# SPEECHEXEC MOBILE SERVER

## VERSION 2.4.1

## Technical Documentation
## Advanced Configuration

For Certified MDC Partners and Support technicians

PHILIPS

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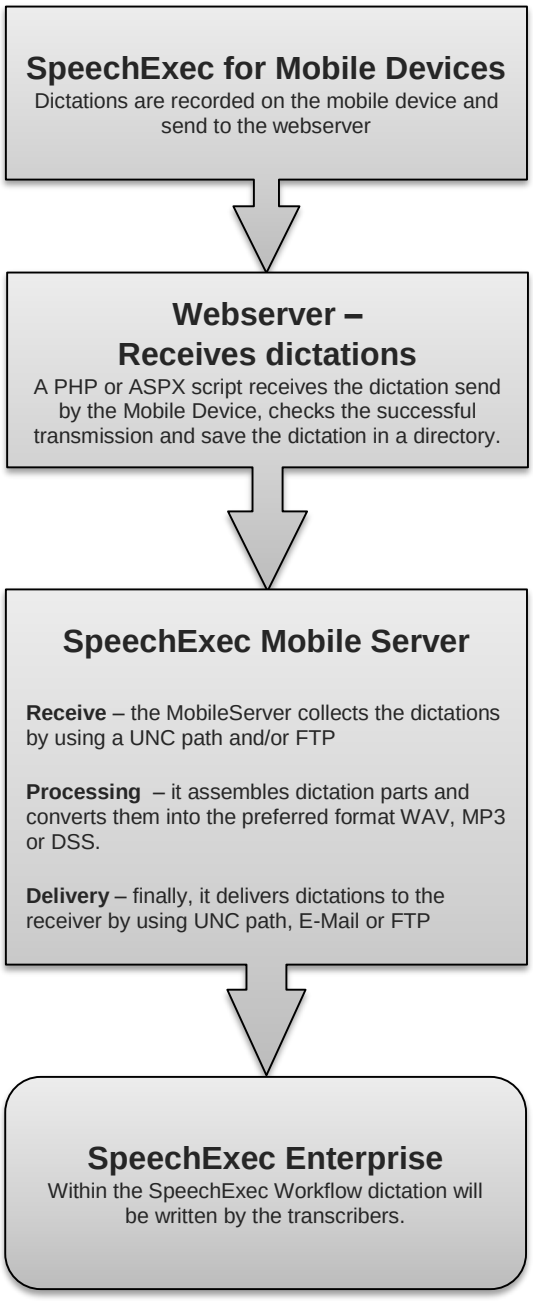
# 1. Installation and Configuration

## 1.1. Introduction

Congratulations for purchasing a Philips SpeechExec Mobile Solution. By using the following components it is possible to integrate your Mobile Device with Philips Dictation Recorder, used as a dictation machine, into your SpeechExec Workflow.

## 1.2. Components Overview

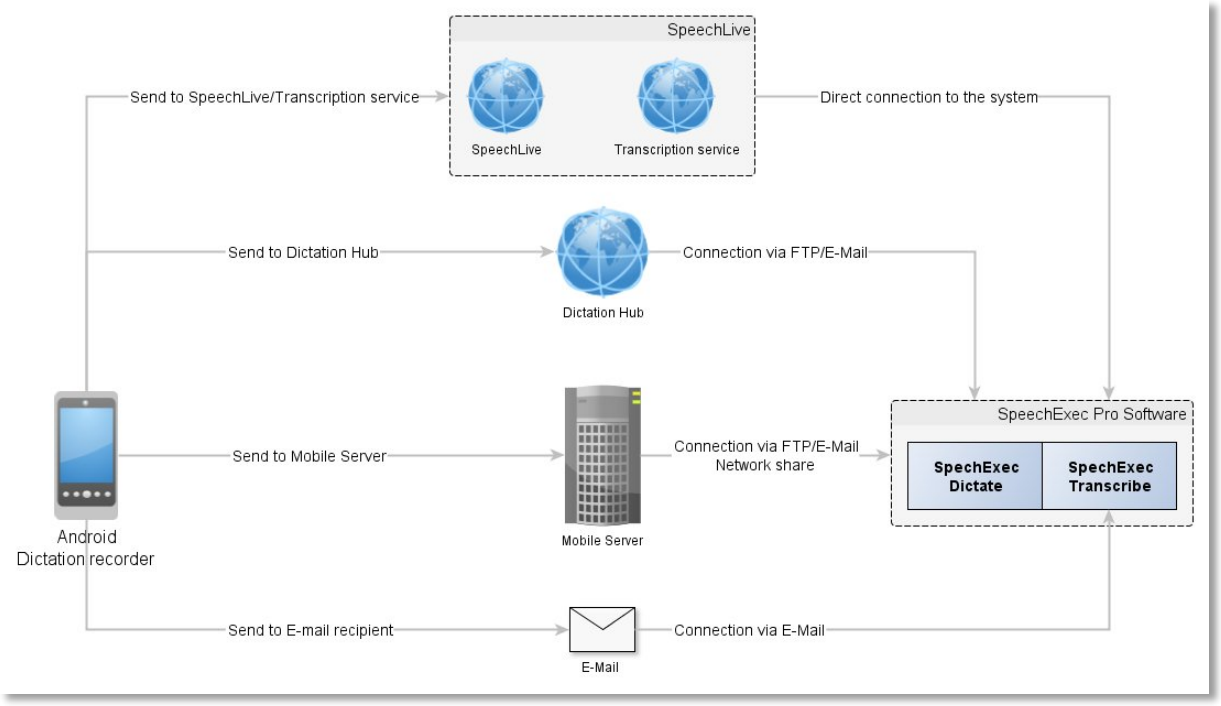



SpeechExec Client Software – this software turns your mobile device into a professional dictation machine. It is possible to record dictations, rewind, insert or manage recorded dictations on the device. Dictations are sent via TCP to a receiver, i.e. the webserver.

A previously on the webserver installed PHP or ASPX script receive dictations from the mobile devices, checks if the transmission was successful and save the dictations in a directory. All the incoming dictations are temporarily buffered on the webserver.

The SpeechExec Mobile Server takes care of the management of the user data since every Mobile devices corresponds to the serial number is assigned to a specific user. It picks up the dictations, which should be processed from the temporary file of the web server. It accesses the file by using an UNC path or FTP. Additionally, it converts the temporarily used AMR format into a common format like MP3, WAV, DSS and sends it to the SpeechExec workflow via UNC path, FTP or e-mail to the user.

SpeechExec Enterprise Software – Dictations are written and deployed further respectively within the SpeechExec workflow.



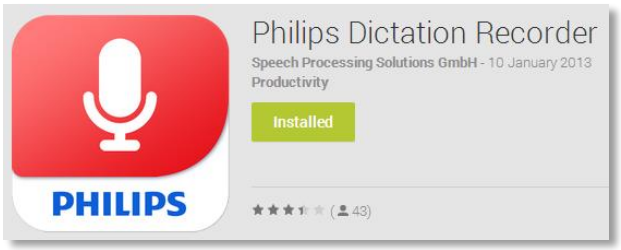

System chart for software components and connections.

## 1.3. Installation, Planning and Requirements

The installation of SpeechExec Mobile Server is easy to manage. However, certain components have to be adjusted. Especially in companies using strict safety directives the installation should be made by an experienced administrator who knows how to handle web server settings, setup firewall, setup BlackBerry Enterprise Server (only if BlackBerry is in use), FTP Server, MSSQL Database and manage Windows Server Systems.

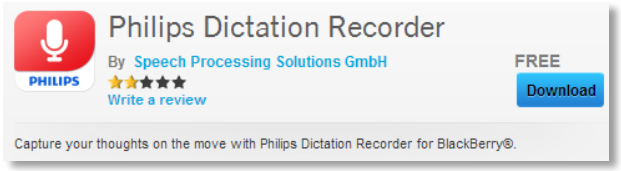
### 1.3.1. Clients for Mobile Device

#### 1.3.1.1. SpeechExec Dictation Recorder for Android




Speech Processing Solutions have tested and released version 2.7.01 on the following devices:
Nexus5 with 4.4.2 and 5.1.0
Nexus6 with 5.1.0
Samsung Galaxy S5 with 5.0.0
Samsung Galaxy S4 with 4.4.2
Samsung Galaxy Note4 with 4.4.4
Samsung Galaxy Nexus with 4.2.1
In case you have an Android smartphone different than the ones that are listed above, please make sure to upgrade your smartphone to Android version 4.x.

#### 1.3.1.2. SpeechExec Dictation Recorder for BlackBerry




Supported and tested devices:
SpeechExec for BlackBerry 1.5.0.014
Blackberry 8310, Curve, operating system version: 4.5.0.55
Blackberry 8110, Pearl, operating system version: 4.5.0.55
Blackberry 8100, Pearl, operating system version: 4.5.0.55
Blackberry 8800, operating system version: 4.5.0.174

SpeechExec for BlackBerry 2.0.0.26
Blackberry 8220, Flip, operating system version: 4.6.0.165
Blackberry 8900, Curve, operating system version: 5.0.0.592
Blackberry 8520, Curve, operating system version: 5.0.0.1036
Blackberry 9000, Bold, operating system version: 5.0.0.822
Blackberry 9700, Bold 2, operating system version: 5.0.0.423

SpeechExec for BlackBerry 2.0.0.31
Blackberry 9700, Bold 2, operating system version: 6.0.0.448
Blackberry 9780, Bold, operating system version: 6.0.0.294
SpeechExec for BlackBerry 2.0.0.38
Blackberry 9900, Bold, operating system version: 7.0.0.100
Blackberry 9900, Bold, operating system version: 7.1.0.1046
Blackberry 9720, Samoa, operating system version: 7.1.0.714
Blackberry 9360, Curve, operating system version: 7.0.0.244

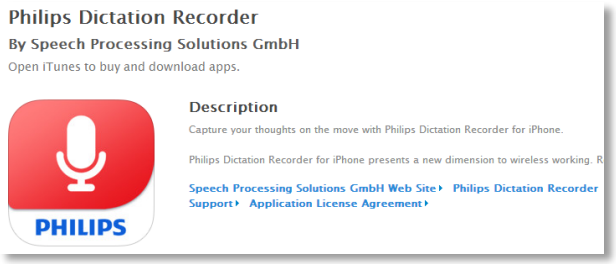
SpeechExec for BlackBerry 2.0.14.31
Blackberry 9800, Torch, operating system version: 6.0.0.337

SpeechExec for BlackBerry 2.0.14.39
Blackberry 9810, Torch, operating system version: 7.0.0.261
Blackberry 9860, Torch, operating system version: 7.0.0.353

SpeechExec for BlackBerry 2.0.3.17
Blackberry 9500, Storm, operating system version: 5.0.0.484
Blackberry 9520, Storm 2, operating system version: 5.0.0.497

Dictation Recorder version 1.0.3.0
BlackBerry Z10 operating system 10.X

#### 1.3.1.3. SpeechExec Dictation-Recorder for iPhone




Speech Processing Solutions have tested and released version 3.7.05 on the following devices:

Supported Devices:
iPhone 4
iPhone 4S
iPhone 5
iPad 1/2/3

Operating Systems
iOS 8

### 1.3.2. MobileServer Requirements

Processor: Pentium 1,7GHz or equivalent
RAM Memory: 1GB or higher
Server Operating System: Microsoft Server 2003 32Bit
Microsoft Server 2008 32/64Bit
Microsoft Server 2008R2 64Bit
Microsoft Server 2012

Microsoft .NET Framework 3.5

Microsoft Desktop Experience
Optional MSSQL Database – if not available, SQL Server 2008 Express installation will be provided during MobileServer installation.

