

DocuWare Intelligent Indexing

Instructions for Installing DocuWare Intelligent Indexing

DocuWare GmbH, November 2014

1 Introduction

This document describes how to install DocuWare Intelligent Indexing and all additional components as required. Instructions on configuring Intelligent Indexing and working with Intelligent Indexing are available as separate documents under help.docuware.com.

Due to performance reasons, it is **highly** recommended to install Intelligent Indexing on its own machine and not together with DocuWare.

1.1 System Requirements

Intelligent Indexing can be used in combination with DocuWare from version 6.1. The recommended operating system is Windows Server 2012 R2. Administrator rights and an Internet connection are necessary for the installation described below. You also need a program to unpack ZIP files (for example under http://www.7-zip.de/).

1.2 Overview of Required Files

To install Intelligent Indexing you need the Intelligent Indexing setup files, which you received in a ZIP file together with this manual. This contains the following sub-directories:

- The sub-folder *Intelligent Indexing*: contains the program components of Intelligent Indexing,
- The sub-folder Database: contains scripts to create the database for Intelligent Indexing,
- The sub-folder SoIR: contains configuration files for full-text Intelligent Indexing,
- The sub-folder *Test document*: contains a test document which can be used to test whether the installation was successful at the end of installation,
- An Intelligent Indexing connection file *intelligent-indexing-connection.xml* to establish the connection between DocuWare and Intelligent Indexing.

In addition, you require your DocuWare license file, which you can also download from the DocuWare Partner Portal.

1.3 Installation Overview

Intelligent Indexing requires a couple of additional components, which have to be installed and set up first. Installation is therefore divided into the following steps:

- Installation of Microsoft .NET 4.5 framework (chapter 2)
- Installation of Microsoft SQL Server 2014 Express, Microsoft SQL Server Data-Tier Application Framework (April 2014), and creation of the Intelligent Indexing database (chapter 3)
- Installation and configuration of Java SE Runtime Environment 7 or 8, Apache Tomcat 7.0, and Apache SolR 4.9.0 (chapter 4)
- Installation of Microsoft Internet Information Services (IIS) 8.5 (chapter 5)
- Installation of DocuWare Intelligent Indexing (chapter 6)

After installation you should license and test the system (chapter 7), and connect Intelligent Indexing to DocuWare (chapter 8). Chapter 9 offers solutions to possible problems encountered during installation.

1.4 Using Other Components

Only the version specified can be used for the following components.

- DocuWare version 6.1 or later
- Microsoft .NET Framework 4.5

Using a different version to the one specified is not recommended for the following components. In this case the functionality of Intelligent Indexing cannot be guaranteed. Individual installation steps may also differ from the steps described here.

- Windows Server 2012 R2 operating system
- Microsoft SQL Server 2014 Express (using a different database to the Microsoft SQL Server is wholly discouraged.) ¹
- Microsoft SQL Server Data-Tier Application Framework (April 2014)
- Java SE Runtime Environment 7 or 8
- Apache Tomcat 7.0
- Apache SolR 4.9.0
- Microsoft Internet Information Services (IIS) 8.5

¹Intelligent Indexing has also been tested successfully with SQL Server Express 2012, but an additional installation step (described in chapter 9) might be necessary.

2 Installing Microsoft .NET Framework 4.5

If you use the recommended operating system Windows Server 2012 R2, .NET Framework 4.5 (hereinafter: .NET Framework) is already part of the operating system and you can skip this chapter and proceed to chapter 3 for installing the database. If the .NET Framework is not yet installed on your computer, or you are not sure, please carry out the following steps:

- Download the installation file for the .NET Framework under http://www.microsoft.com/de-de/download/details.aspx?id=30653
 Other Microsoft tools and components possibly recommended on the download page do not need to be installed. Once the download has completed, you will have the file *dotNetFx45_Full_setup.exe*.
- 2. Run the file and follow the instructions. If you receive a message that the .NET Framework is already installed (see figure 1), at this point you can quit the installation and continue to install the database in chapter 3.

Microsoft .NET Framework 4.5
Your installation will not occur. See below for reasons why.
<u>Details</u>
 Microsoft .NET Framework 4.5 is already a part of this operating system. You do not need to install the .NET Framework 4.5 redistributable.
2. Same or higher version of .NET Framework 4.5 has already been installed on this computer.
More information about <u>blocked .NET Framework 4.5 installations</u> .
Continue Close

Figure 1: Error message when installing the .NET Framework 4.5, if it is already available.

3. After the installation restart the computer if prompted.

3 Installing Microsoft SQL Server 2014 Express and Configuring it for Intelligent Indexing

If you have already installed Microsoft SQL Server 2014 Express (hereinafter: SQL Server), you can skip the first half of this chapter and continue with chapter 3.2.

3.1 Installing the SQL Server

To install the SQL Server, carry out the following steps.

 Download the installation file for the SQL Server under http://www.microsoft.com/de-DE/download/details.aspx?id=42299

Make sure you have downloaded the file in the correct language – the language of your operating system. After clicking "Download" you will be asked to choose files for download (see figure 2). Select

Express 64BIT\SQLEXPR_x64_XX.exe for download. Depending on which language you downloaded the file in, the "'XX" in the file name stands for "'DEU" (German), "'ENU" (English), etc. If necessary, enable the website cookies to display the files correctly.

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Express 32BIT\SQLEXPR_x86_ENU.exe	168.4 MB	
Express 64BIT\SQLEXPR_x64_ENU.exe	196.7 MB	
ExpressAdv 32BIT\SQLEXPRADV_x86_ENU.exe	1.1 GB	
ExpressAdv 64BIT\SQLEXPRADV_x64_ENU.exe	1.1 GB	
ExpressAndTools 328IT\SQLEXPRWT_x86_ENU.exe	840.8 MB	Total Size: 196.7 MB
		Next
Additional Information		Windows Server 2012 R2 free trial Experience the new and enhanced camabilities.

Figure 2: Choosing a file to download from Microsoft SQL Server Express 2014

- 2. Run the downloaded file. If you are asked for a directory to unpack the files, you can select any one.
- 3. In the following window, select "New SQL Server stand-alone installation or add features to an existing installation (see figure 3).



Figure 3: Selection before installing Microsoft SQL Server Express 2014

- 4. You can define various installation parameters in the following windows. You can generally retain the suggested parameters as far as the windows "'Feature Selection", "'Instance Configuration", and "Database Engine Configuration".
 - In the window "'Feature Selection" (see figure 4) you can define the directory where the SQL Server is installed. You should not change the proposed directory. If however you do wish to change it, you must later change an Intelligent Indexing installation file.

Feature Selection		
Select the Express features to	install.	
License Terms Slobal Rules Vicrosoft Update nstall Setup Files nstall Rules "eature Selection Feature Rules nstance Configuration Getwer Configuration Database Engine Configuration eature Configuration Rules nstallation Progress Complete	Features: Instance Features Instance Engine Services SQL Server Replication Shared Features SQL Client Connectivity SDK Redistributable Features	Feature description: The configuration and operation of each instance feature of a SQL Server instance. is isolated from other SQL Server instance. SQL Server instances can operate side-by-side on Prerequisites for selected features: Already installed: - Windows PowerShell 2.0 - Microsoft .NET Framework 3.5 - Disk Space Requirements Drive C: 979 MB required, 12997 MB available
		ogram Files\Microsoft SQL Server\ garam Files\Microsoft SQL Server\

- Figure 4: Settings in the window "Feature Selection" for installing Microsoft SQL Server Express 2014
 - In the window "'Instance configuration" (see figure 5) you can enter a name for the SQL Server instance. You should not change the proposed name. If however you



do wish to change it, you must later change an Intelligent Indexing installation file.

