

Client INI

In Windows XP: C:\Documents and Settings\All Users\Application Data\BioPlugin\client.ini

In Windows Vista/7: C:\Program Data\BioPlugin\client.ini

Note: on Win7 ProgramData is a hidden folder. Type “show hidden files” in the search area to access a dialog for changing file/folder display options.

[App Interface]

InterfaceMechanism=WM

ON_NO_FOUND_RETURN_VALUE=000000000

[eVigilance]

Request_Handler=Server

[Server]

PORT=1200

IP=cloud.cirg.washington.edu

[KEY]

Resolution=500

REGISTRATION_ID=0

LOCATION_ID=1

[GUI]

DEFAULT_LEFTFINGER=1

DEFAULT_RIGHTFINGER=1

[ENGINE]

CURRENT_ENGINE=FP1

Server INI

In Windows XP: C:\Documents and Settings\All Users\Application Data\BioPlugin\

In Windows Vista/7: C:\Program Data\BioPlugin

[eVigilance]

; CURRENT CONNECTION STRING #

ConnectStr=Provider=Microsoft.Jet.OLEDB.4.0;Persist Security Info=False;Data Source=C:\Program
Files\BioPlugin\Database.mdb;Jet OLEDB:Database Password=b10w

[Server]

Condition=

LOGFILE=C:\Program Files\BioPlugin\core-server.log

FINGERPRINT_REPOSITORY=

M2SYS_MT_ACCURACY=100

M2SYS_MT_DENSITY=40

SEARCH_BOTHPRINT=Y

CASCADE_SEGMENT_SEARCH=N

PERFORM_PRESEARCH=Y

RETRY_DB_CONNECTION=12

ENABLE_GUID=YES

DATA_SOURCE_ENCRYPTED=N

CLIENT_ENGINE=FP1

LICENSE_CODE=

[CONFIG]

MAX_FEATURE_SIZE=500

[Expert]

EXPERT_CACHING_ENABLED=NO

EXPERT_CACHE_HIGHMARK=150

EXPERT_CACHE_MATCHCOUNT_HIGHMARK=3

MAX_ENTRY_ALLOWED=20

Webserver INI

C:\Program Files\BioPlugin\WebService\BioPluginWeb.ini

[Server]

IP=localhost

PORT=1200

[ENGINE]

NAME=FP1

TYPE=FINGERPRINT

Verifying Server Functionality

Once the BioPlugin Server software is installed and activated, you can verify its basic functionality manually by following these steps:

1. Check the [Windows Service control manager](#) for the "M2SYS BioPlugin Server" service. If this service does not have a status of "Started", try right-clicking and starting it manually from here.
2. Check the contents of the [BioPlugin Server log file](#) (C:\Program Files\BioPlugin\coreserver.log) from the General tab of the BioPlugin Server control panel window.

- Core Server log file: At the bottom of the file it should say:

```
Loading DB.... ???  
Engine Cache size: 0  
Mapped the sharedmem file.  
>>>>>Server started. Waiting for client request
```

- The cache size value reported is the number of records loaded from the database. If this line does not exist, server is not connecting to the database.

- Verify the [database connection string](#) is correct.
 - Check for any ODBC or similar error messages detailing the database connection problem.
- If there is a "No USB License Key" message, the [USB SmartLock](#) was not properly connected.
- If there is a "License Error" message, the BioPlugin [Server License ID](#) was not entered correctly.
 - Check the License tab of the BioPlugin Server control panel window.
Confirm the License ID was entered correctly.
- If the server is running properly, the last line in the Core Server log file will be "Server started. Waiting for client request..."

- Client Manager log file: At the bottom of the file it should say:

```
Listening on Port: 1200  
Waiting for Core Server to be ready...  
Binding process completed...  
Waiting for client calls ...
```

- If "Waiting for Core Server to be ready" is continuously repeated and the log never goes any further, the Core

