



# **Comtarsia Web Gateway 2012**

## **Manual**

Version: 6.0.1.80, May 10, 2013

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# 1. Description

Comtarsia Web Gateway 2012 for Windows

Primary web authentication via password or Smart Card and single sign on for all web applications.

The module Comtarsia SignOn Proxy is used for the LDAP or Active Directory authentication, the module Comtarsia SignOn Agent is used for the automatic User Management and password synchronization for Active Directory, LDAP or Windows System.

Build 6.0.1.80



For more information about the Comtarsia SignOn Solutions, please refer to our homepage:

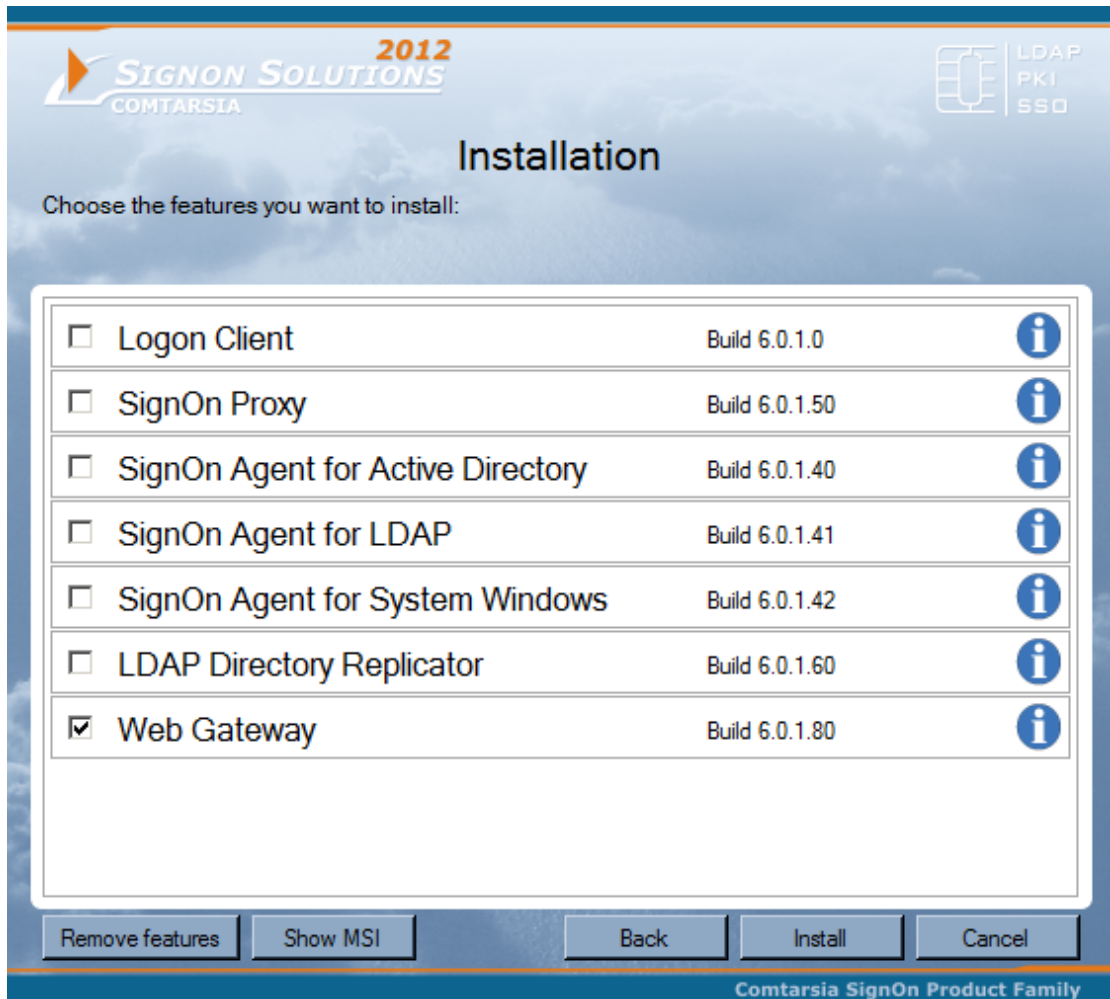
<http://signon.comtarsia.com>

## 1.1 Prerequisites

- Windows Server 2008 X86 und X64 [IIS 7.0]
- Windows Server 2008 R2 X64 [IIS 7.5]
- Windows Server 2012 X64 [IIS 8.0]

## 1.2 Installation

An installation or an update is done using the installation program "SOS2012-6.0.x.4.exe". When updating, the configuration is preserved and the license key will only be replaced if the validity of the installed key is shorter than the validity of the key shipped with the installation program. (Bought license keys usually won't be replaced.)



**Note:** The "Internet Information Server" (IIS) will be restarted during the installation!

Only the files will be copied during the installation. The actual installation is performed via the configuration utility which is started automatically during the installation.

## 1.3 Uninstallation

**Note:** The “Internet Information Server” (IIS) will be restarted during the uninstallation process!

The entire Comtarsia Web Gateway 2012 configuration is removed during the uninstallation process!



## 2. Configuration

All configurations can be done with the "Web Gateway Configurator".

### 2.1 General

The general tab contains global settings

The screenshot shows the 'General' tab of the Web Gateway Configurator. The 'Compression' section has an unchecked 'Enable compression' checkbox and a 'Compression level' dropdown set to '6 Good (default)'. The 'Smartcard user attribute' is set to 'cn' and the 'Logout redirection URL' is '%PROTOCOL%://stw2k3en8.adsdom8.comtarsia.com:%PORT%/A'. The 'Advanced' section has an unchecked 'disable HTTP-KeepAlive' checkbox. The 'Outgoing Connections' section includes 'Max Connections per Server' (HTTP 1.1: 0, HTTP 1.0: 0) and 'Timeouts' (Connect: 0, Send: 0, Receive: 0). The 'Cookies' section has 'Expiration (s): 36000', 'Use session cookie' checked, 'Cookie path: /', 'Cookie domain: adsdom8.comtarsia.com', and 'Use persistent cookie' unchecked.

#### Compression

Compressing the data to the client

#### Smartcard user attribute

This option defines the attribute of the client certificate that contains the username which is utilized for the smart card logon.

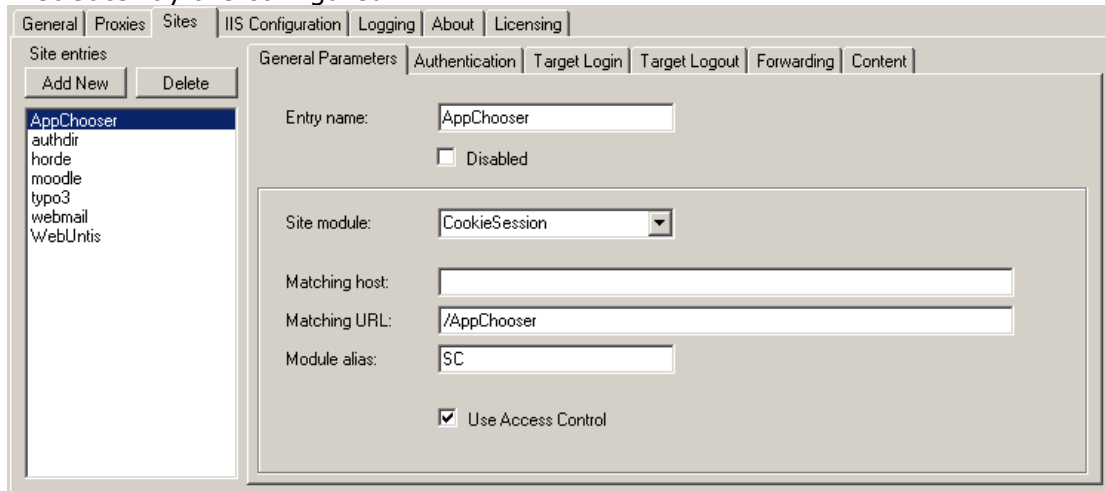
### 2.2 Proxies

Under this tab one or more Comtarsia SignOn Proxy Servers are defined which are used for authentication and password synchronization.

The screenshot shows the 'Proxies' tab of the Web Gateway Configurator. A list of 'Proxy entries' contains 'ProxyLocal'. The 'General Proxy parameters' section includes 'Entry name: ProxyLocal', 'Proxy host: 127.0.0.1', 'Proxy port: 2003', 'SyncPacket TTL: 10', and 'Filter Username:'. The 'SSL/TLS Options' section includes 'TLS CA file: C:\Program Files\Comtarsia\Web Gat ...', 'TLS CA directory: ...', 'TLS certificate file: C:\Program Files\Comtarsia\Web Gat ...', and 'TLS key file: C:\Program Files\Comtarsia\Web Gat ...'. The 'Trust Options' section has 'Certificate OID's' and 'Certificate FQDN' checkboxes, both of which are unchecked.

## 2.3 Sites

Under Sites, the single target applications accessed through the Comtarsia WebGateway are configured.



## 2.4 Site Modules

An application requires an appropriately configured module which handles the user authentication between Comtarsia WebGateway and the respective application.

The following site modules are available:

### 2.4.1 Sync Client

Simple logon and/or password change as well as password synchronization via Comtarsia SignOn proxy server.

This functionality is in each module represented (which supports a logon)  
The "Module alias" supports additionally following get-parameters:

- |              |                                                                                                                         |
|--------------|-------------------------------------------------------------------------------------------------------------------------|
| ?LOGOUT      | Sets logout cookies of all configured applications and redirects the Client to the global "logout" site (global logout) |
| ?SESSIONS    | displays information about all current sessions.                                                                        |
| ?SESSIONINFO | displays information about the current user session.                                                                    |

The module alias is invoked via following URL:

<http://<server>/<MatchingURL>/<ModuleAlias>?<GET-Parameter>>

### 2.4.2 CookieSession

Forwarding of the content of a target page.

Detection of a login page and logon performance using "Sync Clients". Logon information are transmitted via post to the target system.

Detection of a logout page and setting of defines cookies by recognized logout.

### 2.4.3 HTTPAuth

Content forwarding of the target page.

Logon via HTTPAuthentication Header.

#### **2.4.4 CA Service Desk**

As CookieSession, represents however CA Service Desk specific login handling.

#### **2.4.5 Typo3**

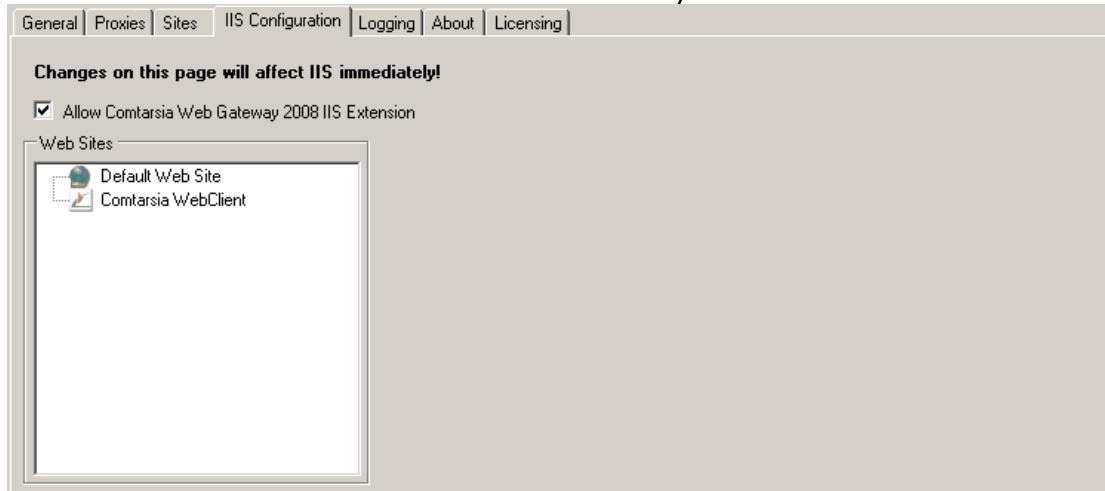
As CookieSession, represent however Typo3 specific login handling.