📆 SQL Server 2014 Setup					- • •
Instance Configuration	n				
Specify the name and instance	e ID for the instance of S	QL Server. Instance ID k	becomes part of th	he installation path.	
License Terms Global Rules Microsoft Update	 Default instance Named instance: 	SQLEXPRESS			
Install Setup Files Install Rules Feature Selection	Instance ID:	SQLEXPRESS			
Feature Rules Instance Configuration Server Configuration Database Engine Configuration	SQL Server directory: Installed instances:	C:\Program Files\Mici	rosoft SQL Server\	MSSQL12.SQLEXPRESS	
Feature Configuration Rules	Instance Name	Instance ID	Features	Edition	Version
Installation Progress	SQLEXPRESS	MSSQL11.SQLEXPR	SQLEngine	Express	11.0.2100.60
Complete					
			< Back	Next > Cance	Help

- Figure 5: Settings in the window "'Instance Configuration" for installing Microsoft SQL Server Express 2014
 - In the window "Database Engine Configuration" switch to "Mixed Mode" (SQL Server authentication and Windows authentication) and specify a password for the SQL Server system administrator account (see figure 6). Note: You will need the name of the SQL Server system administrator account and the password during installation.

🚼 SQL Server 2014 Setup			
Database Engine Confi	guration		
Specify Database Engine auther	ntication security mode, a	administrators and data directories.	
License Terms Global Rules Microsoft Update Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	Authentication Mod Windows authen Mixed Mode (SQ	ication mode and administrators for the Database Eng de Ltication mode 2L Server authentication and Windows authentication) rd for the SQL Server system administrato (sa) ccoun 	
	Add Current User	Add Remove	SQL Server administrators have unrestricted access to the Database Engine.
		< Back Next >	Cancel Help

- Figure 6: Settings in the window "'Database Engine Configuration" for installing Microsoft SQL Server Express 2014
 - 5. After the installation is completed restart the computer if prompted.

3.2 3.2 Preparing the SQL Server for Intelligent Indexing

For the installation sections you need the following information:

- The name and password of the SQL Server system administrator account, which you specified in the first part of this chapter (see figure 6).
- The name of your SQL Server instance, if you changed it in the first part of this chapter (see figure 5).
- The directory where the SQL Server was installed if you changed it in the first part of this chapter (see figure 4).

Now carry out the following steps to create the Intelligent Indexing database in the SQL Server.

1. Download the installation file for the Microsoft SQL Server Data-Tier Application Framework (April 2014) under

http://www.microsoft.com/de-DE/download/details.aspx?id=42293

Make sure that the file is downloaded in the correct language, i.e. the language of your operating system. After clicking Download you will be asked to choose files for download (see figure 7). Select *DEU**x*64*DACFramework.msi* to download.

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ENU\x86\DACFramework.msi	3.9 MB	
		Total Size: 4.0 MB
		Next
		TVEAL
		Windows Server 2012
Additional Information		

- Figure 7: File selection when downloading the Microsoft SQL Server Data-Tier Application Framework (April 2014)
 - 2. Run the downloaded file *DACFramework.msi* and follow the instructions. After the installation restart the computer if prompted.
 - 3. If you individually changed the installation parameters, now in the directory *Database* of the Intelligent Indexing setup files that were provided by DocuWare, open the file *deployDB.bat* to edit it (Right-click Edit).
 - If you changed the installation directory of the SQL Server in the first part of this chapter (see figure 4), please change the line

SET SQLPACKAGE="..." accordingly.

• If you changed the name of your instance of the SQL Server in the first part of this chapter (see figure 5), please change the line

```
SET SERVER=.\...
```

accordingly.

- Save your changes and close the editor.
- 4. Now run the file *deploy.bat* in the directory *Database* of the Intelligent Indexing setup files as an administrator. A prompt opens and the progress of creation of the Intelligent Indexing database is displayed. After successful completion, you will receive the message "Successfully published database" (see figure 8). Close the prompt by pressing any key.



If you receive an error message, please read the corresponding section in the chapter "'Problems".²

C:\Windows\system32\cmd.exe
C:\Intelligent Indexing Sctup Files\Database>SET SQLPACKAGE="C:\Program Files (x 36)\Microsoft SQL Server\120\DAC\bin\SqlPackage.exe"
C:\Intelligent Indexing Setup Files\Database>SET DB=intellix
C:\Intelligent Indexing Setup Files\Database>SET SERVER=.\SQLEXPRESS
C:\Intelligent Indexing Setup Files\Database>SET 0PTI0NS=/p:BlockOnPossibleDataL oss=False
C:\Intelligent Indexing Setup Files\Database>SET DACPAC=IntellixDatabase.dacpac
C:\Intelligent Indexing Setup Files\Database>"C:\Program Files (x86>\Microsoft S QL Server\128\DMC\Din\SulPackage.exe" /TargetServerMame:".\SQLEXPRESS" /TARGETDM TABRESNMHE:"Intellix" / Sourcefile:IntellixUbatabase.dacpac /Action:Publish /p:Bl ocKonPossibleDataloss=False Publishing to database / intellix' on server '.\SQLEXPRESS'. Initializing deployment (Start) initializing deployment (Complete) Analyzing deployment (Start) Analyzing deployment plan (Complete) Update complete. Update: complete. Successfully published database.
C:\Intelligent Indexing Setup Files\Database>FAUSE Press any key to continue
~

Figure 8: Message after the Intelligent Indexing database is successfully created

²If you use SQL Server 2012 Express, you should at first check if problem 3 occurs.

4 4 Installing Java SE Runtime Environment 7, Apache Tomcat 7.0, and Apache SolR 4.9.0 and Configuring it for Intelligent Indexing

This chapter describes how to install Java SE Runtime Environment 7 (hereinafter: JRE), Apache Tomcat 7.0 (hereinafter: Tomcat), and Apache SolR 4.9.0 (hereinafter: SolR), and then configure them for Intelligent Indexing. Instead you can also use Java Runtime Environment 8. If you install Intelligent Indexing on the same computer where a DocuWare Fulltext Server is running, you can use the Tomcat and SolR installation of the DocuWare Fulltext Server. In this case, continue with the last part of this chapter (section 4.3).

4.1 Installing JRE

A Java Runtime Environment or a Java Development Kit is required to operate Tomcat. If you have already installed one of these two components, you can skip this section and continue with section 4.2. You only need to know in which directory the Java Runtime Environment or the Java Development Kit are installed. If you are not sure whether a Java Runtime Environment or a Java Development Kit is installed, please check in the list of installed programs (Control Panel – Programs – Programs and Features, see figure 9).

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			12.0.2000.8	9.81 MB	8/27/2014	Microsoft Corporation	SQL Server Browser for SQL Server 2014	
Currently installed programs Total size: 347 MB 15 programs installed						347 MB		

Figure 9: List of installed programs (including Java Runtime Environment)

To install JRE, please carry out the following steps.

- 1. In your browser open the page http://www.oracle.com/technetwork/java/javase/downloads/jre7-downloads-1880261. html
- 2. Accept the license agreement and download the file *jre-7uXX-windows-x64.exe* (see figure 10).