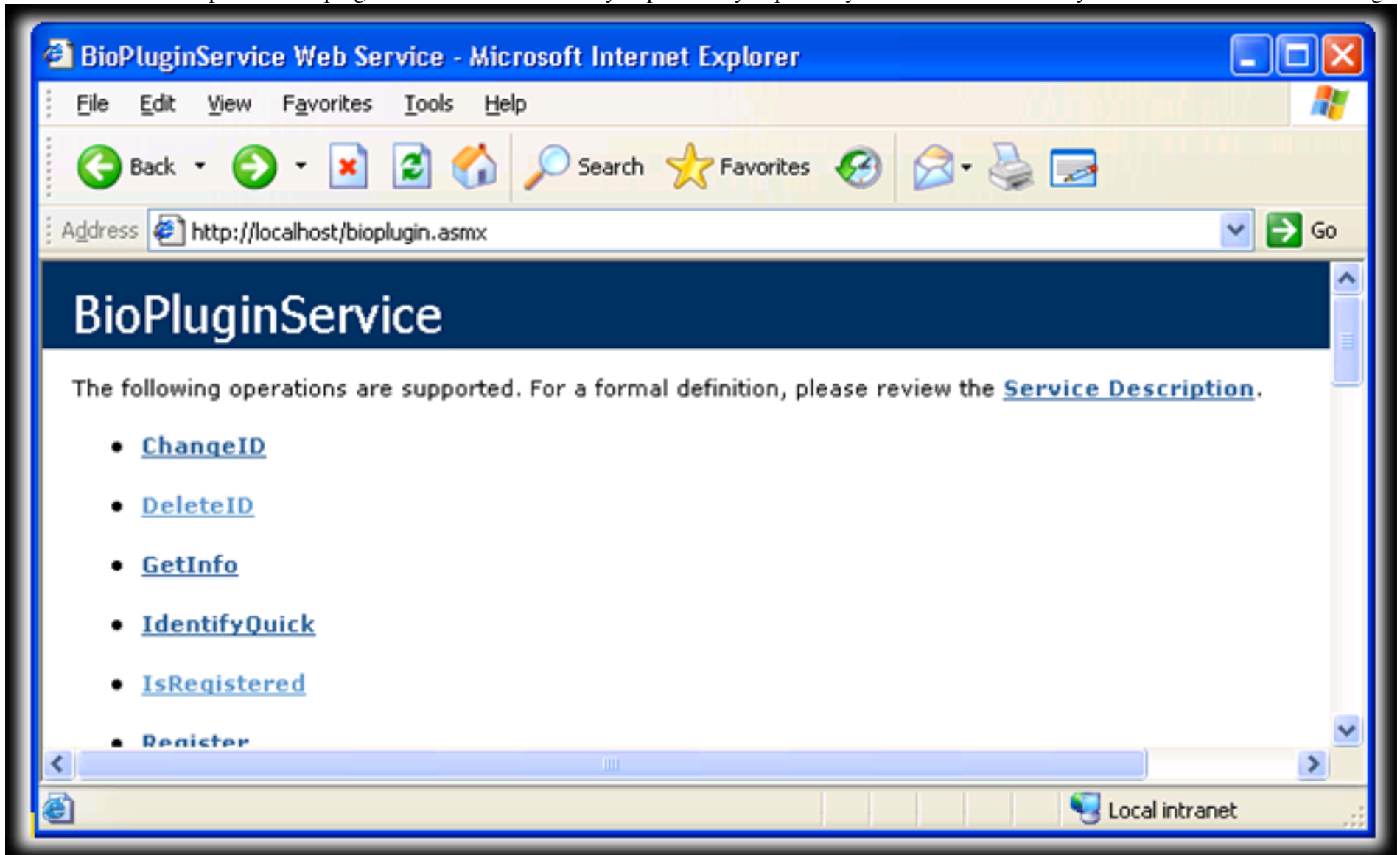
Server process is probably not running.

Check the Core Server log file for any errors that might indicate a reason for this.