Microsoft SQL Server 2008 Express
Microsoft SQL Server 2008
Microsoft SQL Server 2008R2

Harddrive: 3GB for SQL Express Server
700MB for .NET Framework 3.5
5GB or more for Dictation Files

Microsoft Small Business Server versions are not supported due to their already heavily taxed functionality

#### 1.3.2.1. Webserver

Microsoft Internet Information Server version 6.0 or newly with ASPX Support
Apache Webserver version 2.0.64, 2.2.23, 2.4.3 or newly with PHP Support

# 2. Before you install checklist

Check these conditions before beginning the installation procedure:

1. If necessary, install the .NET Environment
   for Windows Server 2012 – see Chapter 8.10.1
   for Windows Server 2008 – see Chapter 8.10.2

2. If necessary, install the Desktop Experiences Feature
   for Windows Server 2012 – see Chapter 8.11.1
   for Windows Server 2008 – see Chapter 8.11.2

3. If necessary, install the IIS Webserver
   for Windows Server 2012 – see Chapter 8.12.1
   for Windows Server 2008 – see Chapter 8.12.2

4. If you use external Web Server from Hosting Company, please check and prepare a FTP Account for the Account

5. Download and save the Mobile Server Software from the www.dictation.philips.com

**Note:**

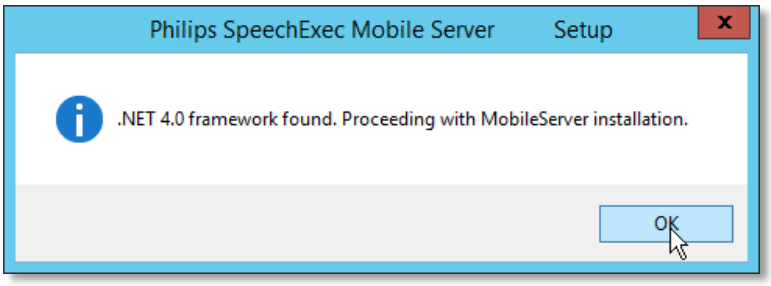
**Creation and preparation of the target Server is the responsibility of the customer's IT department.**

# 3. Mobile Server – Installation process

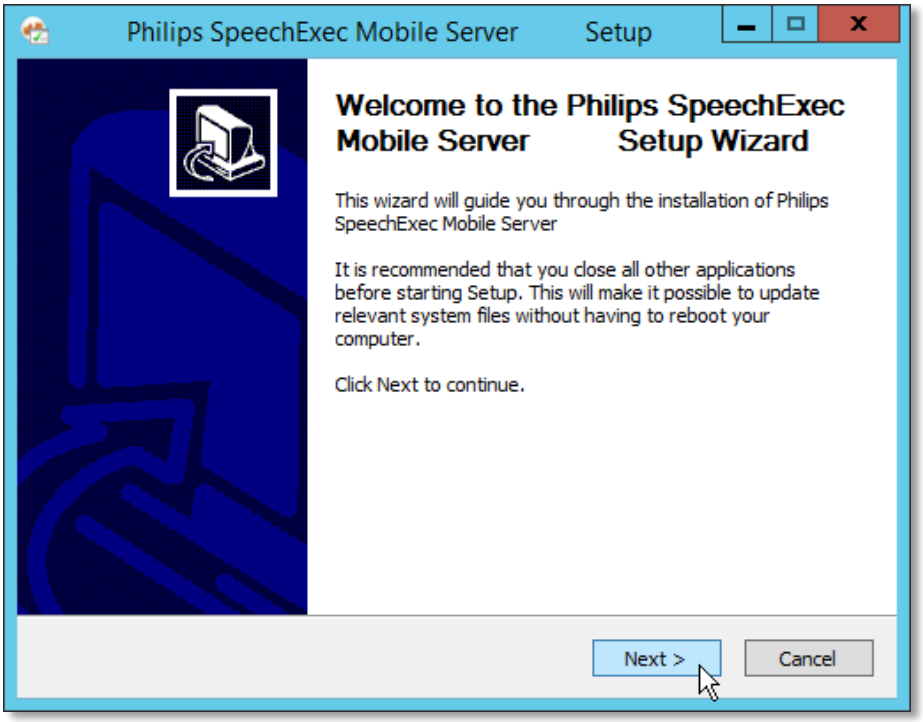
The incoming dictations can be found in the dictation folder of the web server. The SpeechExec Mobile server automatically receives the dictations, converts them into the target format and sends them to the SpeechExec Workflow. Additionally, single users are managed and the system control is configured.

Download the latest version of the MobileServer software and run this with Administrator rights. Double-click on MobileServer_2_4_X_x32.exe to start the installer

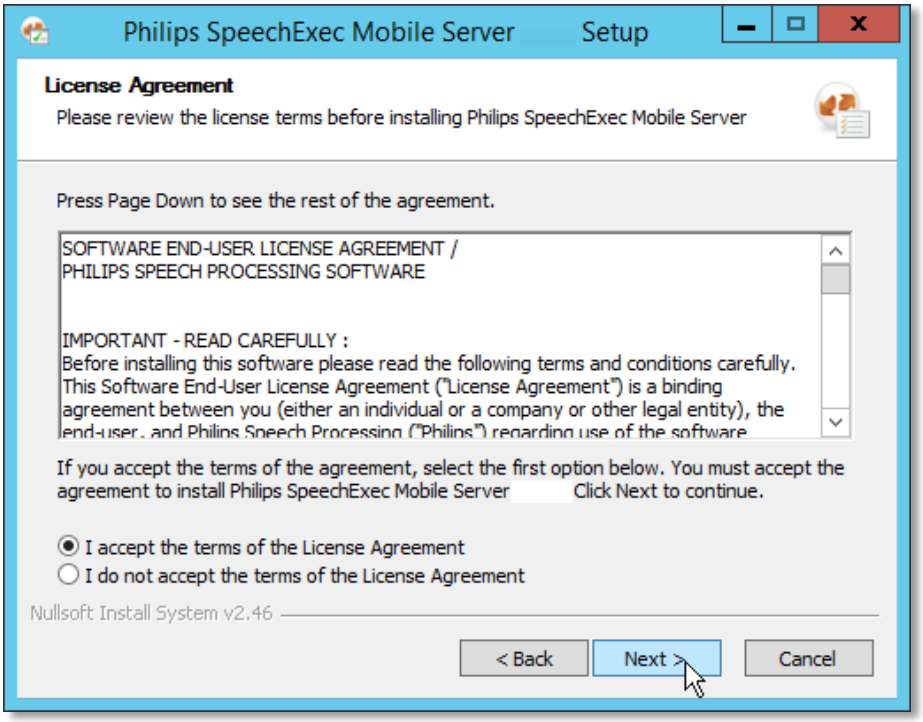
The .NET 4.0 is required for the full installation.
Click OK.



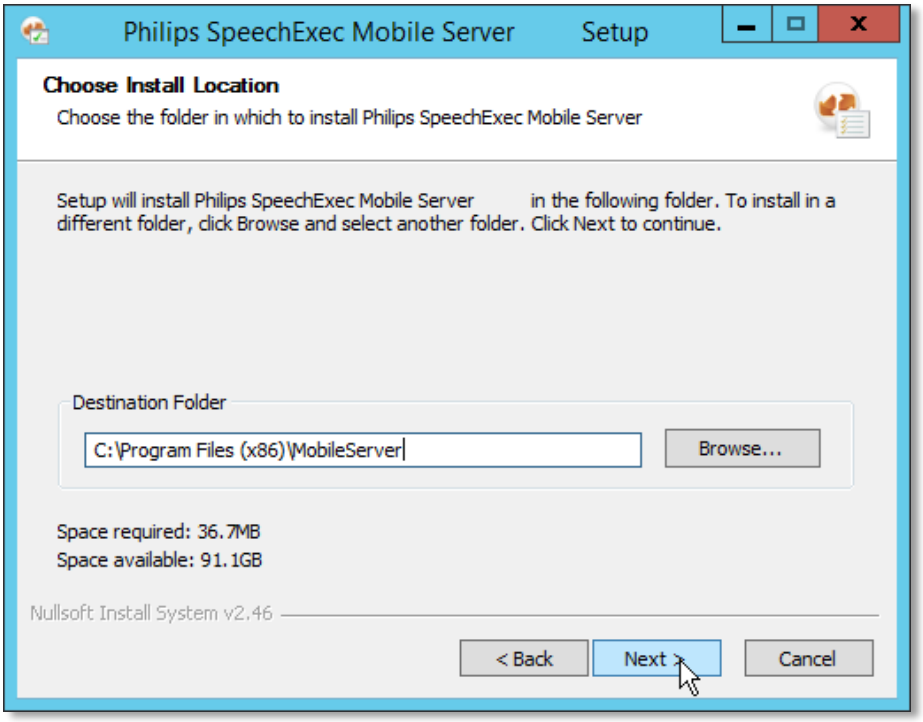

.NET4.0 Installation is running
Click Next



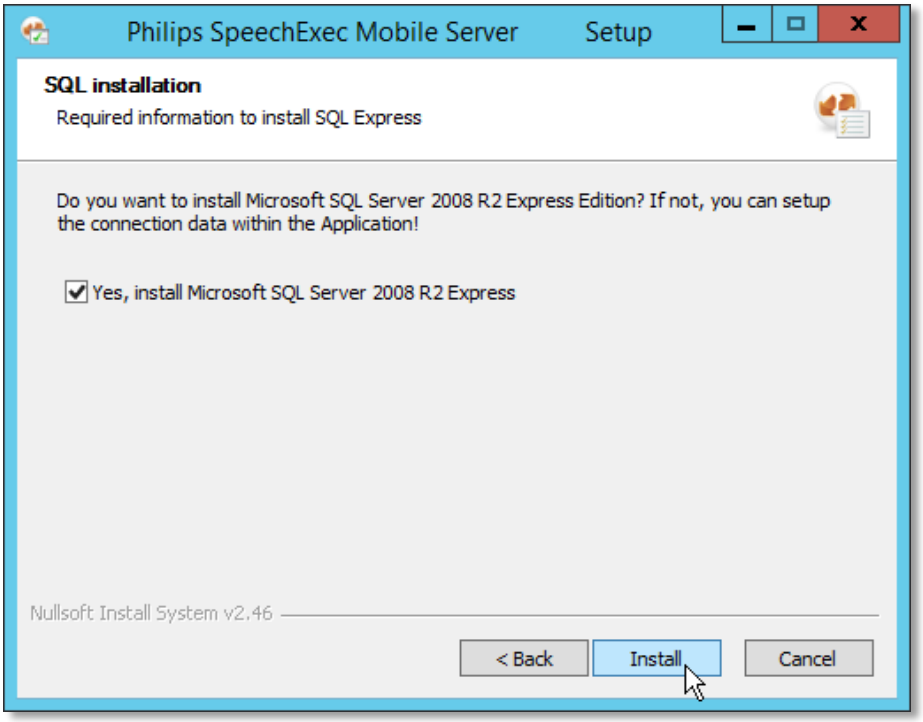
Accept the terms of the License Agreement and click Next



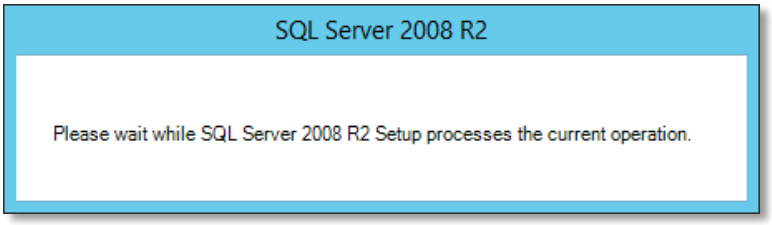

You can choose the installation path or keep the preselected destination path and click on Next. Predefined path is C:\Program Files (x86)\MobileServer



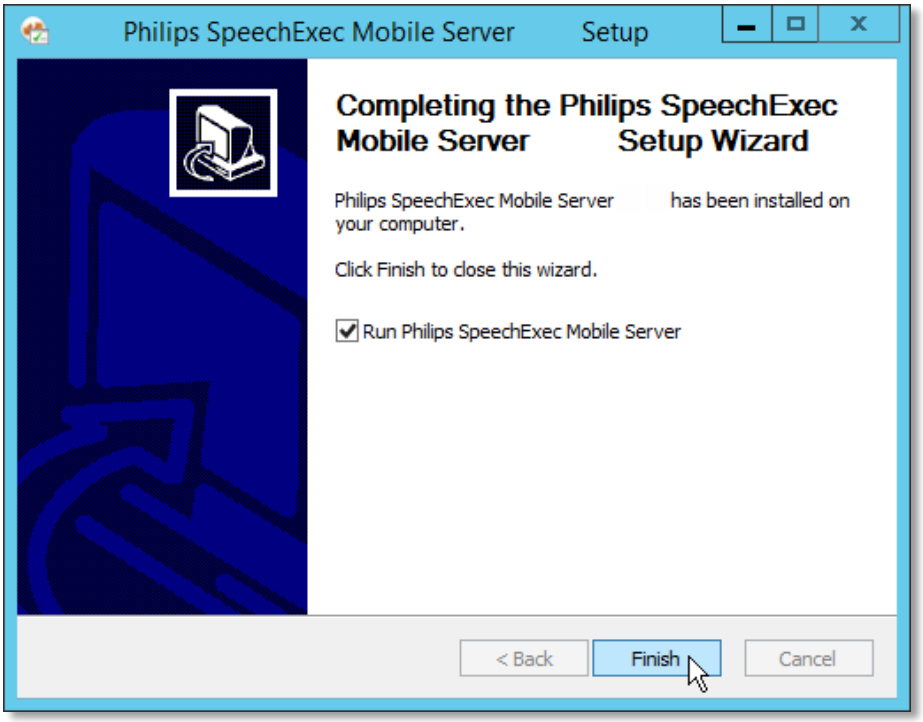
Activate – Yes, install Microsoft SQL Server 2008 R2 Express and click Install.