## 2.5 IIS Configuration

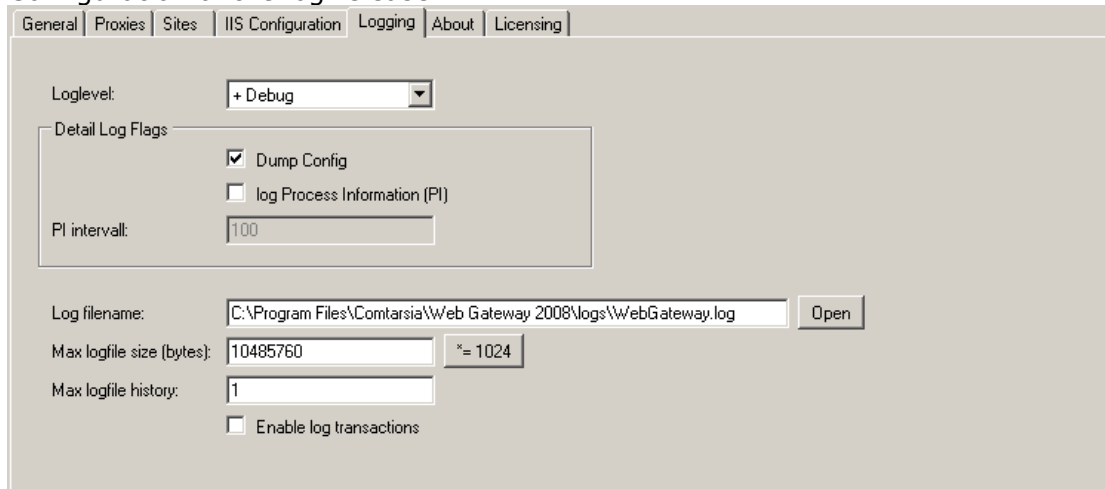
Defines the areas for which Comtarsia WebGateway should be active.



Comtarsia WebGateway can be activated for entire sites or specific areas of the site (virtaul directories).

## 2.6 Logging

Configuration of the log release.

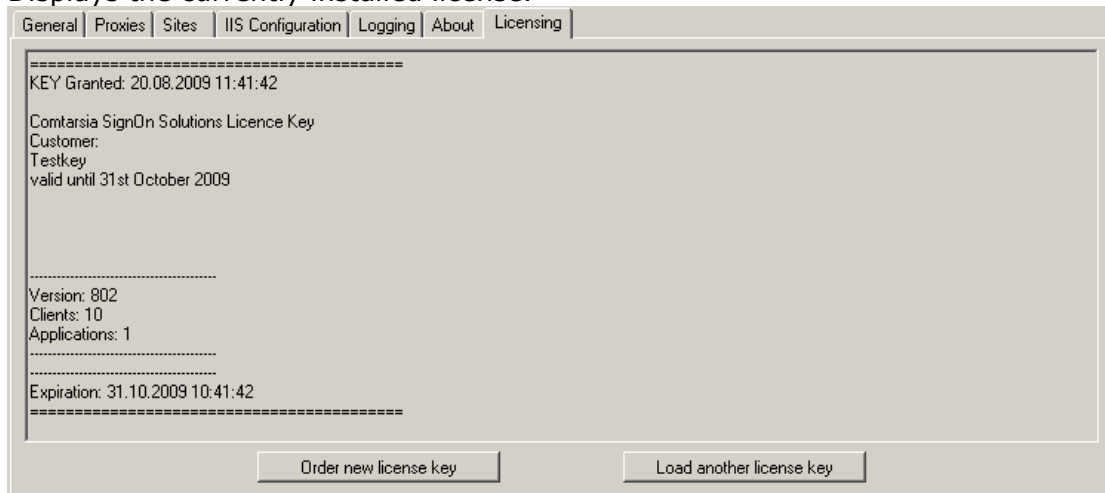


Especially during the configuration phase, extensive log output can be of great help.

However, during normal operation, the log output should be lowered to keep response times to a minimum.

## 2.7 Licensing

Displays the currently installed license.



A new licence key can loaded by using the button "Load another license key".



# 3. Example Configuration

## 3.1 As WebSyncClient

Three configuration steps are necessary to use the Comtarsia Web Gateway 2012 as WebSyncClient. These steps are explained as follows.

### 3.1.1 Comtarsia SignOn Proxy

Configuration of Comtarsia Signon proxy, used for the user synchronization. The SignOn Proxy server configuration is carried out in "Proxies"-tab.

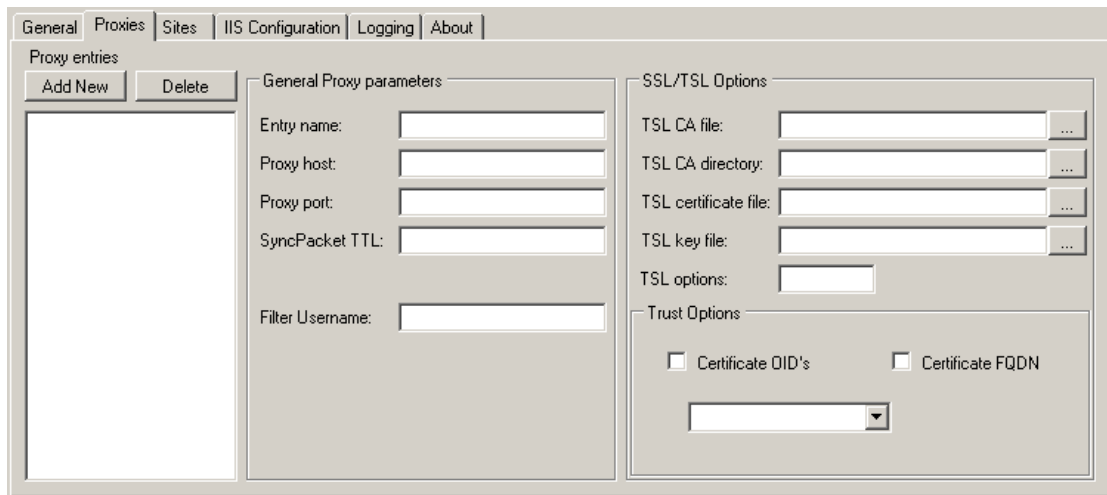


Fig. 1.

A new entry in the list of SignOn Proxy server is inserted by using the button "Add New".

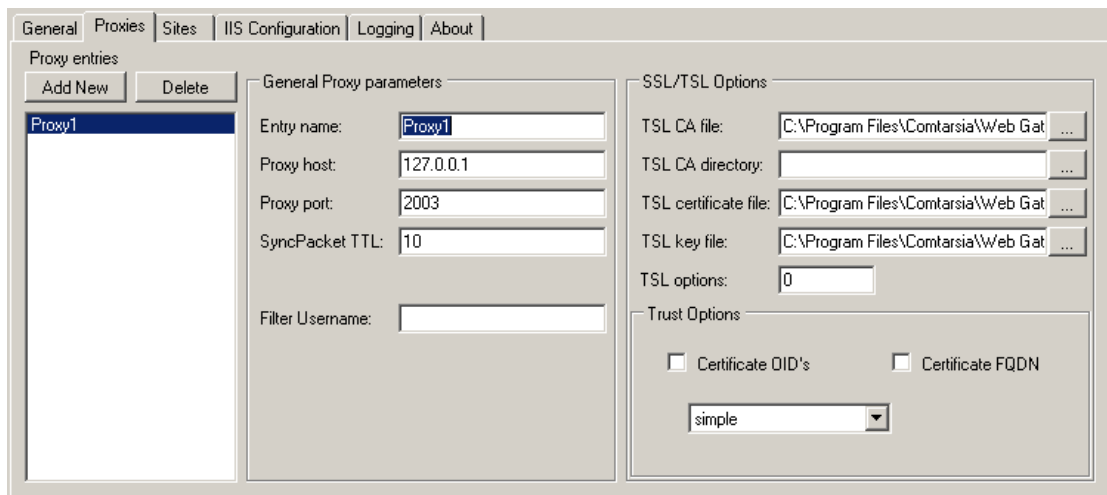


Fig. 2

A new entry receives automatically a randomly generated name, which can be changed in the field "Entry Name".



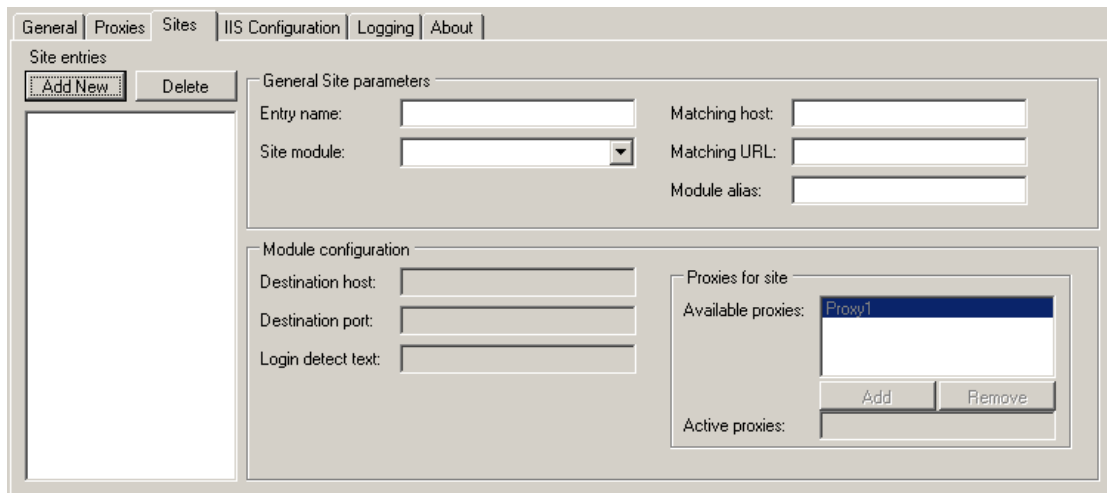
"Proxy Host" defines the IP address or hostname of the SignOn Proxy Server.

"Filter Username" defines one or more initial letters of the user name required to be able to synchronize on the proxy server.

The supplied test certificates are automatically entered under SSL / TLS option and can be adjusted if necessary.

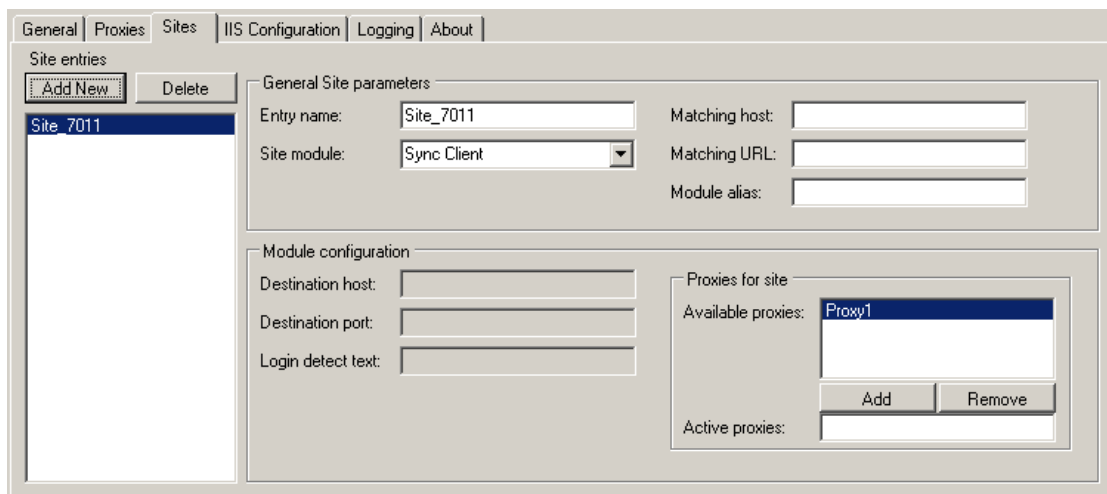
### 3.1.2 Site configuration

The site constitutes a configuration unit to which one or more SignOn Proxy servers can be assigned. If multiple SignOn proxy servers have been assigned to the site, it must be defined using "Filters User Name" (in the proxy configuration) which users are permitted for which proxy. In this illustration of configuration it is assumed that all users utilize the same, thus only one SignOn proxy server for synchronization.



**Fig. 3**

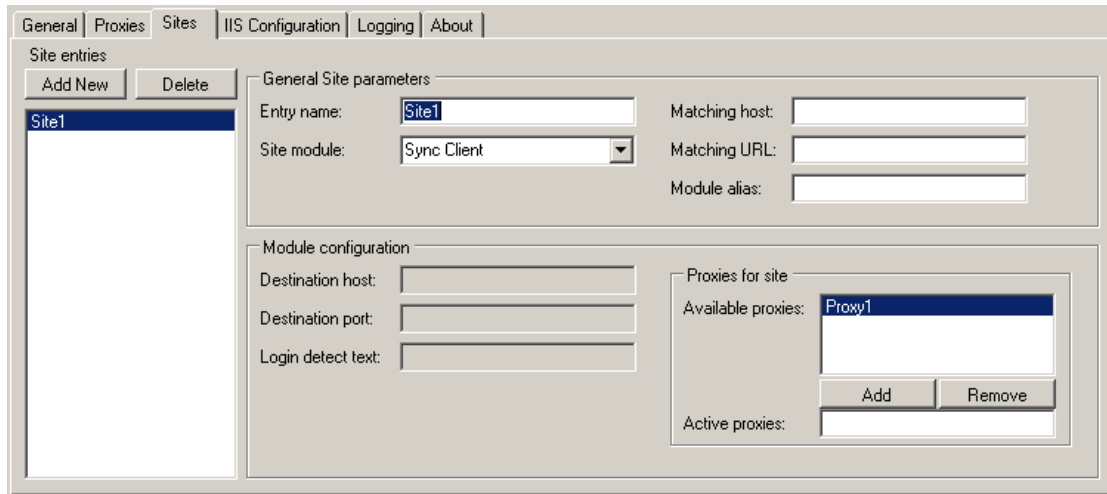
A new default site configuration is created by clicking the button "Add New".



