

MICROS Materials Control

MCweb Installation



Product Version **8.8.00.40.1485**

Author:	Joerg Trommeschlaeger
Department:	Materials Control
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Introduction

This document will describe the installation process for Materials Control MCweb version 8.8.00.xx.

General Requirements:

Internet Information Services (IIS) > 6.0

Microsoft .NET Framework 2.0 (including all service packs and hotfixes)

Microsoft .NET Framework 3.5 (including all service packs and hotfixes)

Note: If the .NET Framework was installed before the IIS, you need to register ASP.NET. Execute %windir%\Microsoft.NET\Framework\v2.0.50727\aspnet_regiis -i from the command line.

Supported RDBMS:

Oracle 10gR2 (please find additional settings in the Troubleshoot section)

Oracle 11gR2

The Oracle Client must be installed and functional.

Required Installation Files:

- MCweb vx.x.x.x .zip
 - MCweb.Application
 - MCweb.Config
 - Infragistics

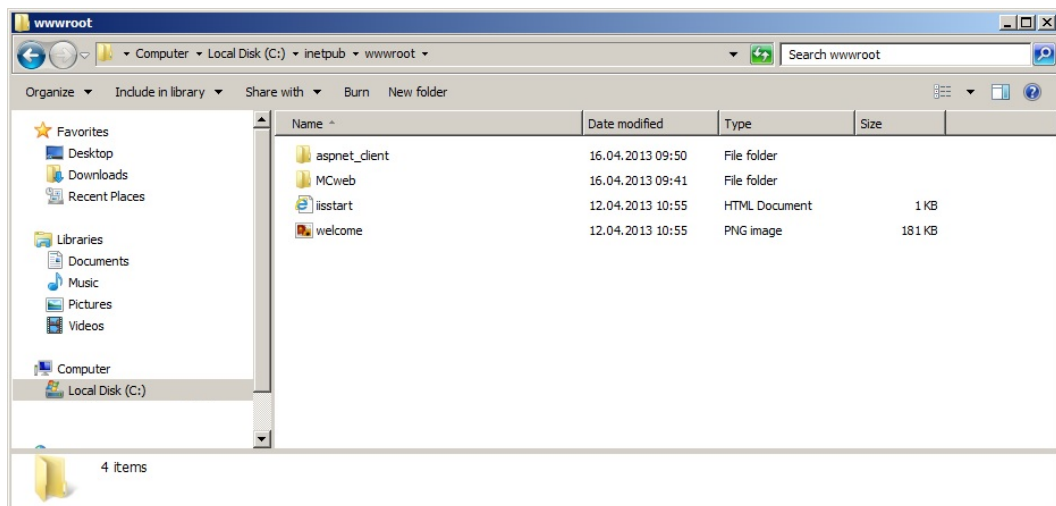
Setup:

Extract the above mentioned zip into temporary folders.

Creation of Directories:

Go to c:\inetpub\wwwroot and create the required folders for the application (e.g. MCweb)

- c:\inetpub\wwwroot\aspnet_client
 - required for the asp.net client
- c:\inetpub\wwwroot\MCweb
 - required for the main web application



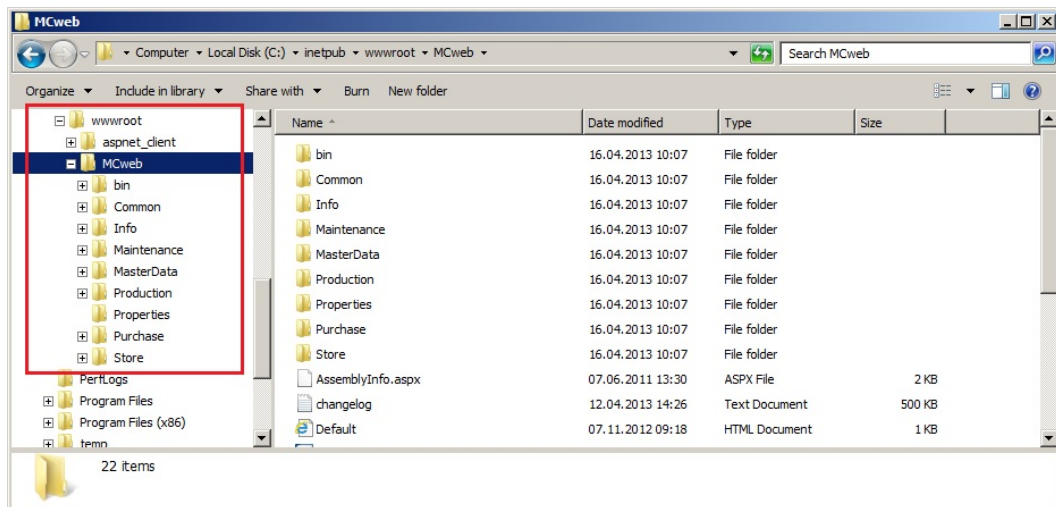
Web Service Directory:

Copy contents of mcweb.Application to c:\inetpub\wwwroot\ MCweb

Copy contents of mcweb.Config to c:\inetpub\wwwroot\ MCweb

The content of both folders must be copied into the same folder.

- “MCweb.Application” contains the non-static files.
- “MCweb.Config” contains the static files for the installation.
- “MCweb.Config” will probably overwrite some files of “MCweb.Application”.



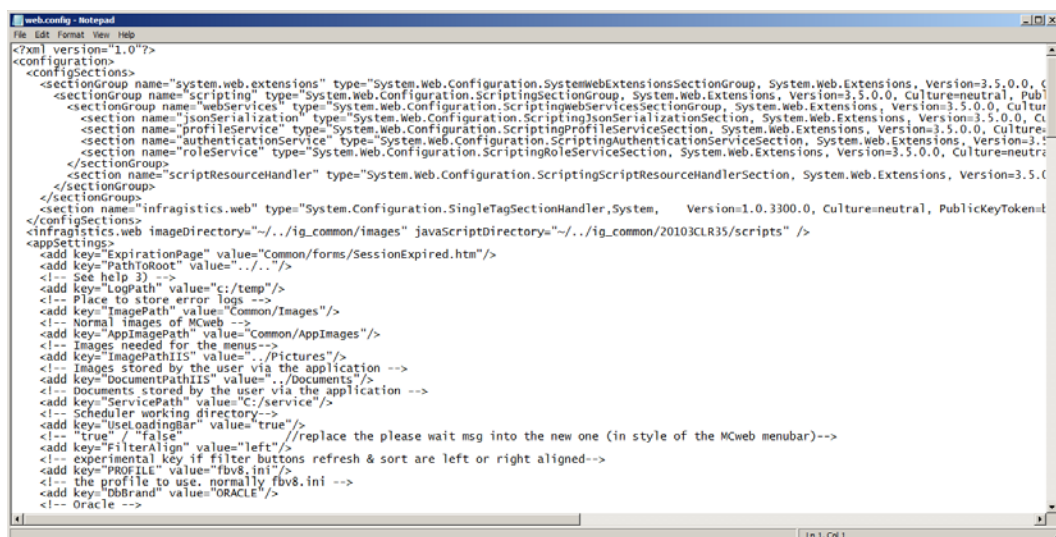
web.config Settings

In older versions a tool named as “WebConfig Wizard” was used to define the configuration settings.

It is no longer recommended to use this tool, but to edit the configuration file manually.

The configuration file is named **web.config** and can be found in the MCweb installation root directory.

Open the file with a standard editor (i.e. Notepad):



This file controls the entire behaviour of your MCweb application.

Below you can find the list of the keys which must be checked/adjusted:

- **Temporary Directory**
 - `<add key="LogPath" value="c:/temp"/>`

Make sure that the specified directory exists.

- **Picture Storage Directory**

- `<add key="ImagePathIIS" value="../Pictures"/>`
Make sure that the specified directory exists inside the folder \wwwroot\.

- **Document Storage Directory**

- `<add key="DocumentPathIIS" value="../Documents"/>`
Make sure that the specified directory exists inside the folder \wwwroot\.

- **Database Profile**

- `<add key="PROFILE" value="fbv8.ini"/>`
This value must be set to fbv8.ini in order to load the correct configuration parameters from the database.

- **DB Brand**

- `<add key="DbBrand" value="ORACLE"/>`
This value must be set to ORACLE, regardless of the Oracle version

- **DB User**

- `<add key="DbUser" value="mcddata"/>`
Please specify here the Oracle DB user name.

-

- **DB Server**

- `<add key="SERVER" value="V8"/>`
Define in here the Instance/SID name of your Oracle Database

- **Password**

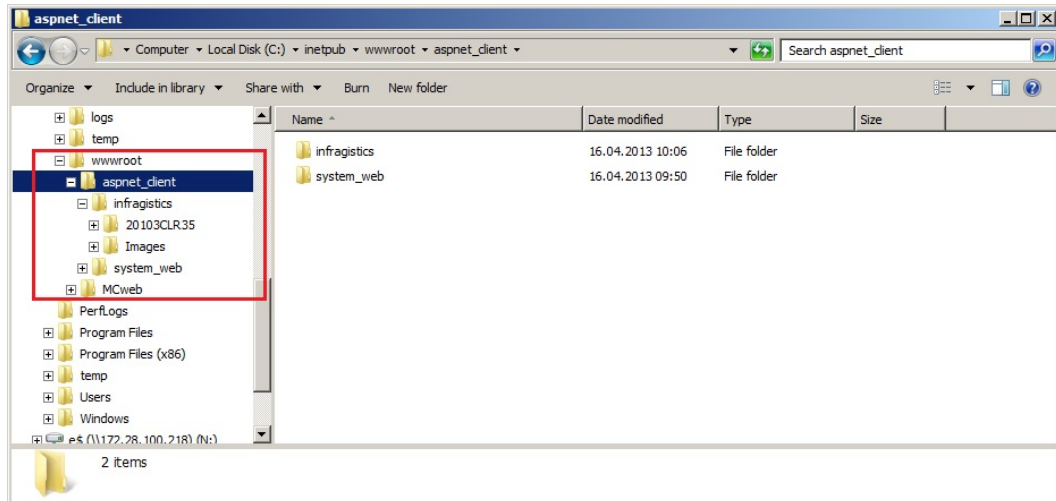
- `<add key="PASSWORD" value="micros"/>`
The Password of the Oracle User is needed in here (i.e. micros). As this password is written in clear text in the sample file we strongly recommend to consider the encryption functionality described in the manual "140_MCweb_Password_Encryption" (for version 8.7.00.x and higher)..

- **Organisations**

- `<add key="ORGANISATIONS" value="mcddata"/>`
- This value should mirror the setting "DbUser"

Infragistics Directory:

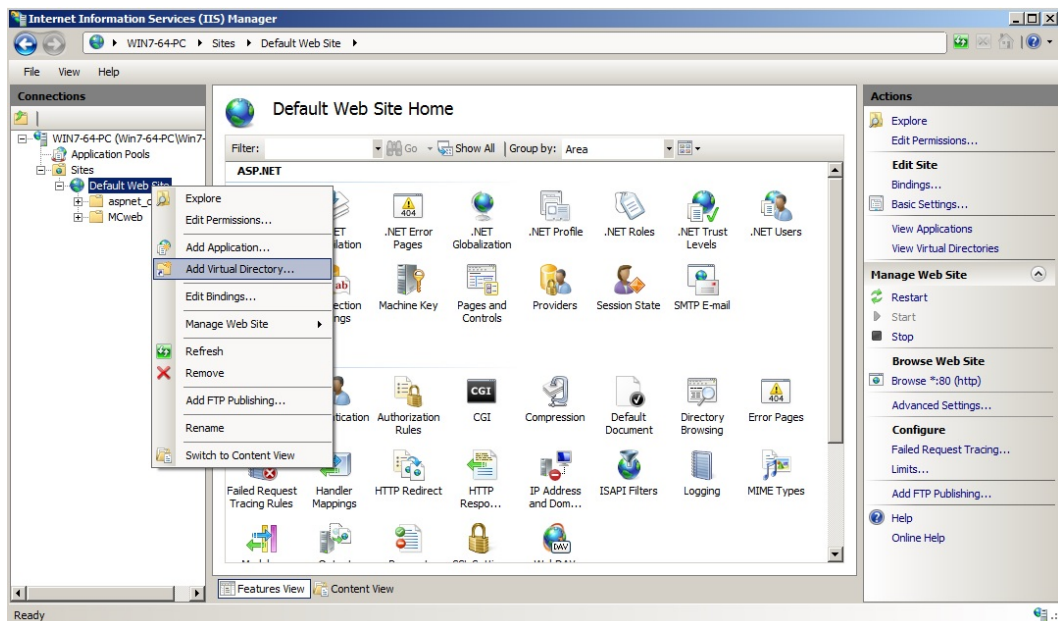
Copy contents of the Infragistics to the folder c:\inetpub\wwwroot\aspnet_client
(Necessary once only for all different MCweb Installations on one machine).
Please ensure that the latest version of the Infragistics is used.



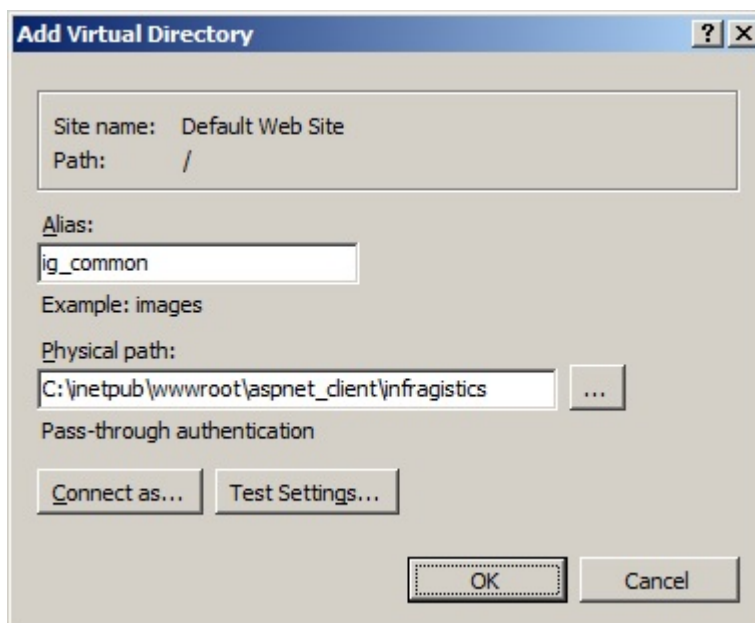
IIS Configuration:

Install Infragistics:


- Go to Control Panel > Administrative Tools > IIS > click on your host name > Sites > Default Website > right click > Add Virtual Directory

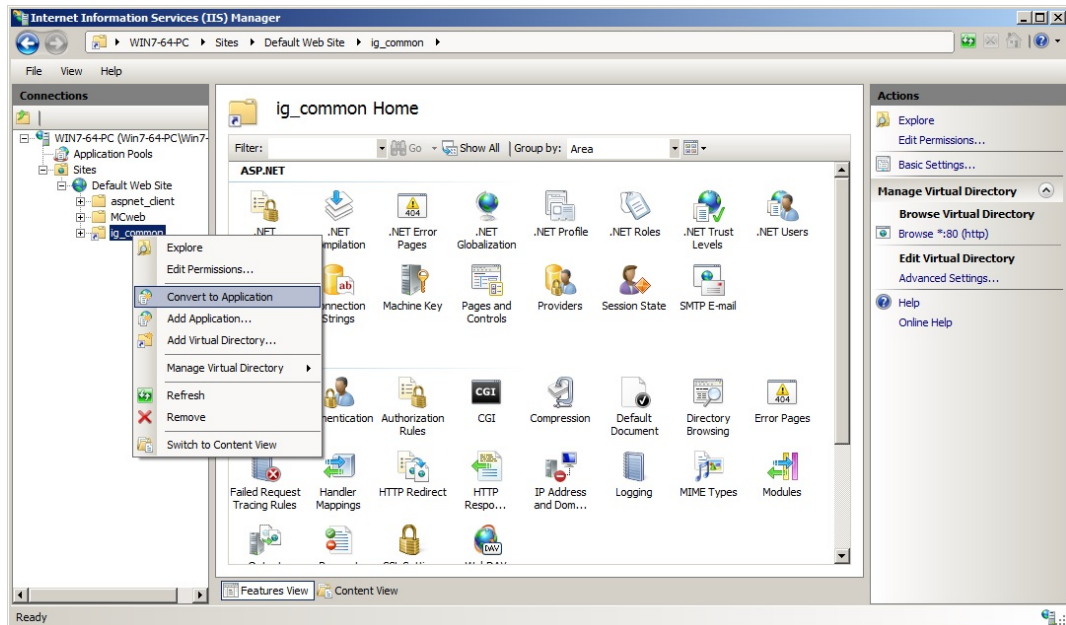


- In the following dialog define the Alias and the physical path for the files:

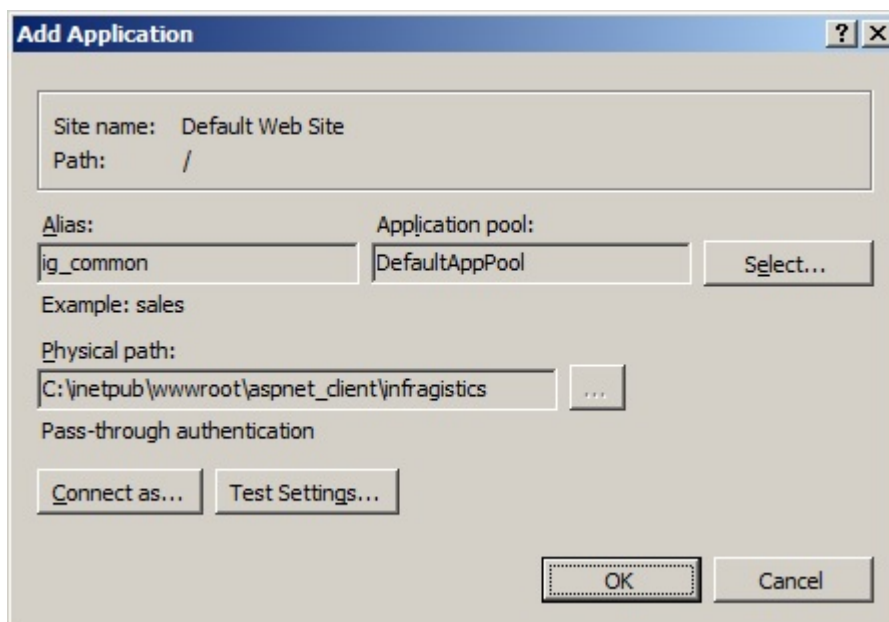


- Alias: ig_common
- Physical Path: C:\inetpub\wwwroot\aspnet_client\infragistics

- Confirm with 
- Now select the new folder ig_common in the tree view on the left and open the context menu by right click:



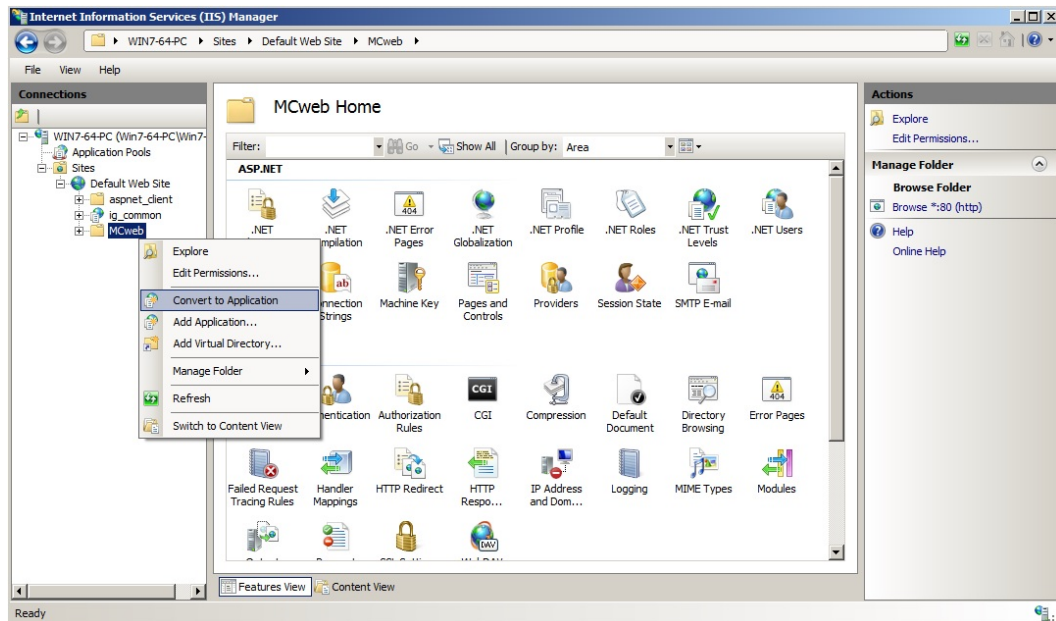
- select "Convert to Application"



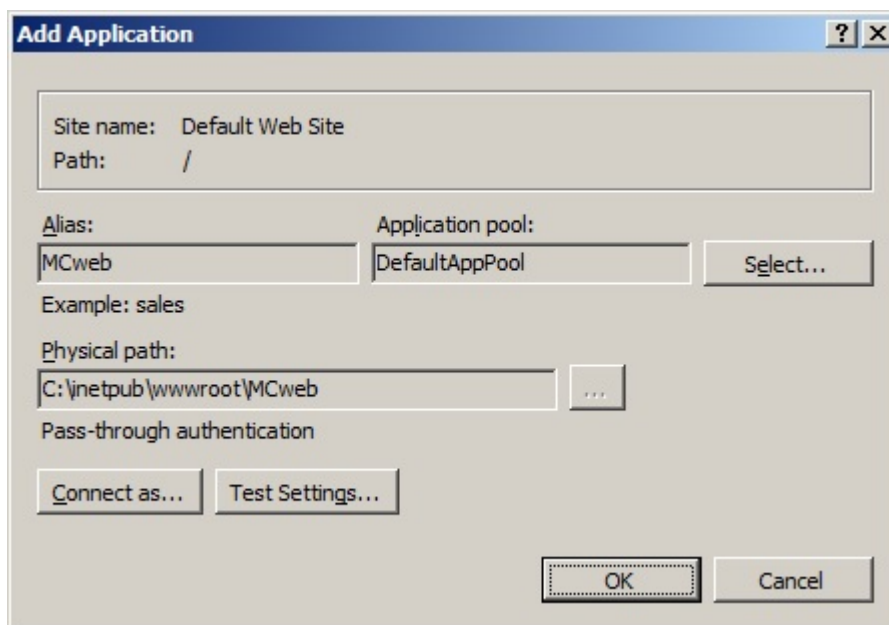
- confirm with 

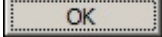
Create Application:

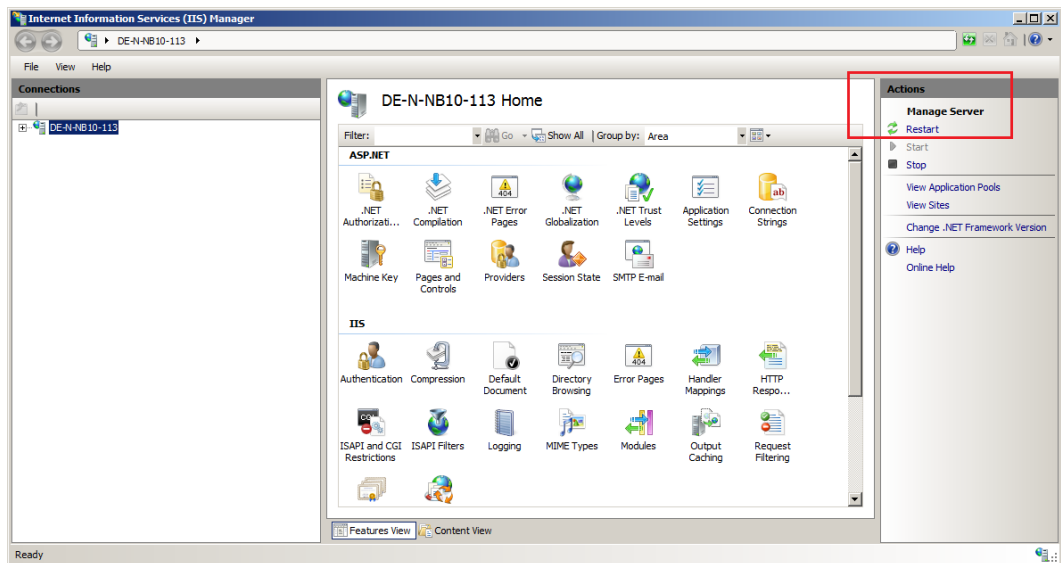
- Now select the MCweb folder in the tree view and open the context menu by right click:



- Select "Convert to Application"

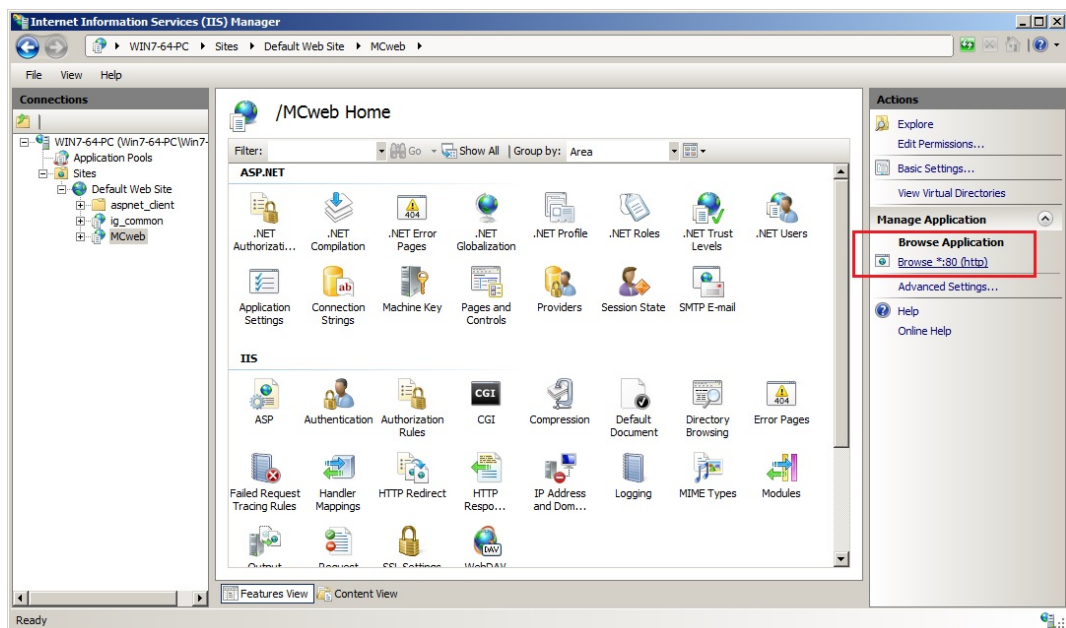


- Confirm with 
- Next step it is recommended to execute IISRESET or restart the IIS via the application:



In the ideal constellation the MCweb service is already operational now.

For the first test mark the MCweb service and select "Browse" in the left panel menu:



The system will now open a browser and try to start the application:

The screenshot shows a Windows Internet Explorer browser window titled "Login - Windows Internet Explorer". The address bar displays "http://local...". The main content area features the "micros® Materials Control" logo. Below the logo, there are two input fields labeled "User" and "Password", followed by a "Login" button. A "Close" button is located in the bottom right corner of the browser window.

micros®
Materials Control

User

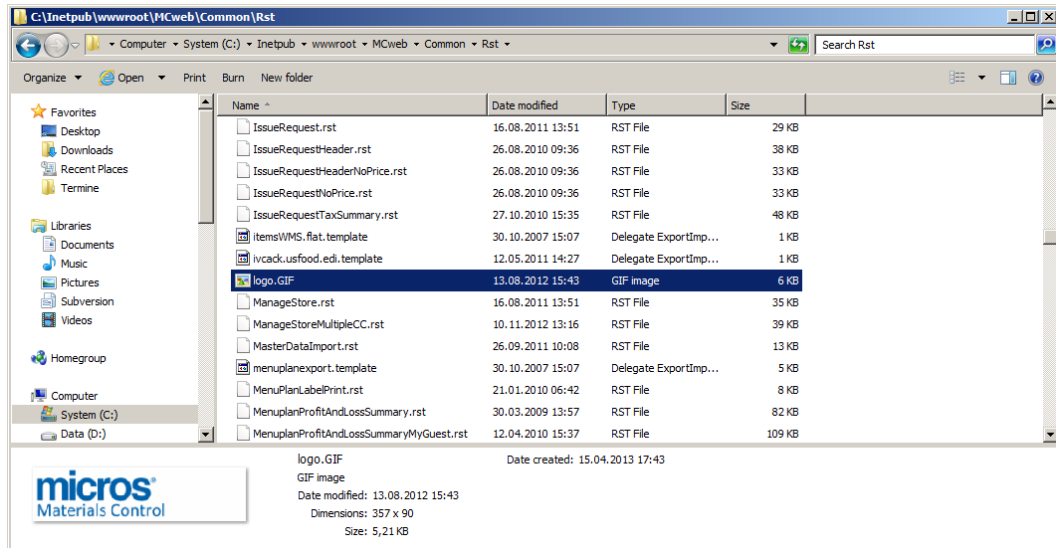
Password

Login

Close

Report Logo:

Please ensure that the correct report logo is in place.
The logo can be found at:



C:\Inetpub\wwwroot\MCweb\Common\Rst\logo.gif

This logo is part of the standard install set for MCweb, but you can also replace this logo with the customer's logo.

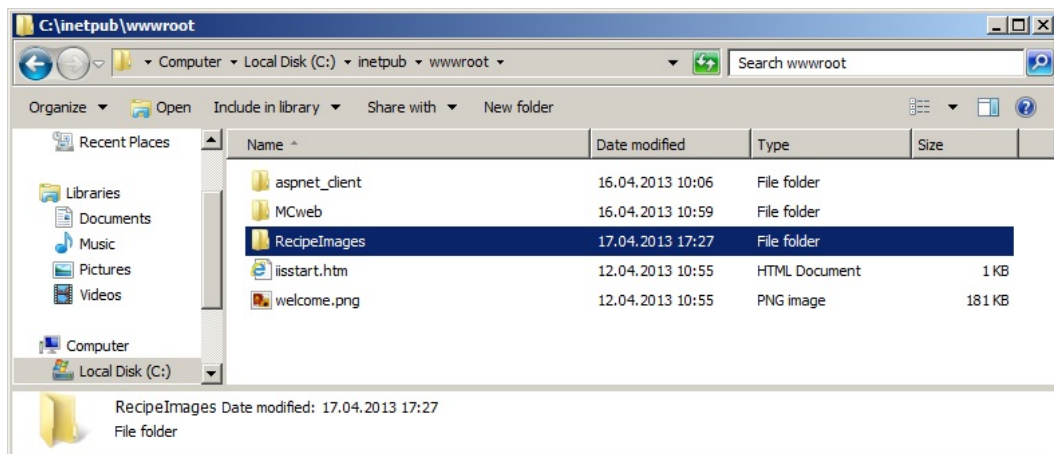
Recipe Pictures:

To display Recipe Pictures in MCweb some configurations needs to be done. Please see below all necessary settings.

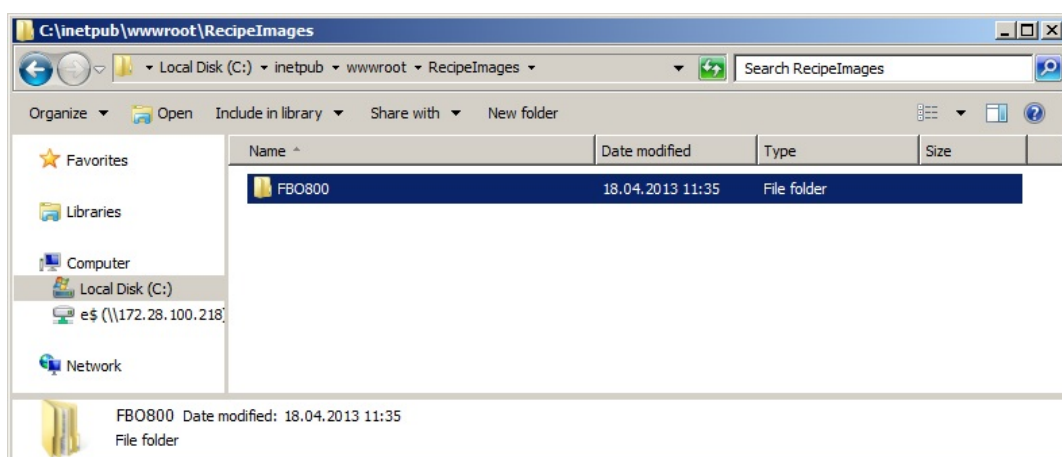
The ideal Picture size to avoid stretching is 320 x 200 Pixel

Picture Storage:

A dedicated Picture Folder on your Web Server needs to be created, i.e. "RecipeImages". The Folder can be situated anywhere on the network, we strongly suggest to keep everything on the same place i.e. C:\inetpub\wwwroot\RecipeImages\ on the web server!

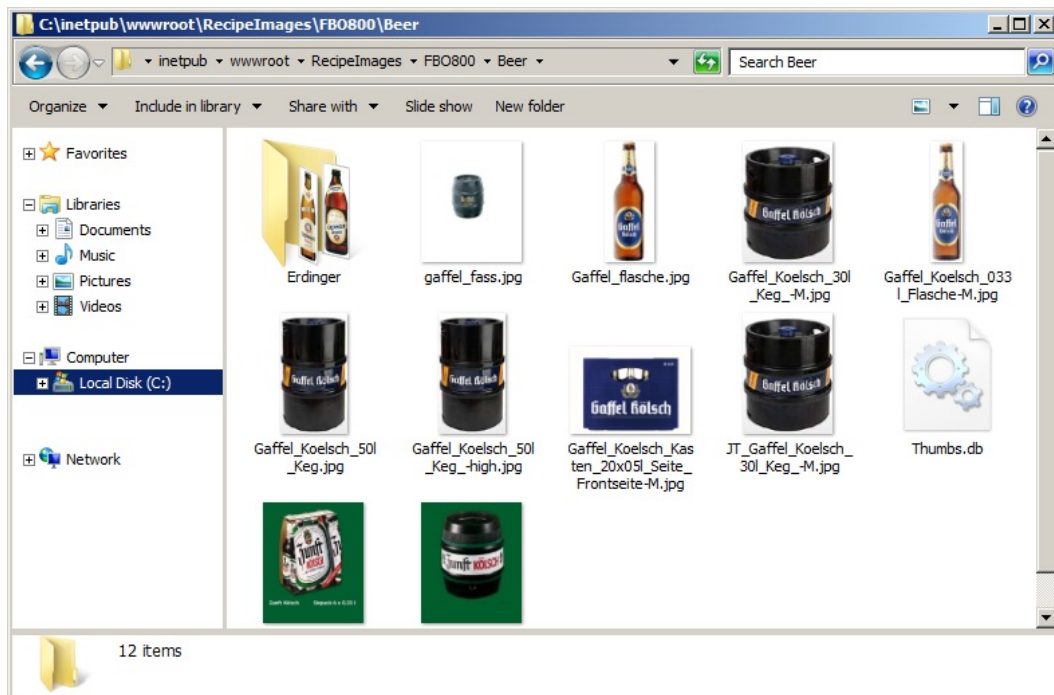


- Inside this folder another folder is required. This folder must be named exactly the same as the Oracle User in the web.config. Here in this example in the web.config the user FBO800 is used and the folder is named in the same way:



The application will always search in the {Oracle User}-named folder for the pictures. This allows the use of the same picture storage for different web service instances without sharing the pictures.

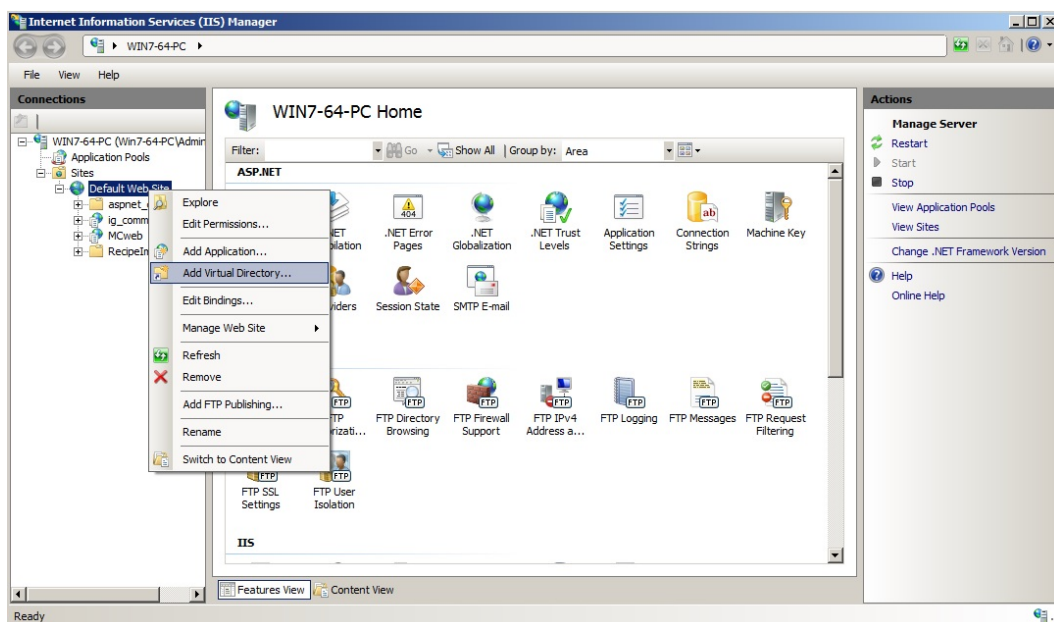
- Now copy all pictures into the {Oracle User}-named folder. The picture files also could be stored in separated subfolder (e.g. by category):

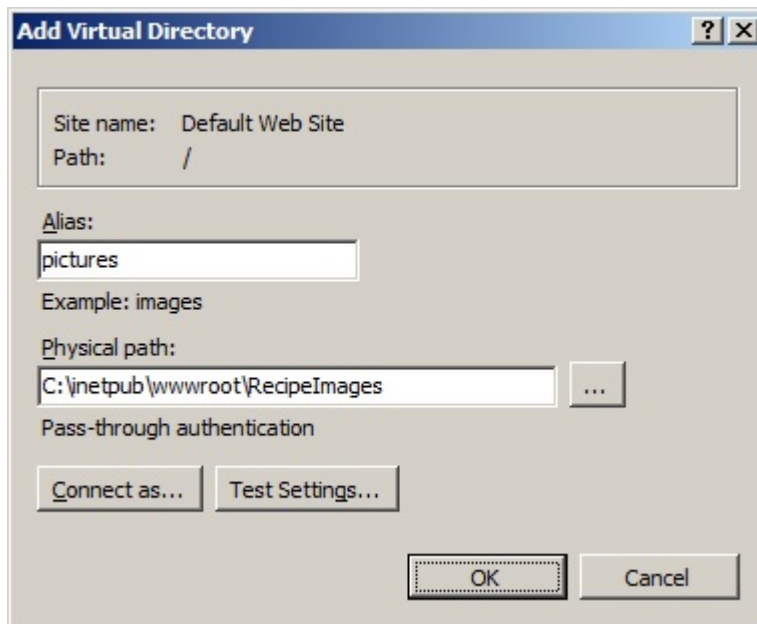


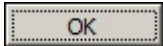
IIS Configuration:

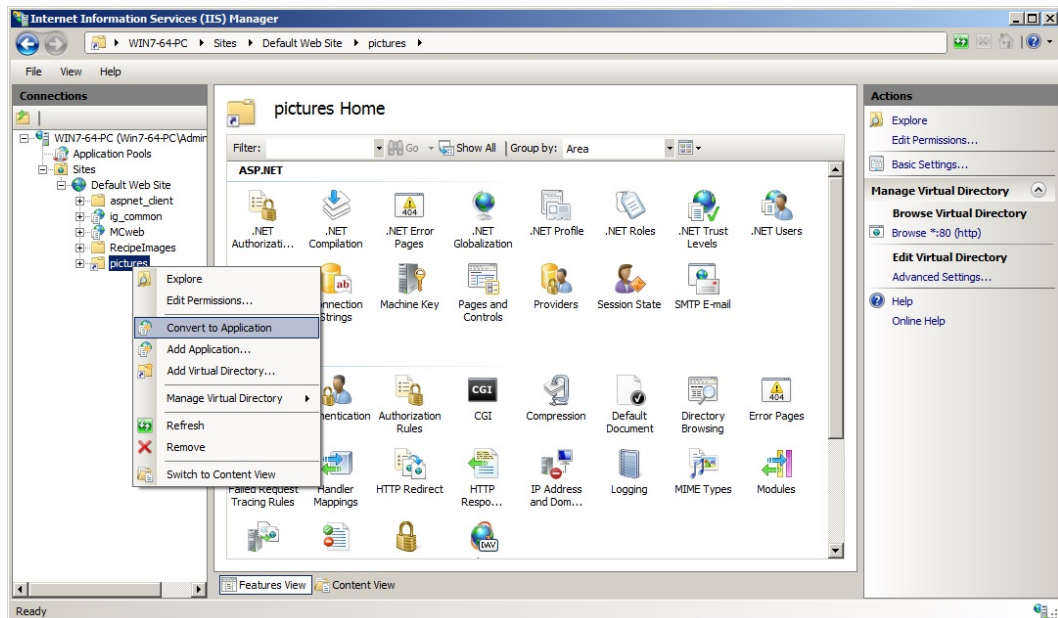
- Please open IIS Manager (Start > Settings > Control Panel > Administrative Tools > Internet Information Services).

Select Sites > Default Web Site > right click to open the context menu > Add Virtual Directory...

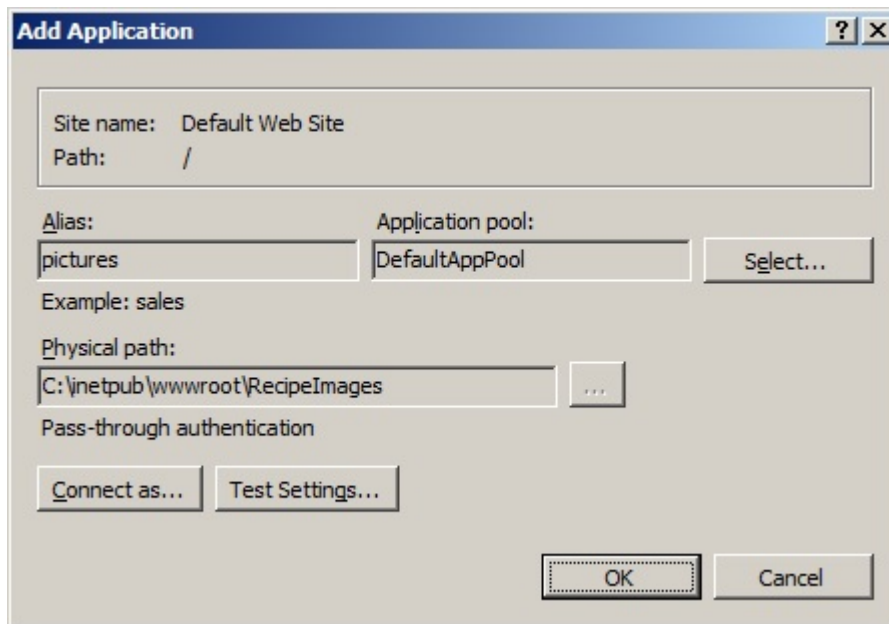





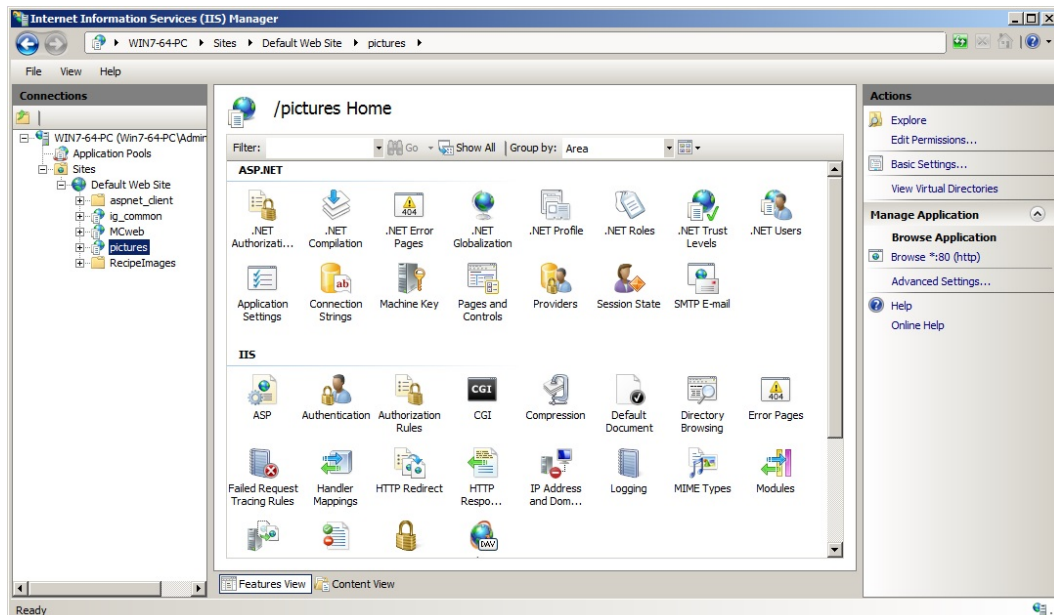
- Here define the Alias as e.g. “pictures” and the physical path pointing to the previously created directory.
- Confirm with .
- Select the now displayed virtual directory in the IIS Manager and open the context menu by right click:



- Select “Convert to Application”



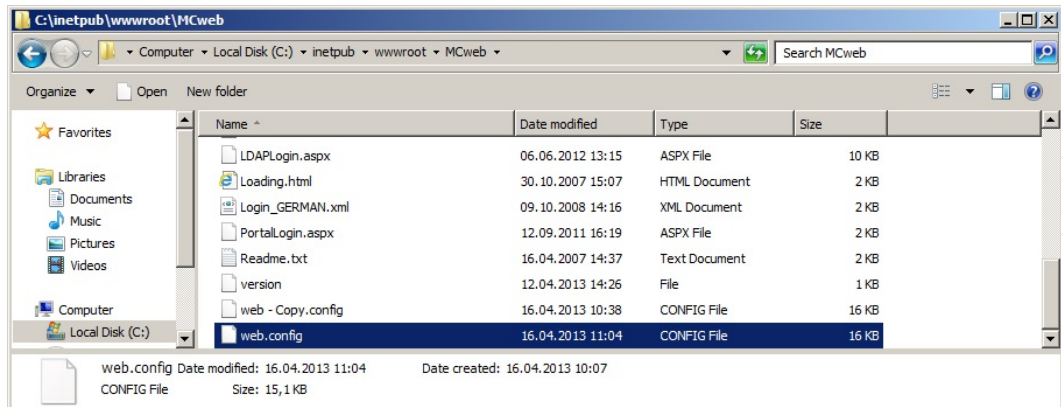
- Confirm with .
- In the IIS Manager tree view the web application “pictures” is shown.



Web.config Adjustments:

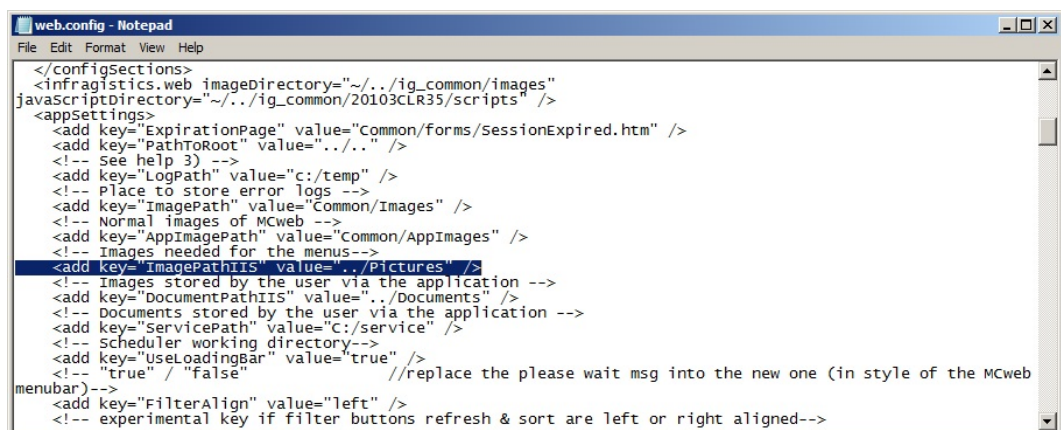
- Please open the Web.config file at your MCweb Installation Folder. This file can be found at i.e. **C:\inetpub\wwwroot\MCweb\Web.config**

An additional line needs to be entered, please add to the appsettings part following line

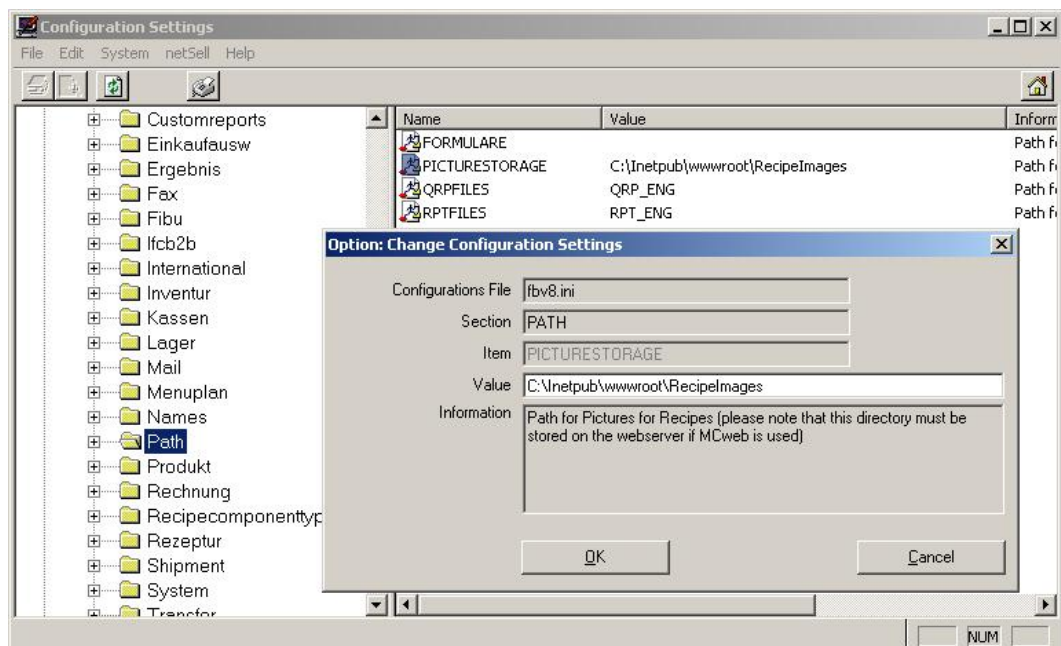


- Create a backup copy of this file first.
- Open the file with an editor.
- Search for the following key (add if not existing).

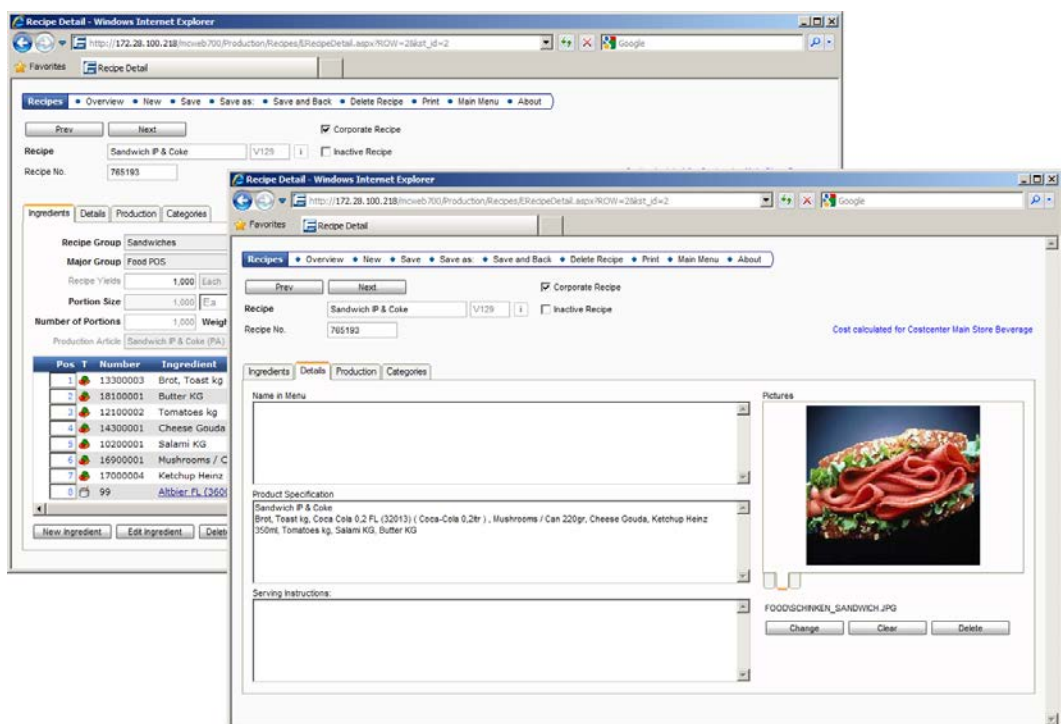
<add key="ImagePathIIS" value="..\Pictures"/>



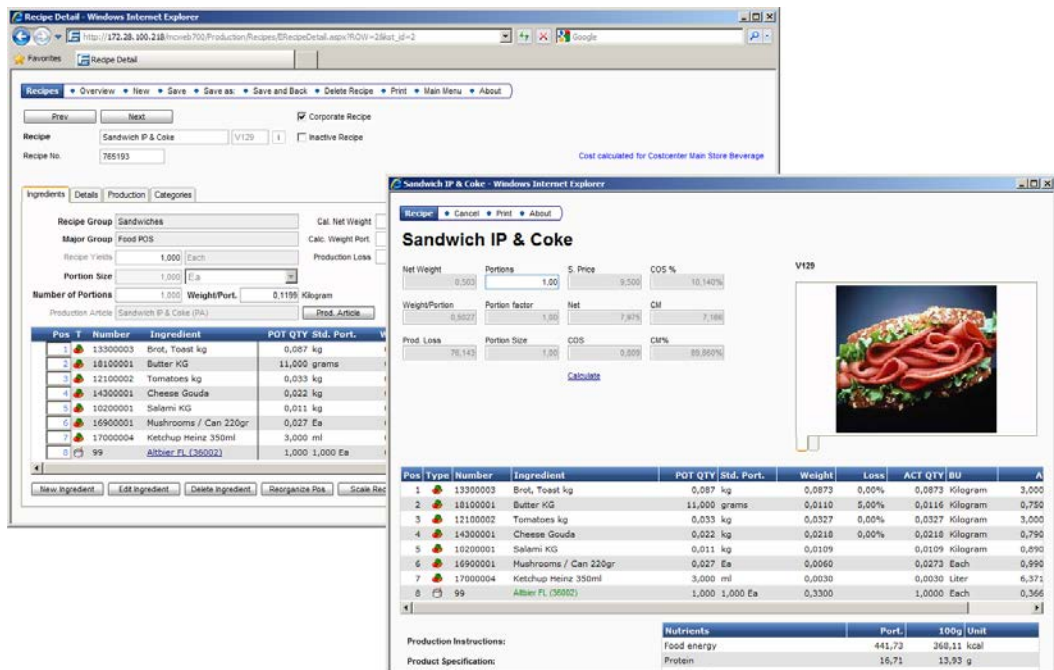
- Make sure that the term "Pictures" is defined as the used alias from the virtual directory
 - The "..\" indicates the Folder Structure please ensure that you use the correct amount of "..\" if you place the RecipelImages folder anywhere else than explained in here.
- In Thick Client define the same dedicated RecipelImages Folder at
System > Configurations > Path > PICTURESTORAGE > Value:



- Here the network share name for this folder must be used.
(the recipe storage on the web server must be shared, since otherwise the thick client users will not be able to access this folder!)
- Please assigning now the pictures to recipes as explained in the related documentation. In MCweb these pictures will now appear in the application:
- Recipes > tab Details:



➤ Recipes > Print Preview:



Document Attachments:

Since MC Version 8.6.6.30.x the application also supports document attachments for Purchase Orders and Order Requests. Please see the detailed description of this feature in the separate manual "136_MC_PO_internal_Attachments".

How to Speed up your ASP.NET application

By switching off tracing we can speed up the application. Please change `enabled="true"` to `enabled="false"` in web.config files at following folders.

→ C:\inetpub\wwwroot\MCweb\ web.config

Below you find an extract of the web.config file.

```
<!-- APPLICATION-LEVEL TRACE LOGGING
Application-level tracing enables trace log output for every page within an
application.
Set trace enabled="true" to enable application trace logging. If
pageOutput="true",
The trace information will be displayed at the bottom of each page.
Otherwise, you can view the application trace log by browsing the "trace.axd"
page from your web application root.

-->
<trace
  enabled="false"
```



```
requestLimit="10"
pageOutput="false"
traceMode="SortByTime"
    localOnly="true"
/>
```

If you want to see what is usually collected during trace, open file
C:\inetpub\wwwroot\MCwebV3\trace.axd

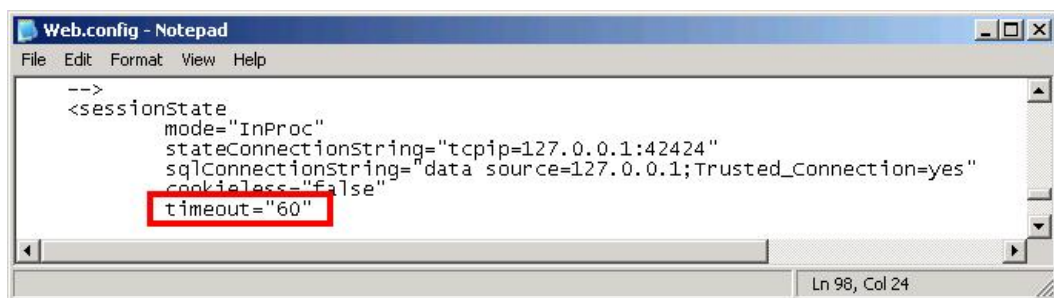
How to extend the Internet Explorer Session Timeout

By default Microsoft Internet Explorer will close your MCweb Session after 20 minutes, if you haven't clicked on any function at MCweb.

At Timeout you will receive a message like "...session has expired".

To extend the timeout please change following at C:\inetpub\wwwroot\MCweb\web.config

You can change the timeout in minutes, i.e. as shown below to 60 minutes.

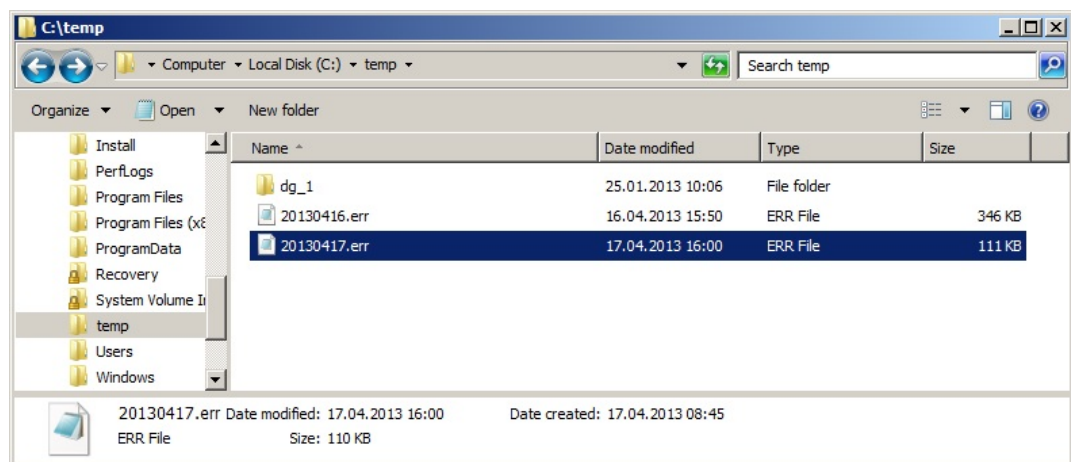


Troubleshooting:

This section will describe some problems which can occur in certain environments.

Error Log File:

In case of any error the support teams will always need the current log file. This can be found on the c:\ drive in the defined TEMP folder.:



The application creates one .err file per day, e.g. 20130417.err for the error log for April 17th 2013.

Error on first time choosing ORDERING I:

Please ensure that Internet Information Services (IIS) was installed first followed by Microsoft .NET Framework.

If Microsoft .NET Framework was installed 1st:

If the .NET Framework was installed before the IIS, you need to register ASP.NET. Execute %windir%\Microsoft.NET\Framework\v2.0.50727\aspnet_regiis -i from the command line.

Error on first time choosing ORDERING II:

Once you are logged into the system click on Ordering to see if the Database connection is available. If you run into error "unable to find/open oci.dll" the ASPNET-User has no Administrative Rights.

If the error still occurs, make sure the oci.dll exist in c:\oracle\Ora<Version>\bin or wherever your Oracle was installed.

Open Orders not shown in Receiving:

This occurs because of a bug in Oracle Patch 9.2.0.4
In this case please upgrade your Oracle Server and Client to Oracle 10g or 11g.

Pages not refreshing:

If your pages are not refreshing, after you changed certain information please check that the following setting in your Internet Explorer > General > temporary Internet files > settings is set to NEVER.



Oracle 10g settings

Resolution:

Oracle 10g uses dynamic transparent network substrate (TNS) registration, which causes problems when using templates.

To get around the ORA-12528 error, add a reference to the database in the **listener.ora** file...

Common language for mortals:

What needs to be done on server where Oracle is installed – example for this instance:

LISTENER.ORA

listener.ora Network Configuration File:

C:\oracle\product\10.1.0\db_1\network\admin\listener.ora

Generated by Oracle configuration tools.

SID_LIST_LISTENER =

(SID_LIST =

(SID_DESC =


```
(SID_NAME = PLSExtProc)
(ORACLE_HOME = C:\oracle\product\10.1.0\db_1)
(PROGRAM = extproc)
)
(SID_DESC =
(SID_NAME = testora1)
(GLOBAL_DBNAME = testora1)
(ORACLE_HOME = C:\oracle\product\10.1.0\db_1)
(SID = testora1)
)
)
```

Once Lines in red have been added, restart listener service, than Oracle service.
After that, connections from MCweb are possible.

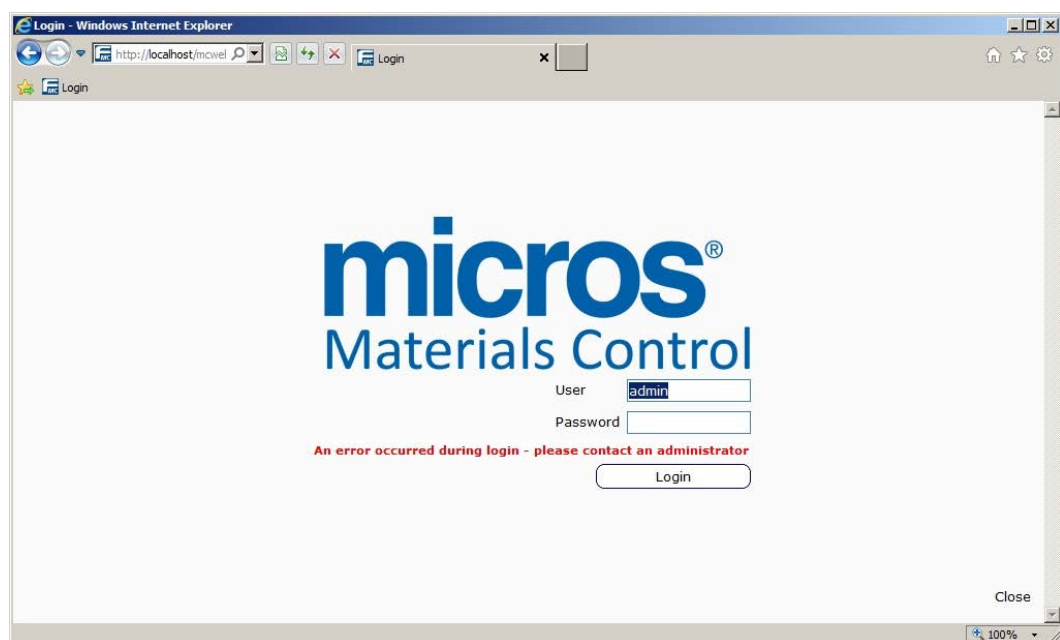
Connection Error

Especially when working in 64bit environments and having the thick client and the MCweb server installed on the same machine, it very much depends on the sequence of the single installations.

In general the following is recommended:

- Operating System
- .NET Frameworks
- Internet Information Services
- Oracle Client 64bit
- Oracle Client 32bit

In certain cases the application may not be able to find the proper Oracle Home, even though this is defined in the environment variables.



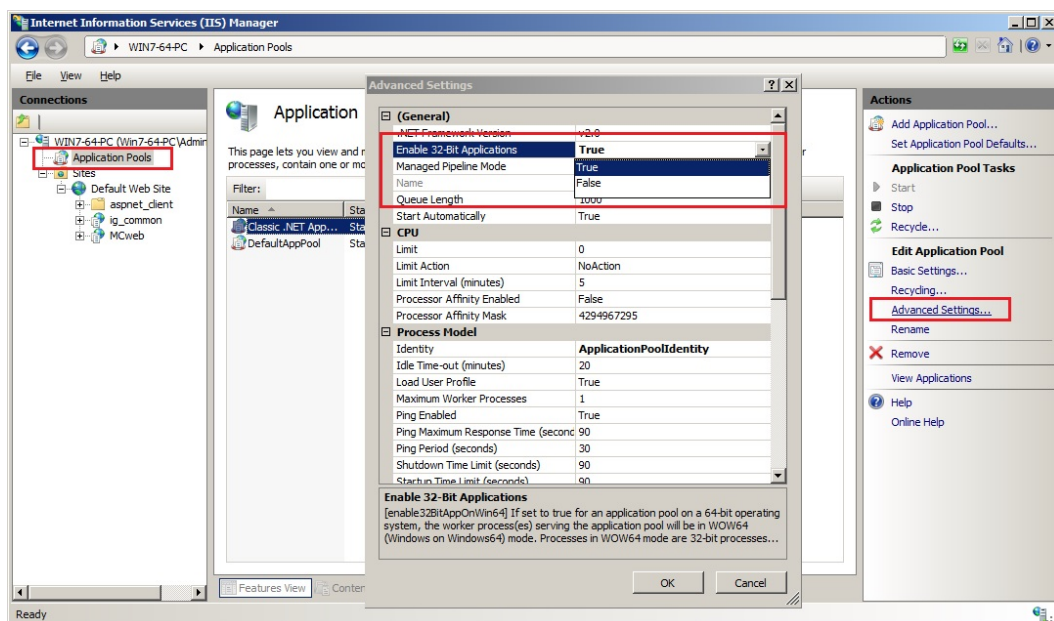
The .err log file will show the following entry:

```

20130417.err Netprolog
File Edit Format View Help
System.Web.HttpApplication.ExecuteStep(IExecutionStep step, Boolean& completedSynchronously) IL=1b NAT=ab
threadID: 2:3 - Time: 1:16:06.000 - User: 1:16:06.000 (server) - Organization: (unknown) - Application: W9w9h 8.00.00.1482 - (unknown)
System.Web.HttpApplication.ApplicationStepManager.ResumeSteps(Exception error) IL=109 NAT=1a5
System.Web.HttpApplication.System.Web.IHttpHandler.BeginProcessRequest(HttpContext context, AsyncCallback cb, Object extraData) IL=5c NAT=d3
System.Web.HttpRuntime.ProcessRequestInternal(HttpWorkerRequest wr) IL=fc NAT=1c4
System.Web.HttpRuntime.ProcessRequestNoAuth(HttpWorkerRequest wr) IL=26 NAT=7c
System.Web.HostInit.ISAPIRuntime.ProcessRequest(IntPtr rcb, IntPtr iwrType) IL=4b NAT=18c
threadID: 2:3 - Time: 1:16:06.000 - User: 1:16:06.000 (server) - Organization: (unknown) - Application: W9w9h 8.00.00.1482 - (unknown)
threadID: 2:3 - System.InvalidOperationException: Attempt to load oracle client libraries threw BadImageFormatException. This problem will occur when running in 64 bit mode with the 32 bit oracle client components installed.
Exception Stack:
System.Data.ProviderBase.DbConnectionPool.GetConnection(DbConnection owningObject) IL=12a NAT=242
threadID: 2:3 - System.InvalidOperationException: Attempt to
running in 64 bit mode with the 32 bit oracle client components
caused by System.Data.OracleClient
Exception Stack:
System.Data.ProviderBase.DbConnectionPool.GetConnection(DbConnection
m.Data.ProviderBase.DbConnectionPool.GetConnection(DbConnection
ing, Decimal&
ateProfile) IL=58
NAT=45
Delegatesys.DataAccess.UserProfile.ctor(ConnectionParams connectionParams, IntPtr bst_id, String prf_name, String app_dir, Boolean generateProfile) IL=A5
NAT=1ff
Delegatesys.DataAccess.UserProfile.ctor(ConnectionParams connectionParams, IntPtr bst_id, String prf_name, String app_dir) IL=0 NAT=79
Delegatesys.Inventory.FormLogin.Login_Click(Object sender, EventArgs e) IL=796 NAT=162
Complete Stack:
System.Web.UI.WebControls.Button.OnClick(EventArgs e) IL=19 NAT=73
System.Web.UI.Udon.RaisePostBackEvent(String eventArgument) IL=31 NAT=5c
System.Web.UI.Page.RaisePostBackEvent(IPostBackEventHandler sourceControl, String eventArgument) IL=0 NAT=1d
System.Web.UI.Page.ProcessRequestMain(Boolean includeStagesBeforeAsyncPoint, Boolean includeStagesAfterAsyncPoint) IL=5c2 NAT=bA5
System.Web.UI.Page.ProcessRequest(Boolean includeStagesBeforeAsyncPoint, Boolean includeStagesAfterAsyncPoint) IL=3c NAT=a0
System.Web.UI.Page.ProcessRequest() IL=1c NAT=5b
System.Web.UI.Page.ProcessRequest(HttpContext context) IL=21 NAT=f0
System.Web.UI.Page.ProcessRequest(HttpContext context) IL=0 NAT=5c
System.Web.HttpApplication.IHttpHandlerExecutionStep.System.Web.HttpApplication.IExecutionStep.Execute() IL=124 NAT=257
System.Web.HttpApplication.ExecuteStep(IExecutionStep step, Boolean& completedSynchronously) IL=1b NAT=ab
System.Web.HttpApplication.ApplicationStepManager.ResumeSteps(Exception error) IL=109 NAT=1a5
System.Web.HttpApplication.System.Web.IHttpHandler.BeginProcessRequest(HttpContext context, AsyncCallback cb, Object extraData) IL=5c NAT=d3
System.Web.HttpRuntime.ProcessRequestInternal(HttpWorkerRequest wr) IL=fc NAT=1c4

```

In this situation the used application pool could be changed to allow 32bit applications.



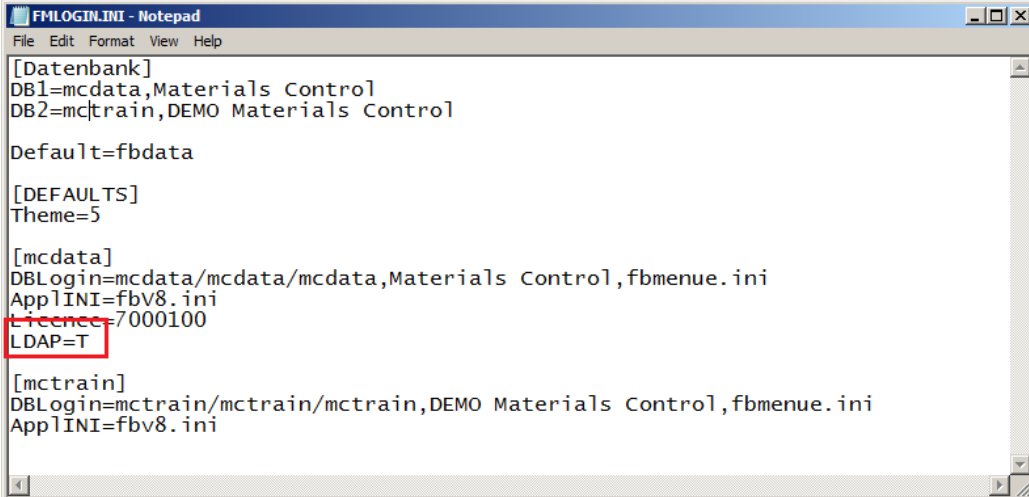
Domain User Support

Since version 8.7.30.xx the application allows to use the Windows Domain User to login into Materials Control. Using this feature Domain Users known to Materials Control / MCweb do not need to enter the user name and the password anymore.

In order to use this function the following must be configured:

FMLOGIN.INI:

Open the FMLOGIN configuration file and select the section for the database to be configured.



```

[FMLOGIN.INI - Notepad]
File Edit Format View Help

[Datenbank]
DB1=mcdata,Materials Control
DB2=mctrain,DEMO Materials Control

Default=fbdata

[DEFAULTS]
Theme=5

[mcdata]
DBLogin=mcdata/mcdata/mcdata,Materials Control,fbmenue.ini
AppINI=fbv8.ini
Licence=7000100
LDAP=T

[mctrain]
DBLogin=mctrain/mctrain/mctrain,DEMO Materials Control,fbmenue.ini
AppINI=fbv8.ini
  
```

```

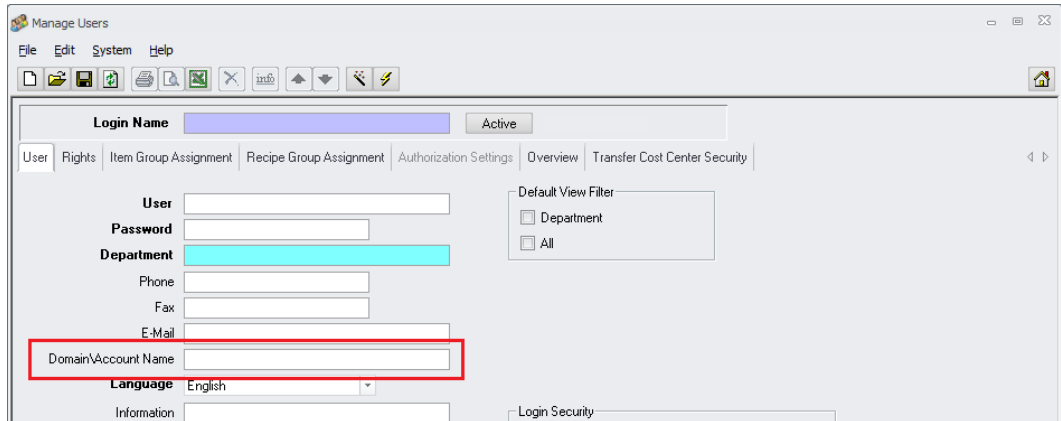
[MCDATA]
DBLogin= MCDATA/ MCDATA/MCDATA,Materials Control,fbmenue.ini
AppINI=fbv8.ini
Licence=7000100
LDAP=T
  
```

The new entry "LDAP=T" must be added. Once done please save and close the file. Now restart the application.

User Configuration:

Open the FMLOGIN configuration

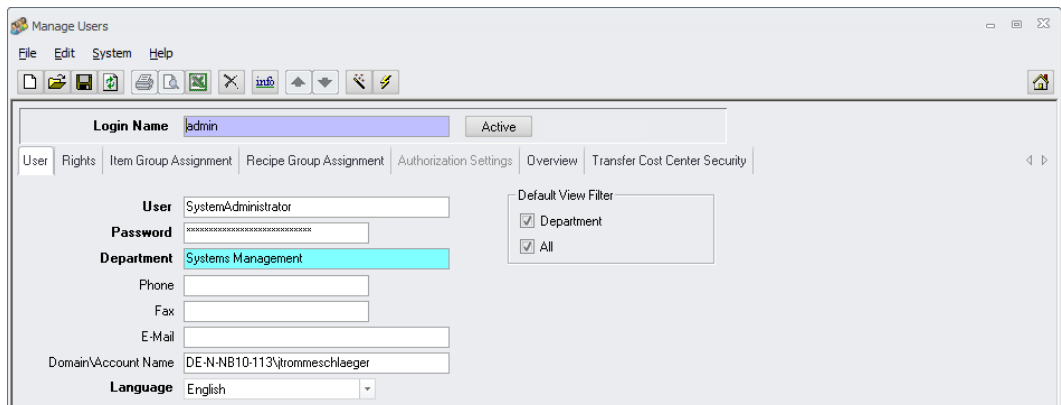
Go to System > Users:



The screenshot shows the 'Manage Users' application window. The 'User' tab is selected. The 'Domain/Account Name' field is highlighted with a red rectangle. The 'Login Name' field is 'admin'. The 'User' field is empty. The 'Password' field is empty. The 'Department' field is 'Systems Management'. The 'Phone' field is empty. The 'Fax' field is empty. The 'E-Mail' field is empty. The 'Domain/Account Name' field is empty. The 'Language' field is 'English'. The 'Default View Filter' section has 'Department' and 'All' checked.

Here now a new field is visible. For each user the domain account name should be defined.

Example:



The screenshot shows the 'Manage Users' application window. The 'User' tab is selected. The 'Domain/Account Name' field is filled with 'DE-N-NB10-113\jtrommeschlaeger'. The 'Login Name' field is 'admin'. The 'User' field is 'SystemAdministrator'. The 'Password' field is filled with asterisks. The 'Department' field is 'Systems Management'. The 'Phone' field is empty. The 'Fax' field is empty. The 'E-Mail' field is empty. The 'Language' field is 'English'. The 'Default View Filter' section has 'Department' and 'All' checked.

The application user “admin” is assigned to the domain user “DE-N-NB10-113\jtrommeschlaeger”.

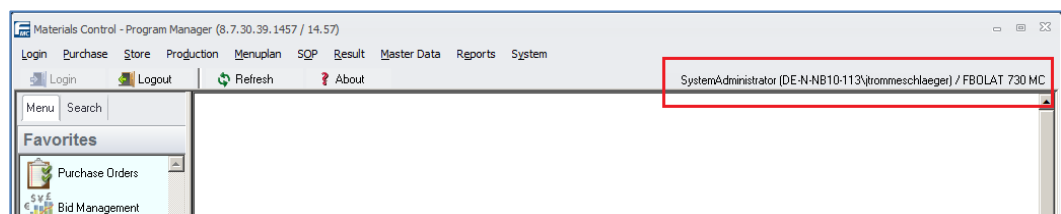
Using the Thick Client:

When starting the Materials Control the application looks if the current Windows user can be found in the MC user table.

If this exists ...



... the user does not have to enter the user name or the password anymore. He may select a different database using the Options button, otherwise he can just click OK to login.



In Materials Control now at the top right corner both, the application user as well as the Windows user, are shown.

For all Windows users not assigned to a Materials Control user the behaviour will be the same as without using this function. User name and password must be entered.

Using the MCweb Client:

This feature also could be used with MCweb.

Pre-requisites:

- Client Computers and Web server must reside in the same domain. Otherwise the current domain user will be unknown to the web server.
- Clients must have a direct connection to the server (no proxy in between)
- Intranet only

Technically, LDAP authentication via NTLM is possible over an Internet connection, but strongly advised against due to security and general feasibility concerns.

Overview:

To enable Active Directory (LDAP) authentication in MCweb, following steps have to be performed:

1. Enable Windows Authentication in IIS
2. Adjust the Web.config (use supplied default Web.config in install package)
3. Configure mappings from the Domain user to the MCweb user (in Materials Control / User Management)
4. Distribute links / train users to open the LDAP Login page

ENABLING WINDOWS AUTHENTICATION IN IIS

Windows Server 2008 (IIS 7):

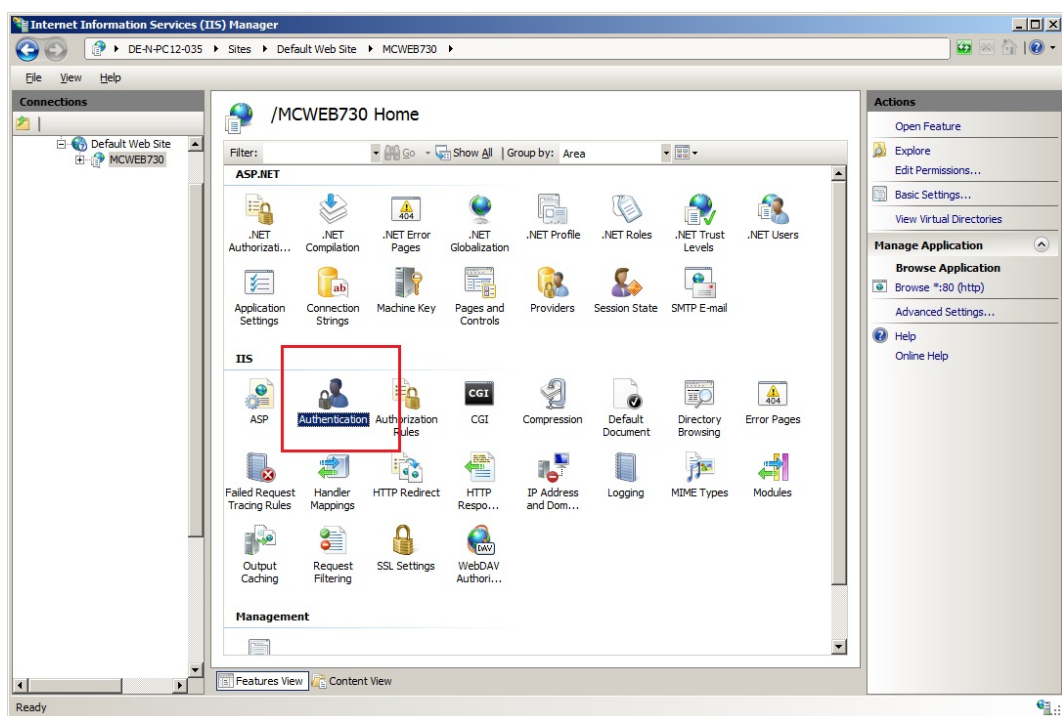
<http://technet.microsoft.com/en-us/library/cc754628%28v=ws.10%29.aspx>

Windows Server 2003 (IIS 6):

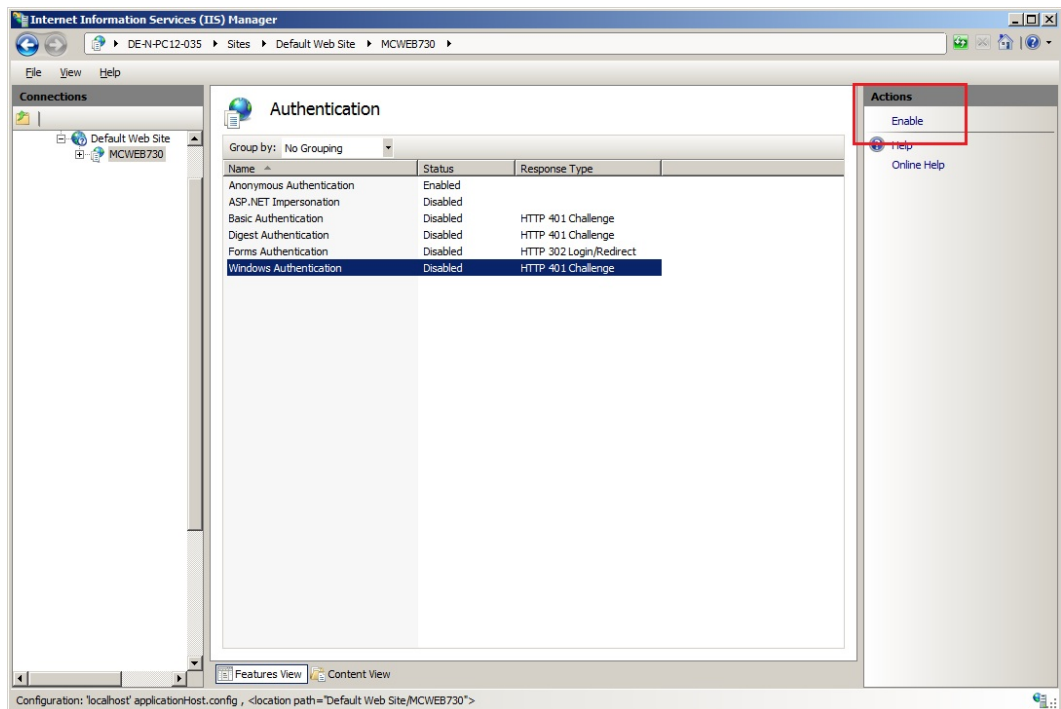
<http://www.microsoft.com/technet/prodtechnol/WindowsServer2003/Library/IIS/5f8fe119-4095-4094-bba5-7dec361c7afe.mspx?mfr=true>

Example for IIS 7:

Open the Internet Information Services (IIS) Manager and browse to your MCweb instance:



Locate the feature „Authentication“ and open it:



Here the option „Windows Authentication“ is listed. In the top right corner the function could be enabled.

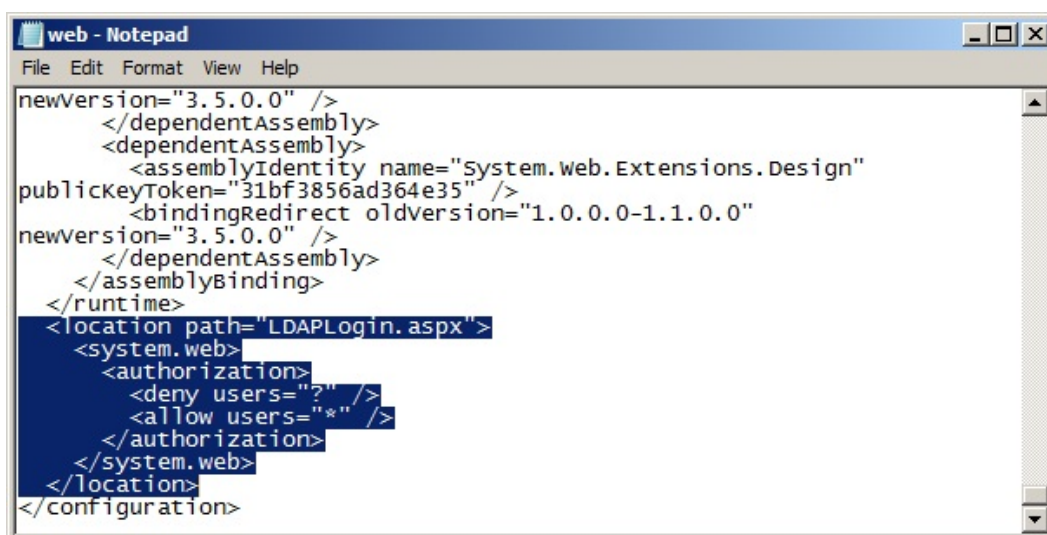
Note: The Windows Authentication is not visible if the Webserver is not connected to a domain.

ADJUSTING WEB.CONFIG

The Web.config needs to be adjusted to force client authentication on the LDAP Login page. This is necessary because “anonymous” access (via regular Materials Control user/password) to the application should still be allowed in general, and the browser/client does not send any authentication information by itself, unless it is explicitly forced to do so.

This can be accomplished in two ways:

1. Use the default Web.config supplied in the MCweb installation package
 - a. Make a backup of the original Web.config
 - b. Overwrite the original with the default included in the package
 - c. Copy the entire <appSettings> section from the backup and overwrite the empty/default values of the new Web.config
2. Alternatively, if the Web.config contains other adjustments besides <appSettings> that should not be lost, the new section can be added manually
 - a. Open the default Web.config and scroll to the bottom
 - b. Locate the <location path="LDAPLogin.aspx">[...]</location> section
 - c. Copy the entire section to the original Web.config



```

web - Notepad
File Edit Format View Help
newVersion="3.5.0.0" />
  </dependentAssembly>
  <dependentAssembly>
    <assemblyIdentity name="System.Web.Extensions.Design"
publickeyToken="31bf3856ad364e35" />
    <bindingRedirect oldVersion="1.0.0.0-1.1.0.0"
newVersion="3.5.0.0" />
  </dependentAssembly>
</assemblyBinding>
</runtime>
<location path="LDAPLogin.aspx">
  <system.web>
    <authorization>
      <deny users="?"/>
      <allow users="*" />
    </authorization>
  </system.web>
</location>
</configuration>

```

Save & close the file.

Restart the IIS service using the command IISRESET.

ACTIVE DIRECTORY (LDAP) LOGIN PAGE

The LDAP Login page can be reached via the URL:

<http://<WebAppURL>/LDAPLogin.aspx>

If the Web.config is configured to allow connection to multiple databases, the Company/DB to log in to can be supplied as URL parameter:

<http://<WebAppURL>/LDAPLogin.aspx?company=DBName>

In general the LDAP Login page functions and looks similar to the regular login page:



The “User” field in this case contains the read-only “DOMAIN\Username” that needs to be entered in the User Management module for a successful user mapping, and of course varies depending on the user who visits the site. If no valid authentication (data delivered by the browser) can be acquired, the user is automatically redirected to the regular login page.

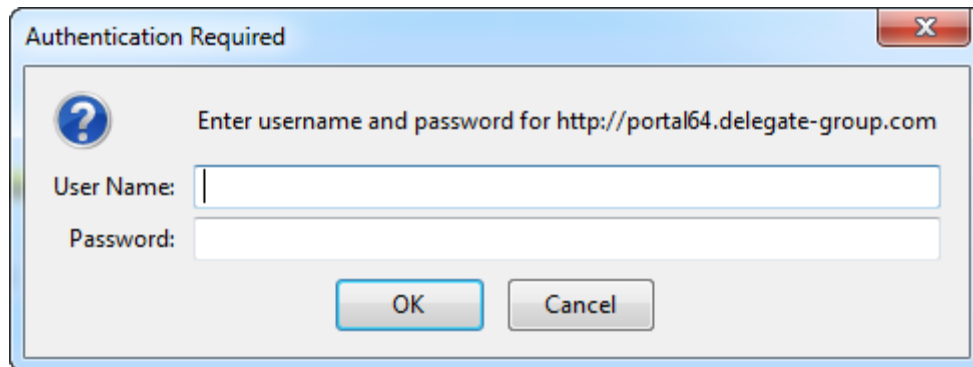
In the ideal case the user will not even see this page and be logged in seamlessly, but this depends on the information the user has provided and of course whether the login itself was successful.

The user will see this page, if:

- An unrelated error happened during login (DB connectivity, etc.)
- The current Domain user is not mapped to a Materials Control user on the selected DB.
- Multiple databases/Companies are configured in Web.config, but no Company was supplied via URL parameter

BROWSER SUPPORT

Both Firefox and Internet Explorer support Active Directory (LDAP) authentication, however there is a caveat when using Firefox; unlike IE, Firefox does not automatically have access to the user credentials of the currently logged on Windows user – instead, upon visiting the LDAP Login page, the browser will ask the user for his Windows credentials once¹, which are then used for the LDAP authentication:



If the user clicks Cancel he will be redirected to the regular login page. Note that this authentication prompt is a built-in browser feature and cannot be influenced by the Web application.

The credentials will be saved/cached until the browser is closed.

MICROS-FIDELIO GmbH
Europadamm 2-6
41460 Neuss
Germany
Phone: +49 2131-137 0 | Fax: +49 2131-137 777

¹ The credentials will be saved/cached until the browser is closed.