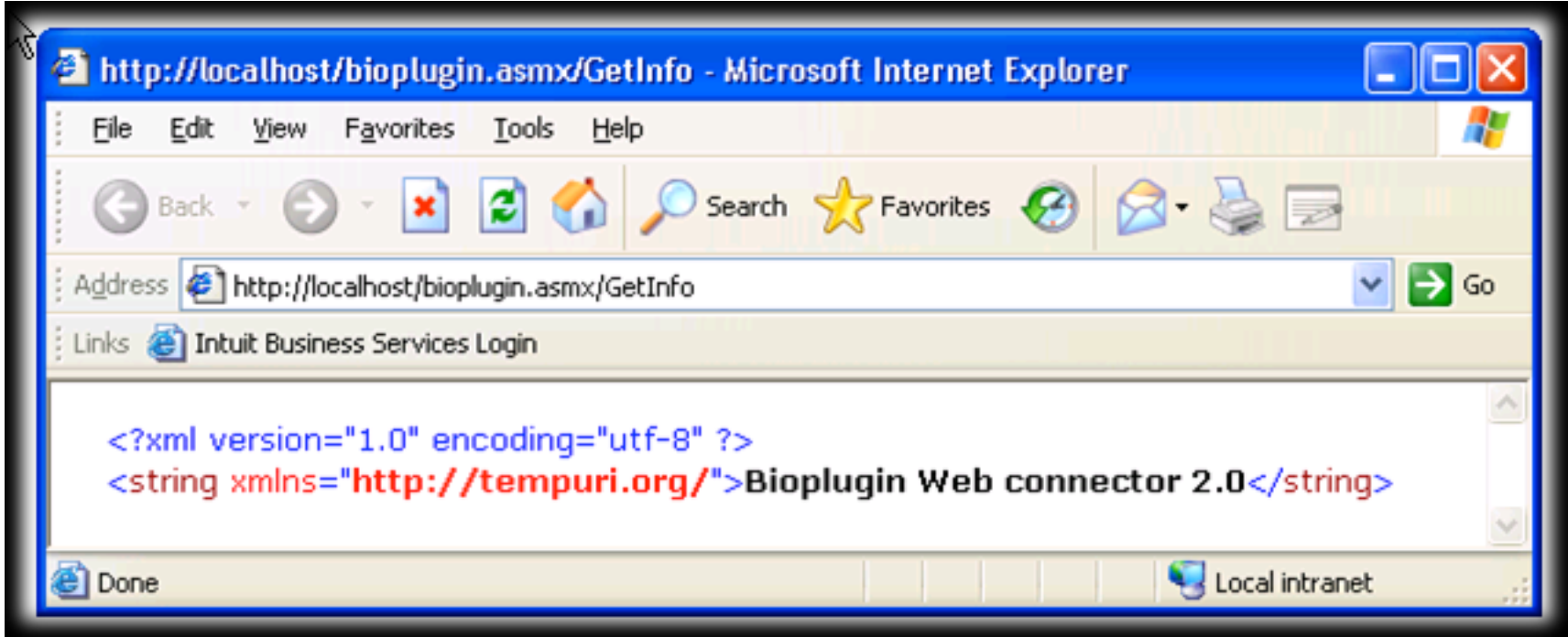
- If there is a "error calling bind()" message, some other process is already bound to the TCP/IP port the BioPlugin Server is trying to use.

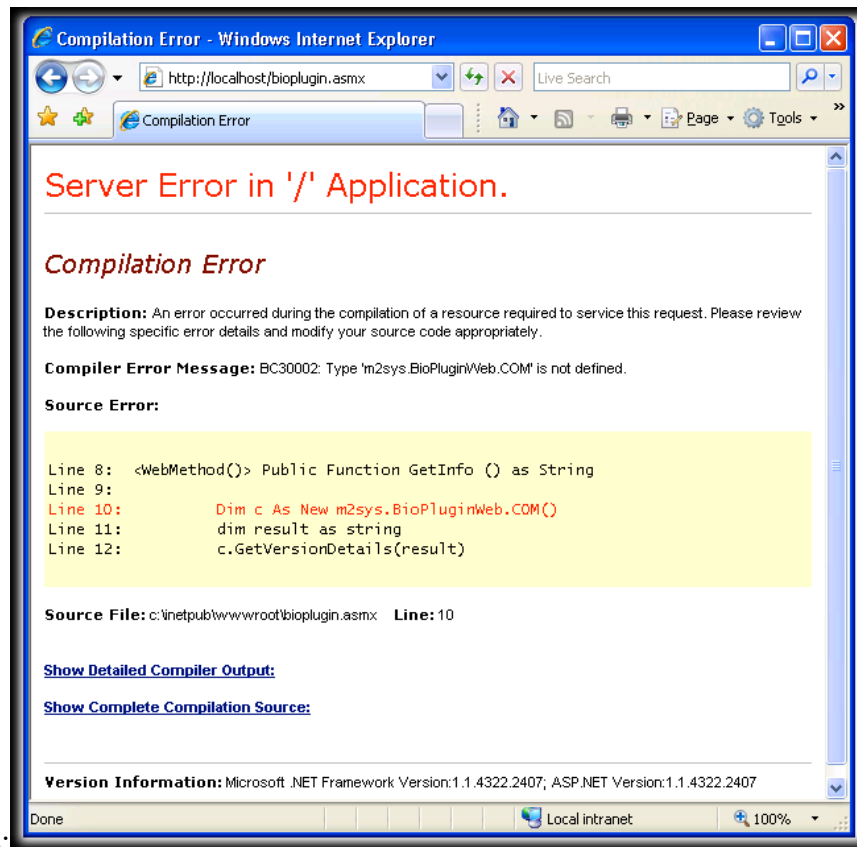
You may need to further investigate what other process might be using that port, or reconfigure the BioPlugin Server to [use a different port](#).