**Fig. 4**



The site automatically gets a random name assigned, which can be modified in the "Entry name" text field.

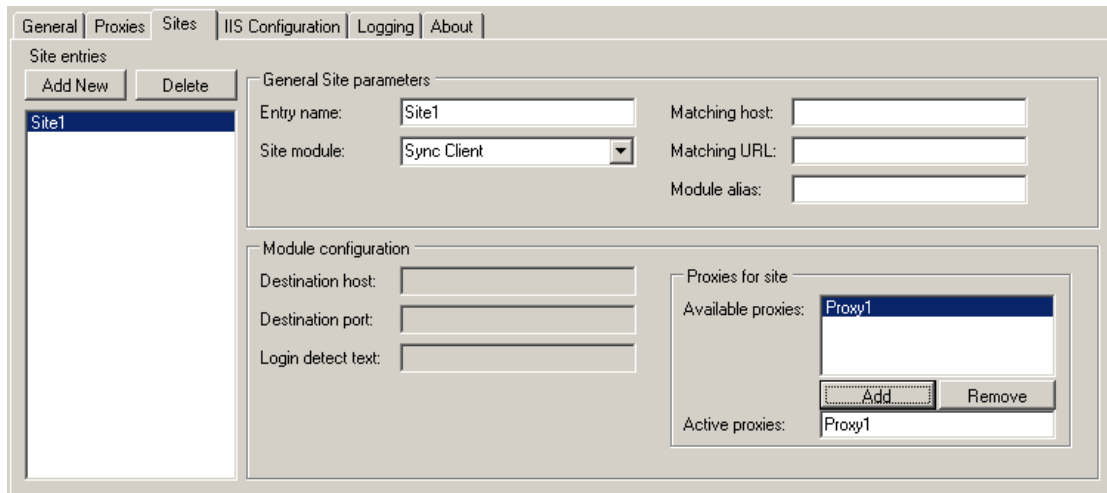


**Fig. 5**

By using the function "Site Modules" an active module for the respective site configuration can be set. In this case, the site module is "Sync Client".

The function "Proxies for site" defines which SignOn proxy server for this site should be activated. For this purpose one selects a proxy from the list of "Available proxies" and clicks the button "Add". By using the "Remove" button the selected SignOn Proxy will be removed from the list of active proxies.

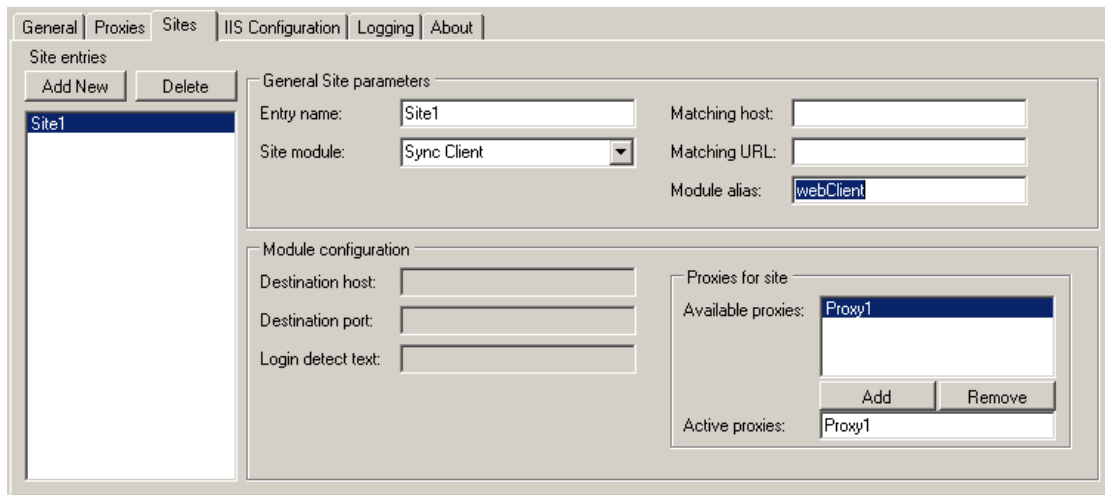
At least one proxy must be assigned.



**Fig. 6**

**Note:** If more than one SignOn Proxy Server is active, no load-balancing or failover is performed, but the "active proxies" are only admitted to this site and the selection of which proxy SignOn eventually will be used for synchronization will be done via the function "Filter Usernames".





**Fig. 7**

If several different site configurations are used, it can be defined by "matching host" and "matching URL" when the respective site configuration will be activated after a request. These values do not define how to access the module, but merely represent a "filter function".

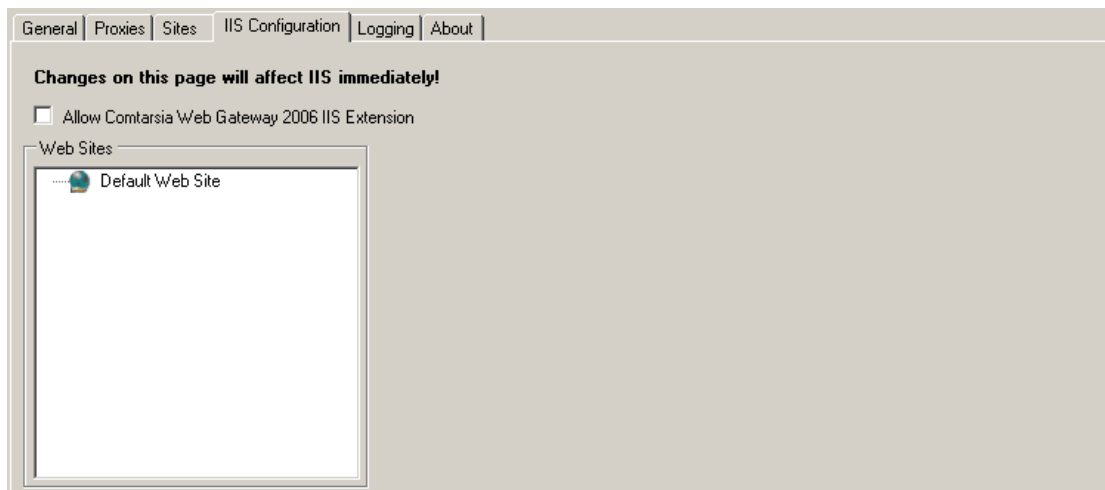
For this configuration example, the two values are simply left blank.

In addition, also a "Module Alias" can be defined, which is used to invoke ISAPI module. The "Module Alias" can be entered instead of the ISAPI DLL (see also IIS configuration).

### 3.1.3 IIS configuration

The Comtarsia Web Gateway 2012 module for IIS can be enabled in the tab "IIS Configuration" and assigned to the respective sites.

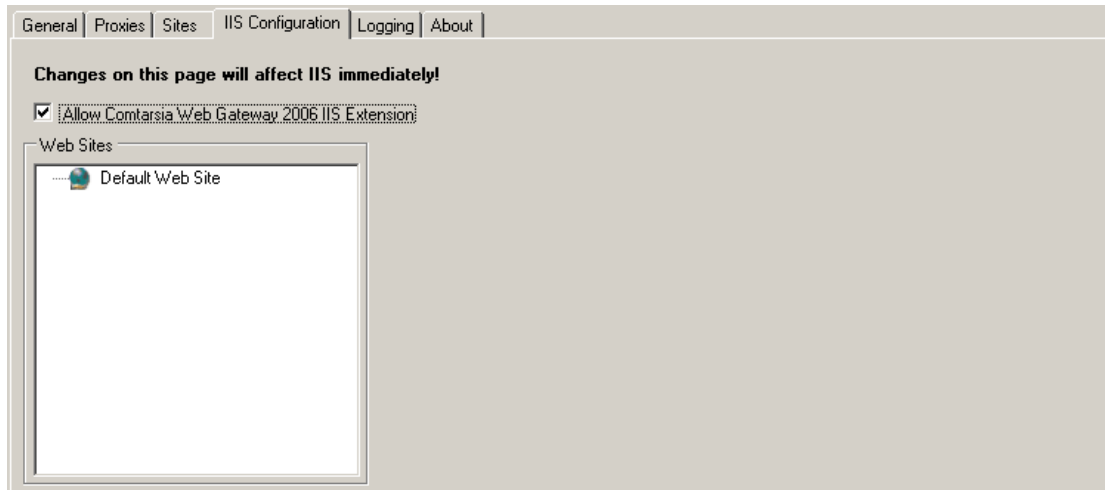
**Note:** changes on this page are instantly active.



**Fig. 8**

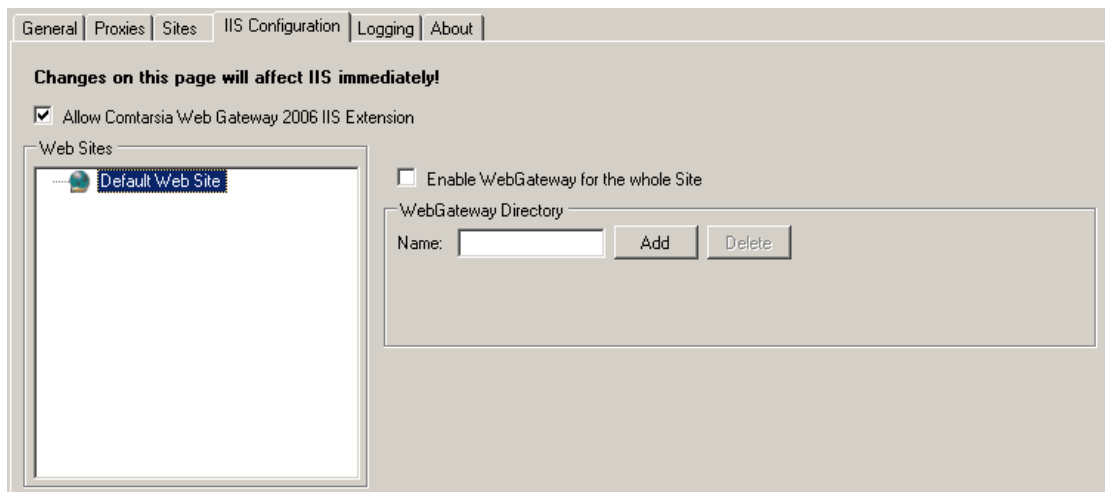
In general, to be able to use the Comtarsia Web Gateway 2012, it must be registered in IIS as "allowed Web Service Extension". This is done by check box "Allow Comtarsia Web Gateway 2012 IIS extension".





**Fig. 9**

The web sites configured in IIS are illustrated in the field "Web sites".

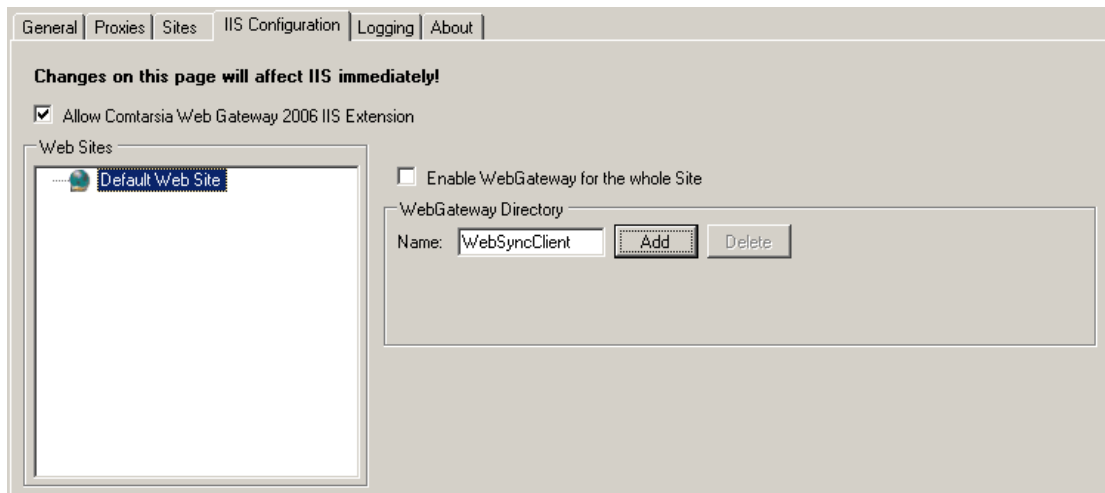


**Fig. 10**

By selecting one IIS web site, configuration options are shown. In the most cases, it is sufficient to create a "Virtual Web Gateway Virtual Directory". For this purpose, enter the path under "Web Gateway Directory -> name" (see Figure 10).