Installation process is running in the background




Click Finish to proceed to the MobileServer Configuration Tool.

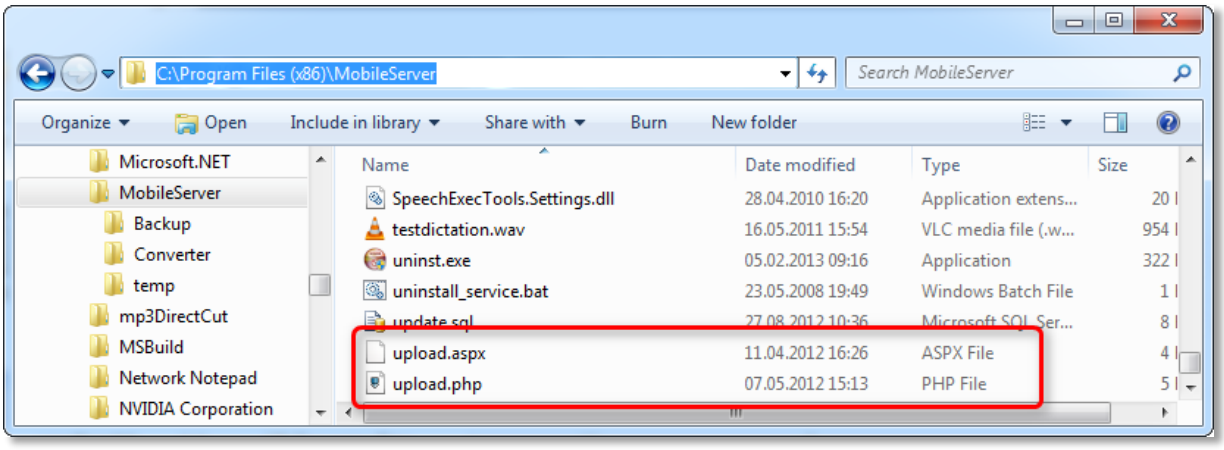


# 4. Webserver - configuration

Dictation receiving (webserver) and dictation processing (SpeechExec Mobile Server) are two independent modules and can therefore be installed and tested independently.
For the first step – receive dictation from mobile devices – we need prepare our webserver.

## 4.1. Installation of the Upload Script

There are two script files (upload.php, upload.aspx) in the installation directory of the Mobile Server. The PHP script can be used with every current web server on which you can install and run PHP5. The ASPX file is specifically made for the Microsoft Internet Information Server (IIS).




For a new installation, you can create two folders in your web-root directory. In our example we create a folder **mobileserver_upload** and **dictations**, but you can name the folder they you would like it.

- **/mobileserver_upload/** – copy the upload.php or upload.aspx script into the directory. If you configure the web server, the data files in the directory should be visible to the user and allow the PHP script or ASPX respectively to be run.

- **/mobileserver_upload/dictations/** – this is the folder where the incoming dictations are saved. Make sure that all services of the web server components have access to the directory and have permission to save data within the directory. The access to the dictation file via web browser should generally be restricted. Thus, there is a strict separation between the active web components and the actual memory.

Edit the corresponding script file as follows:

Upload.php

```
// destination, where the files get copied to
define('DESTINATION', dirname(__FILE__) . '/dictations');
/*Fill in the user name and password that correspond to the data used for the
mobile device client:*/
define('USERNAME', 'test');
define('PASSWORD', 'test');
/* Enter the target path you would like to use to store the dictations:*/
define('DESTINATION', '/dictations/');
/* If you expect script problems, you can allow the error to be displayed (true/false)*/
define('SHOW_SCRIPT_ERRORS', false);
```

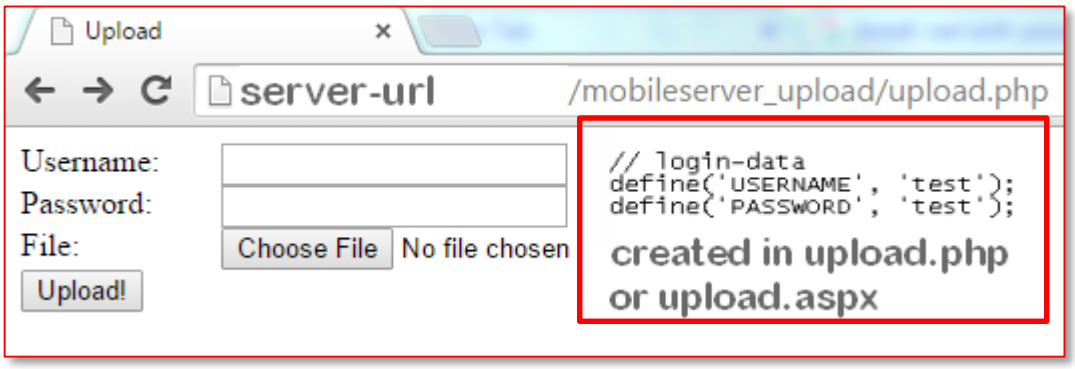
Upload.aspx

```
<%-- Fill in the user name and password that correspond tot he data used for the
mobile device client:--%>
const string USERNAME = "test";
const string PASSWORD = "test";
<%-- Enter the target path you would like to use to store the dictations:
 (please use two backslashes in your path instead of one; e.g.: C:\\DictationRoot\\Dictations):
--%>
const string DESTINATION = "C:\\dictations";
```

Check the script – open the URL of the script file by using the Internet Explorer or other Webbrowser from another computer inside the network
For Apache/PHP
http://SERVER IP ADDRESS/speechexec/upload.php

For Microsoft IIS/ASPX
http://SERVER IP ADDRESS/speechexec/upload.aspx
It should appear a web form. If this is not the case, the script lacks appropriate permissions or PHP or ASPX is not installed correctly.

Fill in user name (test) and password (test) which you have previously defined in upload.php or upload.aspx and choose a supported audio file.




The following information could occur:

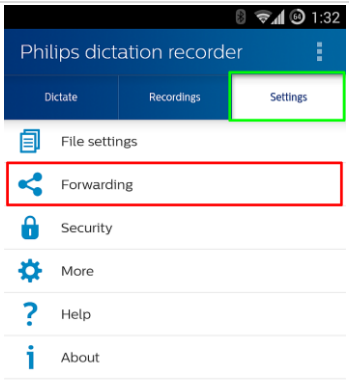
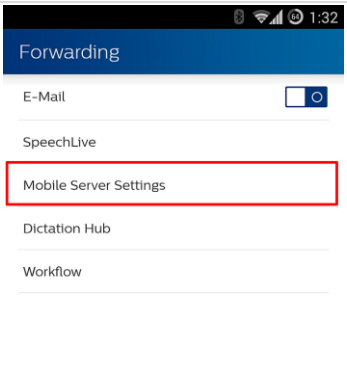
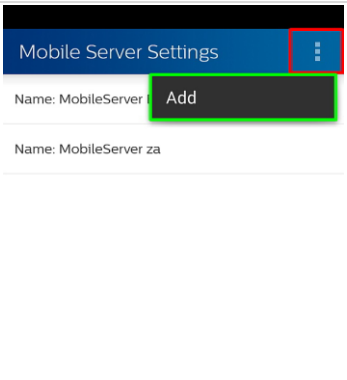
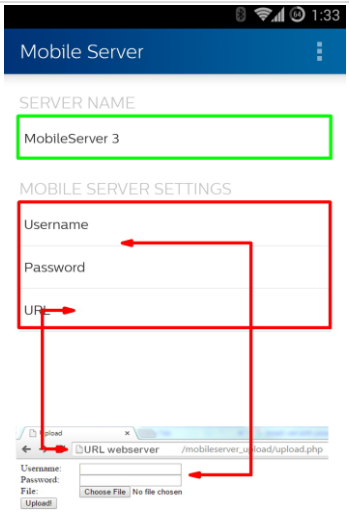
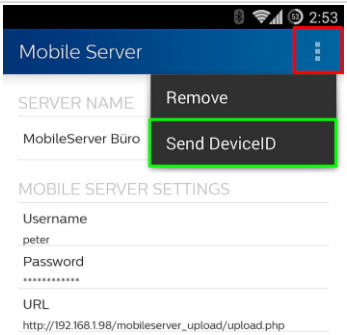
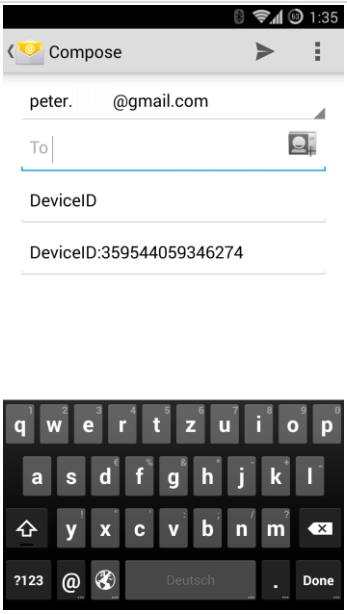
Code0: 152d03c64d536a361ed6e83fa354359c282dc8e7

Code0 = No Error
Code1 = Invalid username or password
Code2 = Filetype not allowed. Allowed file type is define in upload.php or upload.aspx
Code3 = Unexpected error, check given message
You now have the upload script successfully installed and can now setup the mobile device components.

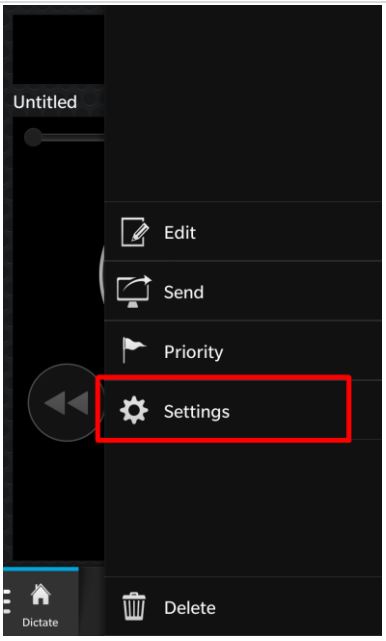
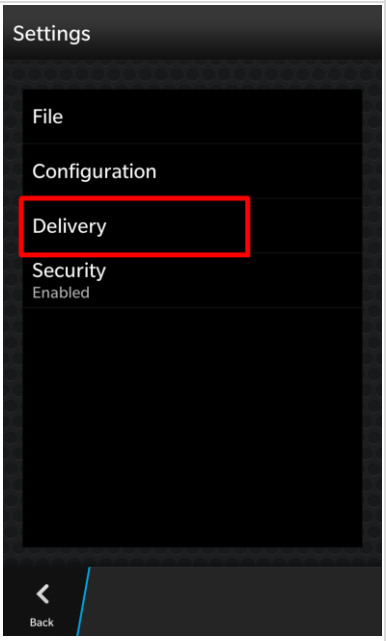
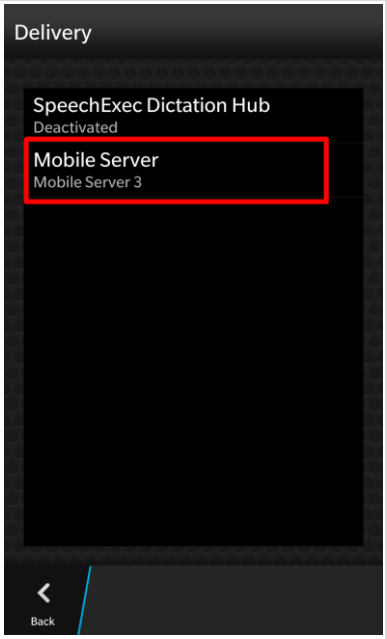
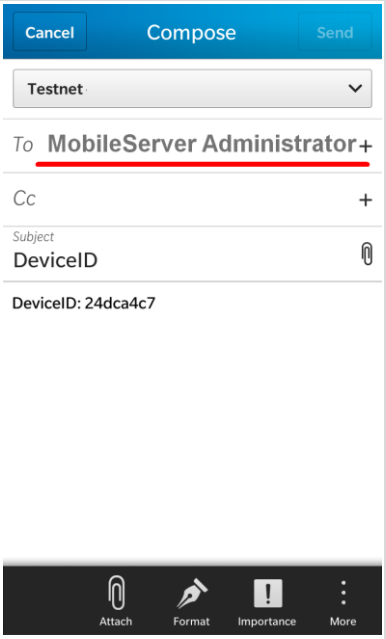
# 5. Dictation App Configuration

Please install Philips Dictation Recorder on your Mobile Device and configure a connection with the Mobile Server.

