

Autodesk MapGuide® Enterprise 2010 Update 2 Readme

Thank you for downloading Autodesk MapGuide Enterprise 2010 Update 2.

This readme contains the latest information regarding the installation and use of this update. It is strongly recommended that you read this entire document before you apply the update to your product. For reference, you should save this readme to your hard drive or print a copy.

This readme contains the following sections:

- Who Should Install the Update
- Installing Autodesk MapGuide Enterprise 2010 Update 2
- Changes Included in this Update

Who Should Install the Update

Update 2 is for Autodesk MapGuide Enterprise 2010, in all languages, running on all supported operating systems. Update 2 contains all the updates released in Update 1 and Update 1b . This update can be applied to the following versions of MGE 2010: MGE 2010, MGE 2010 Update 1, MGE 2010 Update 1b.

NOTE Any customer with a build number greater than 2.1.0.3701 will need to backup their Repositories, uninstall the current build, install MGE 2010, apply Update 2 and replace the installed Repositories folder with the backup. The uninstalls shouldn't delete the Repositories folder, but the backup is a precaution.

Installing Autodesk MapGuide Enterprise 2010 Update 2

IMPORTANT You must close all applications before installing the Autodesk MapGuide Enterprise Update, especially any MapGuide-related services, such as MapGuide Server service and IIS/Apache/Tomcat.

Autodesk MapGuide Enterprise 2010 Update 2 does not modify the repository or any of your data. Administrators should back up their current installations and repositories as per best practices. In general, any files modified by Administrators or users may be overwritten. The Windows update is simply an update to a subset of files. The Linux update is a full install.

From the Product Support web site, download the appropriate Update files for your operating system. Copy the update files into a temporary folder on your computer and run the files as described below.

Installing on Windows

No configuration files are modified during the Windows install of Update 2.

Installing the Server/Web components on Windows

- 1 Download the following Update 2 files:
 - *AutodeskMapGuideEnterprise2010ServerUpdate2.exe*
 - *AutodeskMapGuideEnterprise2010WebServerExtensionsUpdate2.exe*
- 2 Stop the Autodesk MapGuide Enterprise 2010 Service and the Web Server services.
- 3 Run the Update 2 files that you downloaded in Step 1.

NOTE Note: Customers running IIS may see additional stability under load by creating a new Application Pool (using the defaults) and assigning the Mapagent virtual directory to this pool. This isolates the mapagent from either the PHP or .NET viewers.

- 4 Restart your services and connect to the MapGuide Enterprise Site Administrator to confirm things are working.

Installing on Linux

Several configuration files are modified during the install of Update 2. These files are commonly modified by Administrators either directly or via the Site Administrator. You should back up these files and revert to them after the install:

- *opt/Autodesk/mapguideenterprise2010/server/bin/serverconfig.ini*
- *opt/Autodesk/mapguideenterprise2010/server/wfs/ogcwfsservice.config.awd*
(This file is normally modified using the Site Administrator.)
- *opt/Autodesk/mapguideenterprise2010/server/wms/ogcwmsservice.config.awd*
(This file is normally modified using the Site Administrator.)
- *opt/Autodesk/mapguideenterprise2010/webserverextensions/apache2/conf/httpd.conf*
- *opt/Autodesk/mapguideenterprise2010/webserverextensions/apache2/conf/mapguide.conf*
- *opt/Autodesk/mapguideenterprise2010/webserverextensions/php/lib/php.ini*

Please backup any other files that may have been modified or added to the install directories such as files in the /www folder.

Installing the Server/Web/FDO components on Linux

- 5 Download the following Update 2 files to /tmp:
 - *mapguideenterprise2010-server-2.1.0.4102-1.i386-rpm.bin*
 - *mapguideenterprise2010-webextension-2.1.0.4102-1.i386-rpm.bin*
 - *fdo-3.4.0.62.tgz*

NOTE Make sure that you download and install the correct Server and Web Extension Update files for your language, e.g. German, Japanese, French, etc. For example, if you are using the German version of MapGuide Enterprise, you should download the files *mapguideenterprise2010deu-server-2.1.0.4102-1.i386.rpm* and *mapguideenterprise2010deu-webextension-2.1.0.4102-1.i386.rpm*. The FDO Update file is not language-specific.