E.g. WebSyncClient

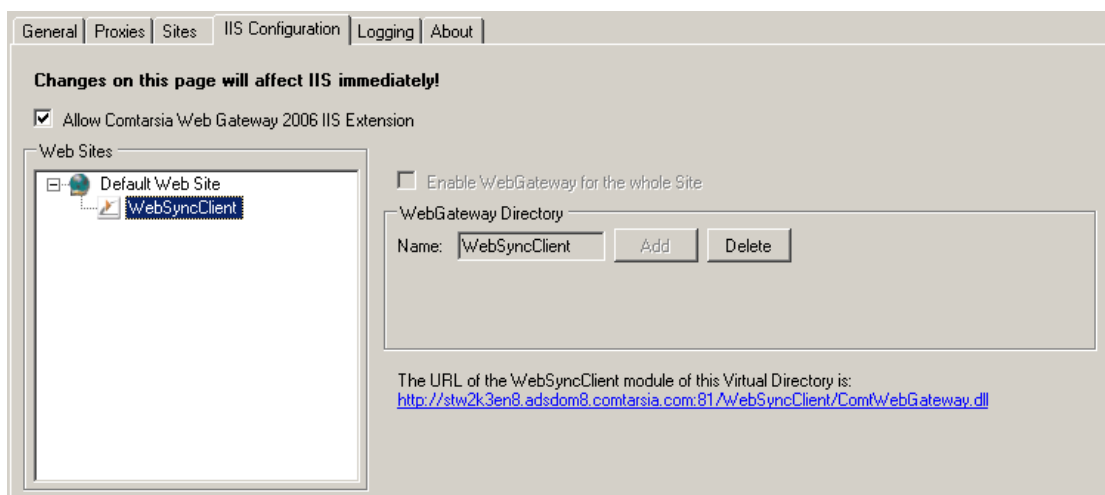




**Fig. 11**

This virtual directory is configured via the button "Add" for the selected IIS Web site.

**Note:** Functions which require direct access to IIS modules have to be created as virtual directory, e.g.: Web Sync Client, SOAP interface, status side.



**Fig. 12**

The module will be then available under:

http(s)://<site-host:port>/<Web Gateway Directory>/ComtWebGateway.dll

In the case that also a "module alias" for the site is defined (see [Configuration of the site](#)), the module can be additionally be invoked under:

http(s)://<site-host:port>/<Web Gateway Directory>/<Module Alias>

In order to facilitate the tracing, a valid URL will be detected by means of IIS configuration. This URL is shown on the right side when configured virtual directory is selected.

**Note:**

Although the "Comtarsia web gateway 2012 " IIS Extension is already activated in IIS at this point, also the "Web gateway "configuration has to be undertaken by means of the "Apply " button.



Via the indicated URL the module can be displayed and the configuration be tested.



## 4. The SOAP interface

The SOAP interface enables incorporating the functionality of the Comtarsia Web gateway 2012 Sync Client module into its own applications.

The file "ComtWebGateway.dll" functions at the same time as SOAP server. The module has to be directly available in order to be able to use the SOAP interface, attainable. This is possible by creating a "Virtual Web gateway directory" over the tab "IIS Configuration". If necessary, additional alias for the access to "the ComtWebGateway.dll" -module in tab "Site configuration" can be created. This can be useful if existing SOAP applications apply to fix URL.

### 4.1 Requirements

It must be possible to access ISAPI DLL of the Comtarsia Web gateway over HTTP directly (corresponds to the virtual Web gateway directory in the IIS tab). A SOAP client API has to be available for the development.

Some development environments are delivered by default with SOAP support, or can be extended with simple means with a SOAP API (e.g.: PHP, .NET, Java)

The WSDL<sup>1</sup> document, which is used for the automated creation of the WebSyncClient SOAP interface, can be invoked over the following URL:  
`http://<server>[:port]/<virtual directory>/ComtWebGateway.dll?WSDL`

The WSDL document describes the available functions, parameters and restoration values.

1. Abb. WSDL = Web Services Description Language.

### 4.2 Web Gateway 2012 SOAP definitions

```
ComtarsiaWebSyncClient cwsc = new ComtarsiaWebSyncClient();
SyncResponse_1 sr = cwsc.doSync_1(USERNAME, PASSWORD, NEWPASSWORD,
LOGON_DOMAIN, ACTION);
```

```
// Values for Action
#define ACTION_AUTHENTICATE          0
#define ACTION_PWD_CHANGE           1

// Return values for "sr.status":
#define E_SUCCESS                    0x0
#define E_ILLEGAL_REQUEST            0x10
#define E_SYNC_TIMEOUT               0x11
#define E_SYNC_USER                   0x12
#define E_AUTHENTICATION              0x13
#define E_COMMUNICATION               0x14
// LastErr ERRORCODES return value is always E_RETVAL_SUCCESS
#define E_INTERNAL                    0x200
#define E_NETWORK                     0x100
```



```

// Error Codes:
// Wrong COMT_RSA version
#define E_LASTERR_COMT_RSA_VERSION (E_INTERNAL + 1)

// Error reading registry values
#define E_LASTERR_REGISTRY (E_INTERNAL + 2)

// Unknown Smem FLAG value
#define E_LASTERR_UNKNOWN_FLAG_VAL (E_INTERNAL + 3)

// Wsastartup problem
#define E_LASTERR_WSASTARTUP (E_INTERNAL + 4)

// Proxy and ComtSyncClient encryption types do not match
#define E_LASTERR_ENCRYPTION_TYPE (E_INTERNAL + 5)

// RSA aquire context error
#define E_LASTERR_RSA_AQUIRE_CTX (E_INTERNAL + 6)

// Some error with an RSA KEY ocured
#define E_LASTERR_KEY (E_INTERNAL + 7)

// PROXY name can not be resolved
#define E_LASTERR_RESOLVING_PROXY (E_NETWORK + 1)

// Connect problem to PROXY
#define E_LASTERR_CONNECT (E_NETWORK + 2)

// Receive error
#define E_LASTERR_RECEIVE (E_NETWORK + 3)

// Send error
#define E_LASTERR_SEND (E_NETWORK + 4)

// Socket creation problem
#define E_LASTERR_SOCKET_CREATION (E_NETWORK + 5)

// Header check failed illegal or not expected message header
#define E_LASTERR_ILLEGAL_MSG_HEADER (E_NETWORK + 6)

```



```

// Return values for "sr.statusAuth":
/* comt_ldap return values */
#define COMT_LDAP_RC_SUCCESS 0x00
#define COMT_LDAP_RC_ERROR 0x01
#define COMT_LDAP_RC_WRONG_PWD 0x02
#define COMT_LDAP_RC_PWD_EXPIRED 0x03
#define COMT_LDAP_RC_PWD_POLICY_VIOLATION 0x04
#define COMT_LDAP_RC_USERID_REVOKED 0x05
#define COMT_LDAP_RC_USERID_UNDEFINED 0x06
#define COMT_LDAP_RC_NO_SUCH_OBJECT 0x07
#define COMT_LDAP_RC_WRONG_VERSION 0x11
#define COMT_LDAP_RC_MISSING_DATA 0x12
#define COMT_LDAP_RC_UNSUPPORTED 0x13

/* comt_ldap communication error return code */
#define COMT_LDAP_RC_COM_ERROR 0x1A

/* ietf error codes and warnings */
#define COMT_LDAP_RC_IETF_WARN_EXPIRE 0x20
#define COMT_LDAP_RC_IETF_WARN_GRACE 0x21

/* ietf error codes have to start at offset
COMT_LDAP_RC_IETF_ERROR_START because they are directly mapped */
#define COMT_LDAP_RC_IETF_ERROR_START 0x30
#define COMT_LDAP_RC_IETF_ERROR_EXPIRED 0x30
#define COMT_LDAP_RC_IETF_ERROR_ACC_LOCKED 0x31
#define COMT_LDAP_RC_IETF_ERROR_CHG_RESET 0x32
#define COMT_LDAP_RC_IETF_ERROR_NO_MOD 0x33
#define COMT_LDAP_RC_IETF_ERROR_NEED_OLD_PWD 0x34
#define COMT_LDAP_RC_IETF_ERROR_INVALID_SYNTAX 0x35
#define COMT_LDAP_RC_IETF_ERROR_PWD_TOO_SHORT 0x36
#define COMT_LDAP_RC_IETF_ERROR_PWD_TOO_YOUNG 0x37
#define COMT_LDAP_RC_IETF_ERROR_PWD_IN_HISTORY 0x38

// Return values for "sr.domains[i].status":
#define E_SYNC_SUCCESS 0x1
#define E_SYNC_ERROR 0x2
#define E_NO_SYNC_AGENT 0x4
#define E_SP_PROXY_TIMEOUT 0x8
#define E_SP_AGENT_TIMEOUT 0x10
#define E_SP_AUTHENTICATION 0x20

// Return values for "sr.domains[i].action":
#define SA_USER_ENABLED 0x1
#define SA_USER_PW_SET 0x2
#define SA_USER_DELETED 0x4
#define SA_USER_CREATED 0x8
#define SA_USER_GRP_ADDED 0x10
#define SA_USER_GRP_DELETED 0x20
#define SA_USER_OU_MOVE 0x40
#define SA_USER_INFO_UPDATED 0x80

```



## 4.3 Java SOAP-Client development example

For the SOAP Client development examples, the following components are necessary:

- JDK 6 with Update 5 (SE)  
<http://java.sun.com/javase/downloads>
- Apache Axis 1.2 RC3  
[http://www.apache.org/dyn/closer.cgi/ws/axis/1\\_2RC3](http://www.apache.org/dyn/closer.cgi/ws/axis/1_2RC3)
- Comtarsia development examples for Axis  
[http://www2.comtarsia.com/public/wg2006\\_soap/devel-axis-1.2.zip](http://www2.comtarsia.com/public/wg2006_soap/devel-axis-1.2.zip)  
or
- Apache Axis2 1.3  
[http://ws.apache.org/axis2/download/1\\_3/download.cgi](http://ws.apache.org/axis2/download/1_3/download.cgi)
- Comtarsia development examples for Axis  
[http://www2.comtarsia.com/public/wg2006\\_soap/devel-axis2-1.3.zip](http://www2.comtarsia.com/public/wg2006_soap/devel-axis2-1.3.zip)

Between "Apache Axis "and "Apache Axis2 " there are some differences, why two different archives are provided, which compensate the changes primarily in the batch files in order to keep their actual application as simple as possible. Nevertheless, an additional step must be accomplished for "the Apache Axis2" example.

The Java source code of the supplied example functions as it follows:  
an invoke syntax is issued in case of an invalid number of command line parameters.

If you specify 2 parameters the first is used as a "user name" and the second as "password" to send a sync request to the "Web Gateway 2008 Comtarsia SOAP interface". Subsequently, the result is displayed in the command line.

If you specify 3 parameters, the third parameter is used as "new password". In this case the sync request to the "Web Gateway 2008 Comtarsia SOAP interface" has also set "change password" flag, as well as the "new password" field is filled accordingly. Subsequently, the result is displayed in the command line.

### 4.3.1 Preparation

- Installation of JDK 6  
For the installation of JDK 6 should the instructions of the installation program be followed.

- When using the Apache Axis toolkit
  - Installation Apache Axis

If the Apache Axis toolkit is used, it is sufficient to extract the downloaded archive. For example: c: \ java \ axis-1\_2RC3

The batch files of the development example set the "Java class path "according to the configuration in the" vars.bat " during the execution.



It is recommended for further use to copy all ".jar"-files from Axis\lib directory into "<JDK-installation path>\jre\lib\ext". Hence, sharing of the class path is no longer necessary.

- Preparing the "Comtarsia SOAP development example for Axis"

Unpack the archive into a separate directory.

eg: c:\Java\devel-axis2-1.3

Configure the paths in the vars.bat

- When using the Apache Axis2 toolkit

- Installation Apache Axis

Unpack the archive. For example to: c:\Java\axis2-1.3

Subsequently, copy obligatory all ".jar" files from the Axis2\lib directory into "<JDK-installation path>\jre\lib\ext" in order to make the supplied APIs available for Java.

- Preparing the "Comtarsia SOAP development example for Axis"

Unpack the archive into a separate directory.

eg: c:\Java\devel-axis2-1.3

Configure the paths in the vars.bat

### 4.3.2 Application

So far the steps were followed as described in the chapter "Preparation", there is no distinction necessary between "Apache Axis toolkit" and "Apache Axis2 toolkit".

The variables in the file "vars.bat" have to be set according to the configuration. Subsequently, it is enough to perform the appropriate step by executing each batch file.

First are SOAP basis classes of the "Comtarsia Web Sync Client SOAP" created by using "createClasses.bat".

These are generated by Axis or Axis2 respectively and are saved in a directory structure according to the namespaces.

