intermediate Table Index.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TTDimensionOrdering</td>
<td>This setting is not upgraded. The following series of new settings replace this: Attribute Weights, Max Cols in Index, and Intermediate Table Index.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TwoStepIndexCreation</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UseDatabaseRanking</td>
<td>Default setting: if your database supports ranking, then MicroStrategy 7 uses database ranking by default.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UseDBCSforODBC</td>
<td>This setting is obsolete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UseDefaultSQL</td>
<td>This setting is obsolete</td>
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</tr>
</tbody>
</table>
** The settings that contain this double asterisk have the following MicroStrategy 7 default values applied to them:

<table>
<thead>
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MicroStrategy 7 supports a wide breadth of datatypes for each supported warehouse database. This appendix lists the supported datatypes for each database type.

Some pre-7.0 projects contain fact, attribute ID, or attribute DESC column datatypes not supported in MicroStrategy 7. If a project containing columns with unsupported datatypes is upgraded, the datatypes for those columns are assigned as “reserved” and proper datatypes are not assigned in temporary tables, affecting report execution. Therefore, it is imperative to ensure before upgrading that all datatypes assigned in the pre-7.0 project are supported in MicroStrategy 7.

If you do not know whether unsupported datatypes are stored in a pre-7.0 project, please contact MicroStrategy Technical support for assistance.

Changing to supported datatypes

If there are datatypes stored in a pre-7.0 project which are not supported in MicroStrategy 7 for the respective warehouse database, you must correct this before upgrading. Please contact MicroStrategy Technical Support for assistance.

Supported datatypes per database

The following table lists the supported datatypes for each database. Datatypes marked with an asterisk are supported for AS400 only.

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### Supported Datatypes

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