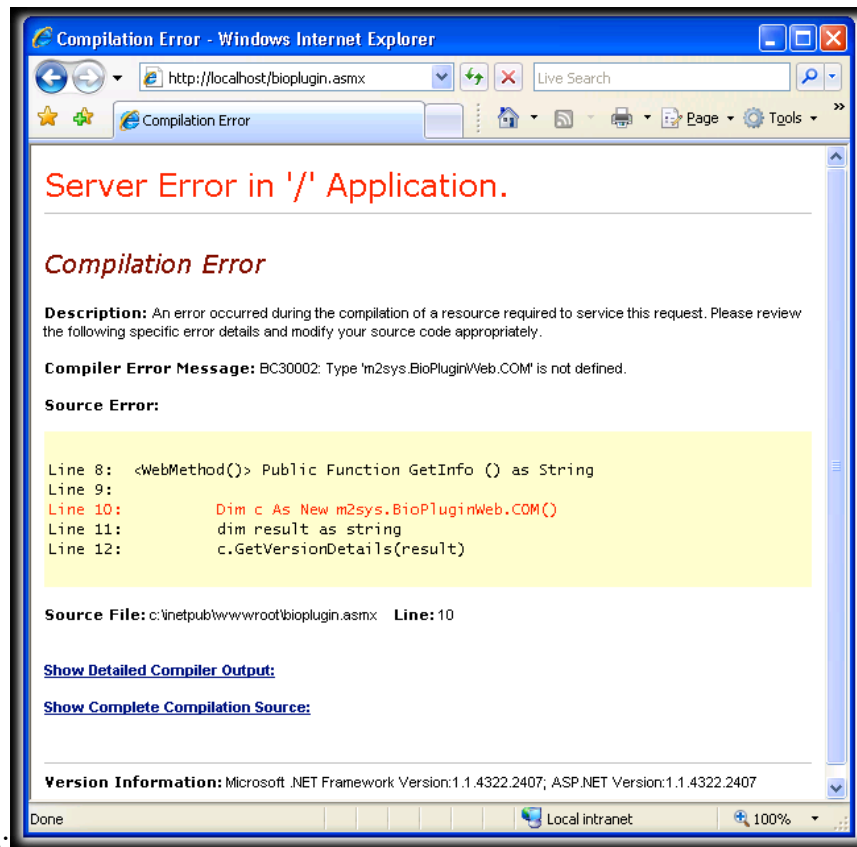
3. Open a web browser and open the "bioplugin.asmx" webservice file you previously copied to your web server directory. You should see the following:



4. Click on the “GetInfo” link, and click the “Invoke” button. You should see the following:





5. Note: If you see a "Compilation Error" like this:  Please check the .NET Framework and ASP.NET versions at the bottom of the page. In this example, for instance, you can see that either the .NET Framework 2.0 has not been installed, or that the web server has not been properly [configured to use the .NET Framework 2.0](#).

6. You might get the "Server Error in '/' Application even without the compilation error. This is likely because the M2Sys dll is not "registered." To register it:

Go to the server installation folder (default is "C:\Program Files\BioPlugin\WebService\"). Now you will find the "BioPluginWeb.dll".

Run the command prompt (run as administrator), then go to the mentioned location. Use the following command to register the dll.

cmd \> regsvr32 BioPluginWeb.dll (press enter)

Now bioplugin.asmx will work.

Verifying Client Functionality

Once the BioPlugin Client software is installed and activated, you can verify its basic functionality manually by following these steps:

1. Open Command Prompt window (**Start -> Run -> "cmd"**)
2. Change to where BioPlugin Client was installed ("cd \Program Files\BioPlugin")
3. Manually call the single-template scanning window: "m2sysplugin.exe IS 0"
4. The biometric scanning window will appear in the center of the screen.
5. Perform the scan using the method appropriate for the biometric device you are using.
6. You should see a graphical representation of the biometric scan appear in the scanning window.
7. At the top of the dialog you will see the message "Fingerprint processed."
This indicates that client is communicating with the server.
 - If a "Server connection failed" or "Invalid server name" message is displayed, confirm:
 - In the client.ini you have the correct IP or hostname specified for the BioPlugin Server
 - The BioPlugin Server software is running properly (Service Assistant is green, no errors in log files, etc.)
 - There is no firewall software on the server computer blocking the incoming TCP requests on the appropriate port (1200 by default)
 - If the server IP or hostname is running https, this will not work
8. Manually stop the scanning window when finished: "m2sysplugin.exe IS -1"

Data Merge tool

1. Open the command prompt.
2. Locate the "Data Merge Tool" folder. (like: >cd location_of_folder)
3. Update the "hybrid_datamerge.ini" file according to your requirement.
It contains PORT and IP for Destination BioPlugin Server. Also, locate the location of your source Database.