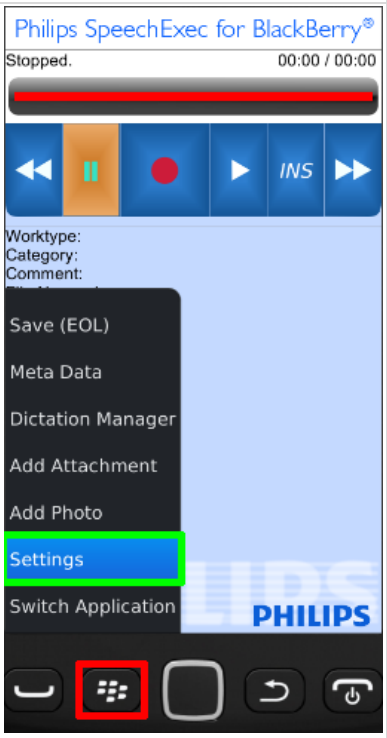
## 5.1. Android Client

| Tap the Settings green square and tap Forwarding | Tap Mobile Server Settings | Tap the red corner icon and select Add |
|---|---|---|
|  |  |  |
| tap on MobileServer 3 and rename it. Tap on Username, Password and URL and set the connection parameter as already previously set | Tap one of the red corner and following Send DeviceID. Send the DeviceID to your MDC Dealer or system administrator | To configure the MobileServer send the DeviceID to administrator |
|  |  |  |

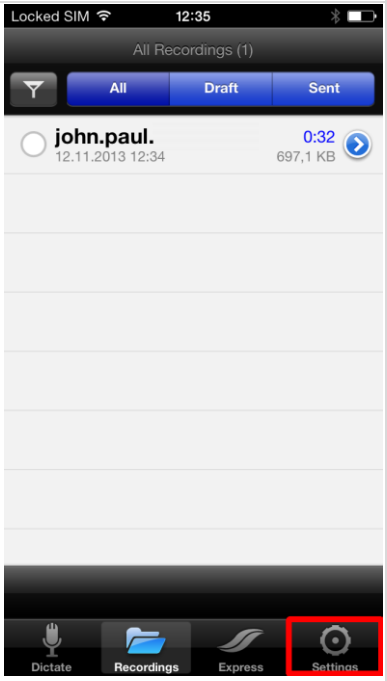
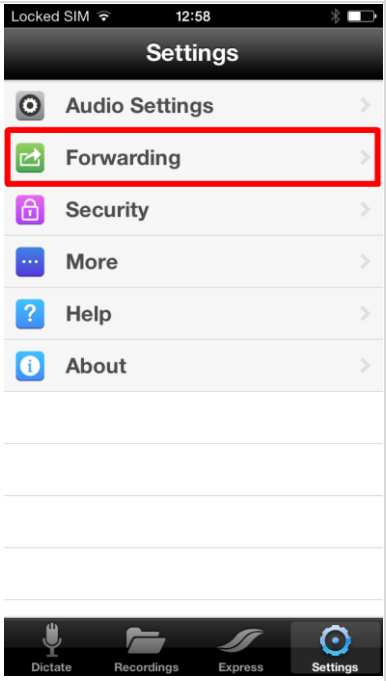
## 5.2. BlackBerry OS10 Z10 Client

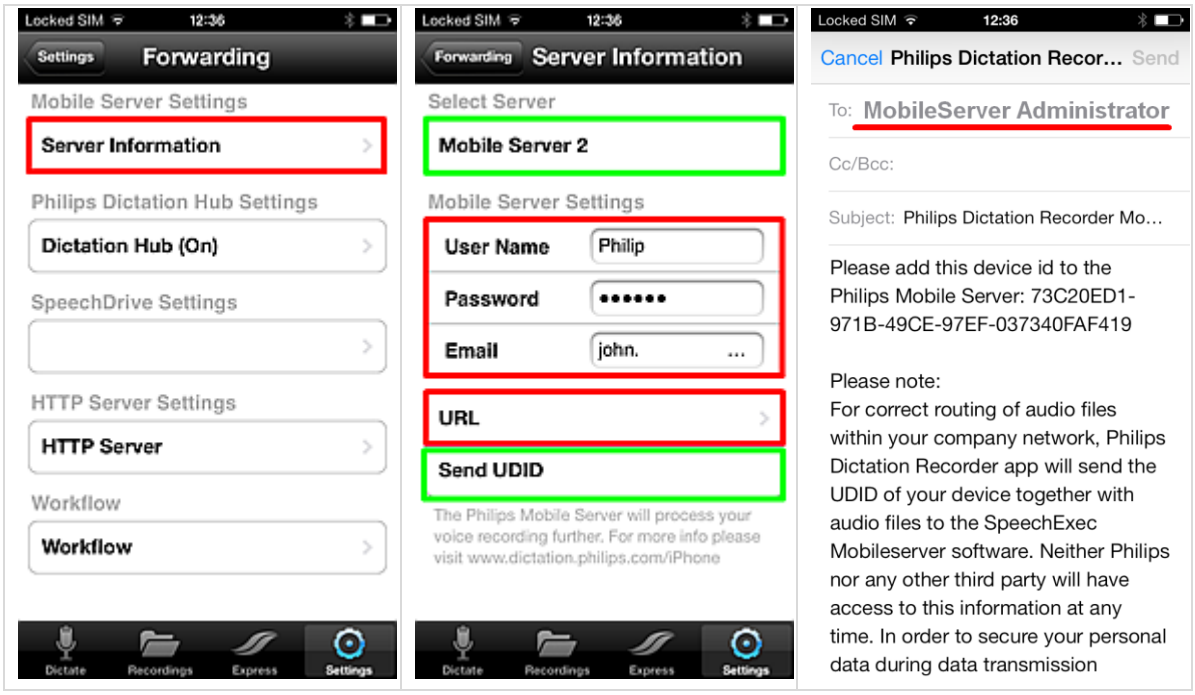
| Tap red corner | Tap Settings | Tap Delivery |
|---|---|---|
| |  |  |
| Tap Mobile Server | Setup Username, Password and URL. Tap on Mobile Server to select one from available Mobile Servers. Tap Send DeviceID | To configure the MobileServer send the DeviceID to administrator |
|  | |  |

## 5.3. BlackBerry OS7 9860 Client

| Click red corner and select Settings | Select Connection Settings | Enter the Server URL, User name and Password |
|---|---|---|
|  | | |
| Enter Mobile Server URL and click OK. You can use only one Mobile Server | Complete the data, click on red corner and select Save | To configure the MobileServer send the Device PIN to administrator via E-Mail. Select Setup/ Options/Device/Device and select Status Information. |

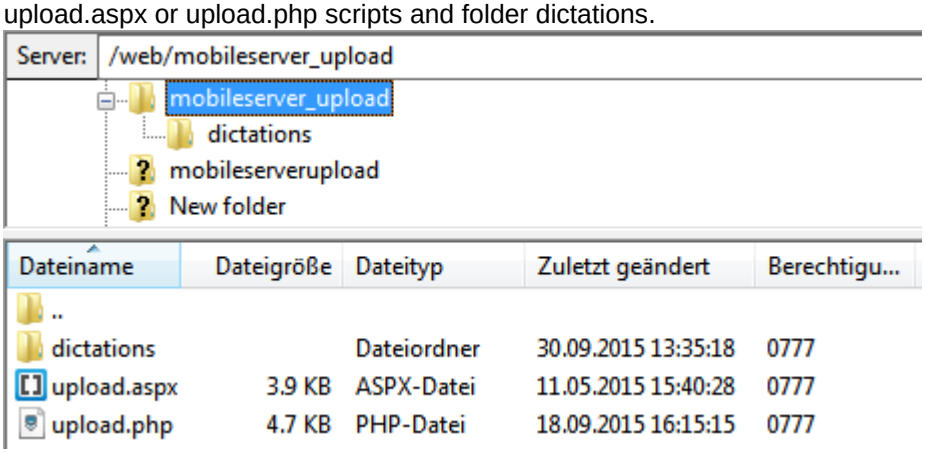
## 5.4. iPhone Client

| Tap red corner | Tap Settings | Tap Forwarding |
|---|---|---|
| |  |  |
| Tap Server Information | Tap green corner to select Mobile Server. Tap red corner and Setup User Name, Password, Email and Server-URL. Tap green corner to Send DeviceID | To configure the MobileServer send the IDID to administrator |

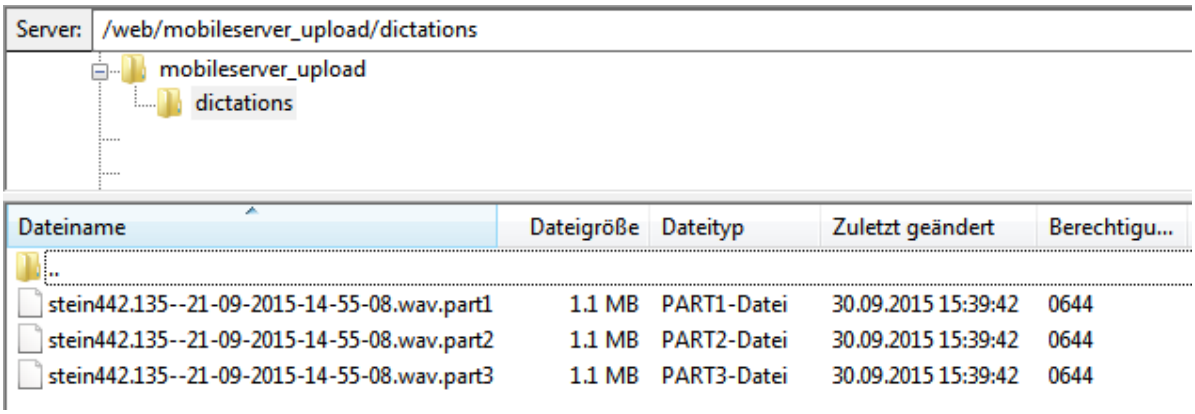

Locked SIM 12:36
Settings
Forwarding
Mobile Server Settings
Server Information
Philips Dictation Hub Settings
Dictation Hub (On)
SpeechDrive Settings
HTTP Server Settings
HTTP Server
Workflow
Workflow
Dictate
Recordings
Express
Settings
Locked SIM 12:36
Forwarding
Server Information
Select Server
Mobile Server 2
Mobile Server Settings
User Name
Philip
Password
Email
john.
URL
Send UDID
The Philips Mobile Server will process your voice recording further. For more info please visit www.dictation.philips.com/iPhone
Dictate
Recordings
Express
Settings
Locked SIM 12:36
Cancel
Philips Dictation Recor...
Send
To:
MobileServer Administrator
Cc/Bcc:
Subject:
Philips Dictation Recorder Mo...
Please add this device id to the Philips Mobile Server: 73C20ED1-971B-49CE-97EF-037340FAF419
Please note:
For correct routing of audio files within your company network, Philips Dictation Recorder app will send the UDID of your device together with audio files to the SpeechExec Mobileserver software. Neither Philips nor any other third party will have access to this information at any time. In order to secure your personal data during data transmission

## 5.5. Check the Configuration

Connect to WebServer via FTP and open the mobileserver_upload folder – you see only the upload.aspx or upload.php scripts and folder dictations.