Subsequent execution of the "buildSample.bat" creates a "comtSOAP.java" by the supplied data in the development example in "data" directory and the URL set in the "vars.bat", and compiles in consequence the generated Java source file.

The file "runSample.bat" is used to execute the compiled "comtSOAP.class", and presents to these the specified parameters.

The syntax is as follows:

```
runSample.bat <Username> <Password> [NewPassword]
```



## 5. Manual IIS configuration

This description is only for reference purposes. For normal Web Gateway usage, all needed steps are done with the Web Gateway Configurator.

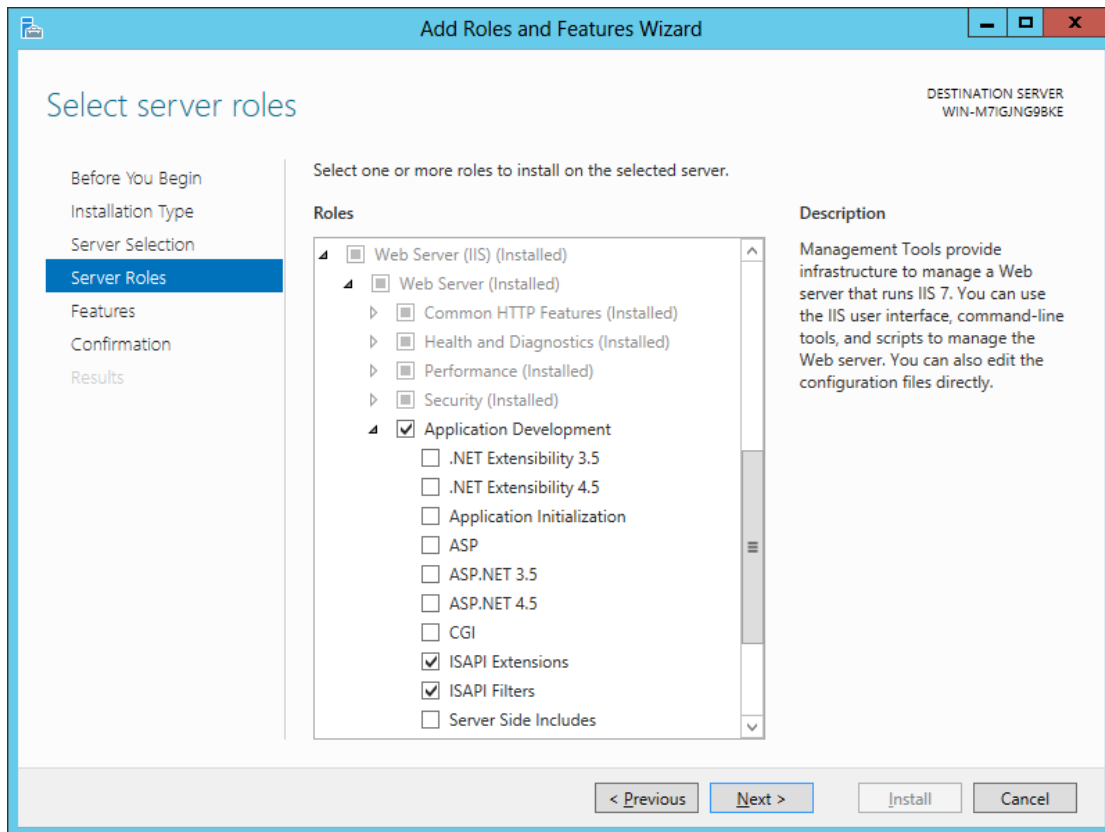
### 5.1 Prerequisites

The Comtarsia WebGateway 2012 is an ISAPI module filter extension.

The following IIS Server Roles have to be enabled (additionally to the default selection) to allow proper configuration and operation of the Comtarsia WebGateway 2012.

Under: Web Server (IIS) → Web Server → Application Development →

- ISAPI Extensions
- ISAPI Filters

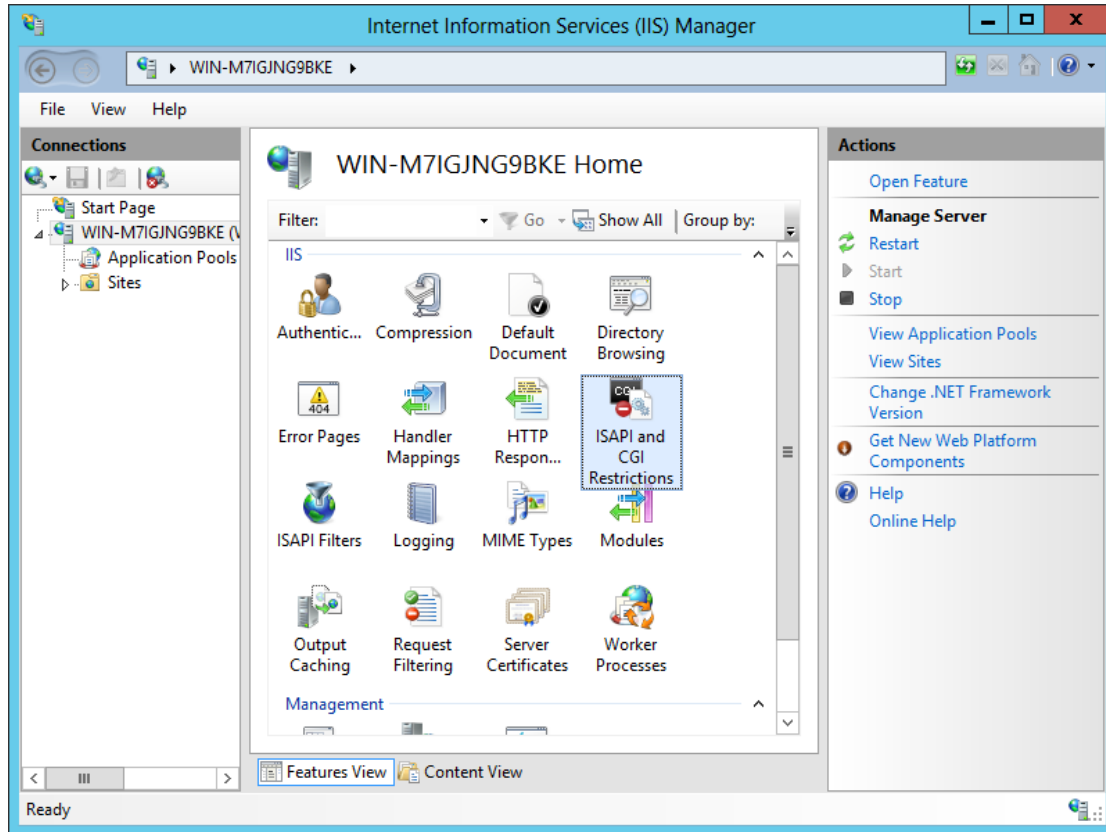


The Comtarsia WebGateway 2012 can be configured to work within virtual directories, or to be active for a whole IIS site.

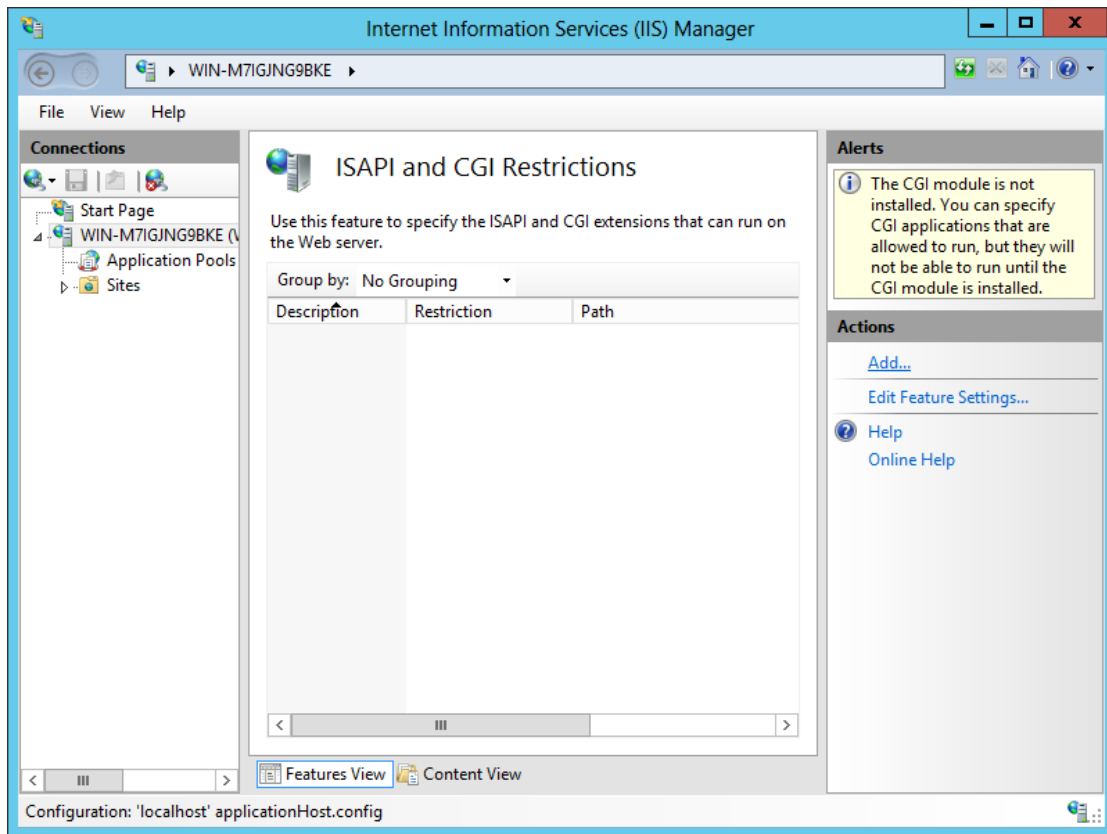
Either of those options requires the Comtarsia WebGateway 2012 ISAPI module to be added as an "allowed ISAPI module" to the ISAPI and CGI Restrictions list of the IIS server.

## 5.2 ISAPI and CGI Restrictions entry

Open the Internet Information Services (IIS) Manager and navigate to the root entry of this IIS instance. (It is the entry with the hostname)  
Open the ISAPI and CGI Restrictions page.

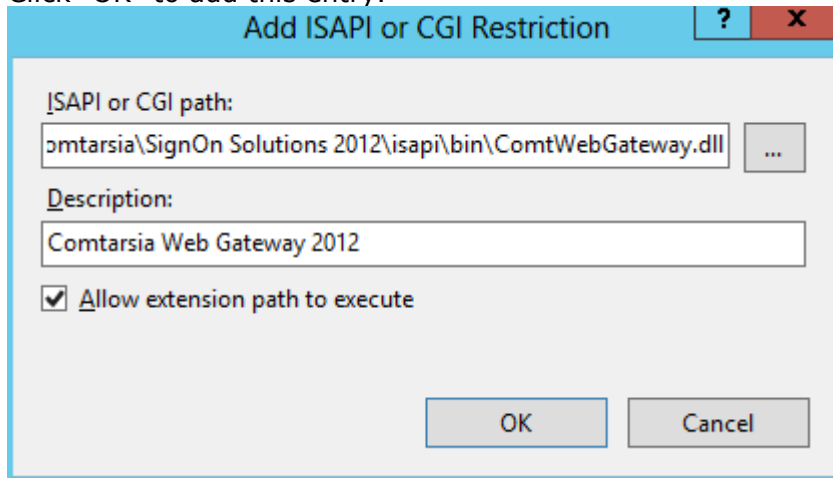




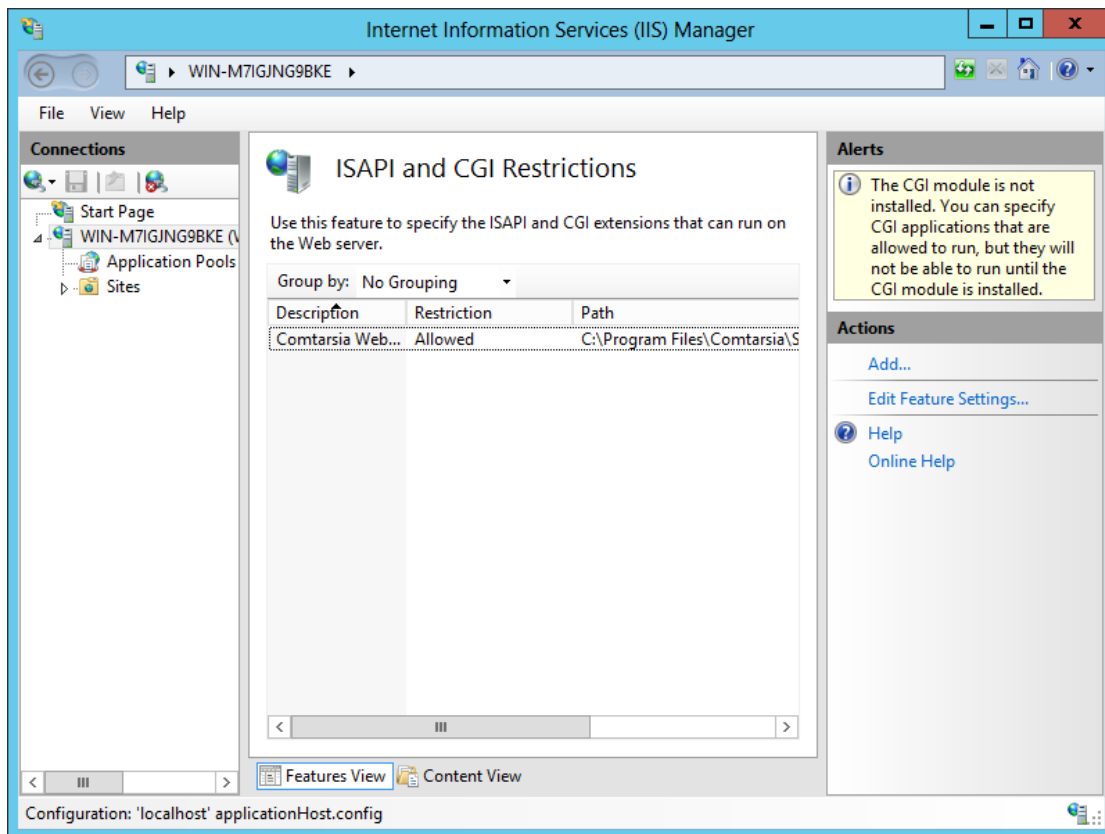


Right click into the view and select to add a new ISAPI or CGI Restriction.