[Server]

PORT=1200

IP=localhost

ConnectStr=Provider=Microsoft.Jet.OLEDB.4.0;Persist Security Info=False;Data Source=C:\Program
Files\BioPlugin\Database.mdb;Jet OLEDB:Database Password=b10w

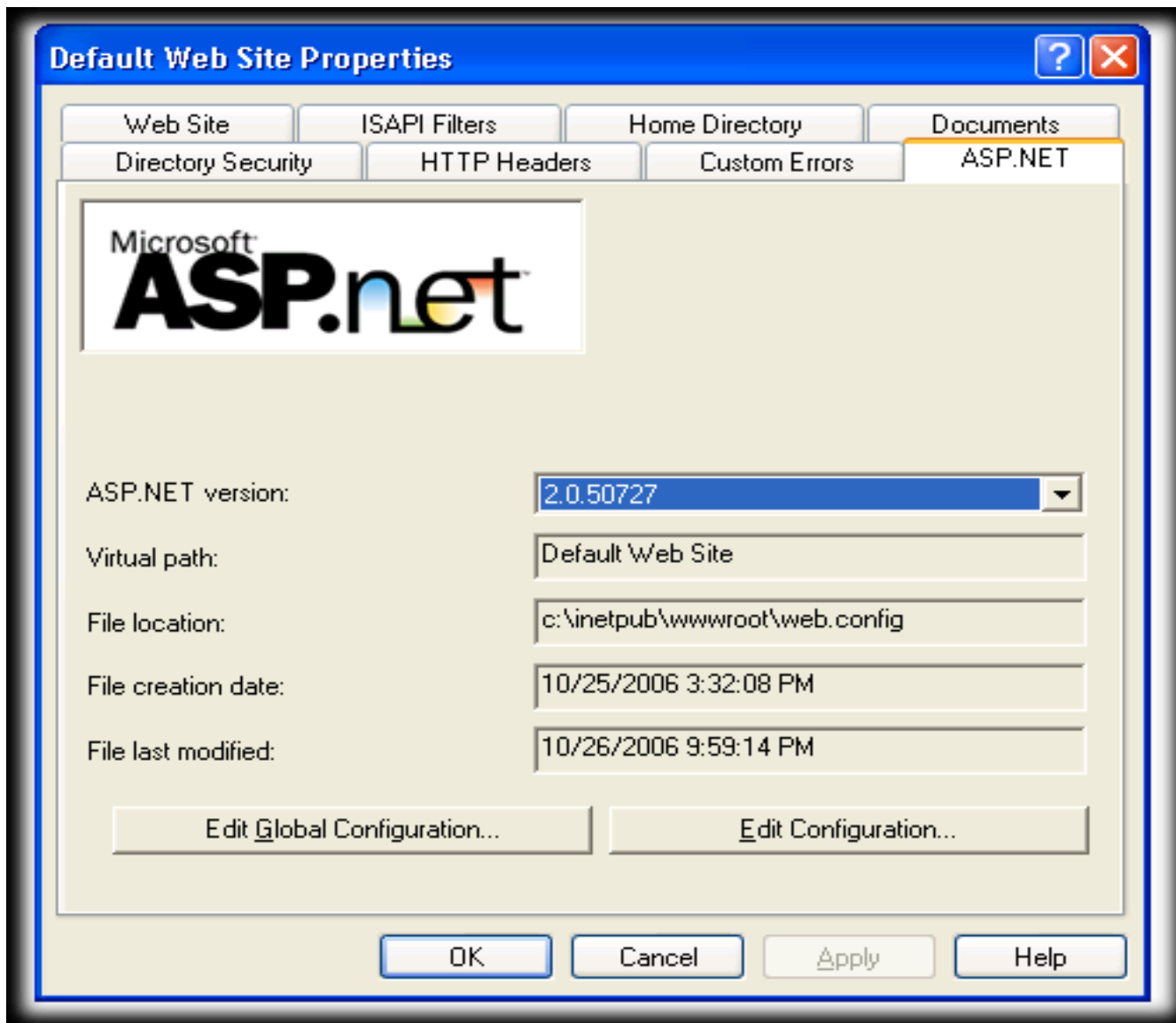
4. Now, type the following command in command prompt and press return:

"hybrid_datamerge.exe FP1"

