

MapGuide Open Source Readme

Thank you for using the MapGuide Open Source 1.0.0 release (April 2006).

Any data/resources created with the MapGuide Open Source 1.0.0 release will not necessarily be compatible with future versions of MapGuide Open Source.

This release is fully compatible with resources created using the MapGuide Open Source 1.0.0 RC1 release. If you uninstall the RC1 release and then install this one in the same place, your existing Resource Database will be preserved.

If you installed Tux Preview 1 (August 2005) or MapServer Enterprise 0.9.1 (November 2005), please note the following:

1. The Server Repository is not compatible. You should uninstall Server and Web Server Extensions, and then delete the Server and Web Server Extensions directories.
2. Changes to the Web API include the following:
 - All API prefixes have been changed from Aw to Mg
 - Namespace for .Net API has changed from Aw to OSGeo.MapGuide
 - Namespace for Java API has changed from AwApi to org.osgeo.mapguide

Installation Notes

For build, installation, and configuration information, see one of the following documents:

- BuildConfigureMgOpenSourceOnWindows.pdf
- InstallConfigureMgOpenSourceOnWindows.pdf
- BuildConfigureMgOpenSourceOnLinux.pdf (This name is case sensitive.)
- InstallMapGuideOpenSourceSamples.pdf

To download the Autodesk MapGuide® Studio Preview, go to <http://www.autodesk.com/mapguidestudio>.

Supported Operating Systems

The MapGuide Open Source 1.0.0 release can be used with the following operating systems:

- Microsoft® Windows® 2000 Server
- Microsoft Windows 2003 Server (or with SP1)
- RedHat Enterprise Linux 3.0 (2.4.21-15.EL Kernel)
- Fedora Core 4 (GCC 4.0.2)

Minimum Hardware Requirements

The MapGuide Open Source 1.0.0 release requires the following:

- Server: Intel Pentium, III/IV 1 GHz, 1GB of RAM
- Web Tier: Intel Pentium, III/IV 1 GHz, 1GB of RAM
- DWF Viewer: Intel Pentium, 128MB of RAM

Feature Limitations in the MapGuide Open Source 1.0.0 Release

This section lists the known feature limitations in the MapGuide Open Source 1.0.0 release.

DWF Viewer

The MapGuide Open Source 1.0.0 release is compatible with Autodesk® DWF™ Viewer version 6.5.0.679 or later. To get the latest DWF viewer, go to <http://www.autodesk.com/dwf>.

Data source types

Only the following data source types are supported by the MapGuide Open Source 1.0.0 release:

- SDF (via conversion to SDF 3.0)
- SDF 3.0
- SHP (directly and via conversion to SDF 3.0)

MapGuide Open Source 1.0.0 Documentation

All documentation is preliminary and may contain errors and omissions.

Tile Cache Management

When viewing maps containing base map layer groups, the server generates and caches tiles. If you edit the map or any of its dependencies (one of its base map layers), the tiles for that map are no longer valid and must be removed. Similarly, if you delete a map, the tiles for that map must be removed.

The removal of cached tile data is not automatic at this time and must be done manually.

To clear the cached tile data for a map

1. Determine the full path for the map in the resource repository. If the map is contained in one or more nested folders, the full path includes the names of these folders. To determine the full path in MapGuide Studio:
Right-click the map in the Site Explorer.

Click Properties.

In the Properties dialog box, on the General tab, note the contents of the Location field.

Append a '/' to the Location field, and then append the map's resource name.

For example, if the Location field is "Library://My Maps/BaseMap" and the map's resource name is "Counties", then the full path is "Library://My Maps/BaseMap/Counties".

2. Exit MapGuide Studio and shut down the server.
3. The root path for the cache is specified in serverconfig.ini using the TileCachePath parameter, under the RenderingServiceProperties section.
4. Locate and delete the folder in the tile cache which matches the map's full path. Note that tile cache folders do not include the "Library://" prefix, and that slashes ("/") or colons (":") in the map's full path are replaced with underscores ("_"). In the example above, the folder name would be "My Maps_BaseMap_Counties".
5. Restart the server.

Server Repository

It is highly recommended that you back up the repository at regular intervals. Server Repository backup/restore information is available in the following locations:

- Windows – C:\Program Files\MapGuideOpenSource\RepositoryAdmin\MgOpenSourceRepositoryAdmin.pdf
- Linux – /usr/local/mapguideopensource/server/respositoryadmin/MgOpenSourceRepositoryAdmin.pdf

If the server is installed in the default location, repositories are created in the following locations:

- Windows – C:\Program Files\MapGuideOpenSource\Server\Repositories
- Linux – /usr/local/mapguideopensource/server/repositories

3rd Party Components

The following is a summary of changes to 3rd party components for MapGuide Open Source.

SWIG (1.3.22):

Support for overloading in PHP. Constructors and method can be overloaded, the C++ swig generated code determine at runtime which overload to call based on number and type of arguments

Support for PHP 5

Exception handling: Allow C++ code to throw application-defined C++ exceptions and have a wrapper to these exceptions thrown back to the calling program. Implemented for Java, .NET and PHP.

Polymorphism: Allow proxy methods to return actual instances of derived proxy class instead of instances of the base class. Implemented for Java, .NET and PHP

GD (2.0.33)

Fixed clipping of geometry so that it does not draw outside of allocated image memory.

Customized text extent calculation code -- no longer API compatible with vanilla gd.

Customized line drawing so that lines are continuous across tiles generated for the tile based viewer.

Revised antialiased line drawing algorithm.

Fixed alpha blending algorithm to draw semi-transparent layer data onto a transparent background image.

Fixed GIF output to correctly write the transparent color index.

No changes to any of the dependency libraries - png, jpeg, zlib and freetype.

PROJ.4 (4.4.9)

Fixed memory leaks in some of the projection

Berkeley DB XML (2.2.13)

Fixed a memory leak in `__log_dbenv_refresh()` method

Fixed a defect where opening transactional database does not detect version mismatch

Fixed a defect where Read-Modify-Write cycle fails in transactional database

Updated double-to-string conversion method to use 17-digit precision

GDAL / CPL (1.3)

Modified the Win32 Makefile to allow setting a custom name for the PDB file

Added a static public `CPLCleanupTLS()` method which cleans up static data

Fixed a bug in `CPLFinderClean()`

GEOS (2.2)

Minor changes to source code file

`geos-2.1.1/source/operation/valid/IsValidOp.cpp`

to ensure that library builds.