- 6 Stop the MapGuide Enterprise 2010 Service, the Apache Server and the Tomcat Server if applicable.
- 7 Backup the Repositories folder from the `/opt/Autodesk/mapguideenterprise2010/server/` folder to another directory outside the Autodesk subdirectories such as `/tmp`. The new install should not overwrite the current repository, but the backup is just a precaution.
- 8 Confirm the version of MGE installed by executing:

```
rpm -qa | grep mapguide
```
- 9 Uninstall the MapGuide 2010 Web Extensions by executing:

```
rpm -e mapguideenterprise2010-webextension-2.1.0.3701-1
```
- 10 Uninstall the MapGuide 2010 Server by executing:

```
rpm -e mapguideenterprise2010-server-2.1.0.3701-1
```

Modify the versions above as needed
- 11 Navigate to `/usr/local/fdo-3.4.0` and uninstall FDO by executing:

```
./uninstall
```
- 12 Navigate to the folder where the new install files were copied to.
- 13 Extract the FDO files by executing:

```
tar -xzf fdo-3.4.0.62.tgz
```
- 14 cd to the `fdo-3.4.0.6201` folder and execute:

```
./install
```
- 15 To extract the Server and Web Extension files execute the following:

```
./mapguideenterprise2010-server-2.1.0.4102-1.i386-rpm.bin
```

```
./mapguideenterprise2010-webextension-2.1.0.4102-1.i386-rpm.bin
```

Enter yes when prompted to accept the license agreements.
- 16 To install the Server execute the following:

```
rpm -ivh mapguideenterprise2010-server-2.1.0.4202-1.i386.rpm
```
- 17 To install the Web Extensions execute the following:

rpm -ivh mapguideenterprise2010-webextension-2.1.0.4202-1.i386.rpm

- 18 Replace any overwritten configuration files as outlined in Step 1.
- 19 Restart the services and connect to the MapGuide Enterprise Site Administrator to confirm things are working.

Installing Autodesk MapGuide Studio Update 2

Autodesk MapGuide Studio Update 2 can only be installed on Windows.

Installing Update 2 for MapGuide Studio

- 1 Download the following Update 2 file to a temporary folder:

AutodeskMapGuideStudio2010Update2.exe

- 2 Exit MapGuide Studio 2010.
- 3 Run the update file you downloaded in Step 1. The install will likely require Administrator or Power User privileges to execute.
- 4 Start MapGuide Studio 2010.

NOTE MapGuide Studio 2010 is available in English language only so there are no language specific update files available.

Changes Included in this Update

Autodesk MapGuide Enterprise 2010 Update 2 includes the following enhancements:

- (tract ticket 1173) Added a new Performance Log. In order to help customers identify possible issues with memory used by the MGE Server process a Performance log has been added in Update 2. The following section can be added to the serverconfig.ini to enable the log. The Interval parameter (in seconds) is the sampling period for capturing the server run time values. The output is similar to that generated by the GetSiteInfo API.

```
[PerformanceLogProperties]
#
*****
*****
# P E R F O R M A N C E   L O G
#
# Property Name                Description
#
-----
# Enabled                       0 = log disabled, 1 = log
  enabled
# Filename                      Name of the log file
# Parameters                    Log parameters
# Interval                      Time interval in seconds
  for when the server
#                               writes the performance
  information to the log
#
*****
*****
Interval = 300
Parameters =
  ADMINOPQCOUNT, CLIENTOPQCOUNT, SITEOPQCOUNT, AVGOPTIME, CPU,
  WORKINGSET, VIRTUALMEMORY, TOTALOPTIME, TOTALACTIVECONNECTI
  ONS, TOTALCONNECTIONS, TOTALPROCESSEDOP, TOTALRECEIVEDOP, UP
  TIME, CACHESIZE, CACHEDROPPEDENTRIES
Filename = Performance.log
Enabled = 1
```

NOTE The above log has not been implemented in the Site Admin interface. The log can be disabled by setting Enabled = 0

- (1254559) Load Balancing between 2 servers failed when reloading a Basic Weblayout. Load Balancing will now remove a non-responding server after the first connection failure. A retry period has been implemented and should the server come back on line it will be included in the Round Robin polling of servers. After a connection failure, the browser user will need to refresh the session to find a new server.
- MgRasterPropertyDefinition has 2 new methods, GetSpatialContext and SetSpatialContext to parallel the other ProprtyDefinition classes.

Autodesk MapGuide Enterprise 2010 Update 2 resolves the following issues:

- (1219841.01) TCP/IP connections were not always being released and were left in a CLOSE_WAIT status when queried using a *netstat* from a command prompt. This sometimes resulted in "Unable to establish connection" errors.
- (trac ticket 1131) Revised the load balancing retry time to 1 second when only 1 server is present.
- (trac ticket 1107) MgSpatialContextReader was not closing properly which sometimes caused issues with selection.
- (RFC 79) The initial load time of a map was too high.
- (trac ticket 1172) The AJAX Viewer legend exhibited poor performance.
- (1303042) The AJAX Viewer and the JAVA API were generating "Resource not found" errors.

