

Description: Guide to setup IIS 7 and DCOM on Vista or Windows 2008 Server to properly run OPC XML-DA Servers

OS Requirement: Windows Vista (x64), Windows 2008 Server (x64)

General Requirement: .NET Framework 1.1 with SP1 installed

Introduction

Due to the major changes in IIS 7 (introduced with Windows v6 operating systems – Vista and Windows 2008 Server), users have to set its properties and settings manually to be able to connect to an OPC XML-DA Server from any client. There is also a required set up a DCOM.

This document will detail all the necessary steps to setup IIS 7 and DCOM so that OPC XML-DA Servers will be able to provide OPC data to clients without problems.

Requirement

You will need to install Microsoft .NET Framework 1.1 with SP1 on the machine where you want to run the XML-DA Server. You can download the installation [here](#). For more information about the .NET Framework, please refer to Microsoft web pages on this topic.

Installation/Configuration

To properly run OPC XML-DA Server on Vista or Server 2008, you have to do the following steps in order:

1. Install .NET Framework 1.1 and update it with SP1
2. Install an OPC Server with enabled XML-DA support (i.e. ICONICS Simulator 3.12, ICONICS Modbus Ethernet OPC Server, etc.)
3. Reconfigure IIS 7
4. Properly set up DCOM permissions for OPC Server

Configuring IIS 7

After successful installation of .NET Framework 1.1 SP1 and a XML-DA enabled OPC Server, you will need to configure IIS 7. Follow the steps below.

1. Open the IIS 7 console by typing in “iis” (without quotes) in the Start Menu search bar. In the search results, select the Internet Information Services (IIS) Manager.
2. Select your computer name in the navigation tree on the left-hand side if it's not already selected.
3. In the center area, double-click on ‘ISAPI and CGI Restrictions’ in the IIS Section.

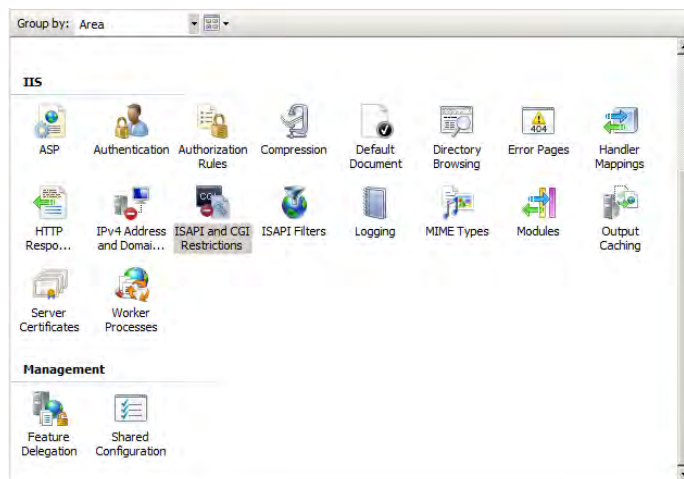


Figure 1 - IIS ISAPI and CGI Restrictions

4. Allow ASP.NET v1.1.4322 by double-clicking the row and in the opened dialog window check the ‘Allow extension path to execute’ checkbox.
5. Click on your computer name in the navigation tree on the left-hand side again
6. Double-click on the ‘ISAPI Filters’ in IIS Section in the middle.
7. Add a new ISAPI Filter by clicking on the “Add...” link on the right-hand Actions pane.
8. In the new window, name the filter “ASP.NET 1.1” and specify the “aspnet_filter.dll” as the executable (usually located in C:\Windows\Microsoft.NET\Framework\v1.1.4322). Click on OK to add the filter when you are done.

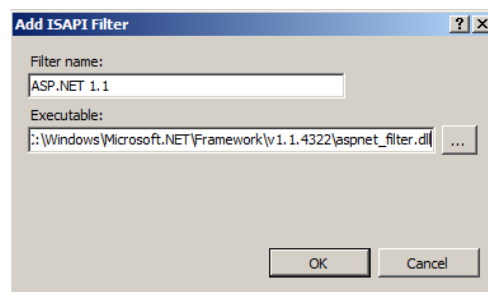


Figure 2 - Adding an ISAPI Filter

9. In the navigation tree on the left-hand side, expand Sites → Default Web Site and select your XML-DA Server (e.g. Simulator-XML-DA, ModbusEthernet-XML-DA)
10. Open Basic Settings by clicking on the option in Action pane on the right-hand side.
11. In the dialog window, change the Application Pool by clicking on the “Select...” button to ASP.NET 1.1
12. Confirm all changes.



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APPLICATIONS NOTE

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13. Go back to the level of your XML-DA Server and select Authentication
14. Enable 'Anonymous Authentication'.
15. Press WIN+R to bring up the Run dialog and type in "iisreset" (without quotes) to restart IIS

Setting-up DCOM Permissions

To ensure that the server starts automatically when an OPC client application requests data from the OPC XML-DA server, you have to set lower restrictions in default DCOM setting.

To properly set up DCOM, please refer to the application note *GENESIS32 – DCOM on Windows XP and Windows 2003 Server*, where the settings are the same as in Vista or Windows 2008 Server.

NOTE: There's bug in IIS 7 that does not save all settings sometimes. After running iisreset, please try to connect by any client to the XML-DA server. If it does not succeed, check all IIS 7 and DCOM settings again. Also, do not forget to properly set up the firewall.