Open the dictations folder and you see the files upload via web form or send from the dictation app



## 5.6. XML File structure

XML file structure receive from BlackBerry mobile device

```
<?xml version="1.0" encoding="UTF-8"?>
<SpeechExecDictation version="1.0.3.0">
   <apn></apn>
   <audioformat>WAV</audioformat>
   <author>John</author>
   <besmode>no</besmode>
   <blackberrylanguage>en_US</blackberrylanguage>
   <blackberryosversion>10.2.0.1791</blackberryosversion>
   <category></category>
   <comment></comment>
   <companyname></companyname>
   <country></country>
   <creationdate>2013-10-31T15:40:26</creationdate>
   <deviceid>24dca4c7</deviceid>
   <devicename>RIM BlackBerry Device Z10 (STL100-2)</devicename>
   <encrypted>true</encrypted>
   <fileindex>0</fileindex>
   <filenumber>untitled</filenumber>
   <firstname></firstname>
   <format>WAV</format>
   <priority>false</priority>
   <providercountry></providercountry>
   <providername></providername>
   <sha1Hash>0d17fd97f67bb57ff4a373a84d4f71658cb592f3</sha1Hash>
   <storagemode></storagemode>
   <surname></surname>
   <uploadchunkcount>0</uploadchunkcount>
   <uploadchunksize>0</uploadchunksize>
   <uploadchunkssuccess>0</uploadchunkssuccess>
   <worktype></worktype>
</SpeechExecDictation>
```

XML file structure receive from Android mobile device

```
<?xml version='1.0' encoding='UTF-8' standalone='yes' ?>
<SpeechExecDictation version="v2.7.01">
  <format>AMR</format>
  <creationdate>2015-09-21T14:55:08</creationdate>
  <comment></comment>
  <category></category>
  <worktype></worktype>
  <author></author>
  <custom1></custom1>
  <custom2></custom2>
  <custom3></custom3>
  <custom4></custom4>
  <custom5></custom5>
  <filenumber>stein442.135</filenumber>
  <priority>false</priority>
  <deviceid>359544059346274</deviceid>
  <encrypted>false</encrypted>
  <sha1Hash>8e6a700b447195242d2a8e213f7c790f04f23cc1</sha1Hash>
  <fileindex>0</fileindex>
  <uploadchunkcount>18</uploadchunkcount>
  <uploadchunksize>1048576</uploadchunksize>
  <uploadchunkssuccess>0</uploadchunkssuccess>
  <audioformat>MP3</audioformat>
  <country></country>
  <companyname></companyname>
  <firstname></firstname>
  <surname></surname>
  <providercountry>at</providercountry>
  <providername>A1</providername>
  <devicename>GT-I9505</devicename>
  <blackberryosversion>4.4.4</blackberryosversion>
  <blackberrylanguage>en</blackberrylanguage>
  <apn></apn>
  <besmode></besmode>
  <storagemode></storagemode>
  <attachmentfilename></attachmentfilename>
</SpeechExecDictation>
```

XML file structure receive from iPhone mobile device

<?xml version="1.0" encoding="utf-8"?>
<SpeechExecDictation version="3.0.24.0000">
<format>AAC</format>
<creationdate>2013-11-04T10:43:54</creationdate>
<comment></comment>
<worktype>Memo</worktype>
<category></category>
<author></author>
<filenumber>Untitled4</filenumber>
<priority>false</priority>
<deviceid>73C20ED1-971B-49CE-97EF-037340FAF419</deviceid>
<encrypted>false</encrypted>
<sha1hash>ad15f134be771f7c8c6b7103b677fe7a</sha1hash>
<fileindex>0</fileindex>
<uploadchunkcount>293</uploadchunkcount>
<uploadchunksize>16384</uploadchunksize>
<uploadchunkssuccess>0</uploadchunkssuccess>
<mailtypist></mailtypist>
<mailauthor>peter.rittau@speech.com</mailauthor>
<audioformat>M4A</audioformat>
<country></country>
<companyname></companyname>
<firstname></firstname>
<surname></surname>
<authorabbreviation></authorabbreviation>
<providercountry></providercountry>
<providername></providername>
<devicename>iPhone5,2</devicename>
<blackberryosversion>7.0.2</blackberryosversion>
<blackberrylanguage>de_AT</blackberrylanguage>
<apn></apn>
<besmode>no</besmode>
<storagemode>internal</storagemode>
<attachmentfilename></attachmentfilename>
</SpeechExecDictation>

# 6. Mobile Server Configuration

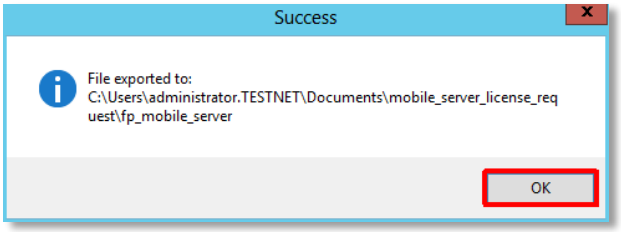
The SpeechExec MobileServer requires account licenses in order to function. Licenses are not concurrent. A single license is used/consumed for each created and active account. When an account is set inactive the license is freed-up for usage again.

To have a full MobileServer license you must export a fingerprint file which should be named for the Server name or Company name. This fingerprint file, along with particulars about the customer, is to be emailed to your Speech Processing Solutions sales representative.

## 6.1. Create License request

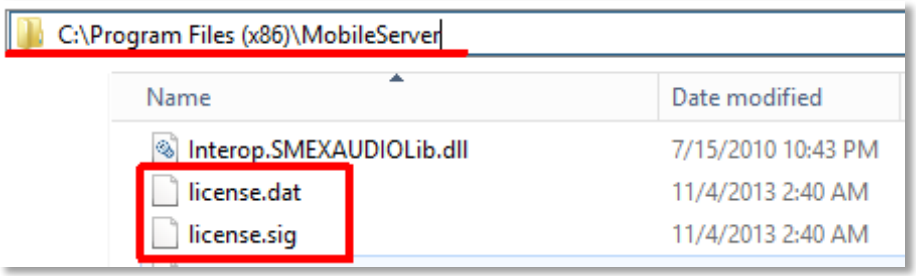
Before you begin with the configuration, you must import a valid license. Therefore you can create a fingerprint for a full license or request a demo license from your dealer.
Click Export Fingerprint

save this file – e.g. fp_mobile_server - in a predefined folder.

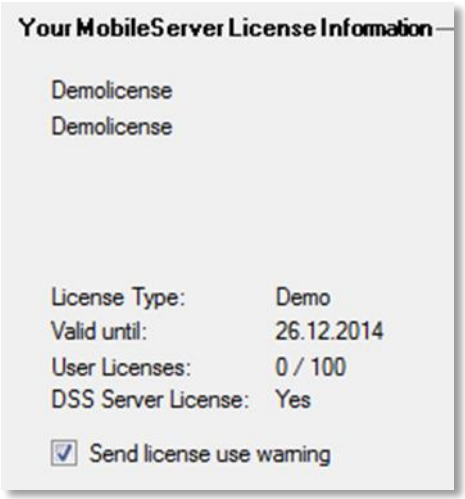



Send the exported fingerprint file to your Speech Processing sales representative. The office will also require added information like:
Is this a demo or Trial License?
How many account licenses are required?
Will you need to create DSS files?

When the MobileServer license request has been processed, you will receive a Email message with a zip file containing the license file named license.dat and a signature file named license.sig. Copy these two files to the root installation folder of MobileServer.



Now, you can start again the MobileServer Config tool.



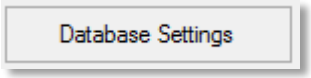

If the License import was successful, you can see the license details as shown. The software can now be used without restriction for the period specified in the license file. In our example, we have a demo license valid until 26.12.2014 with 100 accounts and a DSS Server License for DSS conversion.

**Important**
If you want to rename your domain name or move your system to a different hardware or a new network environment, please call in advance to a new demo license. Otherwise it may happen that the server considers the new configuration as invalid and deactivated the service!

For DSS file support please install Windows desktop experience – see Appendix.

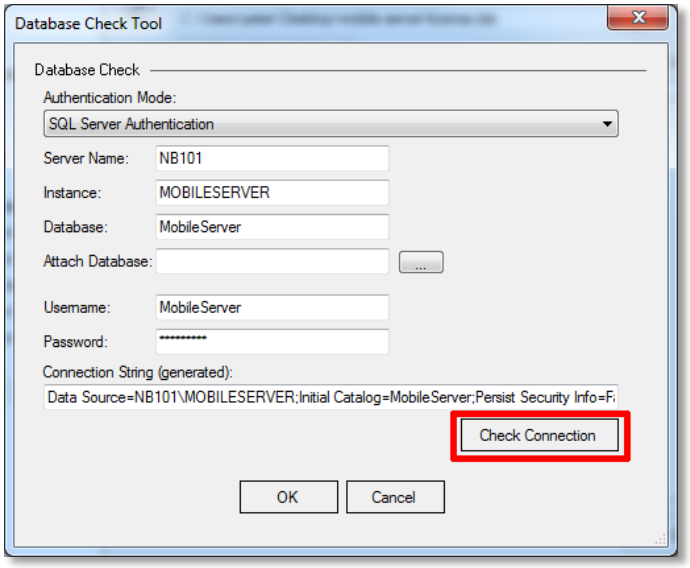
## 6.2. Check the Database connection

If there are any trouble with the database connection or if you want to use an external MS SQL database server you can click on Database Settings to view and check the current settings.

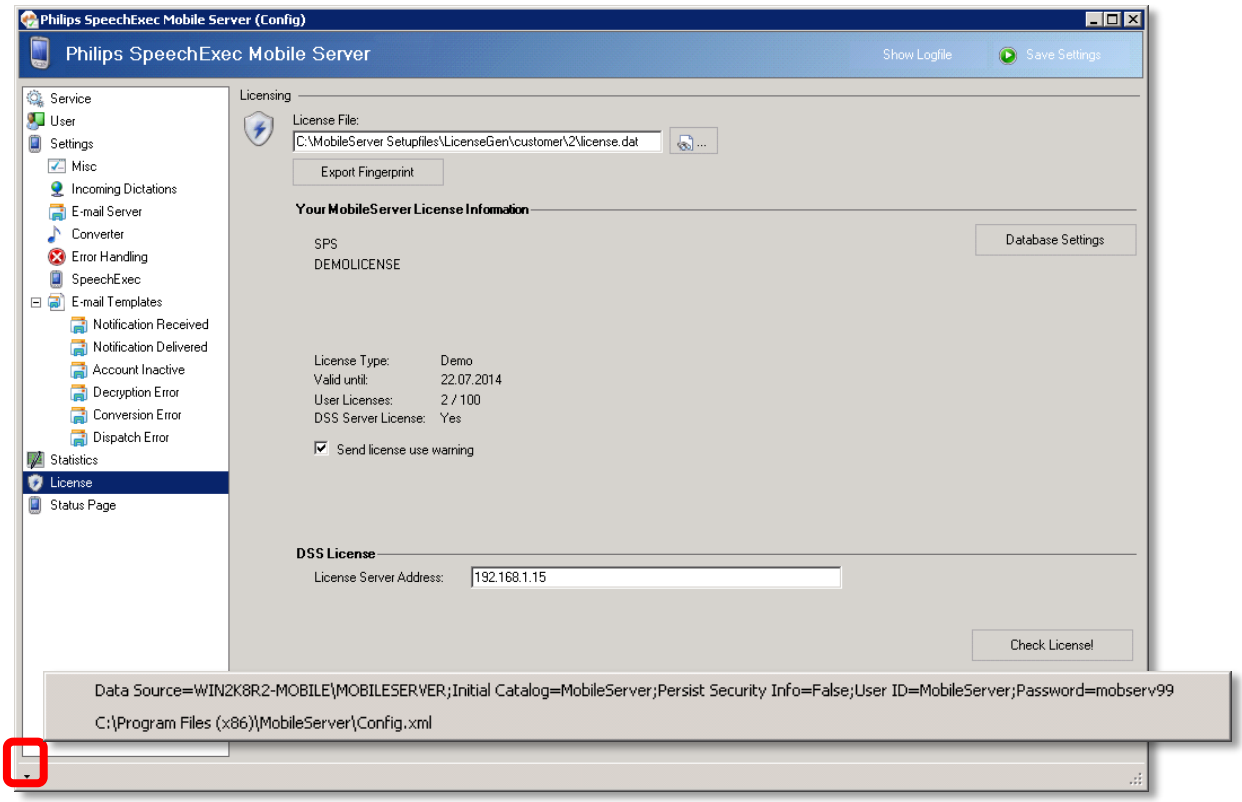



Now you can see the current Setup information.
You can select between SQL Server Authentication or Windows Authentication Mode. You see the Server Name (NB101), Database Instance Name (MOBILESERVER) and Database Name (MobileServer). Click on Check Connection, and if the setup is OK then you see a confirmation window with a message: Everything seems OK!