NOTE Administrators must delete the existing Tomcat Catalina working folder to remove cached versions of the old *mapviewer.java* pages. While the Tomcat Service has been stopped to upgrade the Webextensions, delete the *mapguide2010* folder found under *..\Tomcat\work\Catalina\localhost* on either Windows or Linux.

- (1255324) Cross Site Scripting vulnerabilities in the AJAX Viewer have been fixed.
- (1278107) SHP files under heavy load may have caused a Segmentation Fault on Linux.
- (1318857) IP and Client information was missing from the Session Log after Update 1b.

- (1311966) Autodesk Oracle Provider was leaking memory when exceptions were generated.
- (1319442) Using the AJAX Viewer and JAVA resulted in a memory leak under Tomcat
- (1284116) Accessing folders of ECW or TIFF files caused the MGE Server to lock up or generate unclassified exceptions.
- Processes generating Tile Caches for maps with Base Layers caused the MGE Server to lock up or generate unclassified exceptions.
- (1265775) Layer icons were drawn much too small in the legend after plotting a DWF in MGE 2010 Update 1.
- (1228001) WMS connections to external servers were setting the wrong bounding box for local coordinate systems.

NOTE Be sure to include a version=1.x.x parameter in the URL for the connection in Autodesk MapGuide Studio.

- (1228006) WMS re-projections had an offset incorrectly applying to local coordinate systems because of an unwanted coordinate system transformation.

NOTE External WMS sources may require a config.xml file to ensure the correct coordinate system is found. See http://sandbox.mapguide.com/index.php/Web_Mapping_Service for details

- (1270442) Nested MapGuide readers were using different FDO connections when the provider was multithreaded.
- (1254560) Site Admin operations did not appear to Load Balance: The operations have been enhanced to provide a listing for all load balanced servers.
- (1254467) Use of the Autodesk Raster provider on Linux sometimes resulted in large memory consumption and eventual failure of the MapGuide Server.
- (1219841.01) TCP/IP connections were not always being released and occasional invalid stream header errors occurred.
- (1242611) Raster connections to unmanaged data and folders with many images sometimes failed or timed out, requiring the user to Save multiple times in Studio. The connection editor in Studio should no longer time out until the underlying config.xml is generated.

NOTE The underlying config.xml documents detailing the raster images must be valid. To force this users must open each raster connection, execute Test Connection and save after success is indicated.

- (1211043) Creating a Buffer against an MGE 2010 Server on Linux failed with a null error.
- (1204570.02) Raster images no longer worked with Tiled Maps.
- (1015380.01) Some FDO feature source searches were failing because there were issues with some of the identity property types.
- (1142170.01) Search commands in Flexible Web Layouts were not executing correctly when executed from the task pane.
- (1177389.01) Labels containing Arabic and Hebrew were not displaying correctly.
- (1190527) Labels on road data were being displayed inconsistently.
- (1212433) Tiff catalogs on Linux could not be accessed properly when using the Autodesk Raster Provider.
- (1212436) The Autodesk Raster Provider was rendering thin image strips incorrectly.
- (1212641.02) Feature Labels were not being displayed when a Japanese font was used in the Ajax viewer on Linux.
- (1204661) Using a large point library sometimes caused errors.
- (1144842.01) Selecting a Symbol Library in the Point Stylization dialog sometimes caused an error.
- (1126830.01 & 1042721.01) Symbols were being displayed incorrectly in the symbol library editor, symbol previews, and map legends.
- (1225147) The option "Allow other labels to obscure feature symbols on this layer" was missing from Autodesk MapGuide Studio 2010.
- (1177357) Using Autodesk MapGuide Enterprise with Oracle 10g data on a Windows 2003 Server machine was consuming excessive amounts of memory.
- (1214549) On Linux servers, a memory leak during data requests was causing the server to run out of memory unexpectedly.
- (1215506) Selection set requests were using excessive amounts of memory.

- (1224465) MapGuide Server was running out of memory when accessing Oracle databases with large schemas.
- (1220854) Coordinate system transformations were limiting CPU usage, preventing more than one person from using the system at a time.
- (1236282) *Common.php* in Fusion and *common.php* in the PHP API were using an incorrect function call in *FormatMessage* which prevented exceptions from being raised properly.
- (1214912) There were unexpected results with raster images when file connections were released.
- (1198689) Warning error messages were being displayed when the advanced logging feature was enabled.
- (1173929) Some older SDF files failed to open due to spatial index errors.
- (1200560) The FDO WFS Provider was not retrieving all feature classes from the server.
- (1202424) There were unexpected results with the SQL Server providers when null geometries existed.
- (1206094.01) The Oracle Spatial provider was not displaying all the features when null z ordinate values existed in the geometries.
- (Open Source Ticket #1036) Joining an SDF file to an Oracle feature class did not work.
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