Insert the path to the "ComtWebGateway.dll", set the description to "Comtarsia Web Gateway 2012", and enable "Allow extension path to execute". Click "OK" to add this entry.



The Comtarsia WebGateway 2012 module is now allowed to be execute by the IIS.



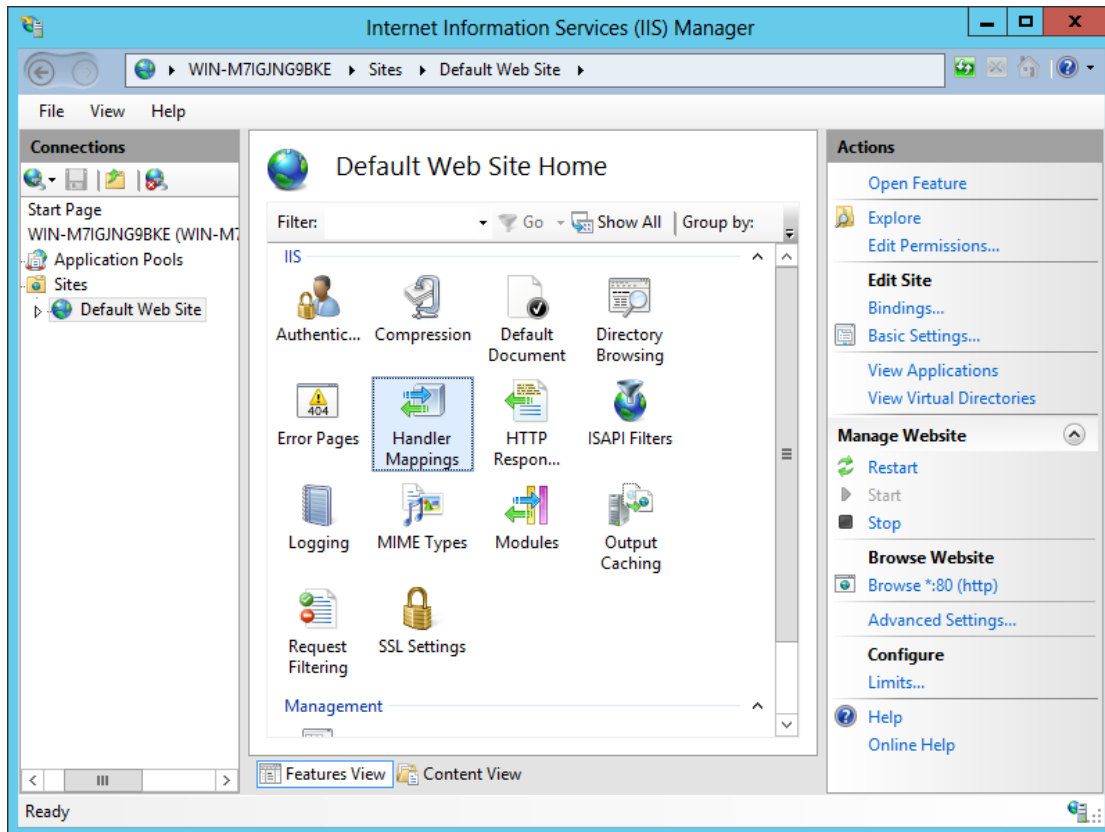
Now it's time to activate it by enabling it for a whole site, or adding a virtual directory for it.



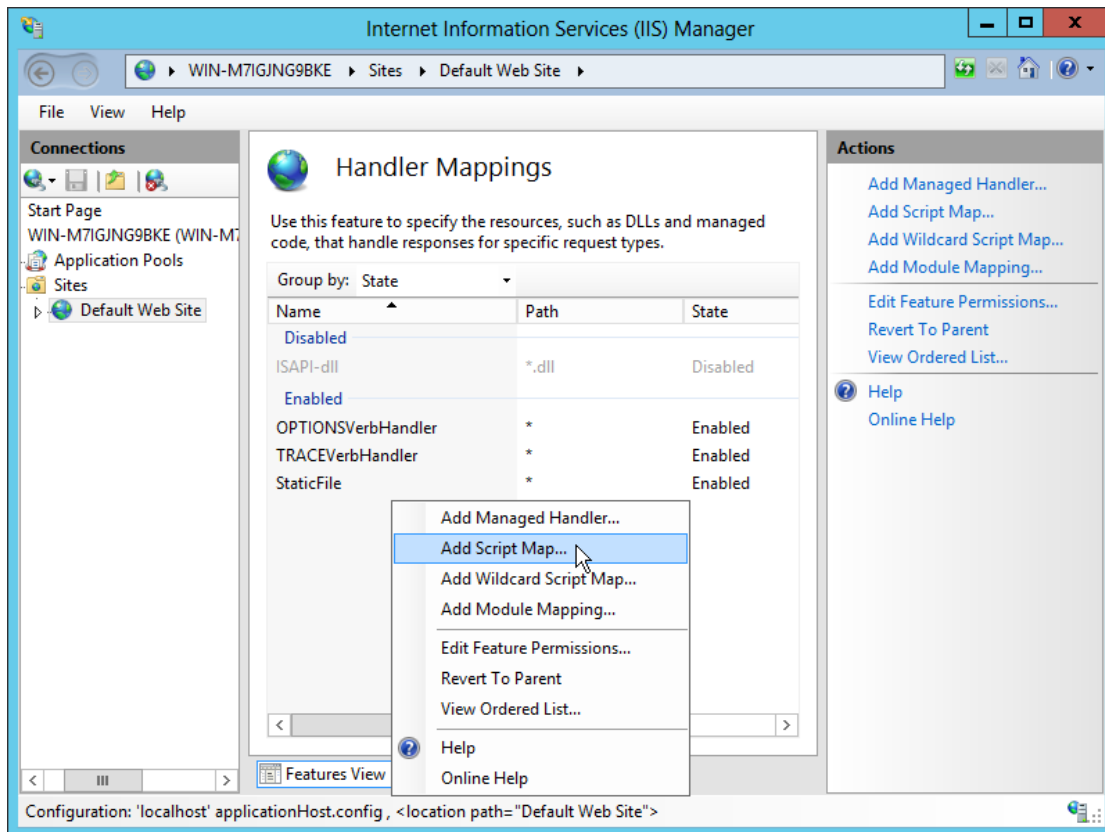
## 5.3 Whole Site Configuration

If the Comtarsia WebGateway 2012 module is enabled for a whole site, it will handle all requests to this site.

Start the Internet Information Services (IIS) Manager and navigate to a configured Site. (e.g. Default Web Site) Open the "Handler Mappings" page.



Right-click into the view and select "Add Script Map...".



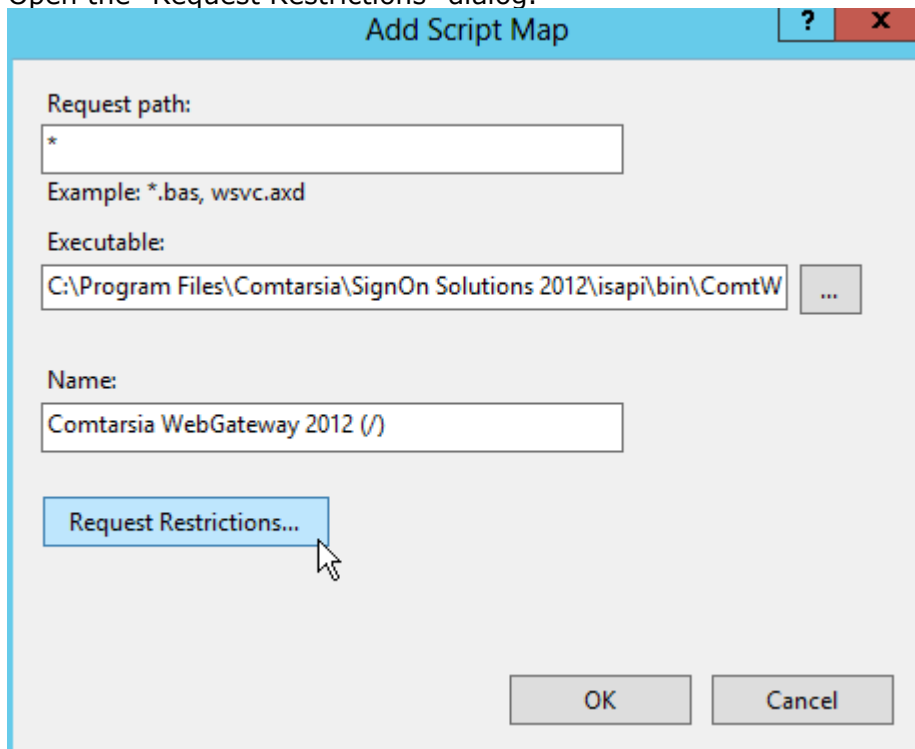
Fill in the following Values:

Request path: \*

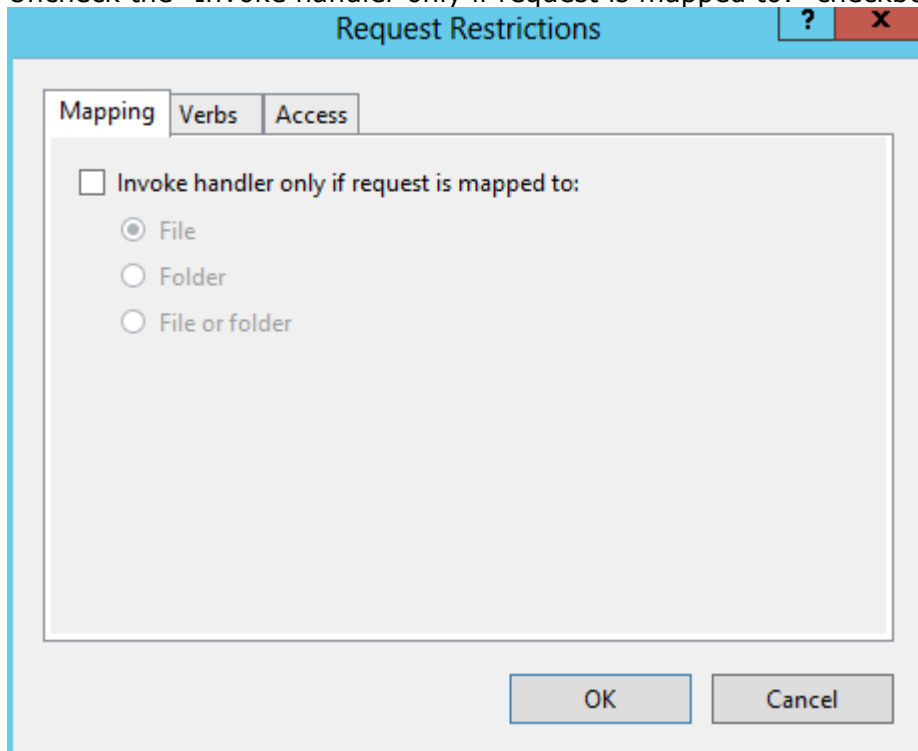
Executable: enter the path to the "ComtWebGateway.dll".

Name: Comtarsia WebGateway 2012 (/)

Open the "Request Restrictions" dialog.