Answer from Server:



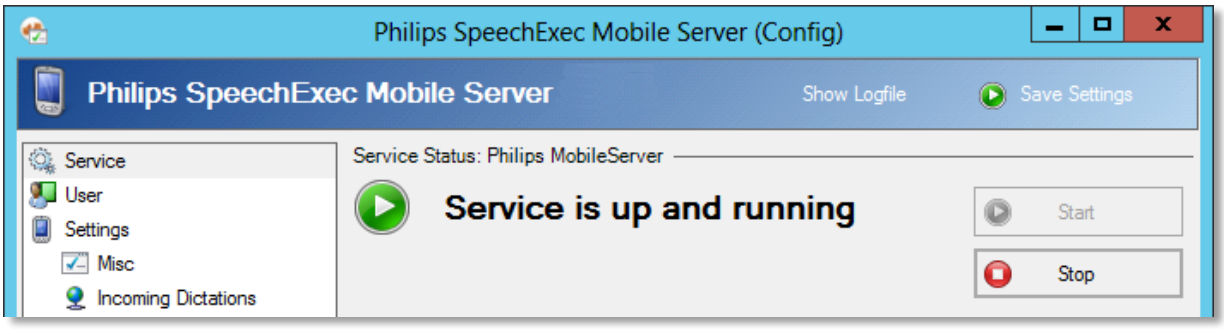

The Data Source string and Config.xml are also available here:



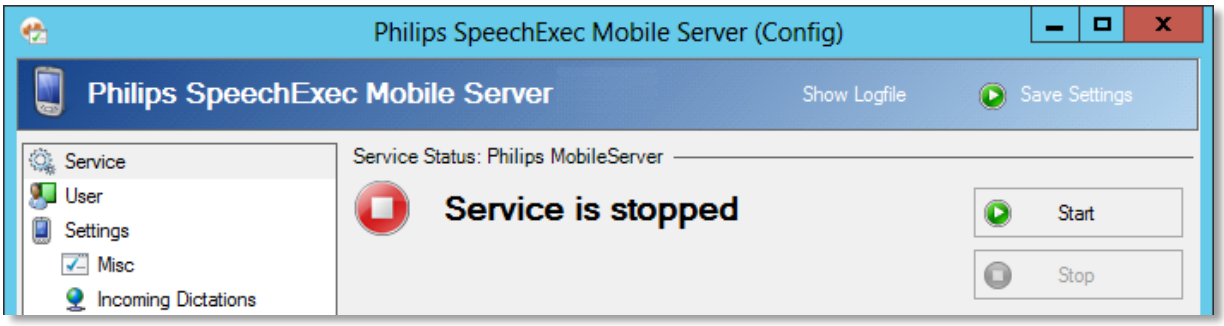
# 7. Setup options

## 7.1. Service

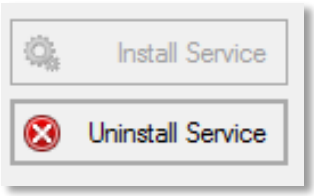
The menu item Service is used to start and stop the MobileServer. Simply click on the Start or Stop button.
Service is up and running – click Stop if you want to stop the service




Service is stopped – click Start to run this again.




Additionally, you can install and uninstall the MobileServer service.




The Service MobileServer.Service.exe is default installed. Click on Uninstall Service and uninstall this. You can also run the install_service.bat or uninstall_service.bat located in the installation folder (C:\Program Files (x86)\MobileServer) for activate or deactivate the services.

## 7.2. User

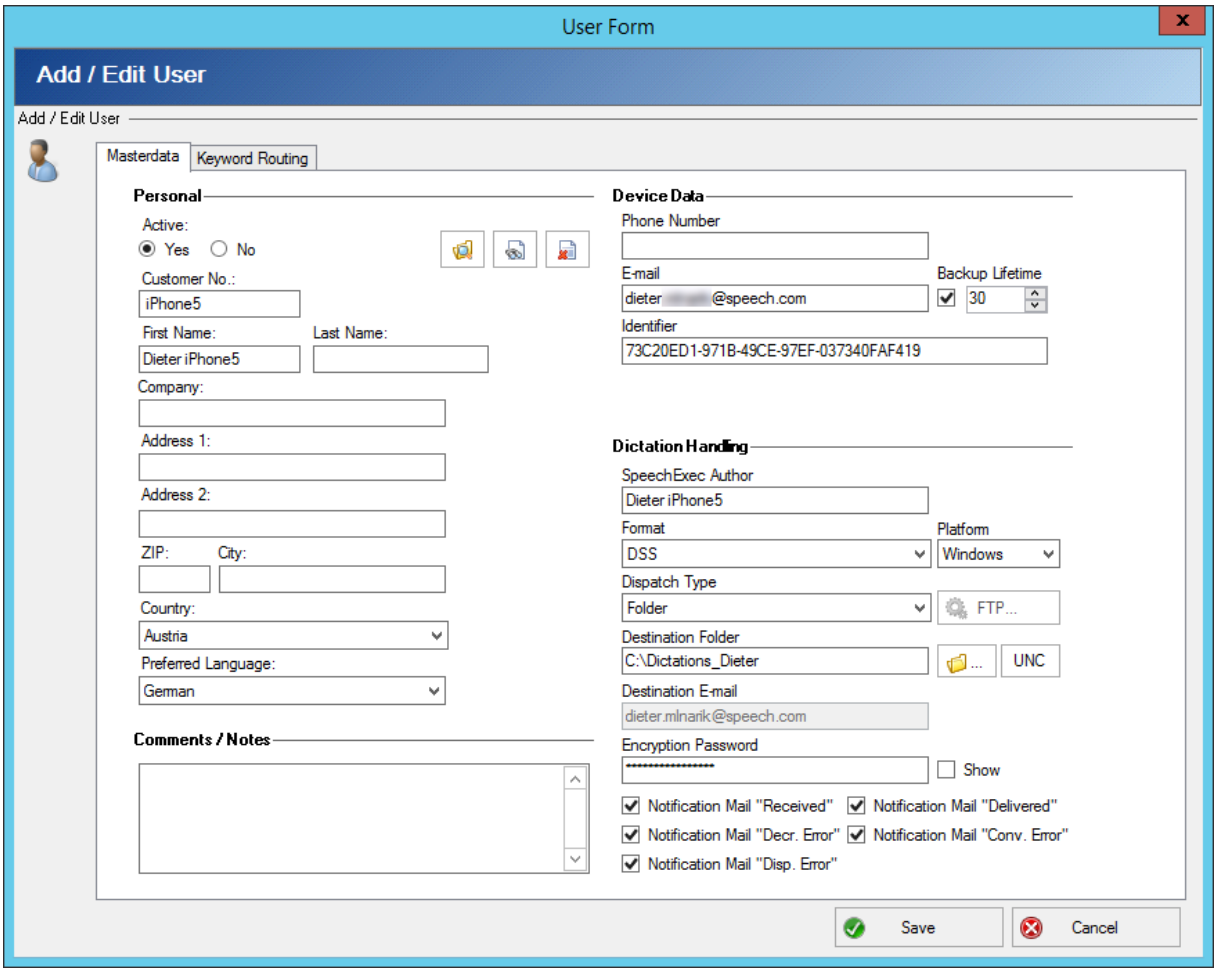
Use the option User to import or export users accounts, add a new user, modify existing user, delete user.

### 7.2.1. Add User Metadata

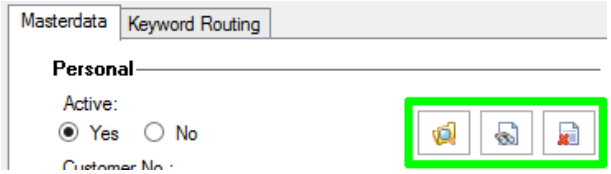
Fill in the standard information about the users:

- Personal – you can decide if the profile should be active or not. You can add a customer number, the first and last name as well as the address of the customer/user.
- Device Data – the Device Date is very important. Add the Phone Number and the Identifier. By using the Identifier the system can assign the corresponding author to the device. Enter the E-mail address of the mobile device to receive status messages sending from the mobile server to the device.

- Dictation Handling – here you can configure how the dictations should be processed. Use SpeechExec Author to fill in the author shortcut that should be shown in SpeechExec Enterprise. Format defines the file format for the dictation conversion, normally this should be the DSS format, but you can select WAV or MP3 format.
- Dispatch Type – you can sent the dictations to a specific destination or select None to deactivate this. Available transmissions ways: Folder, Mail, FTP. Depending on the selected options select the destination folder, fill in the Destination E-mail address or configure the FTP Server Account.
- Encryption Password – enter the password for the encryption.
- Send Notification – user receives a confirmation that the MobileServer has performed specified action. You can activate E-Mail messages with notification for received dictation, delivered dictation, decryption error, dispatch error, conversion error.



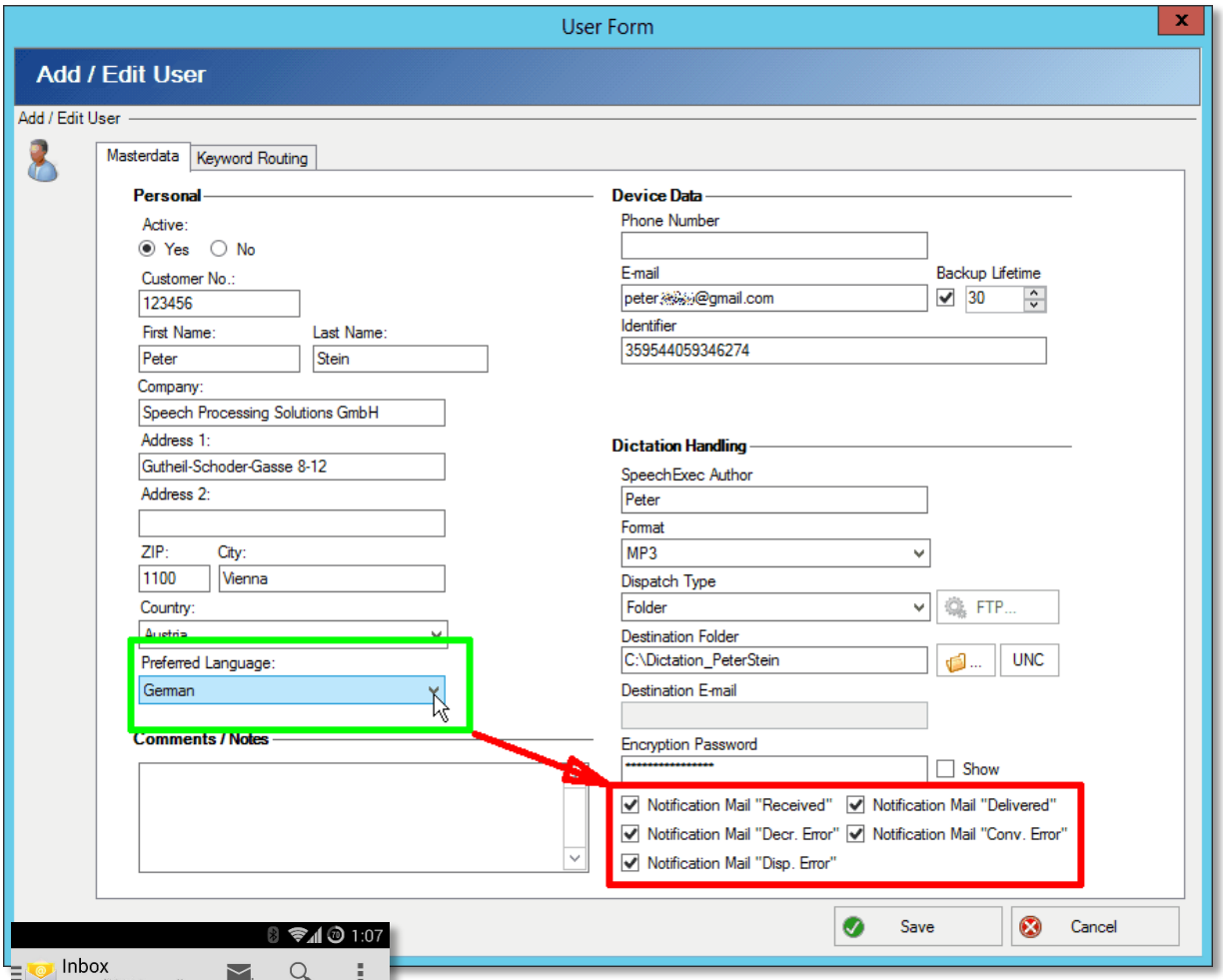

With the Add/Edit user you can also open the directory with all the data created by Customers device.