Java SE Runtime Env	rironment 7	Downloads
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Product / File Description Linux x86 Linux x86 Linux x64 Linux x64 Mac OS X x64 Mac OS X x64	31.56 MB 46.18 MB 32.07 MB 44.83 MB 48.54 MB 44.51 MB	jre-7u67-linux-i586.rpm jre-7u67-linux-i586.rpm jre-7u67-linux-i586.targ jre-7u67-linux-x64.targz jre-7u67-macosx-x64.targz jre-7u67-macosx-x64.targz jre-7u67-solaris-i586.targz
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Product / File Description Linux x86 Linux x86 Linux x64 Mac OS X x64 Mac OS X x64 Solaris x86 Solaris x86	31.56 MB 46.18 MB 32.07 MB 44.83 MB 48.54 MB 44.51 MB 52.14 MB 16.13 MB	jre-7u67-linux-1586.trg jre-7u67-linux-1586.tar.gz jre-7u67-linux-x64.tar.gz jre-7u67-macosx-x64.dmg jre-7u67-solaris-1580.tar.gz jre-7u67-solaris-x64.tar.gz jre-7u67-solaris-x64.tar.gz
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Product / File Description Linux x86 Linux x86 Linux x84 Linux x64 Mac OS X x64 Mac OS X x64 Solaris x64 Solaris x64 Solaris x64 Solaris x64 Solaris x64 Solaris x64	31.56 MB 46.18 MB 32.07 MB 44.83 MB 44.83 MB 44.51 MB 52.14 MB 16.13 MB 54.94 MB 18.14 MB	jre-7u67-linux-1586.rpm jre-7u67-linux-1586.tar.gz jre-7u67-linux-1586.tar.gz jre-7u67-macosx-x64.tar.gz jre-7u67-macosx-x64.tar.gz jre-7u67-solaris-solaris-ts66.tar.gz jre-7u67-solaris-sparc.tar.gz jre-7u67-solaris-sparc.tar.gz jre-7u67-solaris-sparc.yat.gz jre-7u67-solaris-sparc.yat.gz jre-7u67-solaris-sparc.yat.gz
Product / File Description Linux x86 Linux x86 Linux x64 Mac OS X x64 Mac OS X x64 Solaris x86 Solaris x84 Solaris SPARC Solaris SPARC Solaris SPARC Solaris Solaris SPARC Solaris March Solaris SPARC Solaris March Solaris March Solaris March Solaris SPARC Solaris March Solaris SPARC Solaris SPARC Solaris SPARC Solaris March Mar	31.56 MB 46.18 MB 32.07 MB 44.83 MB 44.51 MB 52.14 MB 16.13 MB 54.94 MB 18.14 MB 0.88 MB	jre-7u67-linux-1586.trgm jre-7u67-linux-1586.trg g jre-7u67-linux-1586.trg g jre-7u67-linux-x64.trg g jre-7u67-macosx-x64.trg g jre-7u67-macosx-x64.trg g jre-7u67-solaris-1586.trg g jre-7u67-solaris-x64.trg g jre-7u67-solaris-x64.trg g jre-7u67-solaris-x64.trg g jre-7u67-solaris-x64.trg g jre-7u67-solaris-x64.trg g
Product / File Description Linux x86 Linux x86 Linux x84 Linux x64 Mac OS X x64 Solaris x84 Solaris x84 Solaris x84 Solaris x84 Solaris x84 Solaris SPARC Solaris SPARC 64-bit Windows x86 Offline	31.56 MB 46.18 MB 32.07 MB 44.83 MB 48.54 MB 44.51 MB 52.14 MB 16.13 MB 54.94 MB 18.14 MB 0.88 MB 28.06 MB	jre-7u67-linux-1586.rpm jre-7u67-linux-1586.tar.gz jre-7u67-linux-1586.tar.gz jre-7u67-macosx-x64.tar.gz jre-7u67-macosx-x64.tar.gz jre-7u67-solaris-solaris-ts66.tar.gz jre-7u67-solaris-sparc.tar.gz jre-7u67-solaris-sparc.tar.gz jre-7u67-solaris-sparc.9tar.gz jre-7u67-solaris-sparc.9tar.gz jre-7u67-solaris-sparc.9tar.gz

Figure 10: Download page for Java Runtime Environment 7

- 3. Run the downloaded file and follow the instructions on the screen.
- 4. After the installation is completed restart the computer if prompted.

4.2 Installing Tomcat

To install Tomcat, carry out the following steps.

 Download the 32-bit/64-bit Windows Service Installer from http://tomcat.apache.org/download-70.cgi (see figure 11).

🖉 🔪 Apache Tomcat - Apache	
tomcat.apache.org/down	rload-70.cgi 🔹 🕈 🖉 🕆 download apache tomcat 7.0
	Apache Tomcat
Apache Tomcat	Tomcat 7 Downloads
Home Taglibs	Welcome to the Tomcat 7.x download page. This page provides download links for obtaining the latest version of Tomcat 7.0.x. as well as links to the archives of older releases.
Maven Plugin	Quick Navigation
Download Which version? Tomcat 8.0	KEYS Z.0.55 Browse Archives
Tomcat 7.0	Release Integrity
Tomcat 6.0 Tomcat Connectors Tomcat Native Archives	You must verify the integrity of the downloaded files. We provide OpenPGP signatures for every release file. This signature should be matched against the KEYS file which contains the OpenPGP keys of 1 an NOS checksum for every release file. After you download the file, you should calculate a checksum for your download, and make sure it is the same as ours.
Documentation	Mirrors
Tomcat 8.0 Tomcat 7.0 Tomcat 6.0 Tomcat Connectors	You are currently using http://apache.cs.uu.nl/dist/. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are <i>backup</i> mirrors (at the end of the mirrors) Other mirrors: http://apache.mirror1000mbps.com/ v Change
Tomcat Native Wiki	7.0.55
Migration Guide	Please see the <u>README</u> file for packaging information. It explains what every distribution contains.
Problems? Security Reports	Binary Distributions
Find help FAQ	• Core:
Mailing Lists Bug Database IRC	• zip (opp. md5) • tanga (opp. md5) • 32-bit Windows zip (opp. md5)
Get Involved	6 <u>4-bit Windows zip (opp. mds)</u> 6 <u>6-bit Utaniows zip (opp. mds)</u>
Overview SVN Repositories Buildhot	32-bit/64-bit Windows Service Installer (pgp. md5) tor documentation: a torse (rags md5)

Figure 11: Download page for Apache Tomcat 7.0

- 2. Run the downloaded file and follow the instructions. Retain the suggested settings. In the window "Configuration" you can enter an administrator login if you want. In the window "Java Virtual Machine" please enter the directory in which a Java Runtime Environment is installed if it is not automatically detected.
- 3. After the installation is completed restart the computer if prompted. If you are asked afterward, you can start Tomcat directly after installation is completed.
- 4. Open the application "Configure Tomcat" either in the Tomcat installation directory (or more simply by using the Windows key, Search programs and files "Configure Tomcat"). In the configuration program, start the Tomcat Server under the tab "General" (see figure 12). You can also change the start behavior here to "Automatic" if you wish.

b Apac	he Tomcat 7.0 Tomcat7 Properties
General Log On	Logging Java Startup Shutdown
Service Name:	Tomcat7
Display name:	Apache Tomcat 7.0 Tomcat7
Description:	Apache Tomcat 7.0.55 Server - http://tomcat.apache.
Path to executab	le:
"C:\Program File	s\Apache Software Foundation\Tomcat 7.0\bin\Tomcat7.
Startup type:	Manual
Service Status:	Started
Start	Stop Pause Restart
	OK Cancel Apply

Figure 12: Configuration program for Apache Tomcat 7.0

5. In a browser, open the page http://localhost:8080 and check that Tomcat is running (see figure 13). If you set a different port to 8080 during installation, change the URL accordingly.