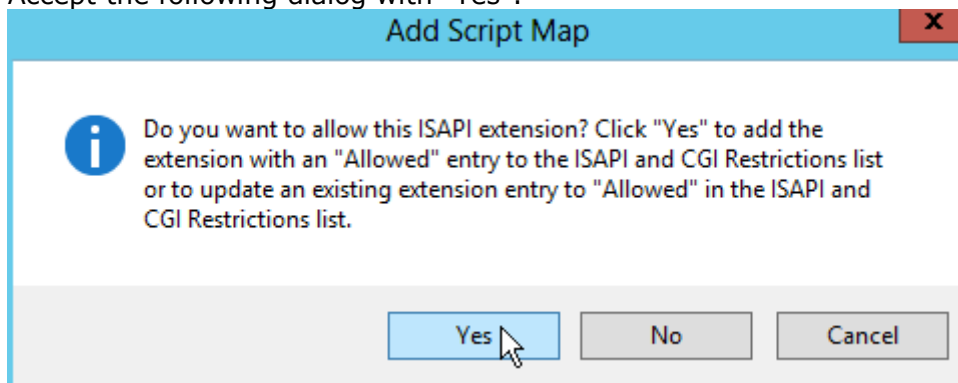


Uncheck the "Invoke handler only if request is mapped to:" checkbox.



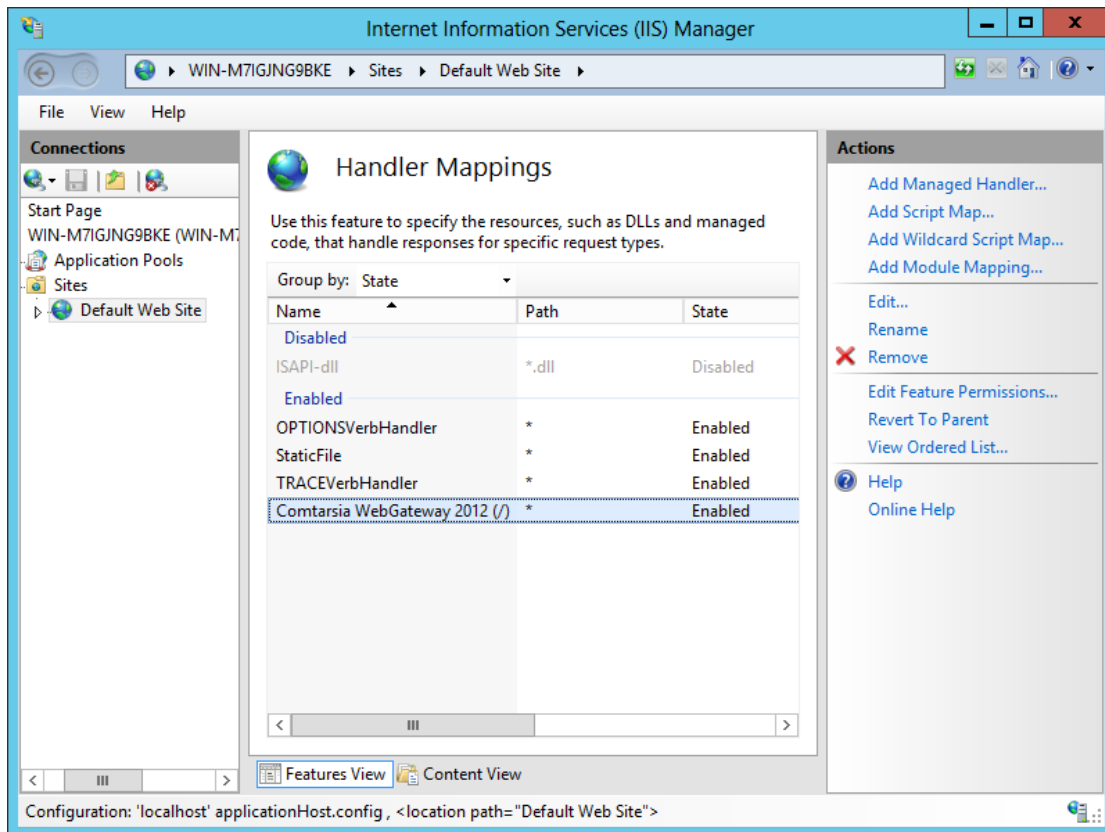
Submit both dialogs with "OK".

Accept the following dialog with "Yes".



The Comtarsia WebGateway 2012 module is now active for the whole site.

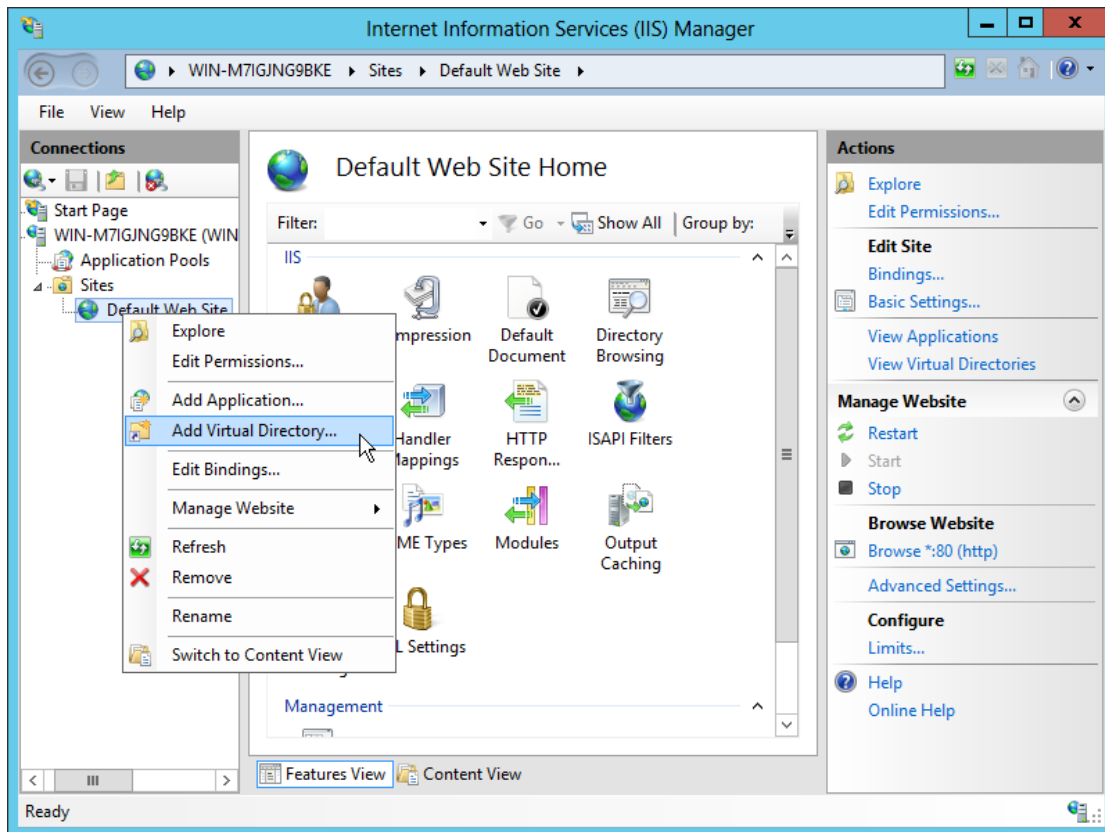




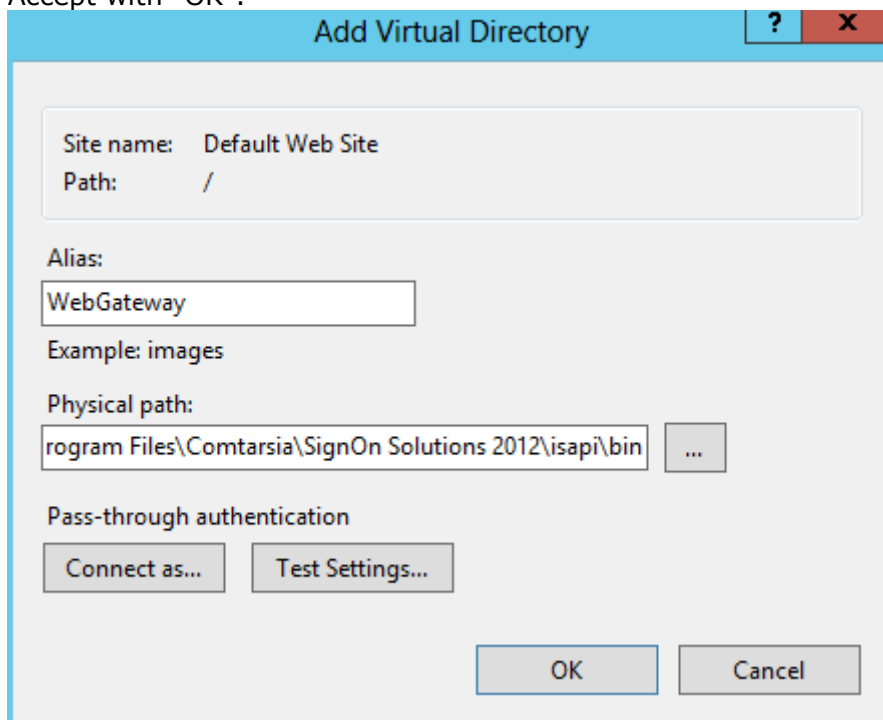
## 5.4 Virtual Directory Configuration

Alternatively, a virtual directory can be configured to handle Comtarsia WebGateway 2012 requests. In this case, the Comtarsia WebGateway 2012 module is active only for the created directory. Multiple virtual directories can be created, however, the Comtarsia WebGateway 2012 won't be able to handle any requests outside of these directories.

Right click on an IIS site and select "Add Virtual Directory..."

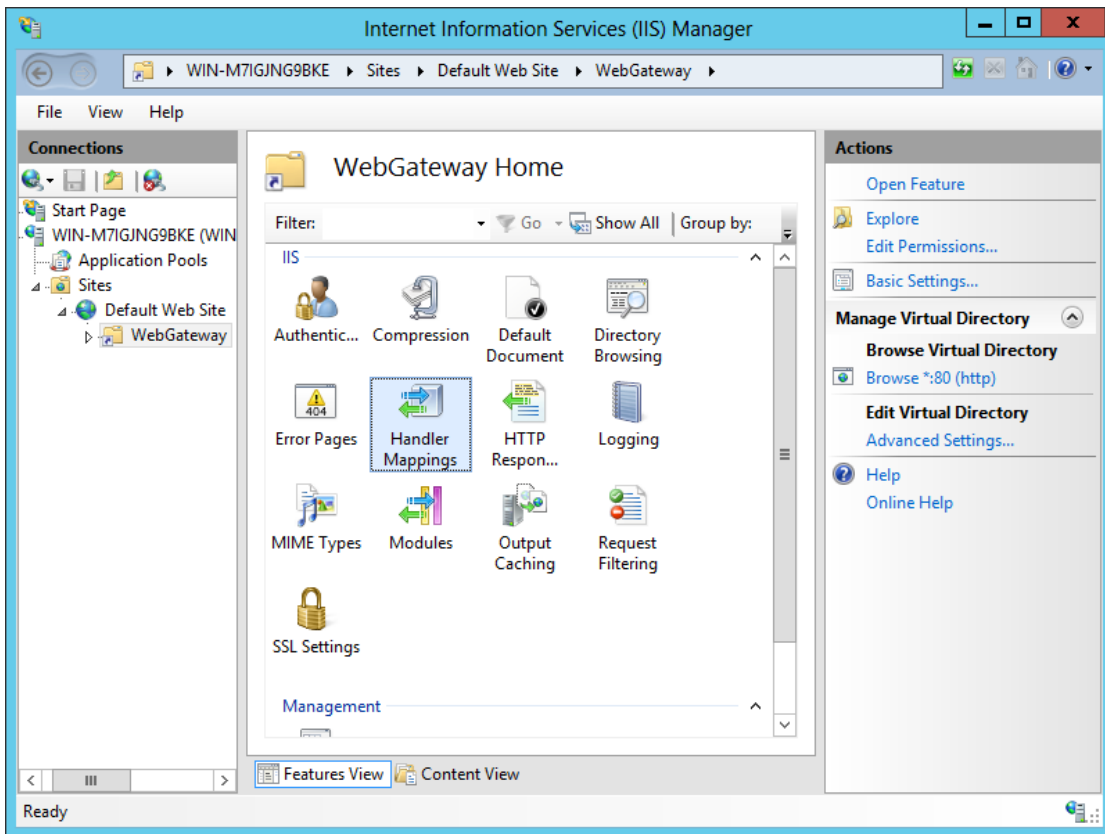


Enter the desired alias (name of the virtual directory) and set the physical path to the path of the Comtarsia WebGateway 2012 ISAPI-bin directory. Accept with "OK".