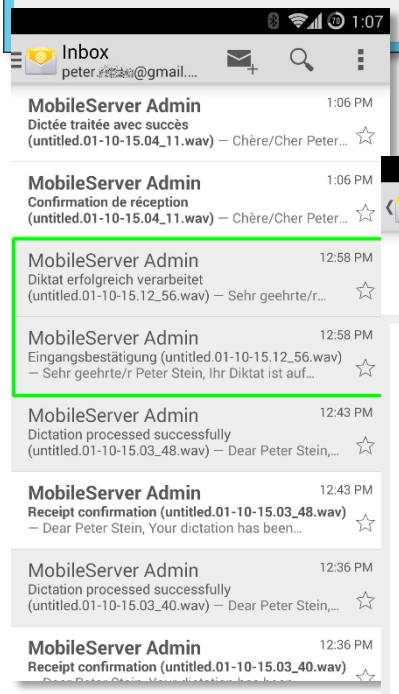



Icon 1 – show the directory
Icon 2 – show log file
Icon 3 – delete log file

### 7.2.1.1. Important settings

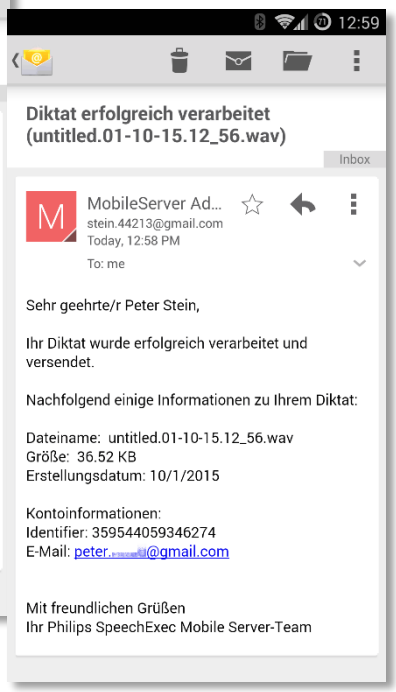
Preferred language
Depend on the selected language the system send a predefined template with a language version




German received notification

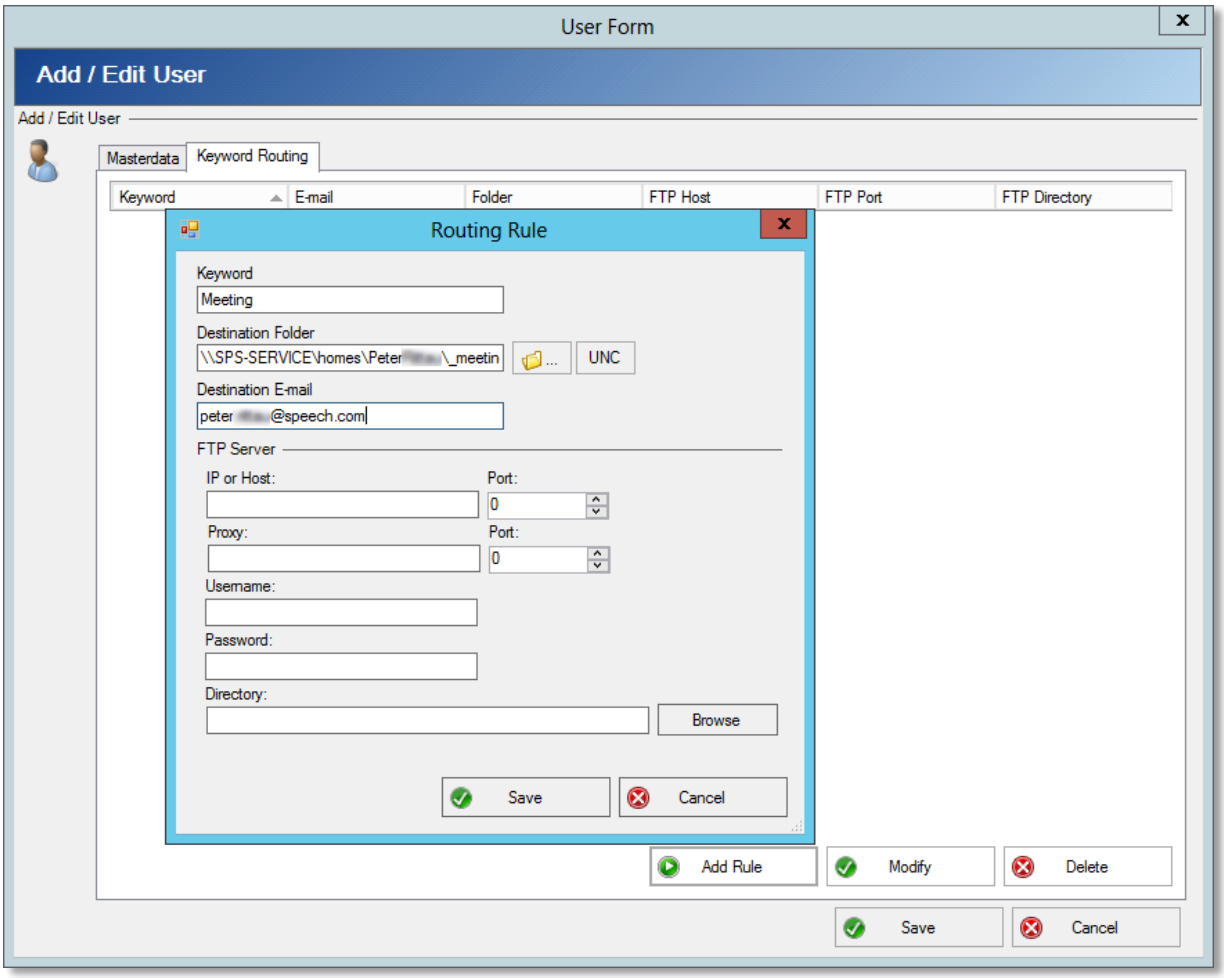
German delivered notification



## 7.2.2. Add User Keyword Routing

Click on Keyword Routing tab to distribute dictations according to the previously defined categories. If, for example, a user has defined the categories Standard, Smith, House and Meeting this could be defined as follow:

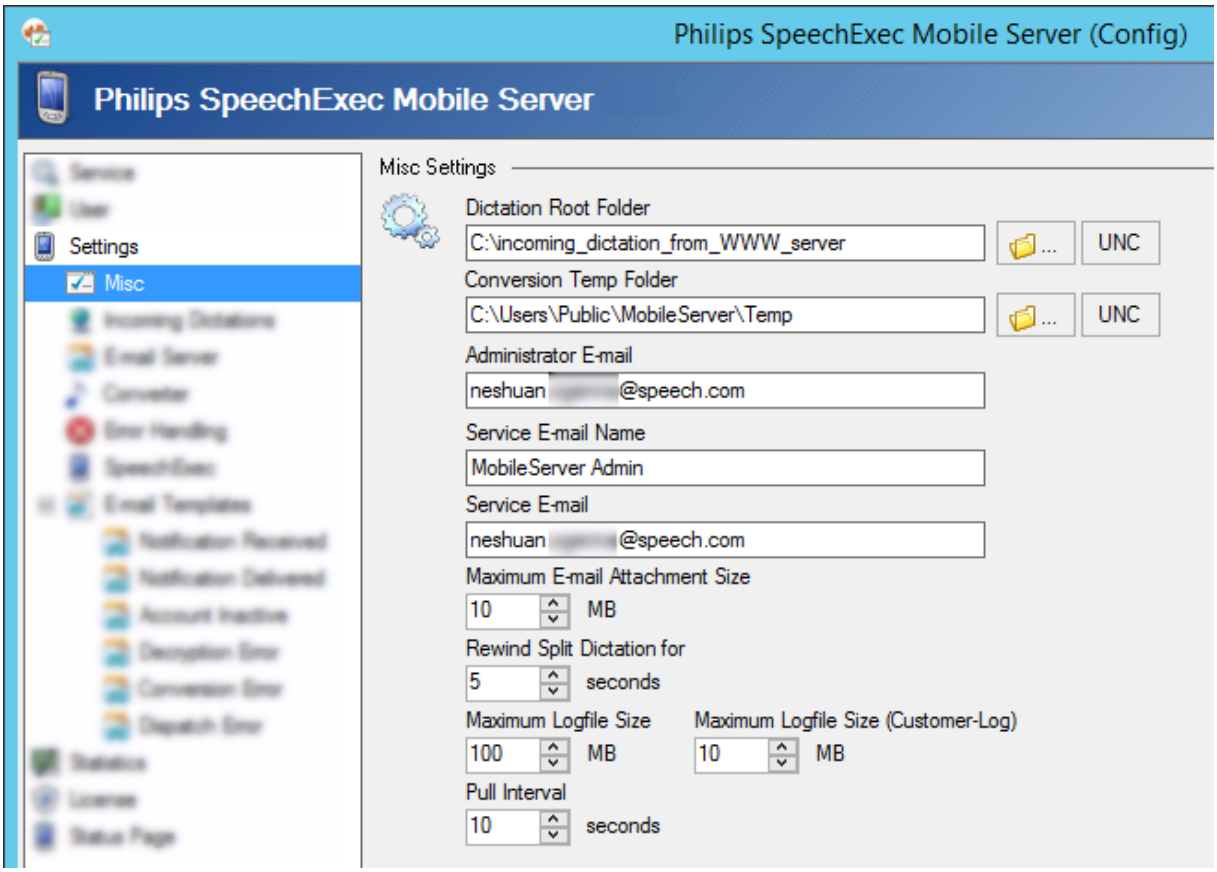
Standard – dictation is send to the author´s folder
Smith – dictation is sent to the folder Smith
Meeting – dictation is send to the E-Mail address.
Meeting – dictation is send via FTP to external FTP Server.



## 7.3. Settings

### 7.3.1. Misc

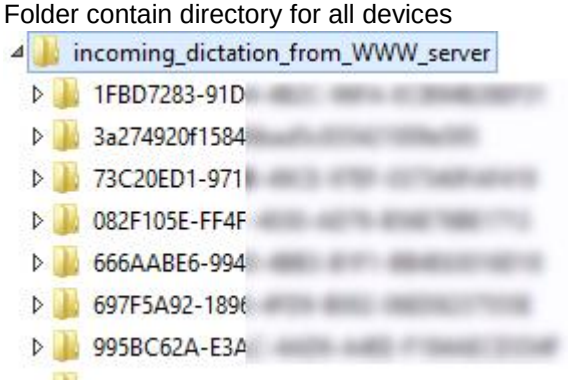
In the section Settings / Misc you can configure the system folders and e-mail addresses of the administrator. We describe all the setup options

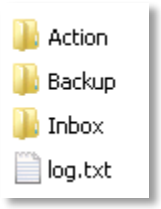



#### 7.3.1.1. Dictation Root Folder

The Dictation Root Folder is a "working folder" for the Mobile Server application.

Folder contain directory for all devices






The Device directory contain following folders:
Action
Backup (received files are saved here again)
Inbox (Inbox folder of the user)

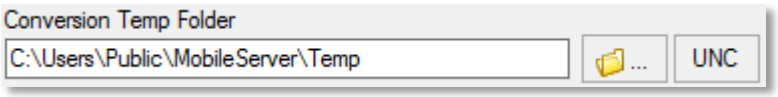
If a dictation file should not have reached their destination folder, you can always be reconstructed from the backup folder out. This ensures that it can never come to a dictation loss.

The latest one file is the log.txt file with detailed logging for every step.

```
30.09.2013 10:24:26.021   Reading file-xml => C:\DictationRoot\355829055892890\Inbox\untitled.
30.09.2013 10:24:26.021   File found: C:\DictationRoot\355829055892890\Inbox\untitled.30-09-13
30.09.2013 10:24:26.021   Processing file...
30.09.2013 10:24:26.021   Copying file to Conversion Temp => C:\DictationRoot\ConversionTemp
30.09.2013 10:24:26.037   Trying to convert file to DSS
30.09.2013 10:24:26.037   ConvertFile()
30.09.2013 10:24:26.037   C:\Program Files (x86)\MobileServer\PSP.SpeechExec.DictationPropConf
```

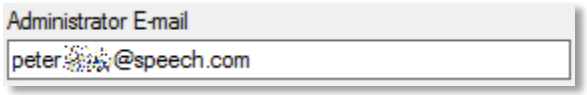
### 7.3.1.2. Conversion Temp Folder

Within this directory, the format conversions are performed. The files will be temporary stored, converted, and then distributed according to the users Dispatch-Type.




