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1 Introduction

1.1 Document Organization
This document is separated into four sections that are defined below.

1. Introduction – provides an overview of the contents of this document
2. Installation – provides instructions for installing the SAMS development environment
3. Configuration – provides details for configuring the SAMS development environment
4.
5. Coding and Debugging – provides instructions for coding and debugging the SAMS code

1.2 Document Purpose

This document is intended for application developers and system administrators. It outlines how to set up a development machine in order to compile and debug the SAMS application.

1.3 Version Information

<table>
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<tr>
<th>Version Num.</th>
<th>Edit Date</th>
<th>Edited By</th>
<th>Comments</th>
</tr>
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<tr>
<td>1.0</td>
<td>June 3, 2014</td>
<td>Matt Hiland</td>
<td>Accepted changes and modified version number.</td>
</tr>
</tbody>
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2 Installation

Note: You must be running windows XP. This installation has only been tested on a Windows XP 32 bit installation. GeoMedia Webmap 6.0 is only supported on Windows XP 32bit.

- Install the .NET Framework 2.0 sp2.
- Install the .NET Framework 3.5. Make sure to install 3.5 sp1, otherwise visual studio won’t allow you to target the 2.0 framework.
  - Information about older frameworks in visual studio 2010
- Install Visual Studio 2010 Premium. Make sure that the .net framework 4.0 is included in the install.
- Install Internet Explorer 8 if it has not been installed yet. Make sure that if you ARE running the IE8 installer, that you choose to install updates as well.
- Install Oracle 10.2 Admin
- Install GeoMedia Professional 6.0
- Install GeoMedia WebMap 6.0
- Install Internet Information Services (IIS)
  - In control panel, go to Add Remove Programs
  - Click “Add/Remove Windows Components”
  - In the list of components, make sure that “Internet Information Services (IIS)” is checked.
  - Click next. The window will show a progress bar as IIS is installed and configured.
- Install the latest version of java
- Register the .net framework with IIS
  - Open the visual studio command prompt (Start -> all programs ->Visual Studio 2010 -> Visual Studio Tools -> Visual Studio Command Prompt
    - Enter this command: aspnet_regiis -i
3 Configuration

3.1 Configure IIS

- Click the start menu
- Right click on “My Computer” and then click ‘Manage’ in the menu.
- In the Computer Management window that appears, choose Computer Management (local) -> Services and Applications -> Internet Information Services ->Web Sites -> Default Web Site.
- Right click on Default Web Site and click Properties
- Click the “Directory Security” tab
  - Click “Edit” under “Anonymous access and authentication control”
    - Make sure the “Integrated Windows authentication” is checked.
    - Click ok.
- Click the ASP.NET tab
- Under the ASP.NET Version, select 2.0

3.2 Configure the Component Services for GeoMedia

- Click start->run.
- Type DCOMCNFG
- Expand Console Root -> Computers -> My Computer.
- A message might appear saying

  ![DCOM Configuration Warning]

  The CLSID {1F5F7137D-0E7C-4f35-8C73-4E5FD967E2F3}, from C:\WINDOWS\system32\webmap\wsapprise.exe and title Microsoft WMI Provider Subsystem Secured Host has the named value AppID, but is not recorded under-MMKEY_CLASSES_ROOT\AppID. Do you wish to record it?

- Click Yes
- Expand DCOM Config
- Right click “GeoMedia WebMap Map Server” and click properties.
- Click the security tab.
- For "Launch and Activation Permissions", choose the "Customize" option.
In the pop-up, choose the ASP.NET account from the “Group or user names” window, or click add and add ASPNET. Check all of the options in the permissions box below.

![Launch Permission Window]

- Do the same for “Access permissions” and “Configuration Permissions”
- Click apply
- Repeat this process for all of the GeoMedia items.

### 3.3 Configure GeoMedia WebMap to have a web cache

- create a new directory at C:\GWMCache
- Launch IIS Manager
- Create a new virtual Directory called GWMCache. Point it to C:\GWMCache

![Virtual Directory Creation Wizard](image)

Access Permissions
What access permissions do you want to set for this virtual directory?

- Read
- Run scripts (such as ASF)
- Execute (such as ISAPI applications or CGI)
- Write
- Browse

Click Next to complete the wizard.

- Launch GeoMedia WebMap Administrator
- Under System Settings -> Cache, add a GWMCache virtual directory and choose GWMCache
- When prompted, restart the web server.
- Make sure that if you are running iis6, you have `<identity impersonate="false"/>` the web.config
4 Coding and Debugging

- Find the copy of the SAMS source code. Inside that directory, locate the SAMS.sln file. Open this file using Visual Studio.
- Right click on the SAMS project under the solution explorer and then click Properties.
- In the left hand tabs menu, click “Web”.
- Under the servers category, choose “Use local IIS Web Server”. Enter “http://localhost/SAMS” then click “Create Virtual Directory”.
- In the top menu bar, choose Debug -> Start Debugging. SAMS should compile, then Internet Explorer will open and SAMS will appear.