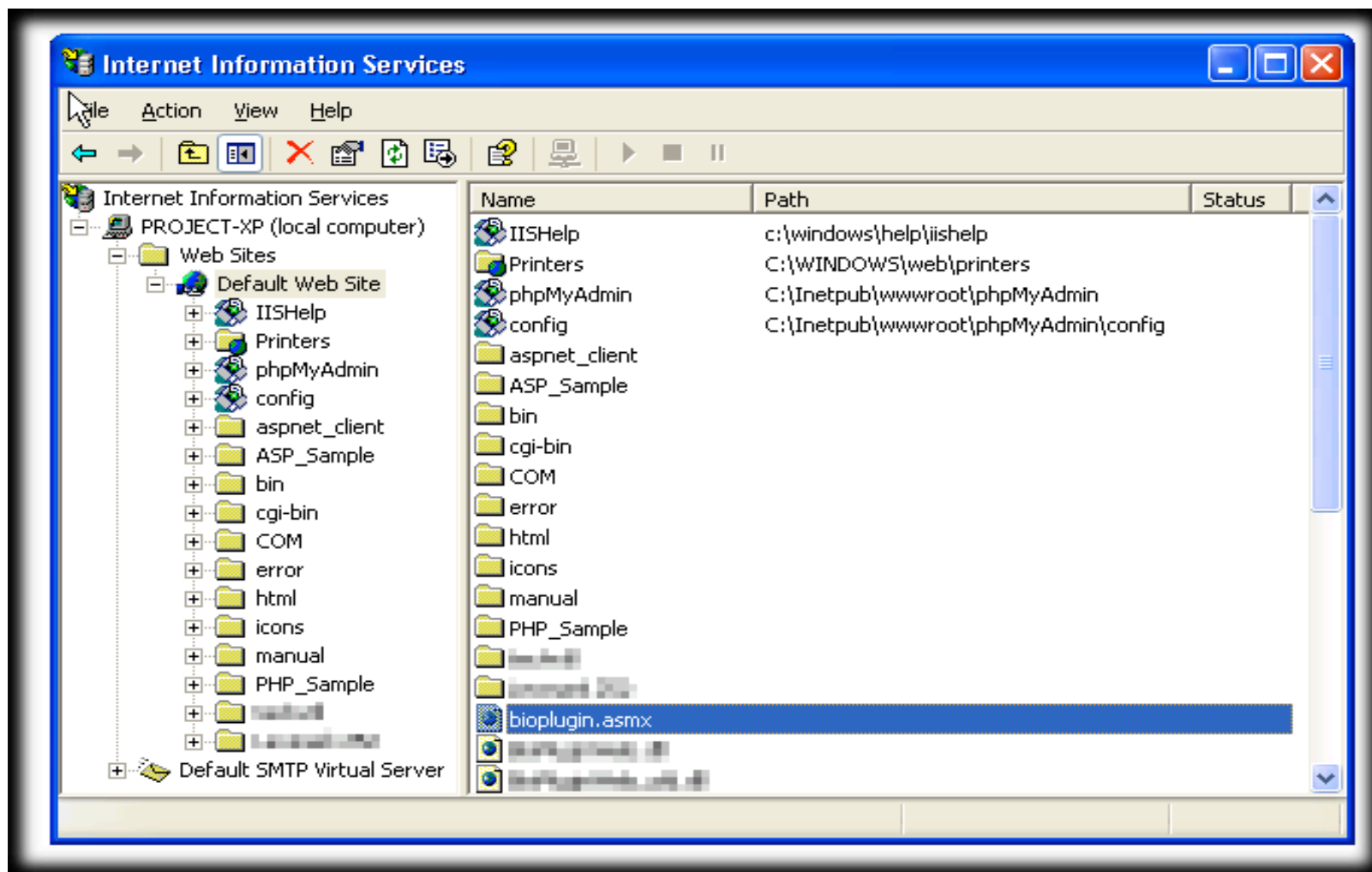
IIS Configuration

1. Ensure that you have there .NET Framework 2.0 installed on your web server, and that your web server's ASP.NET is configured to use the .NET Framework 2.0.

