



spatial **offline**

# XAML Export Tool Configuration Guide

2011 R1 Version 4.1.2

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## Overview

The XAML Export tool is the console version of Export Server. The console provides more control of the export. Before you run the export, you must first modify the configuration file (**xmalexport.exe.config**) in the **C:\Program Files\SPATIALInfo\SpatialInfo Sync Server** folder. When finished, double-click **xmalexport.exe**.

## Modifying the Configuration File

To configure the spatialOFFLINE XAML Export, open the application configuration file (**OfflineXamlExporter.exe.config**) in the Spatialoffline folder. Use the parameters in the table below to configure the file. A sample configuration file follows the table.

### WARNING:

- Setting the **ConnectionString** and **MapDataConfigPath** values is CRITICAL. The rest of the values can operate with default or implied values.
- Do not modify any items contained in the <system.web> part of the xamlexport.exe.config file. These designations handle security and licensing.

**Table A: Configuration Parameters**

Flag Name	Key	Description
MAPS_LOCATION_KEY	MapPath	Set the name of the Maps folder where the map files will be written. <b>Note:</b> The key defaults to <b>C:\Maps</b> . If you remove the C:\ directory designation, <b>Maps</b> will be written to a subdirectory where the executable resides. Use the MapPath key to designate an alternate directory or name for the Maps folder. e.g., key=MapPath value=C:\MyDirectory\MyMaps.
DEFAULT_MAP_LOCATION	C:\Maps	Default maps location; this must match the virtual directory set up in IIS.
DB_CONNECT_KEY	ConnectionString	Designate the username, password, and path to the database, for example: User ID=CC_SEATTLE_FMX;Password=CC_SEATTLE_FMX;Data Source=den117/orallg
LOGFILE_KEY	Logfile	Not used (legacy).
BOUNDARY_CFG_KEY	MapDataConfigPath	Do not change. Tells the executable where to find the export file. The export file defines the structure of all boundaries and the content of the boundaries at each level.
FILE_IP_KEY	MapDataIp	Identifies the machine serving files, set via installation, do not change.
MAPS_VIRTUAL_DIR_KEY	MapVirtualDirectoryName	Virtual Directory set in IIS and in the Sync Server installation; do not change.

Flag Name	Key	Description
THEME_KEY	Theme	With this setting, defaults to Standard theme (relates to graphics rendering); note that if the value is set to NO theme (where the values consists of a set of double-quotes with nothing in between), it is NOT the same as the Standard theme; you can also have multiple themes (include one statement per theme).
DEFAULT_THEME_NAME	Standard	
NUMBER_WORKER_THREADS_KEY	NumberThreads	The default number of threads is set to 4; the number depends on the density and amount of data; a safe value is 3; the higher the number of threads, the faster the export process runs and the more resources/memory are used; child process threads apply to fiber tracing; determine the "best" number during initial testing.
NUMBER_CHILD_PROCESS_THREADS_KEY	ChildProcessThreads	
DEFAULT_WORKER_THREADS	4	
FIELD_JOB_WORKERS_THREADS_KEY	"NumberFieldJobThreads"	Defines the number of threads for Field Jobs (Sync Server); this is a dedicated thread for Field Jobs; the default is set to 1; no need to change.
DEFAULT_NUMBER_FIELD_JOB_WORKERS	1	
SERVER_MODE_KEY	ServerMode	Defines the mode the server is running in: Sync, Export, or SyncAndExport; SyncAndExport is used by developers.
SERVER_MODE_SYNC_AND_EXPORT	SyncAndExport	
SERVER_MODE_SYNC	Sync	
SERVER_MODE_EXPORT	Export	
MAX_EXPORT_TIME_KEY	MaxExportTime	Defines the maximum amount of time (in minutes) to let an export run (Export Server); default is 600 minutes (10 hours).
DEF_MAX_EXPORT_TIME	600	
MAX_WORKER_TASK_TIME_KEY	MaxWorkerTaskTime	Defines the maximum amount of time (in minutes) to let any task run (other than exports); default is 360 minutes (6 hours).
DEF_MAX_WORKER_TASK_TIME	360	
MAX_BOUNDARY_WRITE_TASK_TIME_KEY	MaxBoundaryWriteTaskTime	Defines the maximum amount of time (in minutes) to allow any write task to run; default is 35 minutes.
DEF_MAX_BOUNDARY_WRITE_TASK_TIME	35	
LISTENER_RUNNING_KEY	"ListenerRunning"	Defines whether the listener is running; note that Console Export tool is not used by clients.
SCHEDULER_ENABLED_LEY	SchedulerEnabled	The scheduler is either enabled or disabled; exports are defined in Server Manager; if enabled, exports will run; otherwise, they will not run.