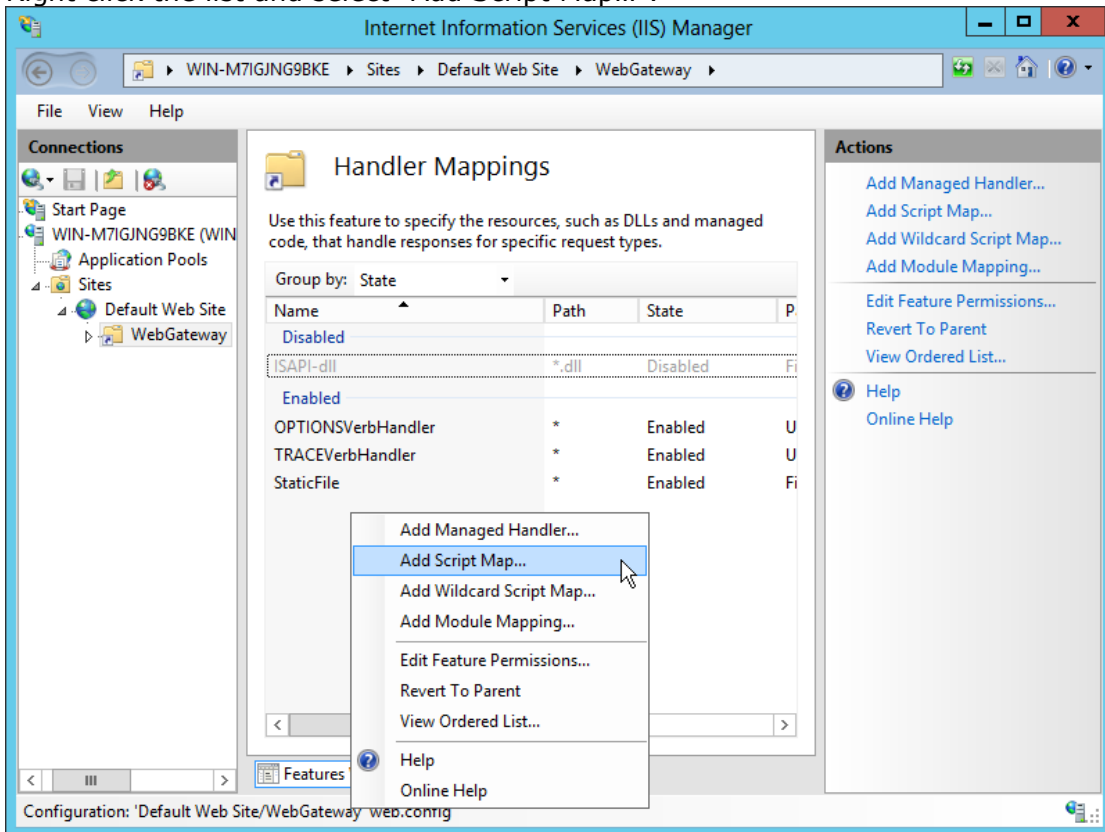


Select the created virtual directory and open the "Handler Mappings" page.





Right click the list and select "Add Script Map...".





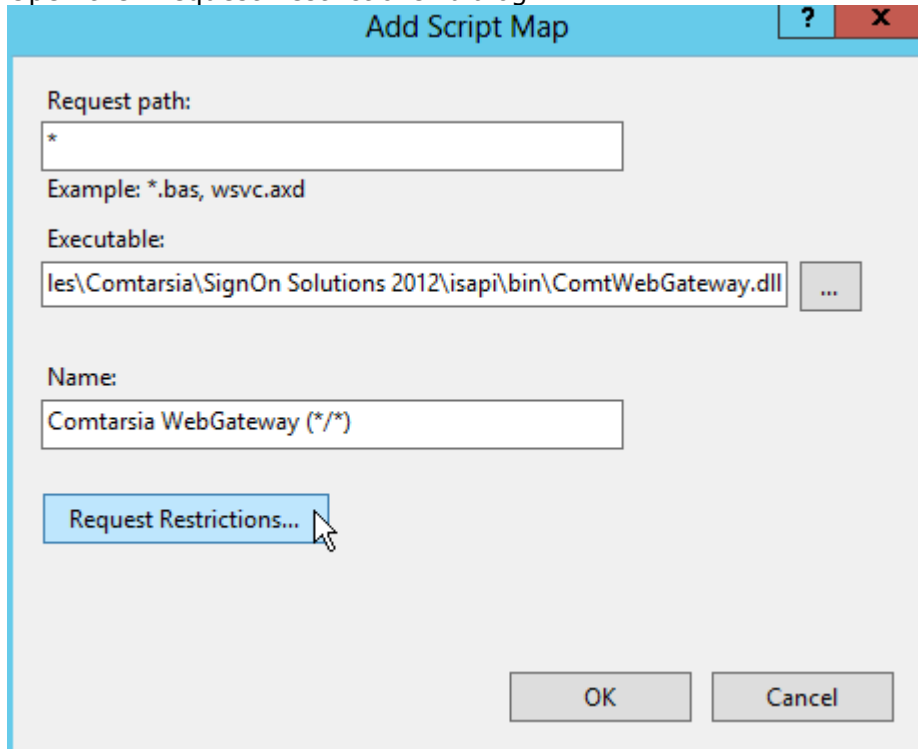
Fill in the following Values:

Request path: \*

Executable: enter the path to the "ComtWebGateway.dll".

Name: Comtarsia WebGateway 2012 (/)

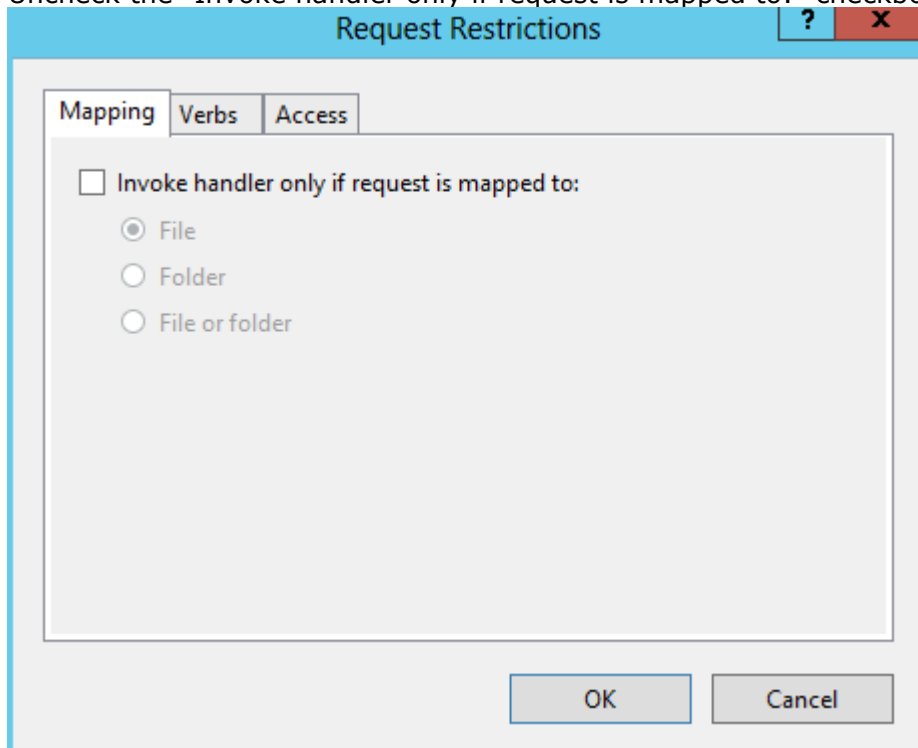
Open the "Request Restrictions" dialog.



The screenshot shows the "Add Script Map" dialog box. It has a title bar with a question mark and a close button. The dialog contains the following fields and controls:

- Request path:** A text box containing the asterisk (\*). Below it, an example is shown: "Example: \*.bas, wsvc.axd".
- Executable:** A text box containing the path "Ies\Comtarsia\SignOn Solutions 2012\isapi\bin\ComtWebGateway.dll" and a browse button (...).
- Name:** A text box containing "Comtarsia WebGateway (\*/\*)".
- Request Restrictions...:** A button with a mouse cursor pointing to it.
- OK** and **Cancel** buttons at the bottom right.

Uncheck the "Invoke handler only if request is mapped to:" checkbox.

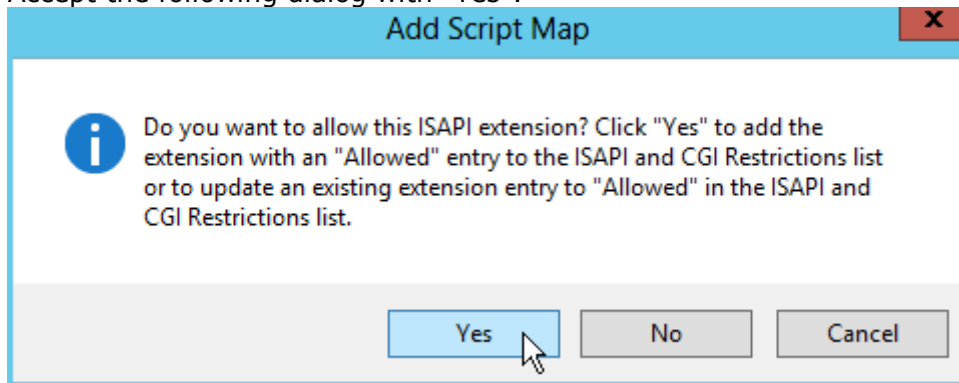


The screenshot shows the "Request Restrictions" dialog box. It has a title bar with a question mark and a close button. The dialog has three tabs: "Mapping", "Verbs", and "Access". The "Mapping" tab is selected. The dialog contains the following controls:

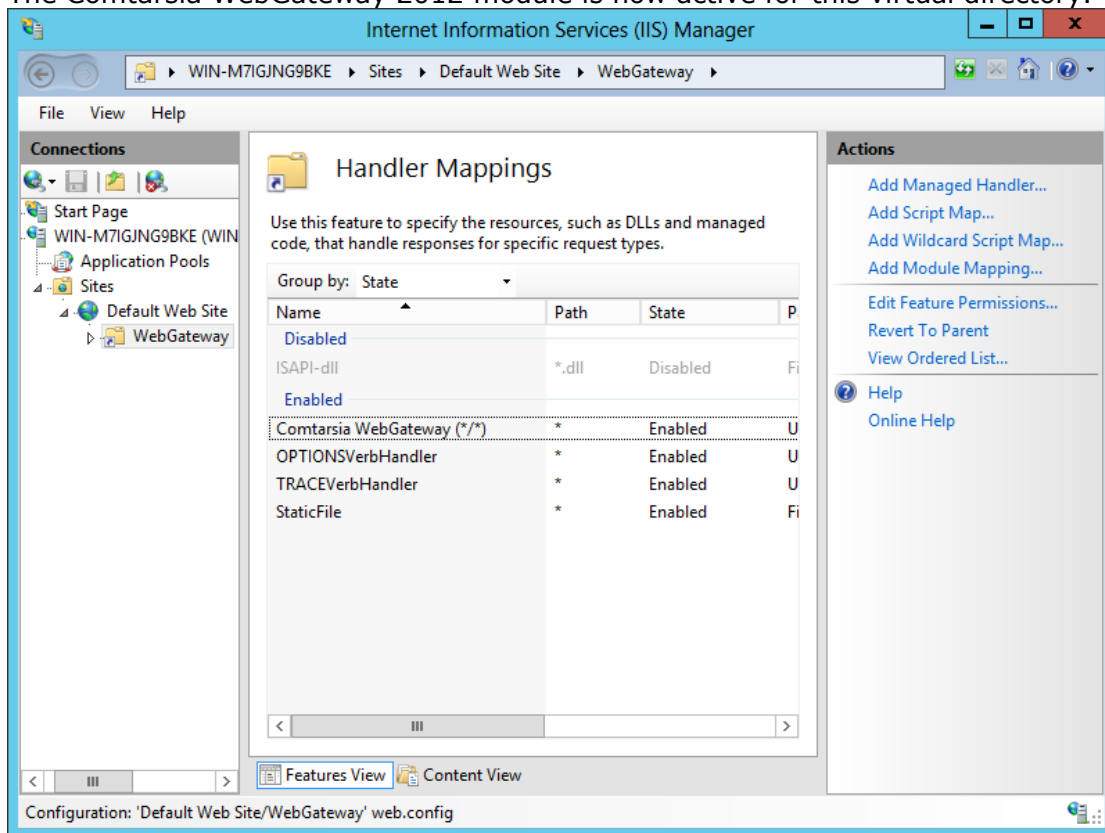
- Invoke handler only if request is mapped to:** A checkbox that is currently unchecked.
- File:** A radio button that is selected.
- Folder:** A radio button that is unselected.
- File or folder:** A radio button that is unselected.
- OK** and **Cancel** buttons at the bottom right.

Submit both dialogs with "OK".

Accept the following dialog with "Yes".



The Comtarsia WebGateway 2012 module is now active for this virtual directory.



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