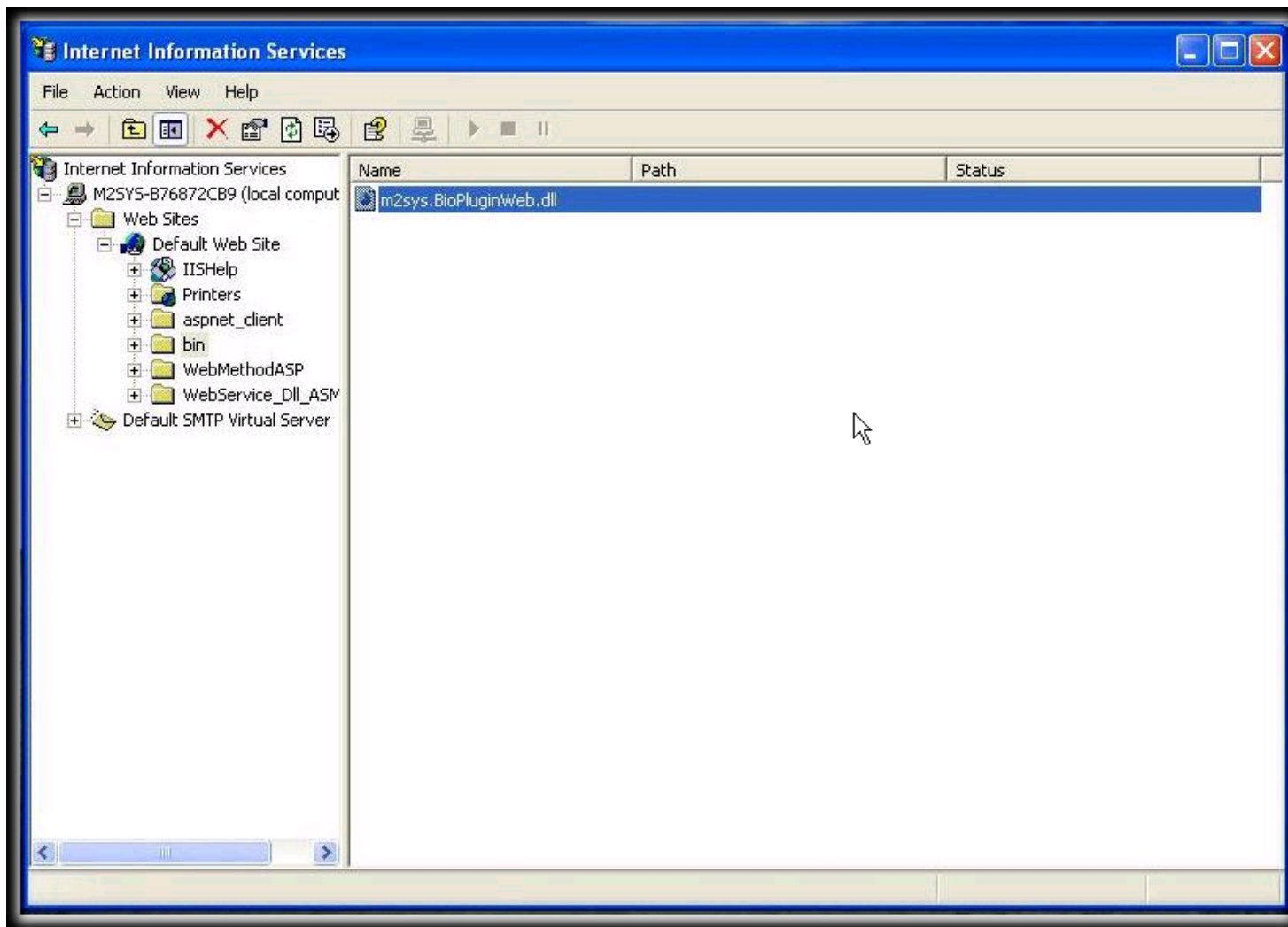
- Open the Windows **Control Panel**
- Open **Administrative Tools**
- Open **Internet Information Services**
- Expand the web server entry under Internet "Information Services"
- Expand the "Web Sites" entry
- Right-click on "Default Web Site" and select **Properties**
- Select the **ASP.NET** tab and confirm the "ASP.NET version" value



1. Copy the .NET webservice file "bioplugin.asmx" from the "wwwroot" folder within the BioPlugin Server installation folder to your IIS web server root folder (e.g. C:\inetpub\wwwroot), or optionally, to any custom application directory.



1. Create a "bin" directory under the directory you copied the webservice file into, and copy the "m2sys.BioPluginWeb.dll" (from the "wwwroot\bin" folder in the BioPlugin Server installation folder) into this "bin" directory.



1. To run the webservice in 64bit IIS server, you need to run the following command from **Inetpub -> AdminScripts.cscript.exe**

```
adsutil.vbs set W3SVC/AppPools/Enable32BitAppOnWin64 true
```

NOTE: You must have the Microsoft .NET Framework version 2.0 (or later) installed for the BioPlugin Server webservice capability to function properly.

When I try the same verification on a Windows Server 2003 platform (32bit), I get the same message trying to invoke the getinfo method:

System.Runtime.InteropServices.COMException: Retrieving the COM class factory for component with CLSID {D5098C20-4E47-4619-B209-43C54A7C0046} failed due to the following error: 80040154.
at BioPluginService.GetInfo()

so I think the problem may not have to do with the IIS app pools. The Win 2003 platform IIS doesn't have the same interface as the 32bit version.

OK.

Please try the following. You need to register a dll.

Go to the server installation folder (default is "C:\Program Files\BioPlugin\WebService\"). Now you will find the "BioPluginWeb.dll".