**Sample xamlexport.exe.config Configuration File**

```

<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <configSections>
    <section name="log4net"
type="log4net.Config.Log4NetConfigurationSectionHandler, log4net" />
  </configSections>
  <appSettings>
    <add key="ConnectionString" value="User
ID=DenverUserName;Password=DebverOasswird;Data Source=DEN202/orallg" />
    <add key="MapDataConfigPath" value="ExportConfiguration.xml" />
    <add key="NumberThreads" value="4" />
    <add key="ChildProcessThreads" value="1" />
    <add key="ListenerRunning" value="false" />
    <add key="SchedulerEnabled" value="false" />
    <add key="MapPath" value="C:\Maps" />
  </appSettings>
  <!-- log4net Configuration -->
  <log4net>
    <appender name="RollingFile" type="log4net.Appender.RollingFileAppender">
      <file value="xaml_export_console.log"/>
      <appendToFile value="false"/>
      <maximumFileSize value="4000KB"/>
      <maxSizeRollBackups value="2"/>
      <layout type="log4net.Layout.PatternLayout">
        <conversionPattern value="%-10date{HH:mm:ss} [%thread] %-5level %-
30.30logger{2} - %message%newline"/>
      </layout>
    </appender>
    <root>
      <level value="WARN"/>
      <appender-ref ref="RollingFile"/>
    </root>
  </log4net>
</configuration>

```

# Modifying the ExportConfiguration.xml File

**WARNING:** if you modify this file incorrectly, you will shut down functionality of the application.

To configure the ExportConfiguration.xml file to export different graphics and/or data to be used by the **spatialOFFLINE** client, use the classes in the list below.

**Note:** There are two types of elements you can include in the export for **spatialOFFLINE** clients:

1. Graphics data, specified by a <GraphicsExportType> element in the configuration file
2. Object details and Search data, specified by a <DataExportType> element in the configuration file.

You may sometimes choose to export graphics and not data, in which case you will only define <GraphicsExportType> elements. If you want to include both graphics and data for the given class, you need to include both a <GraphicsExportType> and a <DataExportType> element for each class of data to be exported to **spatialOFFLINE**.

For example, the following configuration includes both graphics and data for Fiber Cables, but only graphics for CadSymbols:

```
<?xml version="1.0" encoding="utf-8" ?>
<MapDataConfiguration rootQueryType="Region"
rootQueryClassName="SPATIALInfo.WebFM.model.Boundary">
  <BoundaryConfiguration instanceClassName="Boundary" boundaryType="Region"
childQueryType="Node">
    <GraphicsExportType entityType="SPATIALInfo.WebFM.model.FiberCable" />
    <DataExportType entityType="SPATIALInfo.WebFM.model.FiberCable" />
    <GraphicsExportType entityType="SPATIALInfo.WebFM.model.CadSymbol" />
  </BoundaryConfiguration>
</MapDataConfiguration>
```

The ExportConfiguration.xml file resides in the same directory as the XamlXportServer.exe file. A sample ExportConfiguration.xml file follows the list.

## List of Class Names for Defining <GraphicsExportType> or <DataExportType> Elements

Set the entityType equal to the appropriate classes.

- SPATIALInfo.WebFM.model.Address
- SPATIALInfo.WebFM.model.Boundary
- SPATIALInfo.WebFM.model.CadLine
- SPATIALInfo.WebFM.model.CadSymbol
- SPATIALInfo.WebFM.model.CadText
- SPATIALInfo.WebFM.model.FiberCable
- SPATIALInfo.WebFM.model.ISPBuilding
- SPATIALInfo.WebFM.model.Pole
- SPATIALInfo.WebFM.model.RFActive
- SPATIALInfo.WebFM.model.RFCable
- SPATIALInfo.WebFM.model.RFPassive
- SPATIALInfo.WebFM.model.RFTap
- SPATIALInfo.WebFM.model.Road
- SPATIALInfo.WebFM.model.Site

- SPATIALinfo.WebFM.model.Strand
- SPATIALinfo.WebFM.model.Trench

### Sample ExportConfiguration.xml File

```
<?xml version="1.0" encoding="utf-8" ?>
= <MapDataConfiguration rootQueryType="Region"
rootQueryClassName="SPATIALinfo.WebFM.model.Boundary">
= <BoundaryConfiguration instanceClassName="Boundary" boundaryType="Region"
childQueryType="Node">
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.Boundary" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.FiberCable" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.ISPBuilding" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.Boundary" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.FiberCable" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.ISPBuilding" />
= <BoundaryConfiguration instanceClassName="Boundary" boundaryType="Node"
childQueryType="Tile">
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.RFCable" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.RFTap" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.RFPassive" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.RFActive" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.Site" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.Address" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.Strand" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.Trench" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.Pole" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.CadLine" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.CadSymbol" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.CadText" />
  <GraphicsExportType entityType="SPATIALinfo.WebFM.model.Road" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.RFCable" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.RFTap" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.RFPassive" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.RFActive" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.Site" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.Address" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.Strand" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.Trench" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.Pole" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.CadLine" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.CadSymbol" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.CadText" />
  <DataExportType entityType="SPATIALinfo.WebFM.model.Road" />
</BoundaryConfiguration>
</BoundaryConfiguration>
</MapDataConfiguration>
```