Figure 13: The URL "http://localhost:8080" after Apache Tomcat is successfully installed

4.3 Configuring SoIR for Intelligent Indexing

To configure SoIR for Intelligent Indexing, proceed as follows.

- 1. Stop the Tomcat Server.
 - If you do **not** use the Tomcat Server installation in the DocuWare Full-Text Server, open the application "'Configure Tomcat" again. You can stop Tomcat under the tab "'General" (see figure 12).
 - If you re-use the Tomcat Server installation in the DocuWare Full-Text Server, you can simply stop the Full-Text Server using the DocuWare Service Control (see figure 14).

DocuWare Service Control	
Servers	
Database	
Authentication Server	
Content Server	
Workflow Server	
Imaging Server	
Notification Server	
Thumbnail Server	
Full-Text Server	
Job Processor Server	
Workflow Engine	
CONNECT to Mail	
All servers	
DocuWare Administration	Exit

Figure 14: DocuWare Service Control

- 2. Open the directory *SolR* in the Intelligent Indexing setup files.
 - Copy the sub-directory *SolRHome* to any location on your hard disk. Open the file *solr.intellix.xml* in the sub-directory *SolR* of the Intelligent Indexing setup files to edit it (Right-click Edit). In

```
value="[1]"
```

(line 2) replace the value "(1]" with the path where you have just copied the subdirectory *SolRHome*, e.g. *C*:*SolRHome*. Do not delete the quotation marks.

- Define the directory in which the Apache Tomcat Server is installed. You identify the directory from the sub-directories "'conf" and "'lib", among other things, located there.
 - If you do **not** use the Tomcat Server installation in DocuWare Full-Text Server, the directory is e.g.

C:\Program Files\Apache Software Foundation\Tomcat 7.0.

 If you re-use the Tomcat Server installation in DocuWare Full-Text Server, the directory is

C:\Program Files\DocuWare\Server\Full-Text Server.

- Copy the file *solr.war* from the sub-directory *SolR* of the Intelligent Indexing setup files to the sub-directory *lib* of the Tomcat installation directory specified in the last step. Important: If you re-use the Tomcat Server installation in DocuWare Full-Text Server, it might be necessary to re-copy the file *solr.war* to this location after an upgrade of your DocuWare software.
- Open the file *solr.intellix.xml* in the sub-directory *SolR* of the Intelligent Indexing setup files again to edit it (Right-click Edit). In

```
docBase="[0]"
```

(line 1) replace the value "'[0]" with the path (including the file name) where you have just copied the file *solr.war*, e.g. with

C:\Program Files\Apache Software Foundation\Tomcat 7.0\lib\solr.war. Do not delete the quotation marks.

- Save the changes made to the file *solr.intellix.xml* in the steps you have just carried out. Then copy the file to the directory *{Tomcat}\conf\Catalina\localhost*, in which *{Tomcat}* stands for the installation directory of the Tomcat Server.
- 3. Restart the Tomcat Server (either via the program "Configure Tomcat" or via DocuWare

Service Control).

- 4. In a browser open the following page to check whether SolR was correctly configured. The page should correspond more or less to figure 15.
 - If you do **not** use the Tomcat Server installation in DocuWare Full-Text Server: http://localhost:8080/solr.intellix
 - If you use the Tomcat Server installation in DocuWare Full-Text Server: http://localhost:9012/solr.intellix

Solr Admin (LocalIntellix.L	× +		_ □)
Calhost:8080/solr.inte	lix/#/ ▽ C 8 -	winioad apache solr 🔎 🏠 🗎	∔ ⋒	-
Apache Solr	Instance Start about an hour ago Host LocalIntellix.LocalIntellix.a2.internal.clou	System Physical Memory 46.4%	G	
📾 Dashboard	CWD C:\Program Files\Apache Software Foun			
Logging Core Admin Java Properties	Instand&:\SolRHome\production-ContextBased Data C:\SolRHome\production-ContextBased Index C:\SolRHome\production-ContextBased	1.62 GB Swap Space 41.8%		
Thread Dump Core Selector	Versions solr-sp ≠2.1.2013.03.26.08.26.55 solr-impl.2.1 1461071 - mark - 2013-03-26 08:2 lucene-4p⊉d lucene-4p⊉d	1.73 GB	4.12 GB	
	JVM	JVM-Memory 32.4%		
	 Runtim@racle Corporation Java HotSpot(TM) 64 Processors Args -Xmx256m -Xms128m exit -Djava.util.logging.config.file=C:\Progra -Djava.util.logging.manager=org.apache -Djava.io.tmpdir=C:\Program Files\upach -Dcatalina.base=C:\Program Files\upach -Dcatalina.home=C:\Program Files\upach 	73.81 MB	227.50 MB	
i d	ocumentation 🕷 Issue Tracker 🙎 IRC Channel 🕞	Community forum 🛛 🖲 Solr C	uery Syntax	

Figure 15: The URL *http://localhost:8080\intellix.solr* after Apache SolR is successfully configured

5 Installing Internet Information Service Express 8.0 and Configuring it for Intelligent Indexing

To install Internet Information Service Express 8.0 (hereinafter: IIS), carry out the following steps.

1. Open the Windows Server 2012 Server Manager, in the menu bar click "'Manage", and select "'Add Roles or Features" (see figure 16).

b	Server Manager	_
Server Ma	anager • Dashboard 🛛 🔹 🕫 🖡	Manage Tools View Help
Dashboard	WELCOME TO SERVER MANAGER	Remove Roles and Features Add Servers
All Servers	1 Configure this local server	Create Server Group Server Manager Properties
File and Storage Services D	QUICK START 2 Add roles and features 3 Add other servers to manage WHAT'S NEW 4 Create a server group	
	LEARN MORE	Hide
	ROLES AND SERVER GROUPS Roles: 1 Server groups: 1 Servers total: 1	
	File and Storage Services 1 Local Server 1	
	Manageability Events Events	
	Performance Services	
	BPA results Performance BPA results	
	All Servers 1	
	Anageability	v

- Figure 16: Installing Internet Information Services 8.0, step 1: Starting the installation in Server Explorer
 - 2. In the step "'Installation Type" select the option "'Role-based or feature-based installation" (see figure 17).

2	Add Roles and Features Wizard
Select installatio	n type
Before You Begin Installation Type	Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).
Server Selection Server Roles Features	Role-based or feature-based installation Configure a single server by adding roles, role services, and features. Remote Desktop Services installation
Confirmation Results	Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.
	< Previous Next > Install Cancel

Figure 17: Installing Internet Information Services 8.0, step 2: Selecting the installation method

3. In the step Server selection, select the server on which you would also like to install Intelligent Indexing (see figure 18).