Run the command prompt (run as administrator), then go to the mentioned location. Use the following command to register the dll.

cmd \> regsvr32 BioPluginWeb.dll (press enter)

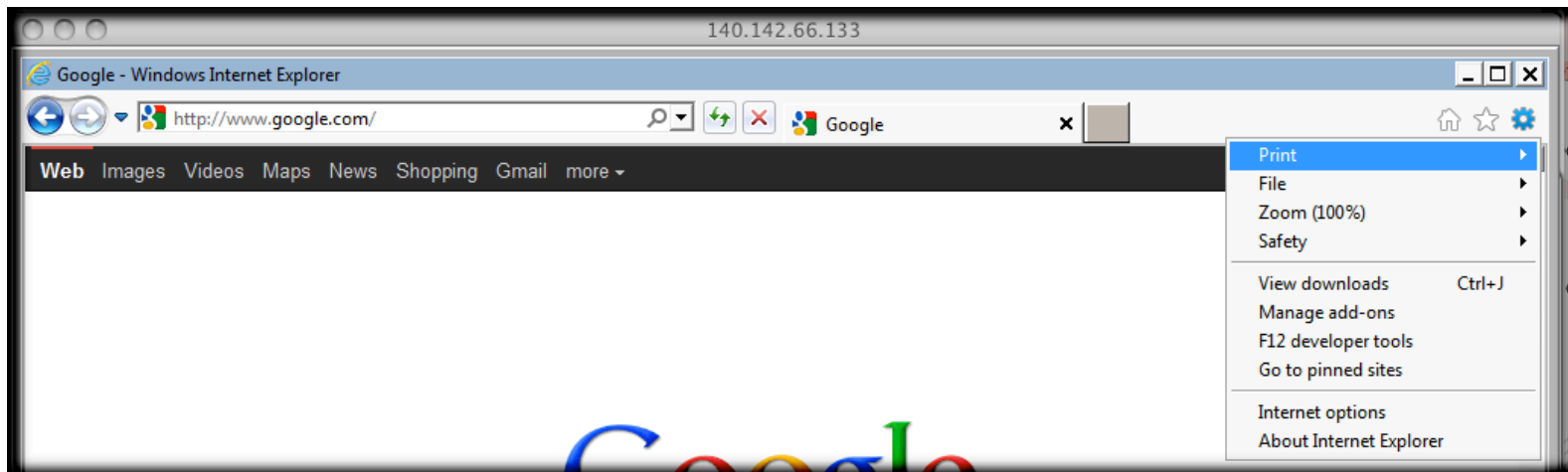
Now bioplugin.asmx will work.

Thanks.

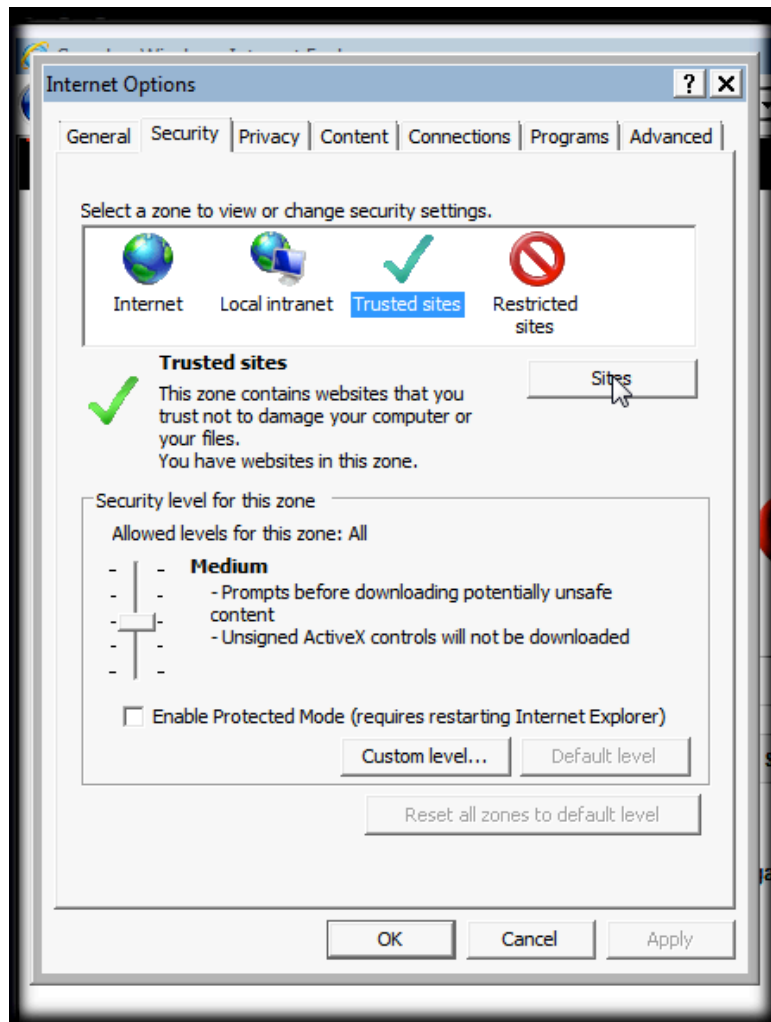
Can't display the active x control:

IE "trusted sites" must include the iSanté server:

Go to IE Menu, Internet Options:



Choose the security tab, trusted sites option:



Click the “Sites” button and add the iSanté server URL to the list:

