



iBrowse

Manual Installation

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Installation Guide
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Introduction

About This Guide

This guide is intended to show implementers and authorized/responsible IT personnel how to install iBrowse on the Windows 2008 Server operating system. There are separate sections for manual and automatic installations.

iBrowse Overview

iBrowse enables employees and managers to access data for review and to perform transactions. Access to information is predefined and controlled according to authorization levels, so only information that is relevant and necessary is made available. By providing self-service capabilities to employees, managerial and HR department intervention is drastically reduced to save time and cost, and to increase productivity.

iBrowse provides the following features and benefits:

- Direct retrieval of information to eliminate the need to involve HR and payroll departments
- Independent data updates, subject to an authorization process, for a more efficient workflow
- Automated requests to enable employees and managers to submit and approve requests, such as vacation leave, thus saving valuable time and resources.

Pre-requisites

The following must be done **by the customer** prior to your arrival at the customer, or prior to the pre-installation procedures.

- Ensure that the customer has provided for the correct hardware requirements specified in the documentation for all applications to be installed.
- Ensure that the customer installs **IIS** (Internet Information Services) and **Component Services** on the server.
- Ensure that the customer installs **.NET Framework 2 Service Pack 2** on the server.

Defining the iBrowse Authenticated User

Before you begin the installation setup, define the Windows user.

One Server Configuration							
Privileges in Installation Process				Privileges After Installation			
COM	TK	TKSQL	IIS	COM	TK	TKSQL	IIS
Admin	Admin	Admin	Admin	User	User	User	User

It is critical to have all required configuration settings defined before you under your installation. As a "best practice", enter your configuration settings in a worksheet like the one below as a prerequisite to beginning the installation procedure.

Distributed Server Configuration	
Privileges in Installation Process	Privileges After Installation

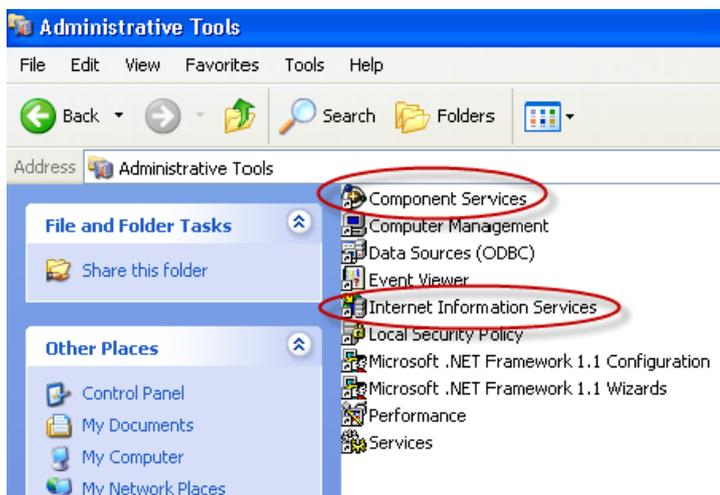
Manual Installation

This section describes manual installation procedures.

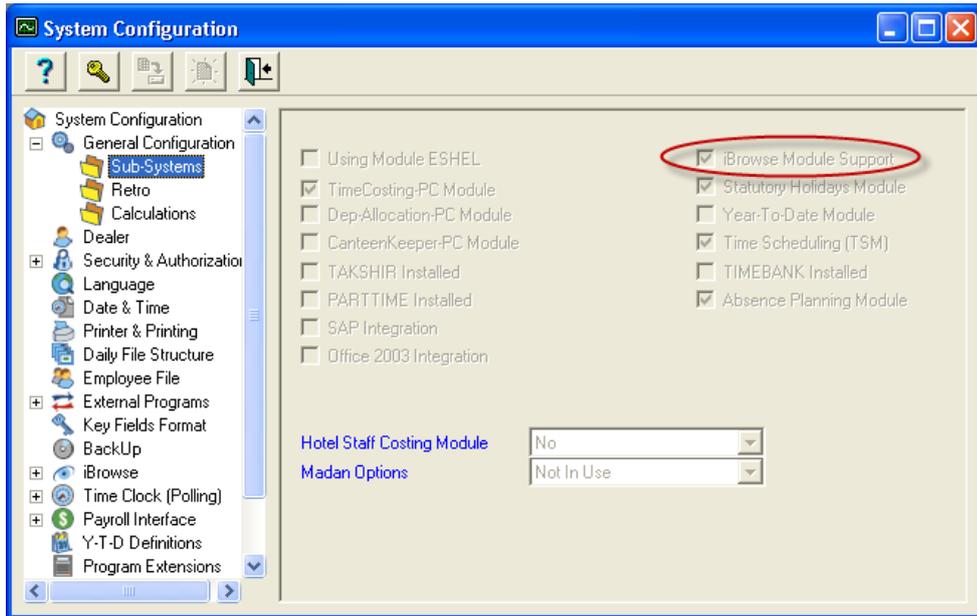
Pre-installation Procedures

Before you install iBrowse, you must do the following:

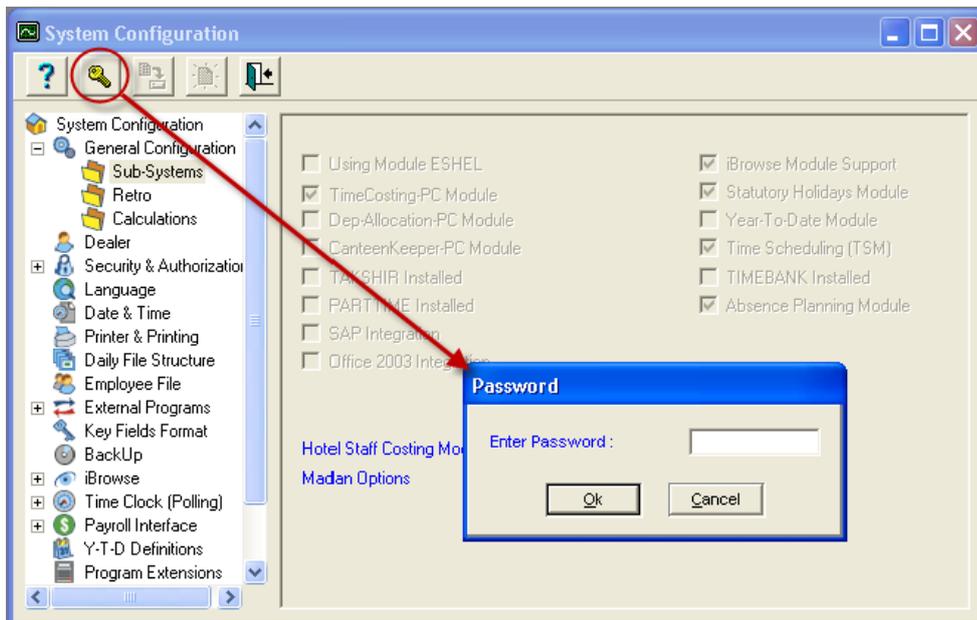
1. Ensure that TKSQL is updated to the most recent version.
 - a. Verify by opening TKSQL; the version is displayed on the title bar.
 - b. If TKSQL is not updated to the most recent version, install the latest installation set/service pack.
2. Together with the customer's IT personnel, backup the customer's database.
3. Ensure the following installations:
 - a. From the server, select **Control Panel => Administrative Tools**, and verify that **IIS (Internet Information Services)** and **Component Services** are installed on the customer's server.



- c. Ensure that **iBrowse Module Support** is selected.

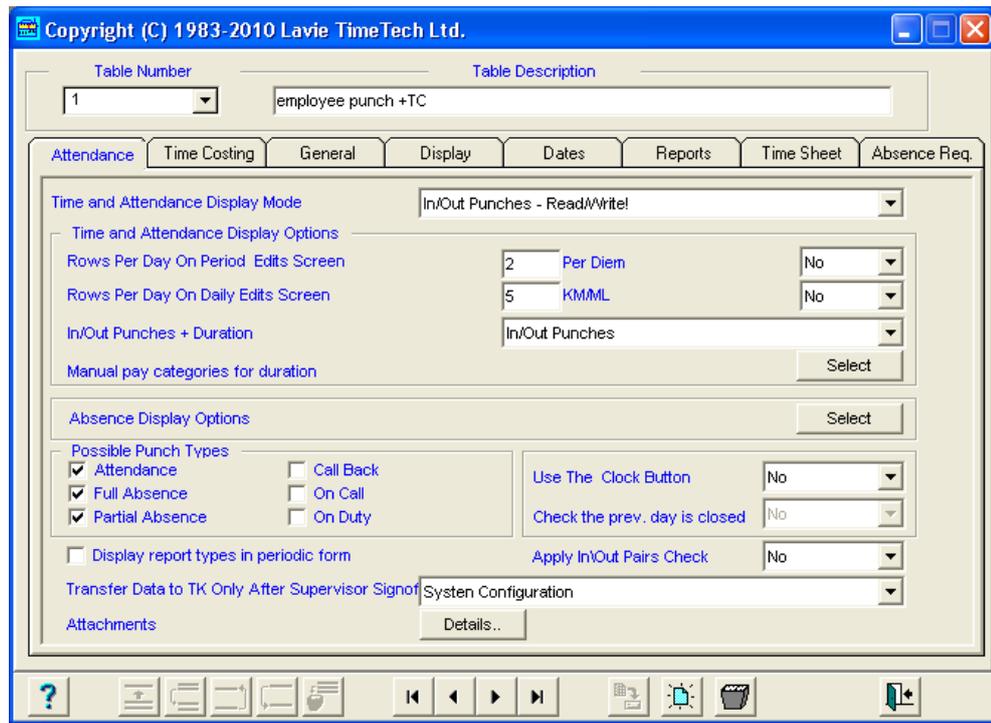


- d. If it is not selected, from the toolbar, click the password icon, and enter your dealer password.



- 5. Ensure that you have at least user assigned to an iBrowse profile. Do as follows:
 - a. From the TKSQL menubar, select **Setup=> Add/Edit System Security Audit Trail Files => iBrowse Profiles**. The **System Configuration** screen is displayed.

- b. Ensure that at least one profile is displayed, such as displayed here.

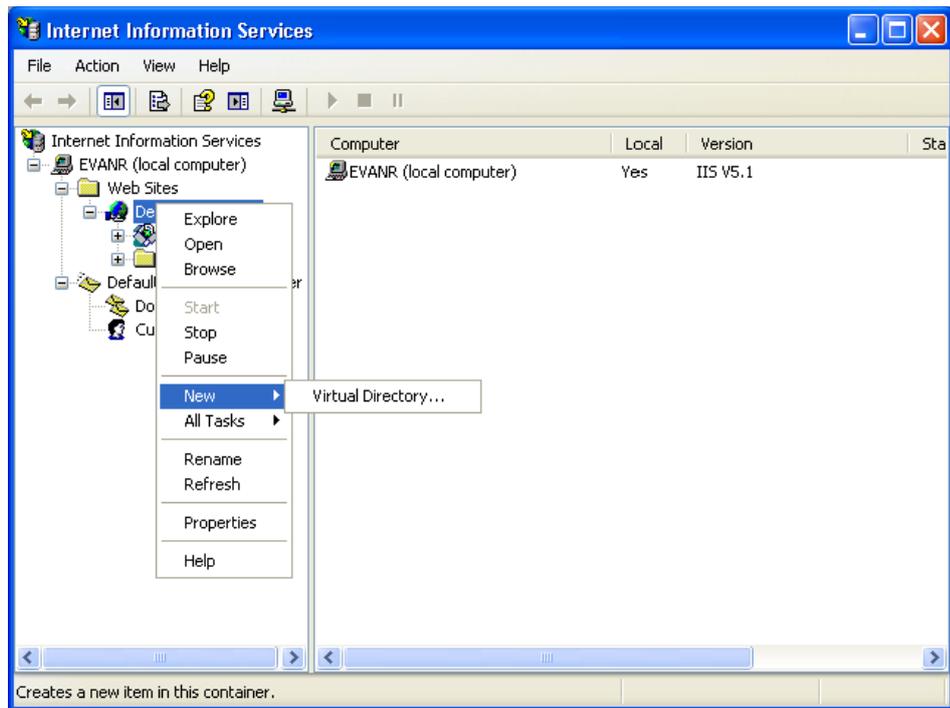


Installing iBrowse Manually

 To perform manual installation:

1. Copy the iBrowse installation disc to a temporary folder on the server's **C** drive.
2. Update the directory with the relevant COM objects and iBrowse files. Do as follows:
 - a. In the server, in **C:\iBrowse**, create the following folders:
 - C:\iBrowse\iBrw_obj
 - C:\iBrowse\iBrw_web
 - b. From the installation disc, copy all objects from the COM OBJECTS folder to C:\iBrowse\iBrw_obj.
 - c. From the installation disc, copy all objects from the iBrowse directory to **C:\iBrowse\iBrw_web**.
3. Delete the temporary folder.
4. Ensure that both the **iBrw_obj** and the **iBrw_web** folders, and all their contents and sub-folders, have read/write privileges. For each folder, do as follows:
 - a. Right-click the folder, and from the General tab, in Attributes, clear the Read-only check-box.

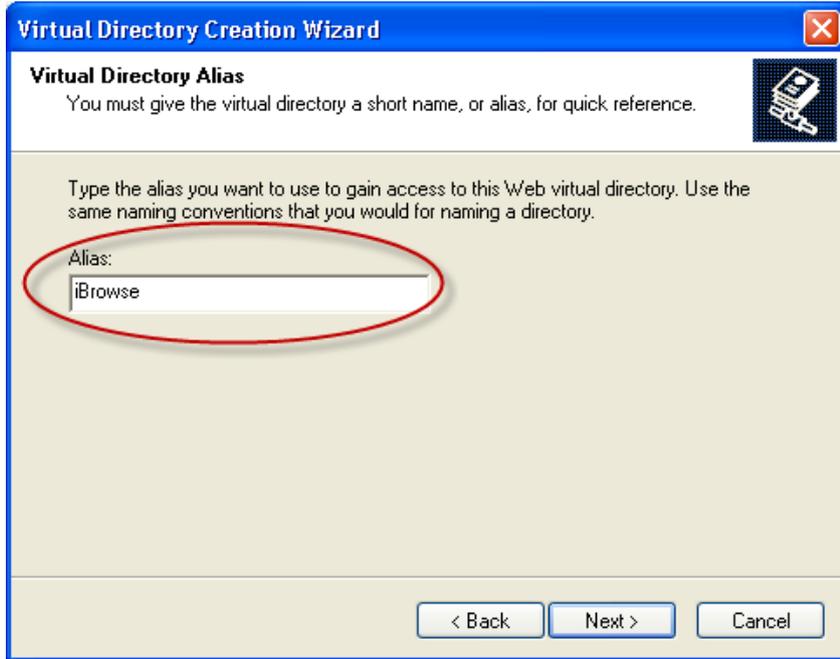
- b. From the left pane, right-click **Default Web Site**, and select **New=>Virtual Directory**.



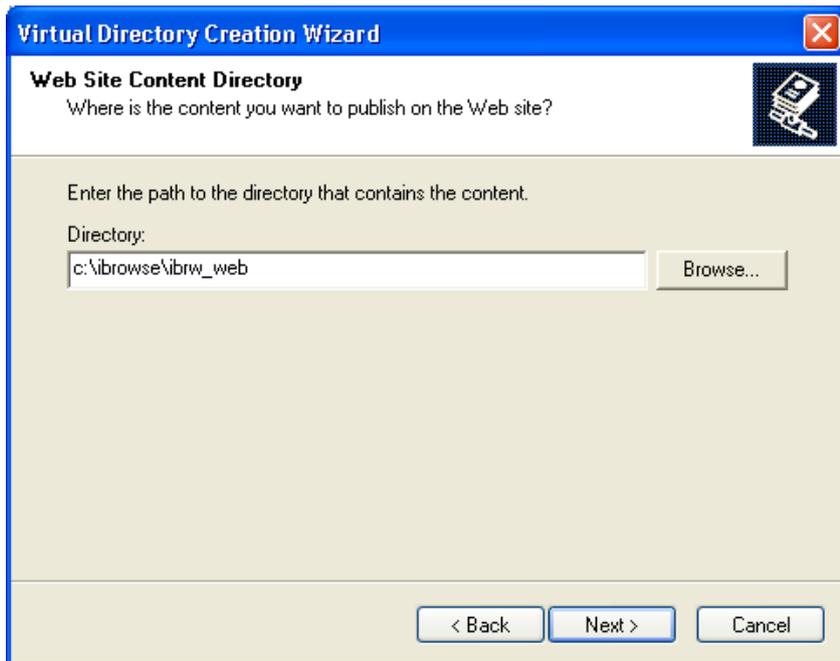
- c. In the **Virtual Directory Creation wizard**, click **Next**.



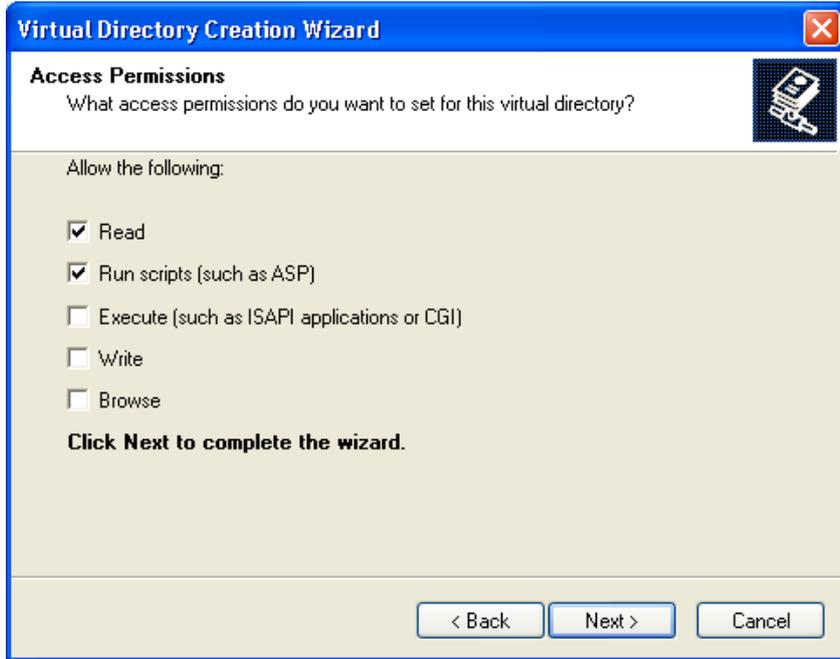
- d. In the **Alias** field, enter the virtual directory's alias, and click **Next**.



- e. In the **Directory** field, specify the iBrowse web directory where the iBrowse files are located, and click **Next**.



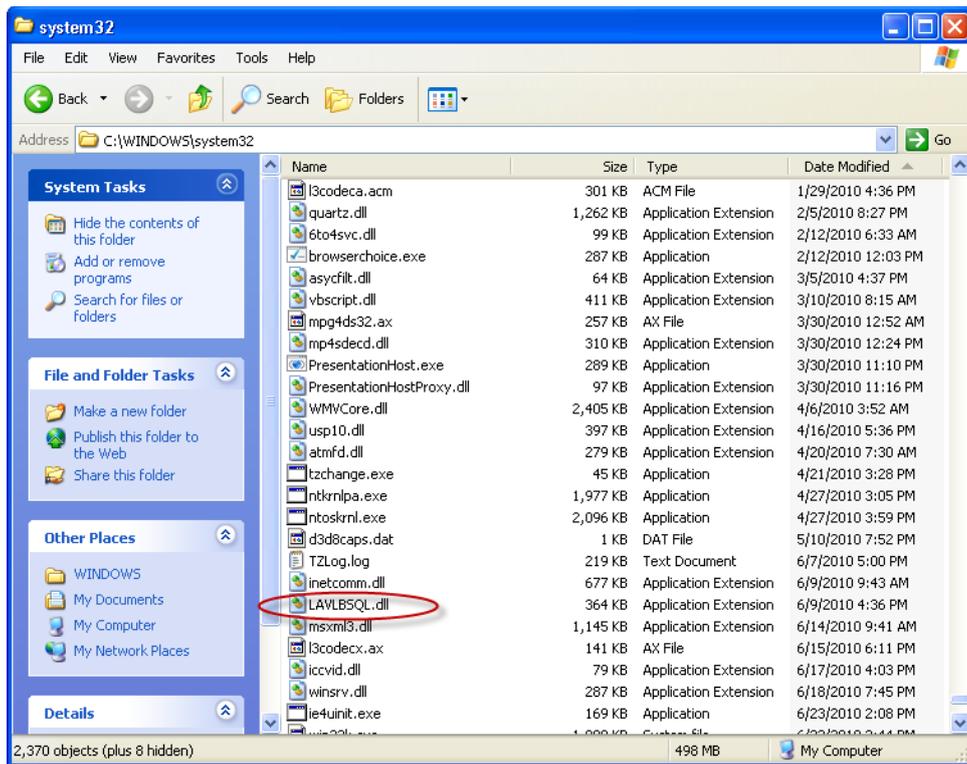
- f. Specify **Read** and **Run Scripts** permissions:



- g. Click **Next** to finish.



7. Copy the **LAVLBSQL.DLL** file from the server's **iBrowse\System32** folder to the server's **Windows\System32** folder:

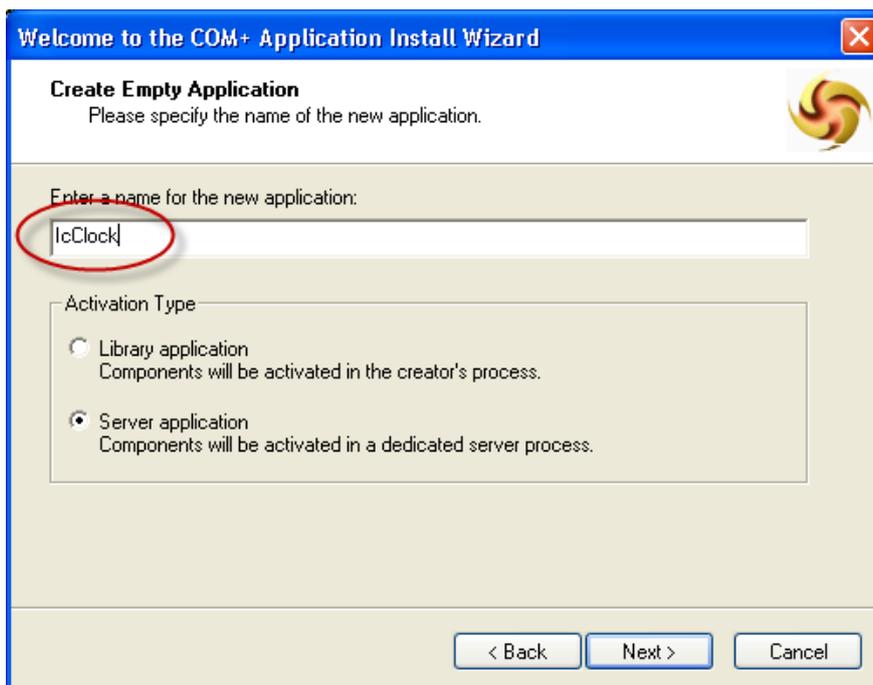


8. Install COM+ components on the server. Do as follows:
 - a. From **Administrative Tools**, open **Component Services**.
 - b. From the left pane, expand **Component Services**, and then expand **My Computer**.
 - c. Right-click **COM+Applications**, and select **New=>Application**.
 - d. In the **COM+ Application Install Wizard**, click **Next**.

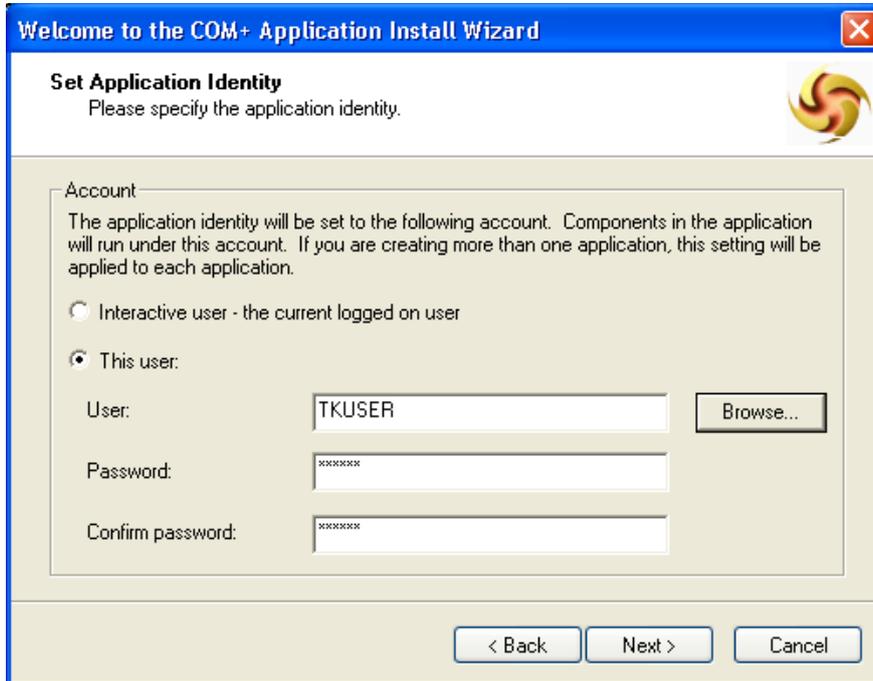
- e. In the **Install or Create a New Application**, select **Create a New Application**, and click **Next**.



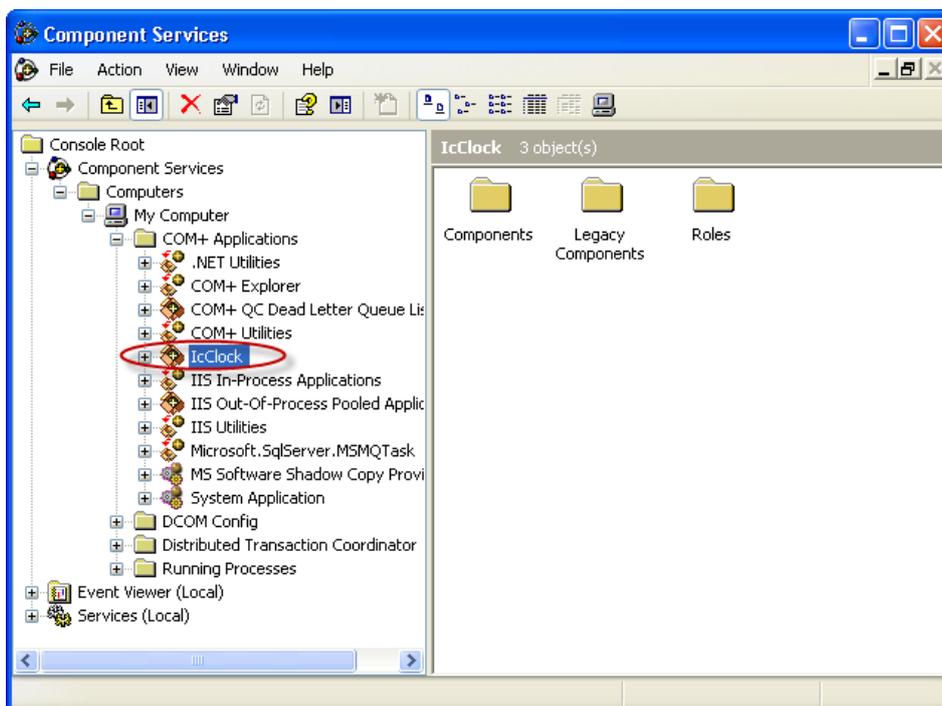
- f. In **Create Empty Application**, name the application **IcClock**, and click **Next**.



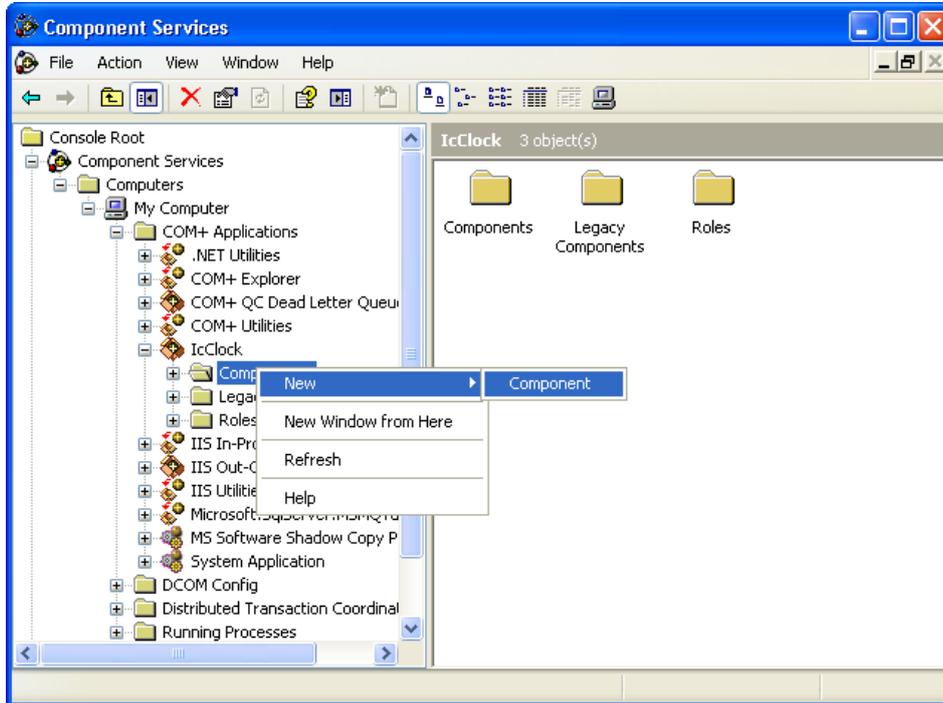
- g. In **Set Application Identity**, select **This User**, and set the user name and password to iBrowse, or any other relevant user name or password defined on the server or network. The TK COM objects will be loaded onto the server using this user's privileges.



- h. Click **Next** to finish. IcClock is created in the **Component Services** directory:



- i. Open **Component Services**, and from the left pane, expand **My Computer**.
- j. Expand **IcClock**, right-click **Components**, and select **New=>Component**.



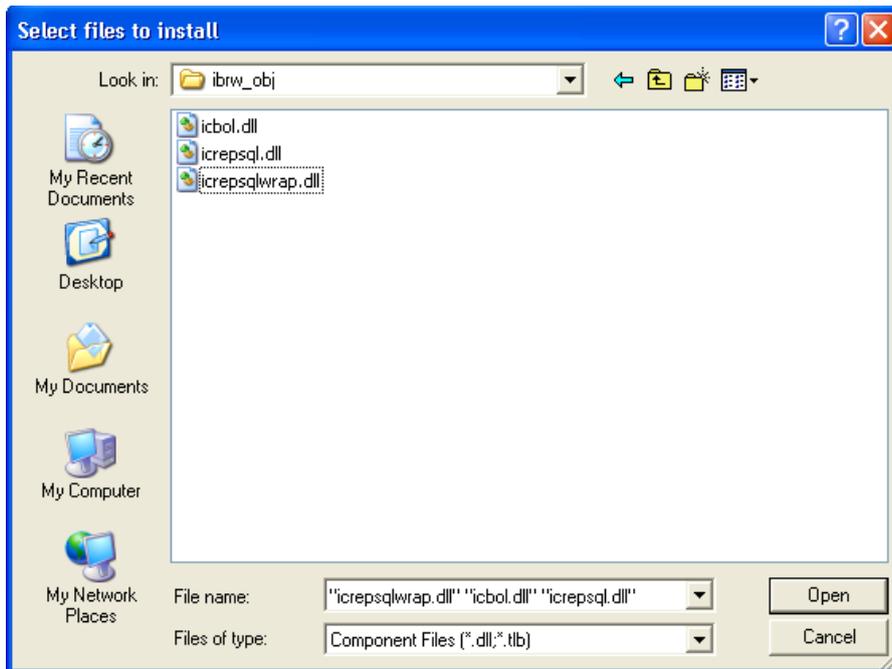
- k. In the **COM+Component Install Wizard**, click **Next**.
- l. In **Import or Install a New Component**, select **Install a New Component**.



- m. In **Install New Components**, click **Add**.

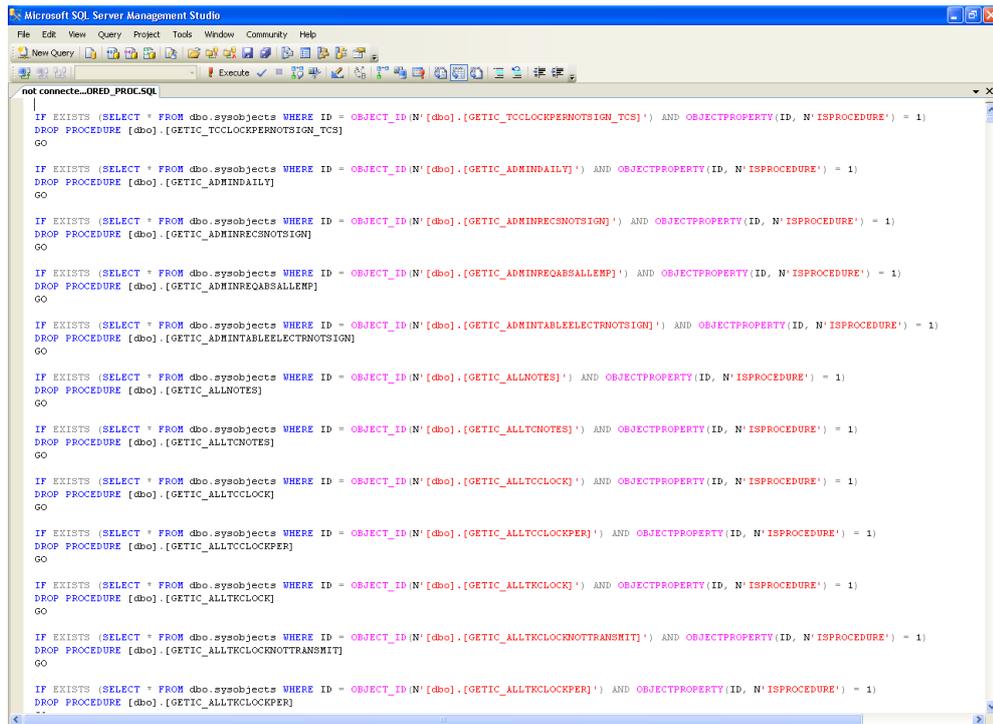


- n. Select all files from **iBrowse\iBr_obj** directory.



The **Install New Components** screen is populated with files to install and components found.

b. Run **STORED_PROC.SQL**.



```
not connecte...ORED_PROC.SQL
IF EXISTS (SELECT * FROM dbo.sysobjects WHERE ID = OBJECT_ID(N'[dbo].[GETIC_TCCLOCKPERNOTSIGN_TCS]') AND OBJECTPROPERTY(ID, N'ISPROCEDURE') = 1)
DROP PROCEDURE [dbo].[GETIC_TCCLOCKPERNOTSIGN_TCS]
GO

IF EXISTS (SELECT * FROM dbo.sysobjects WHERE ID = OBJECT_ID(N'[dbo].[GETIC_ADMINDAILY]') AND OBJECTPROPERTY(ID, N'ISPROCEDURE') = 1)
DROP PROCEDURE [dbo].[GETIC_ADMINDAILY]
GO

IF EXISTS (SELECT * FROM dbo.sysobjects WHERE ID = OBJECT_ID(N'[dbo].[GETIC_ADMINRECSNOTSIGN]') AND OBJECTPROPERTY(ID, N'ISPROCEDURE') = 1)
DROP PROCEDURE [dbo].[GETIC_ADMINRECSNOTSIGN]
GO

IF EXISTS (SELECT * FROM dbo.sysobjects WHERE ID = OBJECT_ID(N'[dbo].[GETIC_ADMINREQABSALLEMP]') AND OBJECTPROPERTY(ID, N'ISPROCEDURE') = 1)
DROP PROCEDURE [dbo].[GETIC_ADMINREQABSALLEMP]
GO

IF EXISTS (SELECT * FROM dbo.sysobjects WHERE ID = OBJECT_ID(N'[dbo].[GETIC_ADMINTABLEELECTNOTSIGN]') AND OBJECTPROPERTY(ID, N'ISPROCEDURE') = 1)
DROP PROCEDURE [dbo].[GETIC_ADMINTABLEELECTNOTSIGN]
GO

IF EXISTS (SELECT * FROM dbo.sysobjects WHERE ID = OBJECT_ID(N'[dbo].[GETIC_ALLNOTES]') AND OBJECTPROPERTY(ID, N'ISPROCEDURE') = 1)
DROP PROCEDURE [dbo].[GETIC_ALLNOTES]
GO

IF EXISTS (SELECT * FROM dbo.sysobjects WHERE ID = OBJECT_ID(N'[dbo].[GETIC_ALLTCNOTES]') AND OBJECTPROPERTY(ID, N'ISPROCEDURE') = 1)
DROP PROCEDURE [dbo].[GETIC_ALLTCNOTES]
GO

IF EXISTS (SELECT * FROM dbo.sysobjects WHERE ID = OBJECT_ID(N'[dbo].[GETIC_ALLTCCLOCK]') AND OBJECTPROPERTY(ID, N'ISPROCEDURE') = 1)
DROP PROCEDURE [dbo].[GETIC_ALLTCCLOCK]
GO

IF EXISTS (SELECT * FROM dbo.sysobjects WHERE ID = OBJECT_ID(N'[dbo].[GETIC_ALLTCCLOCKPER]') AND OBJECTPROPERTY(ID, N'ISPROCEDURE') = 1)
DROP PROCEDURE [dbo].[GETIC_ALLTCCLOCKPER]
GO

IF EXISTS (SELECT * FROM dbo.sysobjects WHERE ID = OBJECT_ID(N'[dbo].[GETIC_ALLTCCLOCK]') AND OBJECTPROPERTY(ID, N'ISPROCEDURE') = 1)
DROP PROCEDURE [dbo].[GETIC_ALLTCCLOCK]
GO

IF EXISTS (SELECT * FROM dbo.sysobjects WHERE ID = OBJECT_ID(N'[dbo].[GETIC_ALLTKCLOCKNOTTRANSMIT]') AND OBJECTPROPERTY(ID, N'ISPROCEDURE') = 1)
DROP PROCEDURE [dbo].[GETIC_ALLTKCLOCKNOTTRANSMIT]
GO

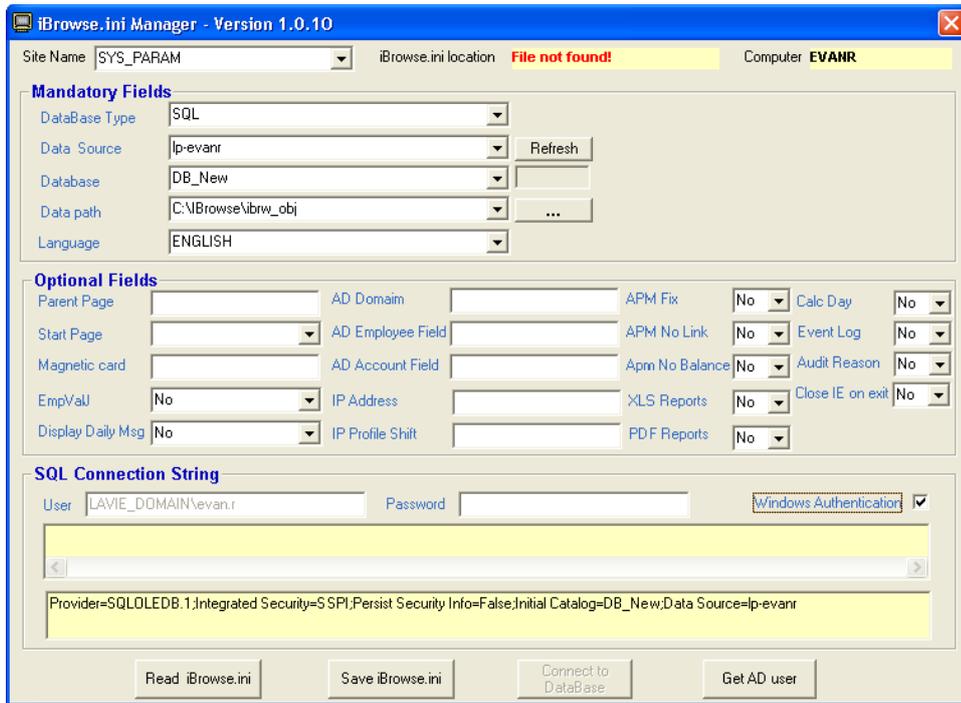
IF EXISTS (SELECT * FROM dbo.sysobjects WHERE ID = OBJECT_ID(N'[dbo].[GETIC_ALLTKCLOCKPER]') AND OBJECTPROPERTY(ID, N'ISPROCEDURE') = 1)
DROP PROCEDURE [dbo].[GETIC_ALLTKCLOCKPER]
GO
```

c. To verify that the process is successful, look for a notification message at the end, and then close MSSQL Server Management Studio.

10. Configure the iBrowse .ini file via the iBrowse.ini Manager. Do as follows:

- a. From the installation folder, open the iBrowse.ini Manager.
- b. In **Mandatory Fields** at the top, enter the following:
 - In **Database Type**, enter **TKSQL** or **TK2000**.
 - In **Data Source**, enter the SQL Server name.
 - In **Database**, enter the database name.
 - In **Data path**, if it is **TK2000**, enter the path to the data library. If it is **TKSQL**, enter the current program library.
 - In **Language**, enter the language that will appear on the first log to iBrowse.

- c. In the **SQL Connection String** area, select **Windows Authentication**.



- d. Click **Save iBrowse.ini** and close.
11. Set up a new user (**IBRW**) within TKSQL. The definitions for this user are irrelevant as it is simply used for Audit Trail and Reports functionality (as per changes made in the iBrowse module).
- a. From the TKSQL menubar, select **Setup=>Add/Edit System Security Audit Trail Files=>Add/Edit Users Definitins**. The **Users** screen is displayed.
 - b. Do as follows:
 - In **User Name**, browse for **IBRW**.
 - In **System Administartor**, ensure that it is un-selected

- In **Language**, ensure that the selected language matches the primary TKSQL language as configured in the **SYSCNF** file.

The screenshot shows the 'Users' configuration window. The 'User Name' dropdown is set to 'IBRW'. The 'Language' dropdown is set to 'English'. The 'System Administrator' checkbox is checked. The 'Group Name' is 'ibrw'. The 'Expiration Date' is '01/01/2010'. The 'Configuration Profile' is '0'. The 'Employee Number' is '0'. The 'Employee Last Name' and 'Employee First Name' fields are empty.

12. In case a second language is used, an additional user (**IBR2**) needs to be defined in the same way as above, but with a second language selected.

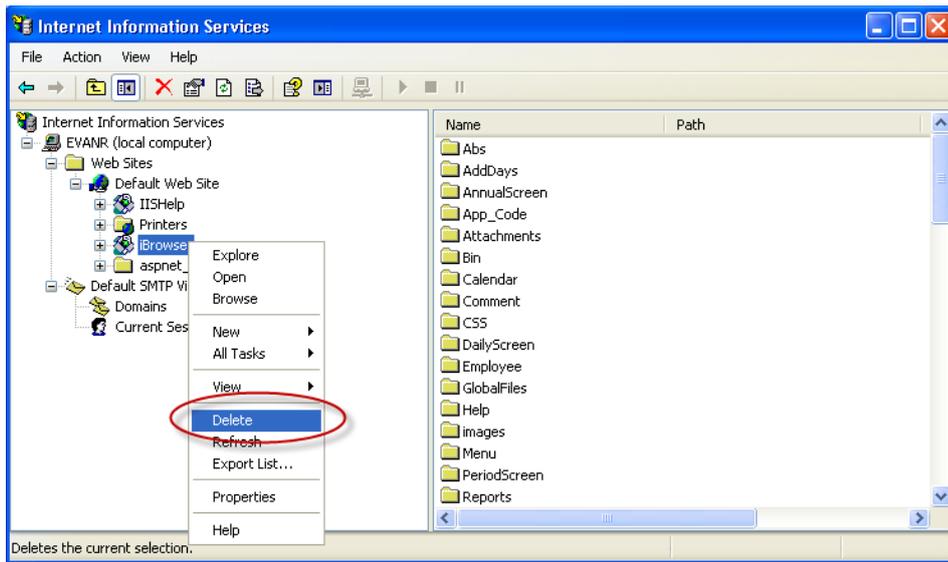
The screenshot shows the 'Users' configuration window. The 'User Name' dropdown is set to 'IBR2'. The 'Language' dropdown is set to 'French'. The 'System Administrator' checkbox is checked. The 'Group Name' is 'ibrw'. The 'Expiration Date' is '01/01/2010'. The 'Configuration Profile' is '0'. The 'Employee Number' is '0'. The 'Employee Last Name' and 'Employee First Name' fields are empty.

13. Click **Save** and then **Exit**.
14. The installation is complete. Verify that iBrowse is installed correctly. From your browser, enter the iBrowse URL, (for example) **http://SERVERNAME/Ibrowse**, and wait for iBrowse to load.

Uninstalling iBrowse

 To uninstall iBrowse:

1. Delete all files from the iBrowse installation folder.
2. Delete all files from the ibrowse virtual directory.
 - a. From **Administrative Tools**, open **IIS**.
 - b. In the left pane, right-click the virtual directory, and select **Delete**.



iBrowse is now uninstalled.

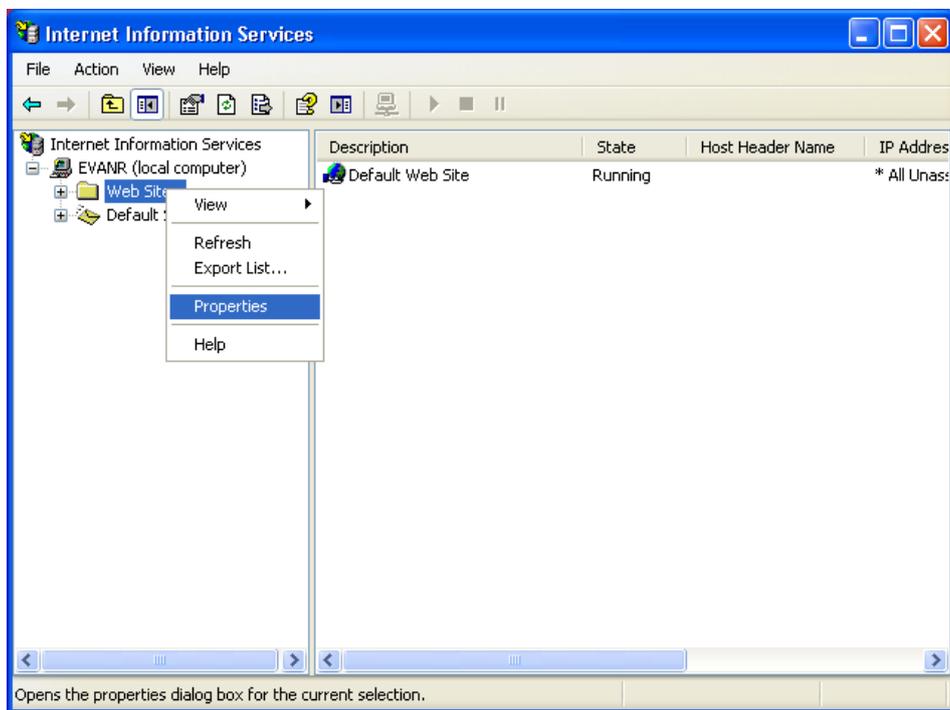
Appendix: Setting Up iBrowse Login Based on Active Directory

This configuration enables you to skip the iBrowse login screen, and login automatically to iBrowse.

Defining the IIS

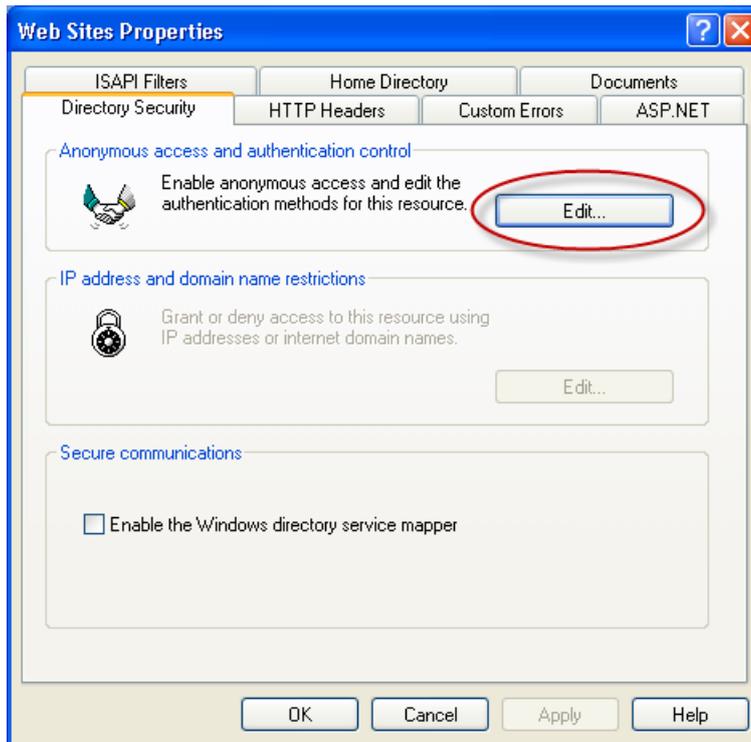
 To define the IIS:

1. From **Administrative Tools**, open IIS.
2. In the left pane, expand the local computer.
3. Right-click **Web Sites**, and select **Properties**.



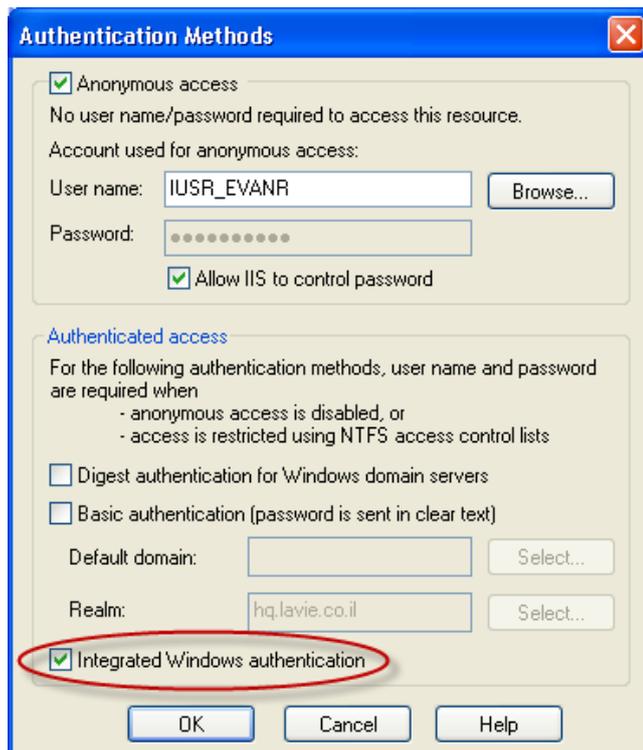
The **Web Site Properties** screen is displayed.

4. From the **Directory Security** tab, click **Edit**.



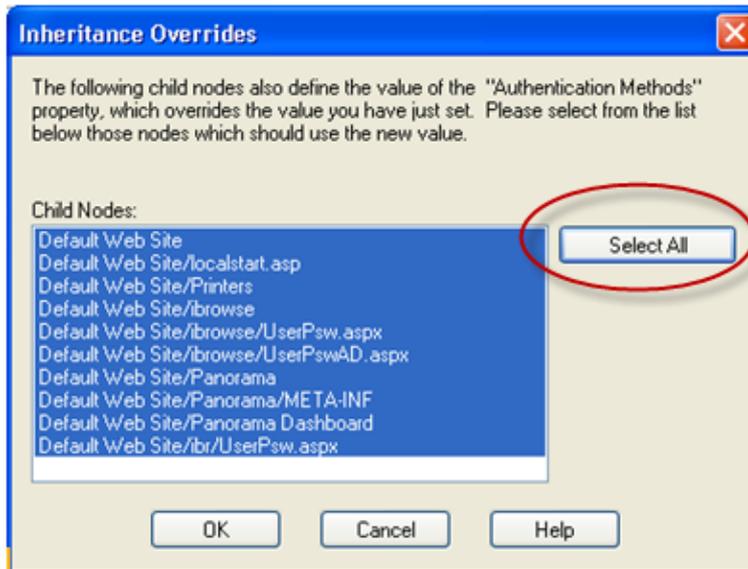
The **Authentication Methods** screen is displayed.

5. Select **Integrated Windows authentication**, and click **OK**.

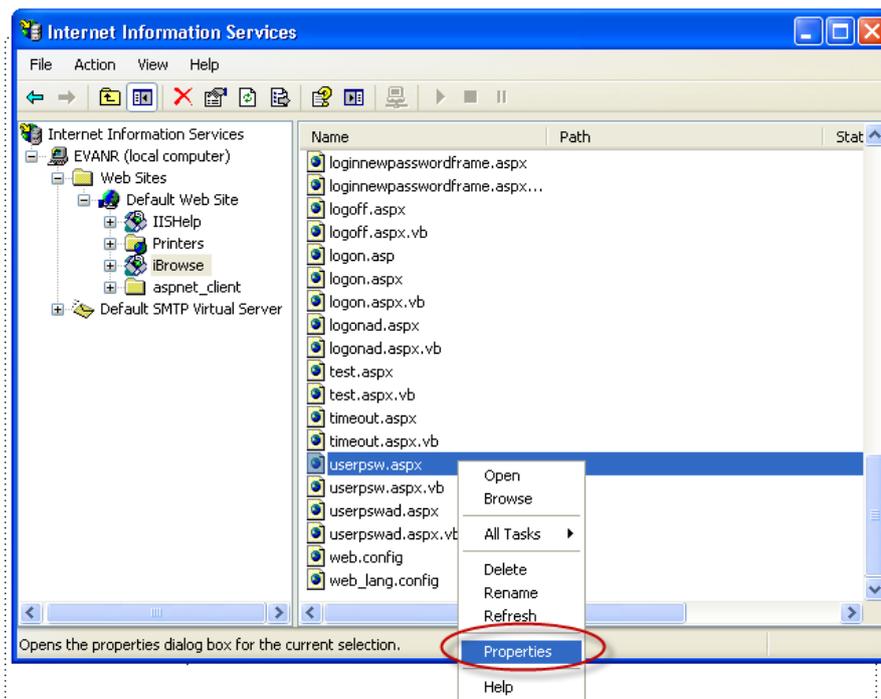


The **Inheritance Overrides** screen is displayed.

6. Click **Select All**, and select all nodes to be affected, and then click **OK**.

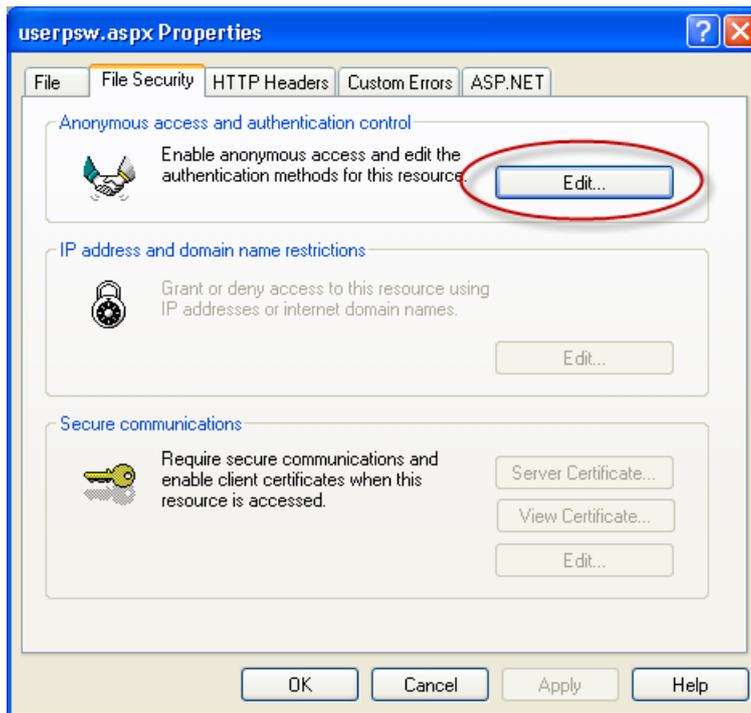


7. From the IIS main screen, in the left pane, under **Web Sites =>Default Web Site**, open the **iBrowse** directory.
8. Right-click **userpsw.aspx**, and select **Properties**.



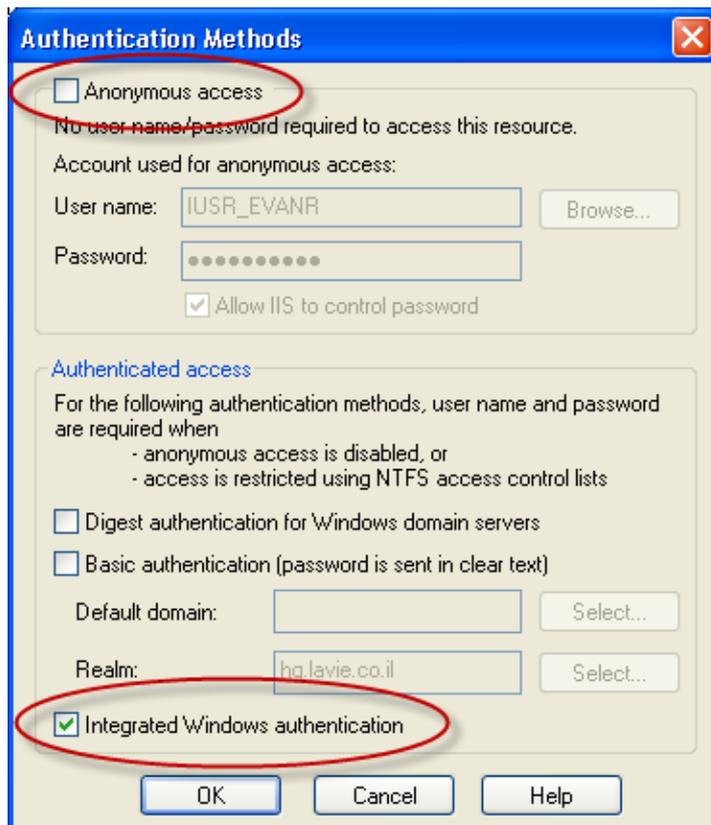
The **userpsw.aspx Properties** screen is displayed.

- From the **File Security** tab, select **Edit**.



The **Authentication Methods** screen is displayed.

- Clear the **Anonymous Access** check-box, and select **Integrated Windows** authentication.



11. Click **OK**.
12. From the **userpsw.aspx Properties** screen, click **OK**.
13. Close the IIS screen.
14. From your iBrowse directory, ensure that the `ibrw_web` folder has `read_only` permissions.

Defining the ibrowse.ini File

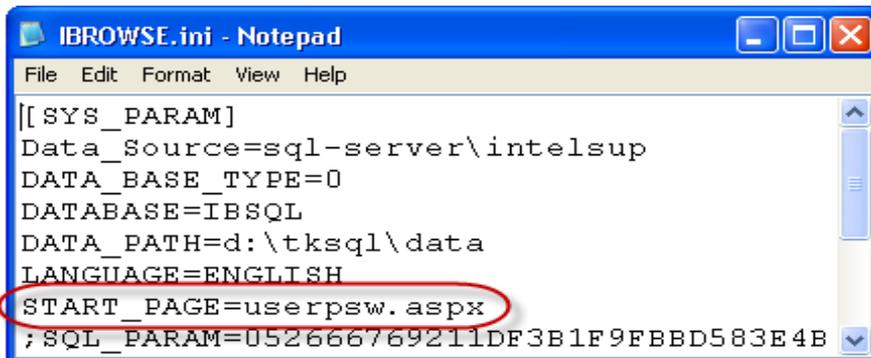
There are two options to defining the IBROWSE.ini file:

- User Identification by Windows Logon User Name
- User Identification by Active Directory

User Identification by Windows Logon User Name

 To define the user identification by Windows Logon User Name:

1. From the iBrowse folder, open the `ibrowse.ini` file.
2. Enter a new parameter, **START_PAGE=userpsw.aspx**.
3. Ensure that the TK user name (employee or supervisor) is identical to the Windows logon user name.
4. Optionally, to define a parameter that verifies that the user is defined within the domain, enter **DOMAIN=synerion_domain**.



```
[SYS_PARAM]
Data_Source=sql-server\intelsup
DATA_BASE_TYPE=0
DATABASE=IBSQL
DATA_PATH=d:\tksql\data
LANGUAGE=ENGLISH
START_PAGE=userpsw.aspx
;SQL_PARAM=052666769211DF3B1F9FBB583E4B
```

Note: the following regarding the TK200 version:

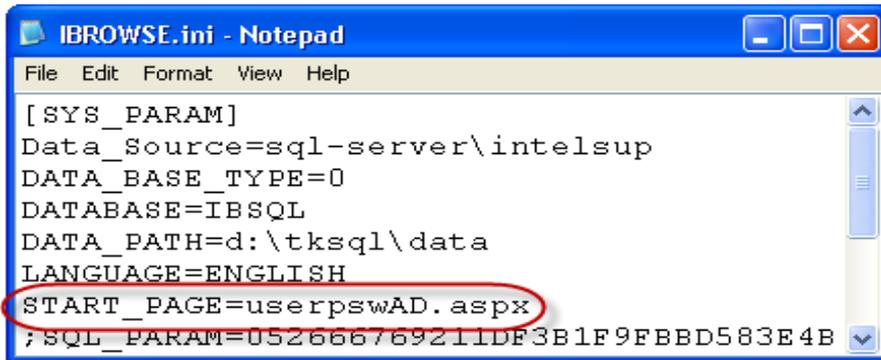
- The supervisor user name is limited to four characters.

- The user name is case sensitive.

User Identification by Active Directory

 To define the user identification by Active Directory:

1. From the iBrowse folder, open the **iBrowse.ini** file.
2. Enter a new parameter, **START_PAGE=userpswAD.aspx**.
3. Optionally, enter **DOMAIN=LDAP://[domain_name]** (for example, LDAP://synerion_domain).



```
[SYS_PARAM]
Data_Source=sql-server\intelsup
DATA_BASE_TYPE=0
DATABASE=IBSQL
DATA_PATH=d:\tksql\data
LANGUAGE=ENGLISH
START_PAGE=userpswAD.aspx
;SQL_PARAM=052666769211DF3B1F9FBBD583E4B
```

4. Ensure that no more than one iBrowse supervisor is assigned to each employee.

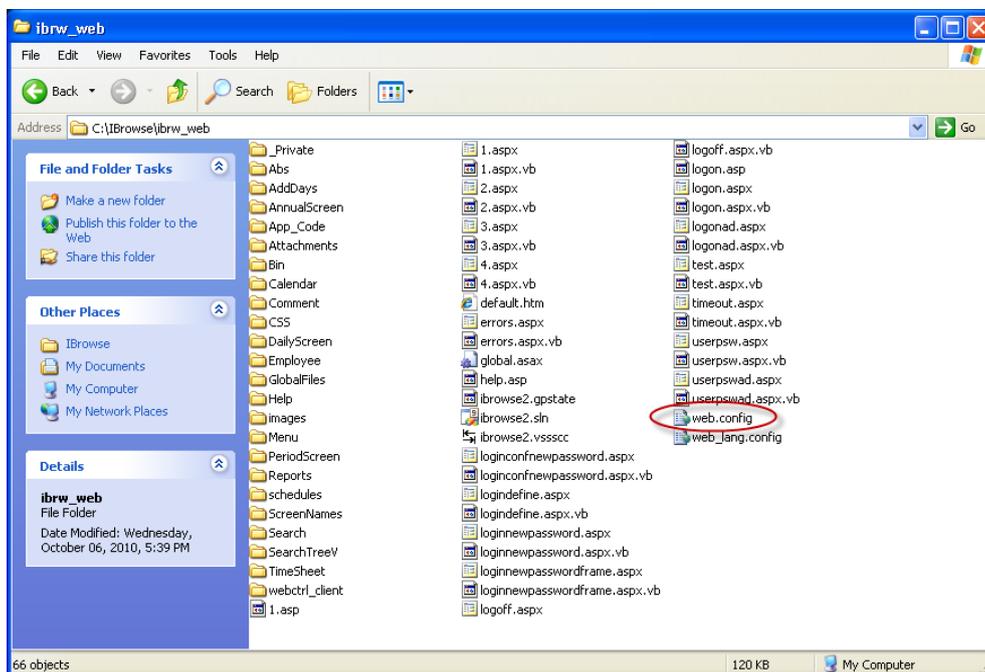
Appendix: Troubleshooting

Error Occurred in Server Side Script: Error 13

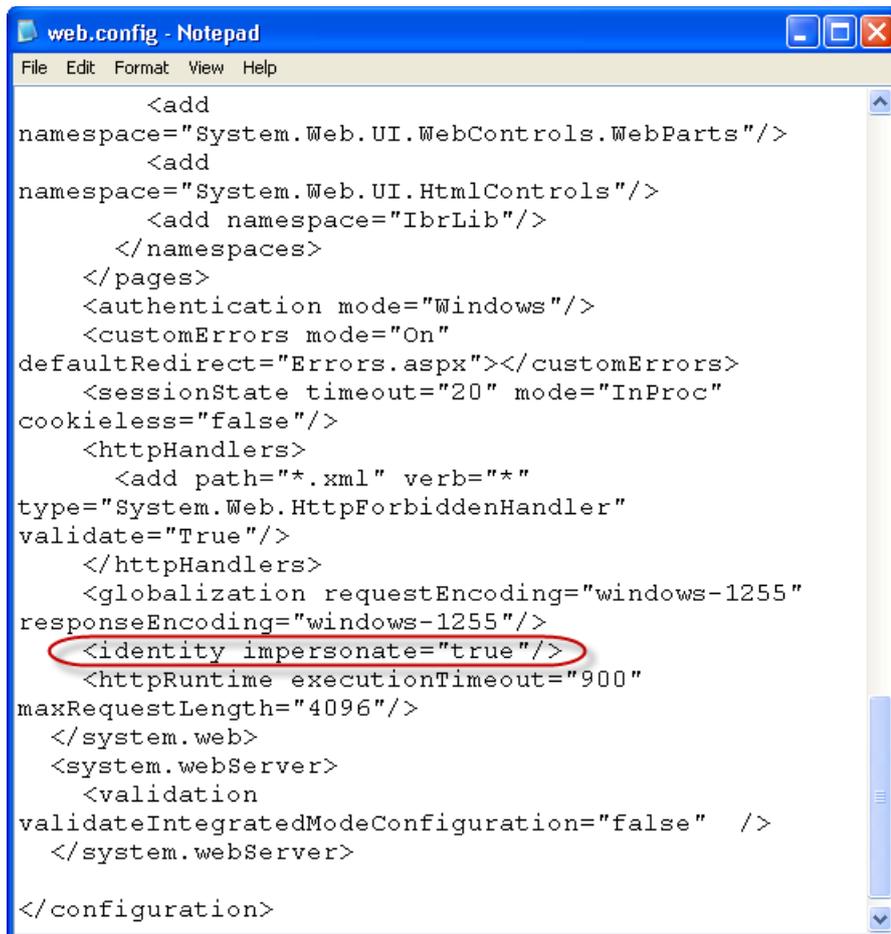
13	Error Number
Error Occurred in Server Side Script	Error Message
When iBrowse is loaded, this message is displayed. It indicated a security problem running the COM objects and the IIS.	Description of the Problem

 To solve this problem:

1. From **C:\iBrowse\ibrw_web**, open the **Web.config** file.



2. Add `<identity impersonate="true" />` in the location shown here, and save and close.

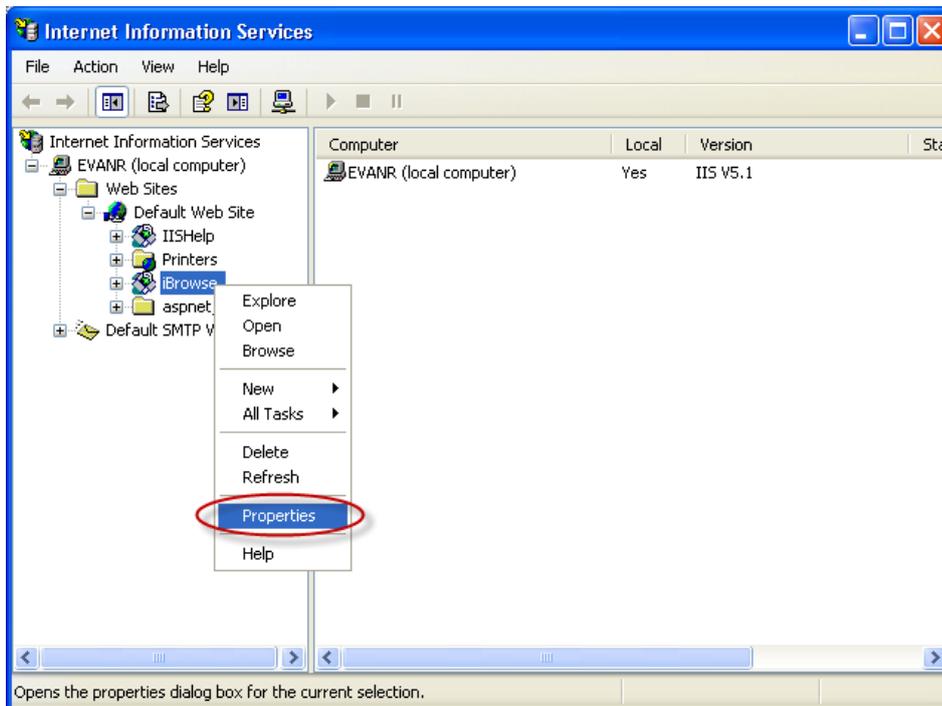


```
web.config - Notepad
File Edit Format View Help
<add
namespace="System.Web.UI.WebControls.WebParts"/>
<add
namespace="System.Web.UI.HtmlControls"/>
<add namespace="IbrLib"/>
</namespaces>
</pages>
<authentication mode="Windows"/>
<customErrors mode="On"
defaultRedirect="Errors.aspx"></customErrors>
<sessionState timeout="20" mode="InProc"
cookieless="false"/>
<httpHandlers>
<add path="*.xml" verb="*"
type="System.Web.HttpForbiddenHandler"
validate="True"/>
</httpHandlers>
<globalization requestEncoding="windows-1255"
responseEncoding="windows-1255"/>
<identity impersonate="true"/>
<httpRuntime executionTimeout="900"
maxRequestLength="4096"/>
</system.web>
<system.webServer>
<validation
validateIntegratedModeConfiguration="false" />
</system.webServer>
</configuration>
```

3. If the problem persists, from **Administrative Tools**, set iBrowse to enable Anonymous Access. Do as follows:
 - a. From the IIS, select **Web Sites=>Default WebSite=>iBrowse**.

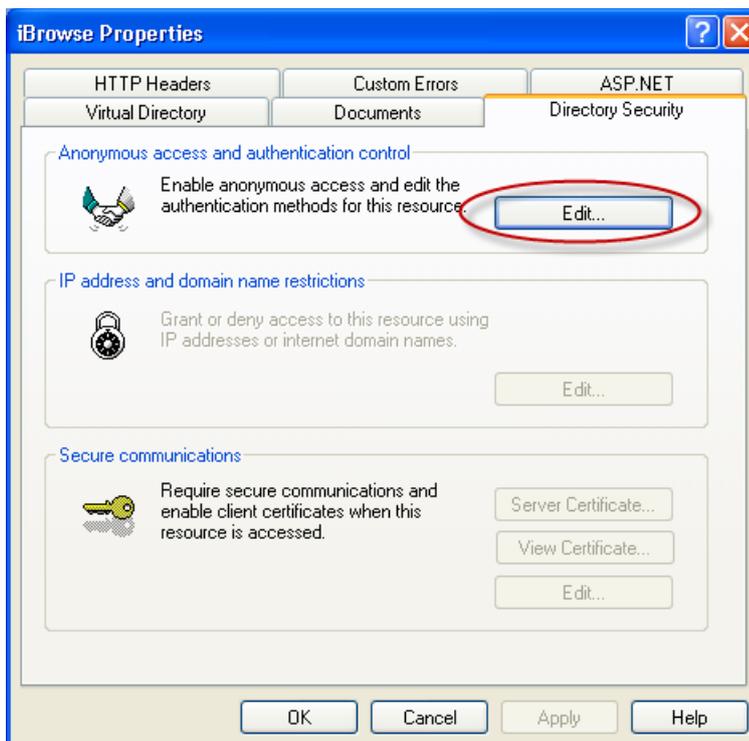
- b. Right-click **iBrowse** and select **Properties**.

The **iBrowse Properties** screen is displayed.



- c. Select the **Directory Security** tab, and then click **Edit**.

The **Authentication Methods** screen is displayed.



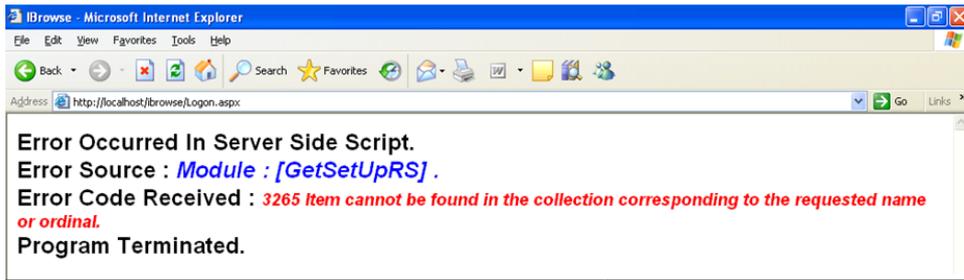
- d. In **User name**, specify the user for running the COM objects. If password is not disabled, enter the user's password.



- e. Click **OK** when done.

Error Occurred in Server Side Script: Error 3265

3265	Error Number
Error Occurred in Server Side Script	Error Message
One of the tables is out-of-date (in most cases, the CNFPROF or to out-of-fdate stored procedures).	Description of the Problem

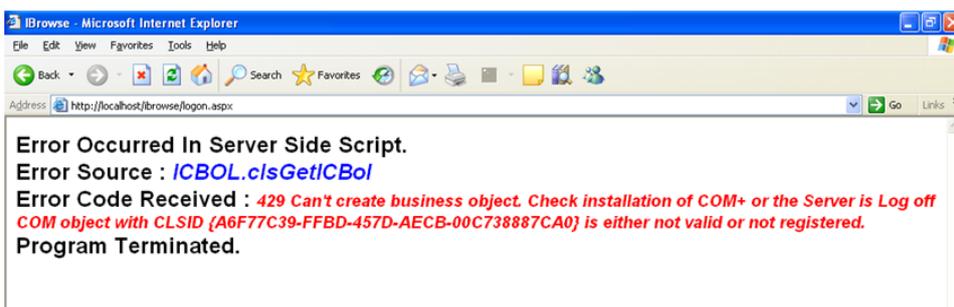


 To solve this problem:

- Compare DB.

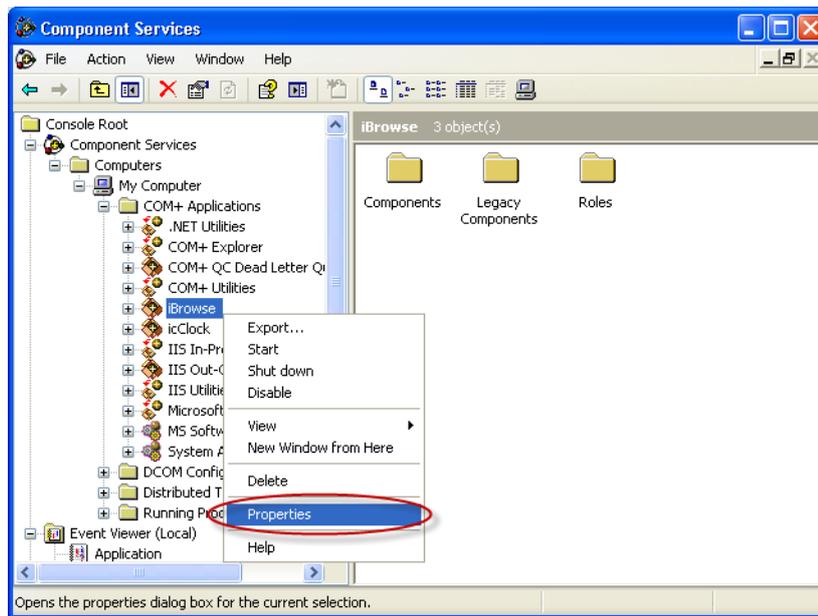
Error Occurred in Server Side Script: Error 429

429	Error Number
Error Occurred in Server Side Script	Error Message
This message is displayed upon attempting to load iBrowse and can mean that the COM objects need to be installed or that the server is logged off.	Description of the Problem



 To solve this problem:

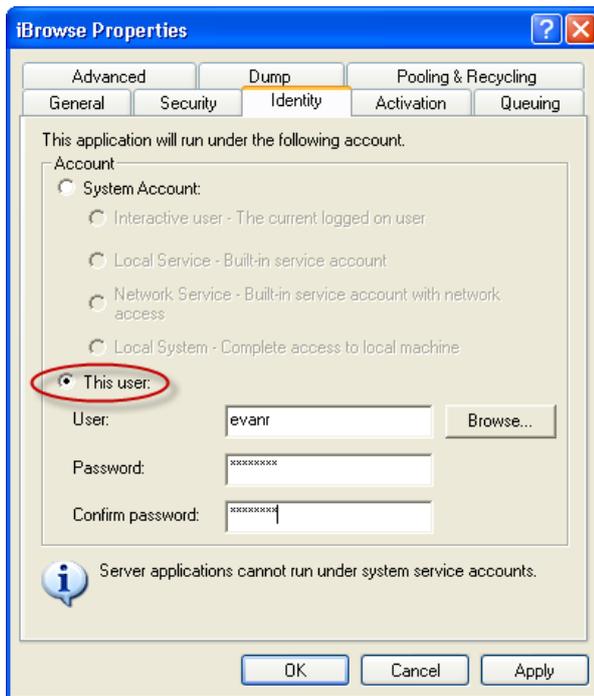
1. Ensure that the COM objects are installed.
2. If the problem still persists, define an identity to a permanent user.
 - a. From **Administrative Tools**, open **Component Services**.
 - b. From the left pane, expand **Computers**, and select **MyComputer=>COM+ Applications=>icClock**.
 - c. Right-click **icClock** and select **Properties**.



The **icClock Properties** screen is displayed.

- d. Select the **Identity** tab.

- e. Select **This User**, and enter a valid user name and password defined on the server or the network.



As a result, the TK COM objects will be loaded on the server using this user's privileges.

- f. Select **Apply** and then **OK**.

NOTE: This user needs to have read & write access to the TK programs directory (e.g. C:\TKSQL). This user is a regular user and not an Administrator or a Privileged user. The access to the application directory (TK programs) must be set as UNC (instead of "traditional" drive mapping, as drive mapping does not work when the server is in log-off mode).

Error Occurred in Server Side Script: Error 3105

3105	Error Number
Error Occurred in Server Side Script	Error Message
This message appears after trying to open iBrowse after an upgrade, or new installation. Generally it is caused when a report defined for a user's profile contains more than 40 characters.	Description of the Problem

Error Occurred In Server Side Script.
Error Source : *ICDAL.clsGetICDal->GetSystemRS*
Error Code Received : *3105 Multiple-step operation generated errors. Check each status value.*
Program Terminated.

 **To solve this problem:**

1. This is a known issue caused when a report defined for the user's profile has a title longer than 40 characters. The error is generated with respect to the CNFPROF and is fixed for iBrowse version 8.08.01 and later. For later versions the maximum length for a report title is set to 80 characters.
2. Ensure all reports' titles' are maximum 40 characters in length.

Error Occurred in Server Side Script: Error 3707

3707	Error Number
Error Occured in Server Side Script	Error Message
This message appears after trying to open iBrowse after an upgrade.	Description of the Problem

Error Occurred In Server Side Script.
Error Source : *Module : [GetTcFileRS] .*
Error Code Received : *3707 Cannot change the ActiveConnection property of a Recordset object which has a Command object as its source.*
Program Terminated.

This problem occurs when entering the daily or period screens. It occurs when the iBrowse Stored Procedure is not updated (usually those related to default tasks).

This problem might occur when the user defined in ibrowse.ini file has connectivity authorizations to open a connection to the database but does not have authorizations to the database.

 **To solve this problem:**

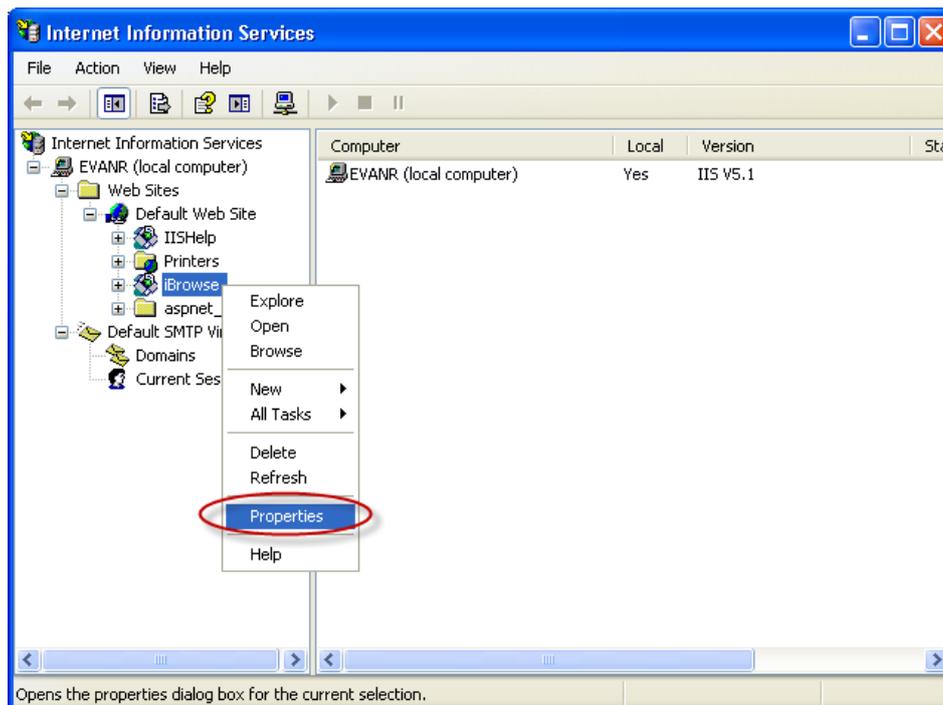
1. For the first problem described above, run **storedProc.sql**
2. Update the user's authorizations or update iBrowse

iBrowse is Not Loaded

N/A	Error Number
ibrowse is Not Loaded	Error Message
iBrowse does not load; this could be a sign that .NET Framework is not installed properly.	Description of the Problem

 To solve this problem:

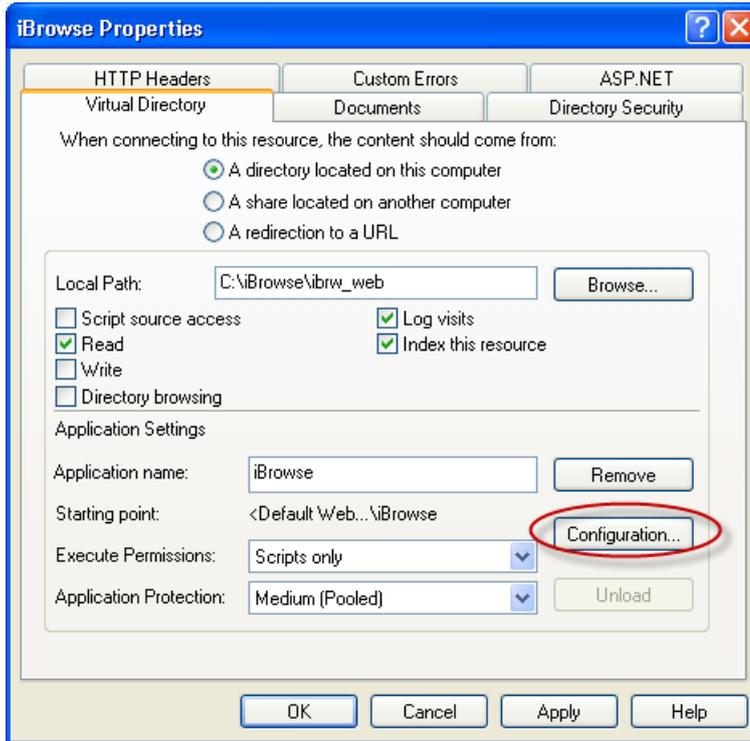
1. From **Administrative Tools**, open **IIS**.
2. From the left pane, under **Web Sites=>Default Web Site**, right-click **iBrowse**, and select **Properties**.



The **iBrowse Properties** screen is displayed.

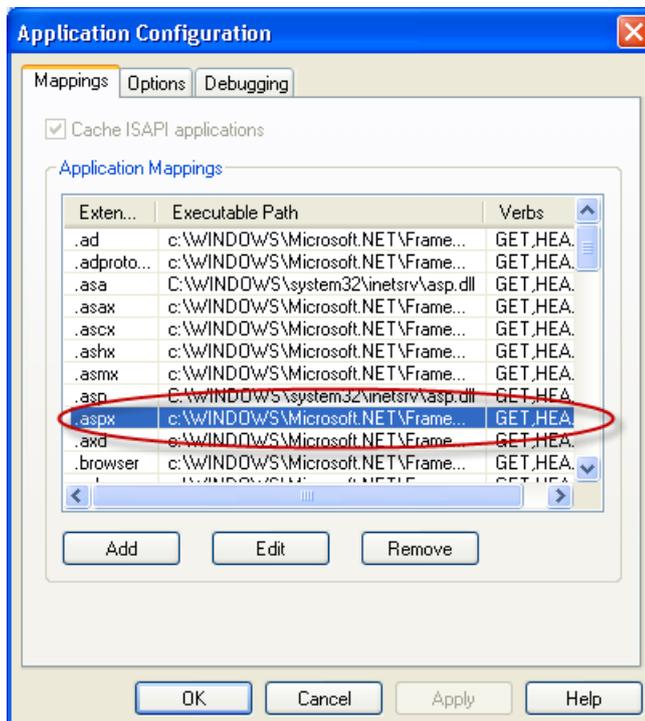
3. Select the **Virtual Directory** tab.

4. From the **Application Settings** area, click **Configuration**.



The **Application Configuration** screen is displayed.

5. Select the **Mappings** tab, if it isn't already selected.
6. In the **Application Mappings** area, ensure that **.aspx** appears in the list, as shown here.



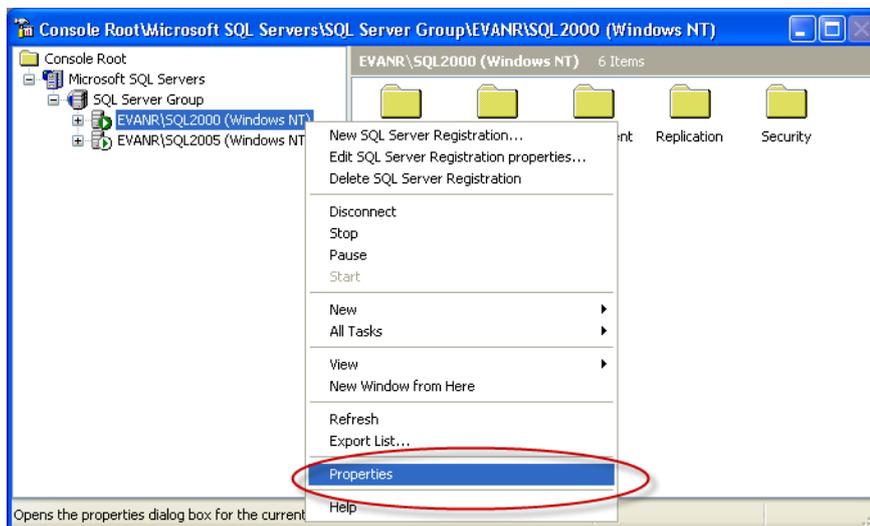
7. Click **OK**, then **OK** again, and exit IIS.
8. If **.aspx** does not appear, re-install .NET Framework.

Login Failed for iBrowse User: Reason Not Associated

N/A	Error Number
Login Failed for iBrowse User: Reason Not Associated	Error Message
This message is displayed upon loading iBrowse and indicates that the user is not defined correctly in MS-SQL database.	Description of the Problem:

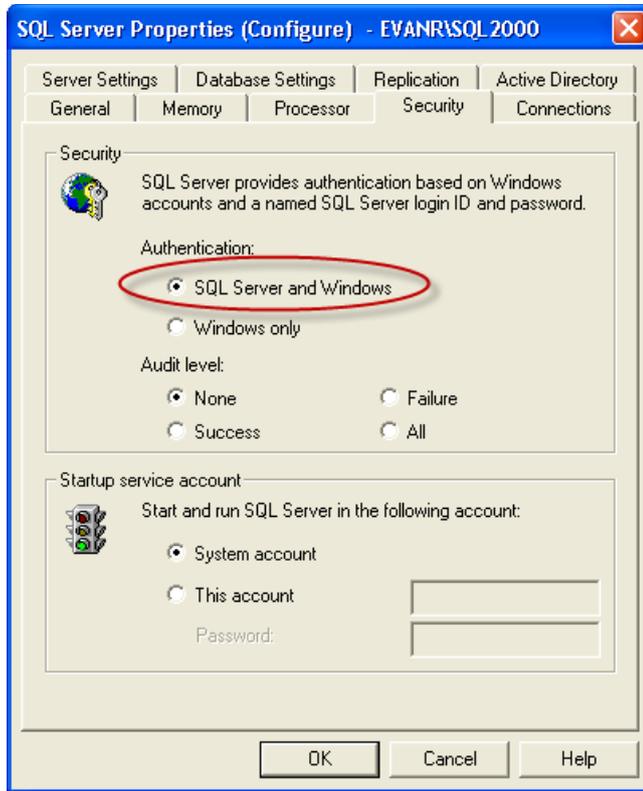
 **To solve this problem:**

1. Open MS-SQL Enterprise Manager.
2. From the left pane, expand **Microsoft SQL Servers**, and under **SQL Server Group**, find your server.
3. Right-click the server and select **Properties**.



The **SQL Server Properties (Configure)** screen is displayed.

4. Select the **Security** tab.
5. In the **Security** area, under **Authentication**, select **SQL Server and Windows**, if it isn't already selected.



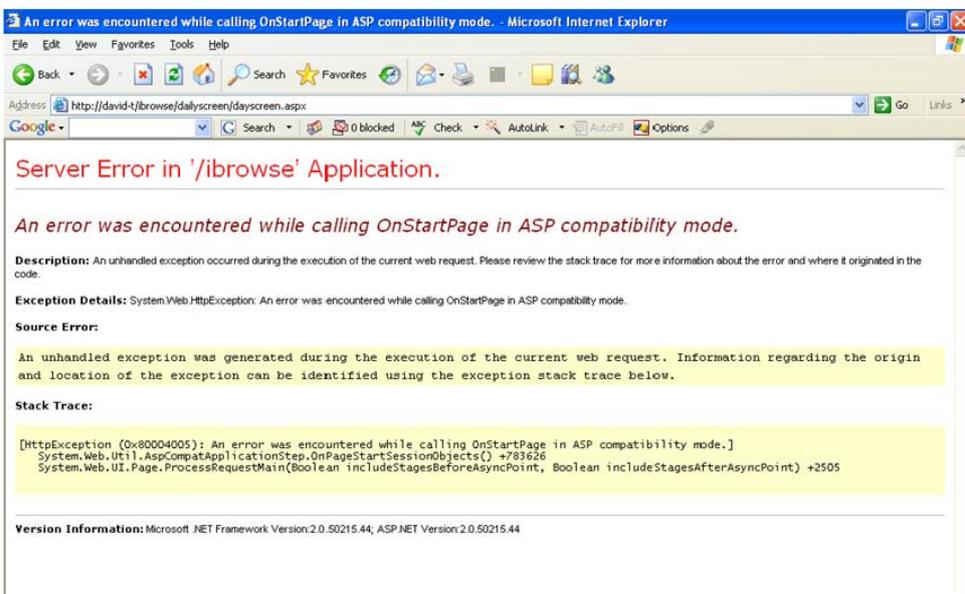
6. Click **OK**.
7. From **C:\Windows**, open the **iBrowse.ini** file.
8. Ensure that the **SQL_PARAM** field in the **iBrowse.INI** file has the correct values. Do this by making sure the correct username and password have been encrypted (please see step 10 for more details).



Server Error in iBrowse Application: Failed to Access IIS Metabase

Server Error in iBrowse Application: An Error Was Encountered While Calling OnStartPage in ASP Compatibility Mode

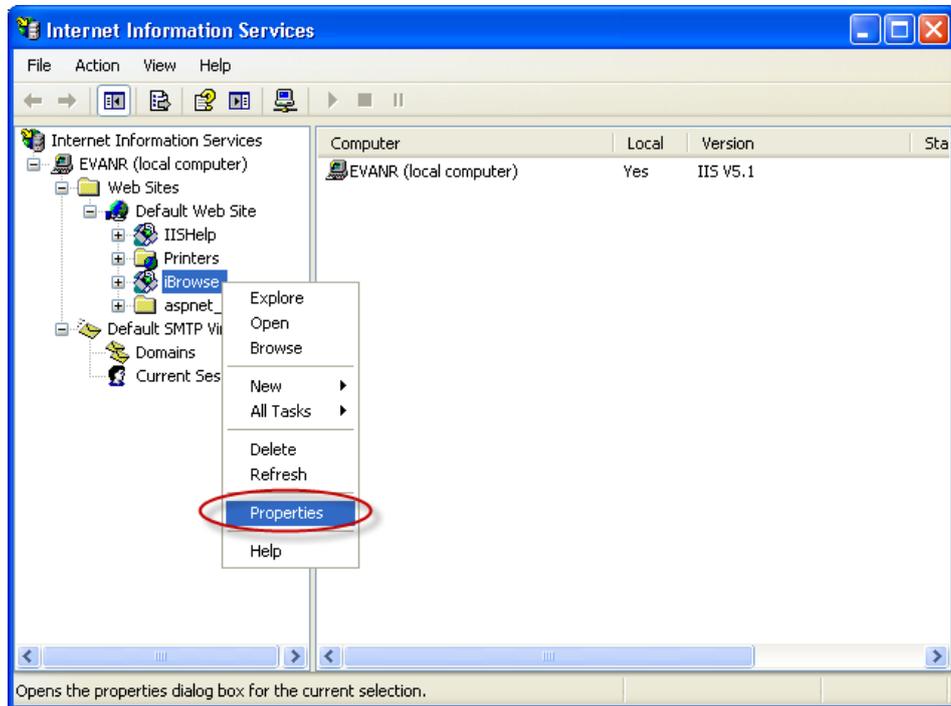
N/A	Error Number
Server Error in ibrowse Application: An Error Was Encountered While Calling OnStartPage in ASP Compatibility Mode	Error Message
This message appears upon loading iBrowse and normally indicates that the iBrowse web site is defined as ASP.NET version 2.	Description of the Problem:



Appendix: Troubleshooting - Server Error in iBrowse Application: An Error Was Encountered While Calling OnStartPage in ASP Compatibility Mode

 To solve this problem:

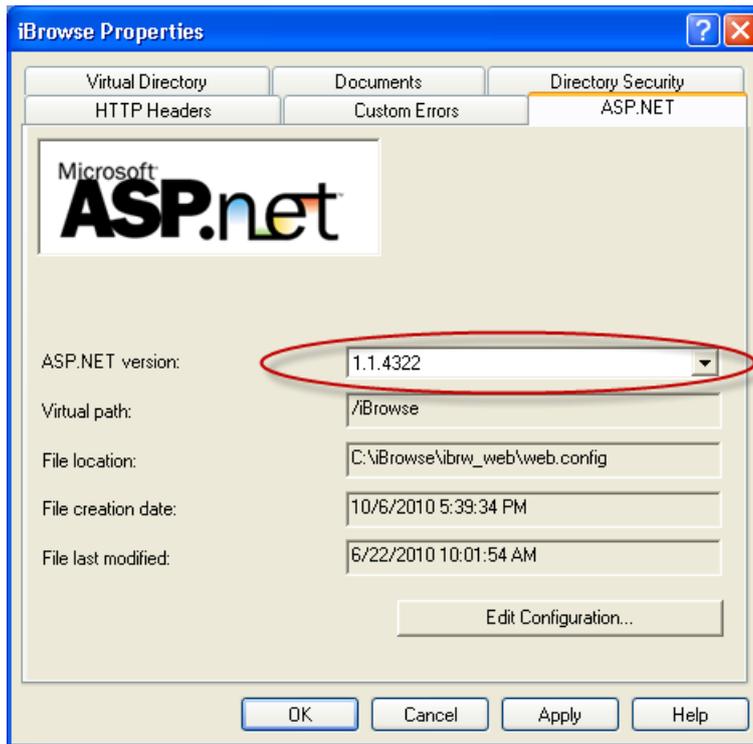
1. From **Administrative Tools**, open **IIS**.
2. From the left pane, under **Web Sites=>Default Web Site**, right-click **iBrowse**, and select **Properties**.



The **iBrowse Properties** screen is displayed.

3. Click the **ASP.NET** tab.

4. In the **ASP.NET** version area, change to version **1**.



5. Click **Apply** and then **OK**, and then exit the IIS.