B	Add Roles and Features Wizard
Select destination	DN SETVER Localination Server
Before You Begin	Select a server or a virtual hard disk on which to install roles and features.
Installation Type	Select a server from the server pool
Server Selection	 Select a virtual hard disk
Server Roles	Server Pool
Features	
Confirmation	Filter:
Results	Name IP Address Operating System
	LocalIntellix 100.74.102.118 Microsoft Windows Server 2012 R2 Datacenter
	1 Computer(s) found
	This page shows servers that are running Windows Server 2012, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data
	collection is still incomplete are not shown.
	< Previous Next > Install Cancel

Figure 18: Installing Internet Information Services 8.0, step 3: Selecting the server

- 4. In the step "Server Roles" select the option "Web Server (IIS)" (see figure 19). Then install the following features (depending on which features are already installed, the selection of features may be split between several windows).
 - Web Server (IIS) Web Server Common HTTP Features: Default Document, Directory Browsing, HTTP Errors, Static Content
 - Web Server (IIS) Web Server Health and Diagnostics: HTTP Logging
 - Web Server (IIS) Web Server Performance: Static Content Compression
 - Web Server (IIS) Web Server Security: Request Filtering
 - Web Server (IIS) Web Server Application Development: .NET Extensibility 4.5, ASP, ASP .NET 4.5, ISAPI Extensions, ISAPI Filters

- Web Server (IIS) Management Tools: IIS Management Console
- Ensure, that the following feature is $\ensuremath{\text{not}}$ selected.
 - Web Server (IIS) Web Server Common HTTP Features: WebDAV Publishing



- Figure 19: Installing Internet Information Services 8.0, step 4: Selecting the components to be installed
 - 5. After the installation is completed restart the computer if prompted.

6 Installing Intelligent Indexing

To install Intelligent Indexing open the folder Intelligent Indexing within the *Intelligent Indexing* setup files and proceed as follows.

- Copy the file *clientaccesspolicy.xml* to the directory *C:\inetpub\wwwroot*. (The location of this directory may vary depending on the installation of the Internet Information Services.)
- 2. Open the sub-folder *Intelligent Indexing Service*. Open the file *web.config* it contains for editing (for example in Notepad).
 - a) Search for (Ctrl+F) the xml element "connectionStrings". Within this you will only find a child element beginning with

```
<add name='IntellixDatabaseEntities'...</pre>
```

Search it for the attributes

Server=.\SQLEXPRESS

User ID=sa

and

Password=1Q2w3e4r5t

Change these attributes. Here enter the name of your SQL Server instance, and the name and password of your SQL Server administrator account, as you defined it in chapter 3.1. Save your changes.

b) Search for (Ctrl+F) "DocuWare.Platform.Storage.FileStorageYou will find one row

```
<value>
class=DocuWare.Platform.Storage.FileStorage;
root=c:\IntellixStorage
</value>
```

Here enter under "root" a storage location where Intelligent Indexing data can be stored in the file system. Make sure the storage location actually exists in your file system. **Note:** Intelligent Indexing will store a majority of its data at this storage location. Make sure you indicate a storage location with sufficient free storage space (approximate value: 1 GB of hard disk space per 10,000 stored documents) and that the access time is as fast as possible.

- c) Copy the subfolder *packages* to this storage location. Be sure to copy the complete subfolder and not only its content.
- d) Search for (Ctrl+F) "'solr.intellix"'. You will find the line

<value>http://localhost:XXXX/solr.intellix/</value>

Instead of "XXXX" enter the port that you set when installing Tomcat (chapter 4.2). The default value during installation is 8080.

- e) This step is necessary, if Intelligent Indexing will work in an environment without internet connection. Search for (Ctrl+F) "'UseBundleCDN"'. You will find a line <add value="true" key="UseBundleCDN"/> Replace it by <add value="true" key="UseLocalCDN"/>
- f) Save your changes and close the file editor.
- 3. Now copy the complete sub-directory Intelligent Indexing Service (including the changed file *web.config*) to any location on your hard disk.
- 4. Open Internet Information Services Manager, which you installed in the previous chapter,

(using the Windows key and then typing "'IIS Manager"").

5. If you don't want to run Intelligent Indexing in its own application pool, you can skip this step. If you are running several applications with specific parameters in your IIS, you should create a new application pool for Intelligent Indexing. Therefore, right-click on application pools and create a new application pool with the settings depicted in 20.

File View Help		
onnections	Application Pools This page lets you view and manage the list of application pools on the server. Application contain among different applications, and provide contain among different application one or more applications, and provide contain among different application Pool First Name	Actions Actions Actions Actions Actions Actions Actions Actions Action A
ady		

Figure 20: Creating an application pool in IIS Manager

6. On the left side of IIS Manager, click "'Application Pool", mark the application pool you want to use for Intelligent Indexing, and click "'Advanced Settings" on the right. Set the startmode of the application pool to "'Always Running" (see figure 21). If you are using an older version of IIS Manager, it might not be possible to setup a startmode. In this case you can skip this step, but the performance of Intelligent Indexing will decline.

4	(General)		P
	.NET CLR Version	v4.0	Γ
	Enable 32-Bit Applications	False	
	Managed Pipeline Mode	Integrated	
	Name	Intellix	-
_	Oueue Length	1000	
Г	Start Mode	AlwaysRunning 🗸	1
	cro		f
	Limit (percent)	0	
	Limit Action	NoAction	
	Limit Interval (minutes)	5	
	Processor Affinity Enabled	False	
	Processor Affinity Mask	4294967295	
	Processor Affinity Mask (64-bit o	4294967295	
4	Process Model		
Þ	Generate Process Model Event L		
	Identity	ApplicationPoolIdentity	
	Idle Time-out (minutes)	20	
	Idle Time-out Action	Terminate	2
st	art Mode	Terminate pool to run in On Demand Mode or	

Figure 21: Setting up the startmode for the application pool

7. Navigate on the left to "'Default Web Site" (see figure 22).

6	Internet Information Services (IIS) Manager	_ D X
€ ► LOCALINTELLIX → Sites → Default Web Site →		🖬 🛛 🟠 🔞 •
File View Help		
	Default Web Site Home Filter: Image: Compression Default Image: Compression Image: Co	Image: Construction of the second
	Features View 💦 Content View	
Ready		•iL::

Figure 22: Setting up Intelligent Indexing in IIS Manager Default Web Site

8. Open the context menu by right-clicking on "'Default Web Site" and select "'Add Application". In the dialog that opens, under "'Alias" enter the value "'IntelligentIndexing". Do not use any spaces here as this value becomes part of a URL. As the "'Physical path", choose the directory *Intelligent Indexing Service*, at the location where you have just copied it (see figure 23). If you created a new application pool for Intelligent Indexing, you need to select it here. Confirm your input with "'OK"".

Add Application ? ×
Site name: Default Web Site Path: /
Alias: Application pool:
IntelligentIndexing DefaultAppPool Select
Example: sales
Physical path:
C:\Intelligent Indexing Service
Pass-through authentication Connect as Test Settings
Enable Preload
OK Cancel

- Figure 23: Setting up Intelligent Indexing in IIS Manager Settings when adding Intelligent Indexing
 - 9. On the left side, mark the application you have created and click "advanced Settings" on the right side. Activate "Preload" (siehe Abbildung 24). If you are using an older version of IIS Manager, it might not be possible to activate preload. In this case you can skip this step, but the performance of Intelligent Indexing will decline.

	Advance	ed Settings 🔹 ? >
4	(General)	
	Application Pool	Intellix
	Physical Path	%SystemDrive%\inetpub\wwwroot
	Physical Path Credentials	
	Physical Path Credentials Logon	ClearText
	Preload Enabled	True
	Virtual Path	/intellix
⊿	Behavior	
	Enabled Protocols	http
(G	eneral)	

Figure 24: Aktivieren von Preload für Intelligent Indexing

- 10. On the left click "'Default Web Site", and then on the right under "'Manage Website" click "'Restart".
- 11. Close the Internet Information Services Manager.

7 Testing and Licensing the Installation

7.1 Mandatory Part

You must carry out the following steps in a browser. Wherever possible use the browser Google Chrome or Mozilla Firefox. Proceed as follows to test that all installation steps were successful and to license your installation of Intelligent Indexing.

1. In a browser, open the page

http://localhost/IntelligentIndexing/Html/ If in chapter 6 you registered Intelligent Indexing under a name other than "'IntelligentIndexing" in IIS, then please change the URL accordingly. You should then see a login screen as in figure 25.



If you see a page other than that in figure 25,

please read the corresponding section in the chapter "'Problems"'.

♀ Intelligent Indexing Log On ×	+		_ □	x
Iocalhost/IntelligentIndexing/	/Account/Login?Ret ⊽ C S ~ Google	▶ ☆ 自	∔ กิ	≡
Intelligent Ind	-			
User name				
admin				
Password				
••••]			
Remember me?				
LOG ON				

Figure 25: Login screen for the Intelligent Indexing test interface

- 2. Log in to the test interface of Intelligent Indexing using the user name "'admin" and the password "'admin". You should now see an empty list of "'Modelspaces" (see figure 26).
 - ?

If the login does not work,

please read the corresponding section in the chapter "'Problems"'.

If the login seems to work, but in the Intelligent Indexing testing UI some menu items seem to be missing,

please read the corresponding section in the chapter "'Problems"'.

Q Administration – Intelligen	× +					-	. 🗆	x
() 🖉 localhost/Intelligent				⊽ C ⁴ 8 - Google	ר ב	• •	Â	≡
Intelligent Indexing	MODELSPACES	USERS	ROLES JOBS	STATISTICS 🙄	Q Search			
MODELSPACES		0-0 of 0	<< >>>	20 50 100	All			
IMPORT A MODELSPACE	+ NEW							
EXECUTE A SCENARIO								
RETRAIN ALL MODELSPACES								
CREATE A NEW MODELSPACE								

Figure 26: Test interface of Intelligent Indexing after logging in for the first time

- 3. At this point you can change the password of the user "'admin"', if you want to do so. Click "'USERS"', select the user "'admin"' and click "'PASSWORD"'. Assign a new password.
- 4. Click "'LICENSING" and upload the Intelligent Indexing license file (see figure 27). You will receive a message notifying you that your installation of Intelligent Indexing was successfully licensed.



Figure 27: Test interface of Intelligent Indexing for licensing

7.2 Optional Part

You do not necessarily need to execute this part of the testing chapter. Its purpose is to localize and resolve problems, if Intelligent Indexing does not work as expected. It is thus recommended to first execute the next chapter 8. Therein, your installation of DocuWare is connected to Intelligent Indexing. Return to this section, if Intelligent Indexing does not work.

- 1. Open the folder *Intelligent Indexing Service* at the place you moved it to in step 3 of chapter 6. Assign write permissions to user IIS_IUSRS on the subfolder *App_Data*. You can remove these rights at the end of this chapter, if you want to.
- 2. Execute steps 1 and 2 of the above section 7.1.
- Create a new modelspace by clicking "MODELSPACES" and then "+ NEW". You can assign any name to the modelspace. You do not need to change the setting for a parent modelspace. After successfully creating the modelspace, an overview page for the modelspace is displayed (see figure 28).

Q Administration – Inte	elligen × +								-		x
	-			⊽ C' [8	Google	م	☆	<u></u> а 1	L 1		=
0-7-		nodelspace/1/doctypemapp	ing				_				
Intelligent Index	ing modelspa	CES USERS ROL	ES JOBS	STATIS	STICS 🙄		earch	_	_	_	
Test-Modelsp	ace@admin										
	Dofina tha D	ocument Type N	Appping								
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	Letter_Out	Enter your document typ	e								
	Payroll	Enter your document typ	e								
	Proposal_In	Enter your document typ	e								
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	APPLY										
											~

Figure 28: Test interface of Intelligent Indexing after creating a modelspace

4. Now click on the left on "Documents". You will see an empty list of documents. Click the button "+ UPLOAD A DOCUMENT" to upload the test document, which is located in the Intelligent Indexing setup files in the sub-folder *Test document*. After a brief moment you should receive a message that the document was successfully uploaded, and a link appears "Open document ..." (see figure 29). Intelligent Indexing will perform some initializations when it is started for the first time. It can therefore take considerably longer to upload the document than it will later for other documents.



If you see an error message that a folder cannot be found or opened, please read the corresponding section in the chapter "'Problems".

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Figure 29: Test interface of Intelligent Indexing after uploading a document

5. Click the link "Open document ...". You will see a view of the document on the right, and a couple of input fields for index data on the left (30). Now click in the top left on the button "'E" for "Extract".



If, instead of figure 30, you just see a "'shattered" layout,

please read the corresponding section in the chapter "'Problems"'.

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Figure 30: Test interface of Intelligent Indexing: Document view

6. Intelligent Indexing has now filled a couple of the index fields on the left with values (see figure 31). Now click the button "'Send Feedback". You should shortly see a message on the top right that Intelligent Indexing has received your feedback.



If Intelligent Indexing does not supply any index data after waiting a long time, please read the corresponding section in the chapter "'Problems".

If you do not see a message that Intelligent Indexing received your feedback or you see an error message (error 405)

please read the corresponding section in chapter "'Problems"'.

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Figure 31: Test interface of Intelligent Indexing after extracting index data

If you succeeded in carrying out the test as described, you have successfully installed Intelligent Indexing.

8 Connecting Intelligent Indexing and DocuWare

To connect Intelligent Indexing and DocuWare proceed as follows.

- Open the file *intelligent-indexing-connection.xml* within the *Intelligent Indexing* setup files for editing (right-click edit).
- In line 3, replace the value [0] by the name of the server, on which you installed Intelligent Indexing. If you did not register Intelligent Indexing under the default website in step 8 in chapter 6, modify the path accordingly.
- In line 5, replace the password by the password you assigned in step 3 in chapter 7.
- Open DocuWare Administration and create a new connection to Intelligent Indexing under DocuWare System - Data Connections - Intelligent Indexing Connections (right-click), by uploading the file *intelligent-indexing-connection.xml*, that you modified in the previous step (see figure 32). Note, that it might be necessary to change the connection from https to http in the same line.



Figure 32: Creating a connection between Intelligent Indexing and DocuWare

9 Problems and Solutions

This chapter describes some problems and possible causes and suggested solutions. If you have already successfully tested your installation of Intelligent Indexing, as described in the previous chapter, you can ignore this chapter.

9.1 When preparing the SQL Server, running the file *deploy.bat* aborts with an error message

Problem 1: When running the file *deploy.bat* the creation of the database for Intelligent Indexing is canceled with the error message "'The system cannot find the path specified."'. **Solution:** You may not have changed, or have incorrectly changed, the line

SET SQLPACKAGE="..."

Check the path specified in the line and correct it. Check especially whether the path contains the correct installation directory for Microsoft SQL Server Express 2014 (go back to step 3 in chapter 3.2 and figure 4). If you are working in a 32-bit environment, remove "(x86)" from the path.

Problem 2: When running the file *deploy.bat* the creation of the database for Intelligent Indexing is canceled with the error message "Could not deploy package. Unable to connect to target server.".

Solution: You may not have changed the line

SET SERVER=.\...

or have changed it incorrectly. Check the name specified within the line for the SQL Server instance and correct it. Check especially whether the path corresponds to the instance name given when you installed Microsoft SQL Server Express 2014 (go back to step 3 in chapter 3.2 and figure 4).

Problem 3: When running the file "'deploy.bat" database creation for Intelligent Indexing is canceled with an exception (e.g. *TypeInitializerException* or *IOException*). This problem mostly occurs if you use a database other than the recommended SQL Server 2014 Express. **Solution:**

- Check whether you have correctly installed Microsoft SQL Server Data-Tier Application Framework (April 2014).
- For Microsoft SQL Server Data-Tier Application Framework (April 2014) to work correctly, two other components are necessary, which are not set up with some installations of the SQL Server Express. Under

http://www.microsoft.com/de-de/download/details.aspx?id=42295

download the Microsoft SQL Server system CLR types and Microsoft SQL Server Transact SQL ScriptDom (*SQLSysCLRTypes.msi* and *SQLDOM.msi*), and install both.

Back to preparing the database for Intelligent Indexing.

9.2 8.2 Cannot call up the page http://localhost/IntelligentIndexing/Html

Problem 1: You call up the page *http://localhost/IntelligentIndexing/Html*. However you do not see the login screen as shown in figure 25. Instead you receive an error message that this page does not exist (Http Error 404 – Not Found).

Solution:

- · Firstly rule out typing errors when entering the URL.
- Check the website name that you specified when registering Intelligent Indexing in the IIS (go back to step 8 in chapter 6 and figure 23). The URL contains exactly the name that you entered here in the field "'Alias". If you entered the value "'II" for example, instead of "'IntelligentIndexing", then you must modify the URL to http://localhost/II/Html.
- Check whether you actually registered Intelligent Indexing in IIS directly under the default website (go back to step 8 in chapter 6 right-click "'Default Web Site"). If, for example, you registered it under the website *Default Web Site/DocuWare* (by right-clicking DocuWare), you must change the URL to http://localhost/DocuWare/IntelligentIndexing/ Html accordingly.

Problem 2: You call up the page *http://localhost/IntelligentIndexing/Html*. However you do not see the login screen as shown in figure 25. Instead you receive an error message "'Server error in the application" (see figure 33).

Solution: You have not installed Microsoft .NET Framework 4.5. Either you have not installed Microsoft .NET Framework at all, or you installed an earlier version. Carry out the steps in chapter 2.

Configuration Error ×
← → C 🗋 localhost/Docuware/Intellix/Html 😒 Ξ
👯 Apps 🕒 DocuWare 🗅 DocuWare Configur 📴 DocuWare Mobile 💡 Intelligent Indexing 🕒 DocuWare Taskman
Server Error in '/DocuWare/Intellix' Application.
Configuration Error
Description: An error occurred during the processing of a configuration file required to service this request. Please review the specific error details below and modify your configuration file appropriately.
Parser Error Message: Unrecognized attribute 'targetFramework'. Note that attribute names are case-sensitive.
Source Error:
Line 37: <httpruntime <br="" maxrequestlength="1048576">Line 38: enableVersionHeader="false" /> Line 39: <compilation targetframework="4.5"> Line 39: <compilation targetframework="4.5"> Line 39: <compilation targetframework="4.5"> Line 40: <assemblies> Line 41: <add assembly="System.Web.Abstractions, Version=4.0.0.0, Culture=neutral, PublicKeyToken=31BF3856AD364E35"></add></assemblies></compilation></compilation></compilation></httpruntime>
Source File: C.\inetpub\www.wroot\intellix\Web\web.config Line: 39
Version Information: Microsoft. NET Framework Version: 2.0.50727.5472; ASP.NET Version: 2.0.50727.5474

Figure 33: Error message when Microsoft .NET Framework 4.5 is missing

Problem 3: You call up the page http://localhost/IntelligentIndexing/Html. However you do not see the login screen as shown in figure 25. Instead you see an empty page in the browser.

Solution: Check whether you selected all the necessary features when you installed the IIS (go back to step 4 in chapter 5). You need the following features:

• Web Server (IIS) - Web Server - Common HTTP Features: Default Document, Directory

Browsing, HTTP Errors, Static Content

- Web Server (IIS) Web Server Health and Diagnostics: HTTP Logging
- Web Server (IIS) Web Server Performance: Static Content Compression
- Web Server (IIS) Web Server Security: Request Filtering
- Web Server (IIS) Web Server Application Development: .NET Extensibility 4.5, ASP, ASP .NET 4.5, ISAPI Extensions, ISAPI Filters
- Web Server (IIS) Management Tools: IIS Management Console

Problem 4: You call up the page http://localhost/IntelligentIndexing/Html. However you do not see the login screen as shown in figure 25. Instead you see another website comprising a list with various hyperlinks (see figure 34).

Solution: You have forgotten the "'Html" at the end of the URL.

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s:Links (http://dev.docu	ware.com/schema/public/services}		
modelspaces	/IntelligentIndexing/Modelspaces		=
documents	/IntelligentIndexing/Documents		
administration	/IntelligentIndexing/Html		
oldAdministratio			
documentTypes	/IntelligentIndexing/Home/SupportedDocumentTypes		
indexFields	/IntelligentIndexing/Home/SupportedIndexFields		
	me /IntelligentIndexing/Query/ModelspaceByName		
login	/IntelligentIndexing/Account/LogIn		
logout	/IntelligentIndexing/Account/Logoff		
jobs	/IntelligentIndexing/Jobs/Index		
roles	/IntelligentIndexing/Roles		
permissions	/IntelligentIndexing/Home/Permissions		
users	/IntelligentIndexing/Users		
log	/IntelligentIndexing/Home/LogMessages		
maintenance	/IntelligentIndexing/Html/Maintenance		
Resources (http://dev.o	ocuware.com/public/services/intellix}		
	/dev.docuware.com/schema/public/services}		
@Name = "se	Permissions" @UriPattern = "/IntelligentIndexing/Roles/{id}/Permissions"		
	(http://dev.docuware.com/schema/public/services}		
	"id" @ Type = "String"		
	/dev.docuware.com/schema/public/services}		
@Name = "us	erList" @ UriPattern = "/IntelligentIndexing/Users"		
s:Template (http:/	(dev.docuware.com/schema/public/services}		
@Name = "us	erByName" @ UriPattern = "/IntelligentIndexing/Users/UserByName?name={na	ame}"	
s:Parameter	<pre>(http://dev.docuware.com/schema/public/services)</pre>		
@Name =	"name" @Type = "String"		
s:Template (http:/	/dev.docuware.com/schema/public/services}		
@Name = "cr	eateUser" @ UriPattern = "/IntelligentIndexing/Users"		
s:Template (http:/	(dev.docuware.com/schema/public/services)		
	gleUser" @UriPattern = "/IntelligentIndexing/Users/{id}"		
s:Parameter	(http://dev.docuware.com/schema/public/services}		
@Name =	"id" @ Type = "Int32"		~

Figure 34: Intelligent Indexing index page

Back to testing the Intelligent Indexing installation.

9.3 Login to the Intelligent Indexing test interface does not work

Problem: When logging in to the Intelligent Indexing test interface you receive the message "Login failed. The user name or password provided is incorrect.".

Solution:

- Start by checking that the user name ("'admin"') and password ("'admin"') do not contain any typing errors.
- Make sure that the SQL Server is running. To do so, check in Task Manager (tab "Services") whether the service MSSQL\$SQLEXPRESS is present and started (see figure 35). If the service is not present, the installation of the SQL Server is possibly corrupt or failed. Check whether you correctly carried out all steps in chapter 3.1. If the service is present but not started, start it.

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Keylso			CNG I	Key Isolation	Stopped		
KPSSVC			KDC F	Proxy Server service (KPS)	Stopped	KpsSvcGroup	
🔆 KtmRm			KtmR	m for Distributed Transacti	Stopped	NetworkServic	
🔆 LanmanS	erver	772	Server	r	Running	netsvcs	
🔍 LanmanV	/orkstation	980	Works	station	Running	NetworkService	
🔍 lltdsvc			Link-L	layer Topology Discovery	Stopped	LocalService	
🔍 Imhosts		708	TCP/I	P NetBIOS Helper	Running	LocalServiceN	
🔍 LSM		592	Local	Session Manager	Running	DcomLaunch	
MMCSS			Multi	media Class Scheduler	Stopped	netsvcs	
🔍 MozillaM	aintenance		Mozil	la Maintenance Service	Stopped		
MpsSvc		832	Winde	ows Firewall	Running	LocalServiceN	
🔍 MSDTC		388	Distrit	buted Transaction Coordin	Running		
🔍 MSiSCSI			Micro	soft iSCSI Initiator Service	Stopped	netsvcs	
🔍 msisenver			Wind	ows Installer	Stonned		
🔍 MSSQL S S	QLEXPRESS	118	SQL S	erver (SQLEXPRESS)	Running		
🐇 napagent			Netwo	ork Access Protection Agent	Stopped	NetworkService	
🔍 NcaSvc			Netwo	ork Connectivity Assistant	Stopped	NetSvcs	
🔍 Netlogon			Netlo	gon	Stopped		
🔍 Netman			Netwo	ork Connections	Stopped	LocalSystemN	
🔍 netprofm		840	Netwo	ork List Service	Running	LocalService	

Figure 35: View in the Task Manager with the database service started

 If you were able to check that SQL Express started based on the previously suggested solutions, then it is possible that preparing the SQL Server for the Intelligent Indexing service failed. Check whether you correctly carried out all steps in chapter 3.2, especially whether the file *deploy.bat* was in fact successfully run in step 4 (go back to the message about data being successfully imported in figure 8).

Back to testing the Intelligent Indexing installation.

9.4 Intelligent Indexing testing UI only partially loaded

Problem: After logging in, the Intelligent Indexing testing UI is missing several menu items (compared to figure 26).

Solution: There seems to be a problem loading UI libraries for the Intelligent Indexing testing UI from the internet. Execute step 2e in section 6 or check if you executed it correctly. Back to testing the Intelligent Indexing installation.

9.5 Uploading the test document does not work.

Problem: Uploading the test document does not work. You see an error message that a folder cannot be found or opened

Lösung: Ensure, that you correctly executed step 1 of chapter 7.2. Back to testing the Intelligent Indexing installation.

9.6 The test document display does not work.

Problem: The test document display does not work. All you can see is a "shattered" layout. **Solution:** If you are using Internet Explorer from version 11, please open the page in another browser (e.g. Google Chrome or Mozilla Firefox). To do this, simply copy the URL and open it in another browser. After logging in again (user name: admin, password: admin) the page should be displayed correctly.

Back to testing the Intelligent Indexing installation.

9.7 Extracting the index data does not work.

Problem: Extracting the index data does not work. Even after waiting for a long time no index data is displayed in the Intelligent Indexing test interface. If you open the page http://localhost/IntelligentIndexing/Home/LogMessages, you will see, among other things, an error message with the text "An error occurred when serving GET ...". (see figure 36).

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[⊠] Critical [™] Error [™] War Messages	ning	☑ Info □ De	sbug Number of messages: 50
Time	User	Machine	
			8 times An error occured when serving GET http://localhost/IntelligentIndexing/Documents/a6e03725
2014-09-05T08:21:13.8094618	admin	LOCALINTELLIX	System.MagregateException: One or more errors occurred> System.Net.WeEException: Unable to connect to t as System.Net.Socket.Socket.DoConnect(EndPoint endPointShapshot, SocketAddreas) accketAddreas) as System.Net.ServicePoint.ConnectSocketInternal(Boolean connectFallume, Socket 34, Socket 36, Socket 37 End of inner exception stack trace a System.Net.HitpHeBeReguest GeneRegateStard[TransportContexts context) at DocuMare.Intellix.Implementation.Engine.Solr.SolrFext
2014-09-05T08:03:26.9743603		LOCALINTELLIX	▶ 3 times. Getting the extracted index data from 'documents/3725/A6E0/a6e03725-b151-4997-b2eb-456
2014-09-05T08:02:40.1659281		LOCALINTELLIX	2 times. Getting the knowledgeDb for modelspace '1' took 666 ms.
2014-09-05T08:02:35.8263478	admin	LOCALINTELLIX	▶ 3 times. The content of page 0 of the document with the id a6e03725b1514997b2eb456e9ab6714a is
2014-09-05T08:02:34.0388883	admin	LOCALINTELLIX	▶ 3 times. The document with the id a6e03725b1514997b2eb456e9ab6714a is requested to edit in new e
2014-09-05T08:02:31.5649693	admin	LOCALINTELLIX	► 4 times. A document uploaded to modelspace 1 took 47028 ms.
2014-09-05T08:02:31.5649693		LOCALINTELLIX	▶ 4 times. Storing to 'documents/3725/A6E0/a6e03725-b151-4997-b2eb-456e9ab6714a.xml' took 120 m
2014-09-05T08:01:24.233518		LOCALINTELLIX	▶ 2 times. User 'admin' logged in with http
2014-09-05T08:01:12.0412053		LOCALINTELLIX	Preparing third party packages.
2014-09-05T08:01:11.9476551		LOCALINTELLIX	7 times. Failed to create performance counters performance data collector. Failing back to the default is System. TypeInitializationException: The type initializer for 'bookker. Intellix. Implementation. Performance. Is is System. Diagnostics. PerformanceCounter. InitializeImpl() as System. Diagnostics. PerformanceCountercotor(String costegoryMaes, String counterlaws, Boolean readOnty) is System. Diagnostics. PerformanceCountercotor(String costegoryMaes, String counterlaws, Boolean readOnty)

Figure 36: View of Intelligent Indexing log messages for incorrect SolR

Lösung: There is a problem with SolR or Tomcat. Firstly check whether Tomcat is started (go back to step 4 in chapter 4.2). If this is not the case, start it. However, if Tomcat is already running, there is a problem with SolR. Please check whether you carried out all steps exactly as indicated in chapter 4.3.

Back to testing the Intelligent Indexing installation.

9.8 Problems with Feedback of Index Data

Problem: You do not see a message that Intelligent Indexing received your feedback or you see an error message (error 405).

Lösung: Ensure, that you uninstalled WebDAV Publishing as recommended in step 4 of chapter 5.

Back to testing the Intelligent Indexing installation.

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