### 7.3.1.3. Administrator E-Mail

The administrator e-mail address identifies the address to send the error messages from the server.

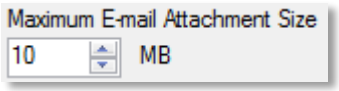



### 7.3.1.4. Service E-Mail

The MobileServer will use the Service E-mail address to send messages to the administrator and user; hence the sender´s address the recipient will see this. In case you would like to receive replies to this address, make sure that you use, for example, the address of the help desk or other, for the MobileServer responsible user

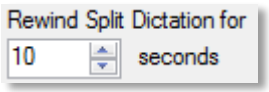
### 7.3.1.5. Max Attachment Size

Here you can define the maximum size of an E-mail attachment to be sent. If the attachment is rather large the dictations will be divided and sent in parts to receiver. Adjustable maximum size is 100MB.



#### 7.3.1.6. Rewind Split Dictation

If dictations have to be divided to be sent in parts, it might be useful to keep some overlapping parts.

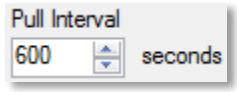



This is avoid that single words within a dictations are split. Here you can enter how many seconds the overlapping parts should contain. You can set between 1-100 seconds.

#### 7.3.1.7. Max Logfile Size

Here you can define the maximum size of the log file for the ActionLog.txt, and the log files for each user. Please enter a sensible value (e.g. 100 MB).

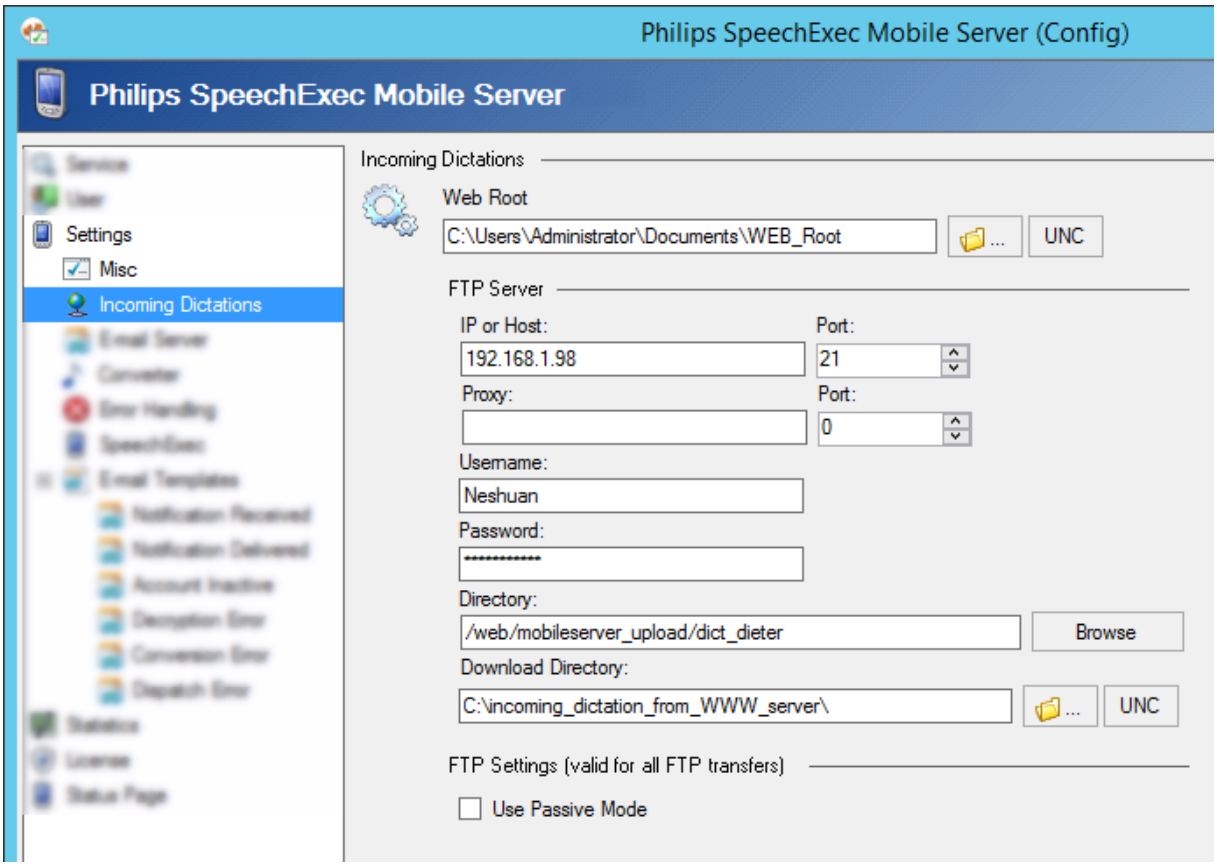
#### 7.3.1.8. Pull Intervall




Specifies the time intervals which the Mobile Server receive the dictates from the Webroot or from a FTP server. You can choose between 1-1000 seconds.

### 7.3.2. Incoming Dictations

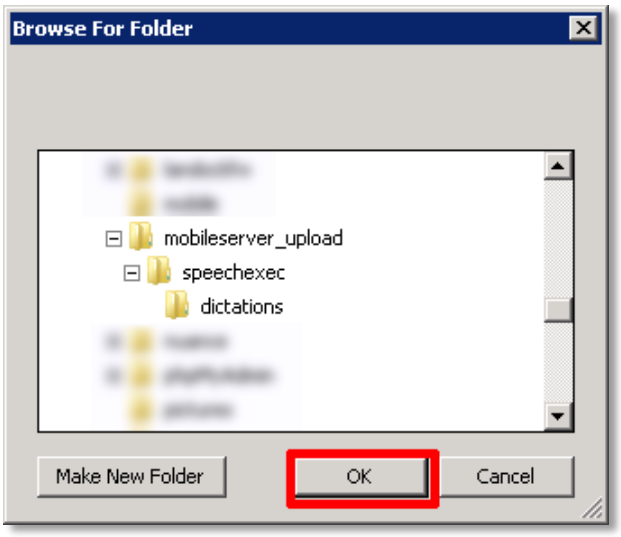
With the Incoming Dictations tab specifies where dictations to be picked up. You can select Folder or a FTP account for a Webserver from Webhosted sources.

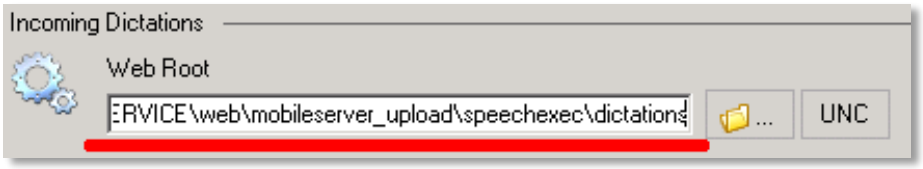


### 7.3.2.1. Incoming Dictations Web Root

If the folder is for the incoming dictate within the network, then they can set the path here.

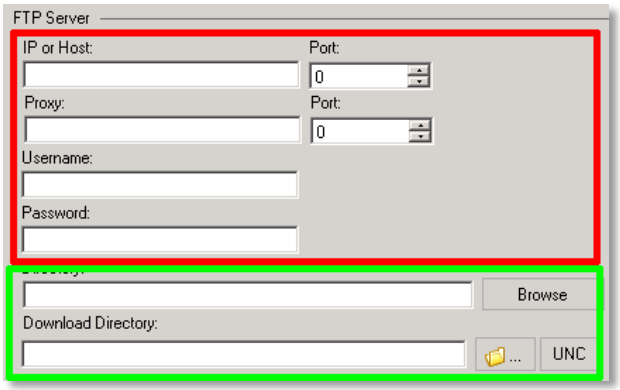
Click on the Icon and browse for the preconfigured upload folder.
Click OK, now, the folder is now connected.




### 7.3.2.2. Incoming Dictations FTP Server

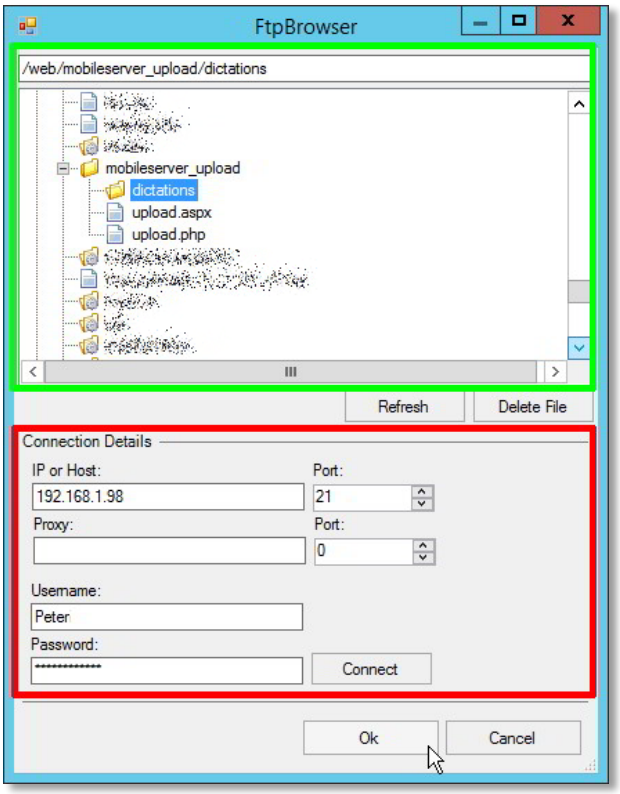
If you use a web server outside the LAN or your web server is from hosting company, then you can use only limited connection to the upload folder, usually only FTP. Mobile Server can be configured so, that the dictations file will receive via integrated FTP Client.




First, fill in the connections data like host name or IP address, port number (is usually port 21), username and password into red marked area and finally

Click on Browse in the green marked area.

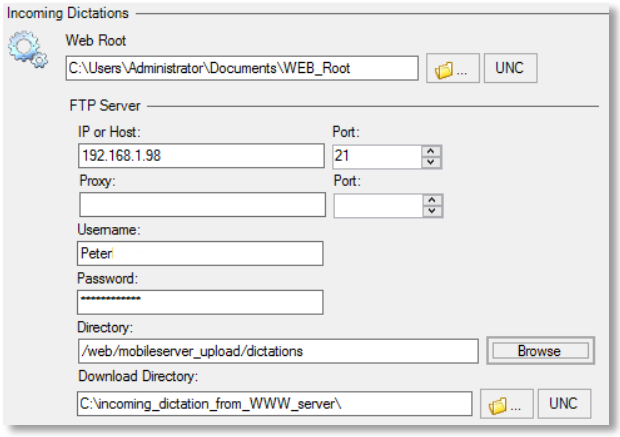
Click Connect and then Refresh




Browse for the preconfigured upload folder, in our example:
**/mobileserver_upload/dictations/**

The /web/ folder is the web server root folder.

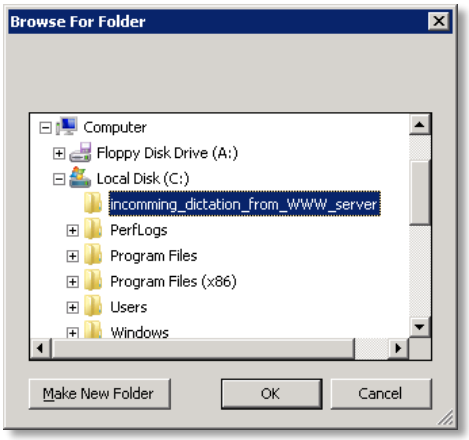
Select the right folder and click on OK.



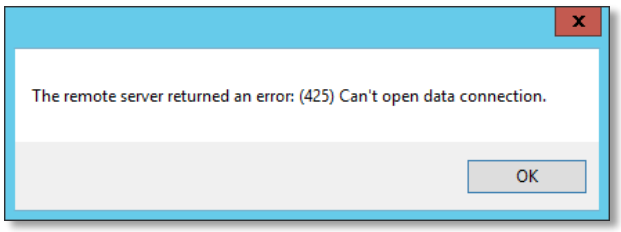

The web server directory is connected; you can prepare a local folder inside the PC or LAN.

Directory – this is the webserver directory
Download Directory – this is the local direcory

Click on Button and select local folder

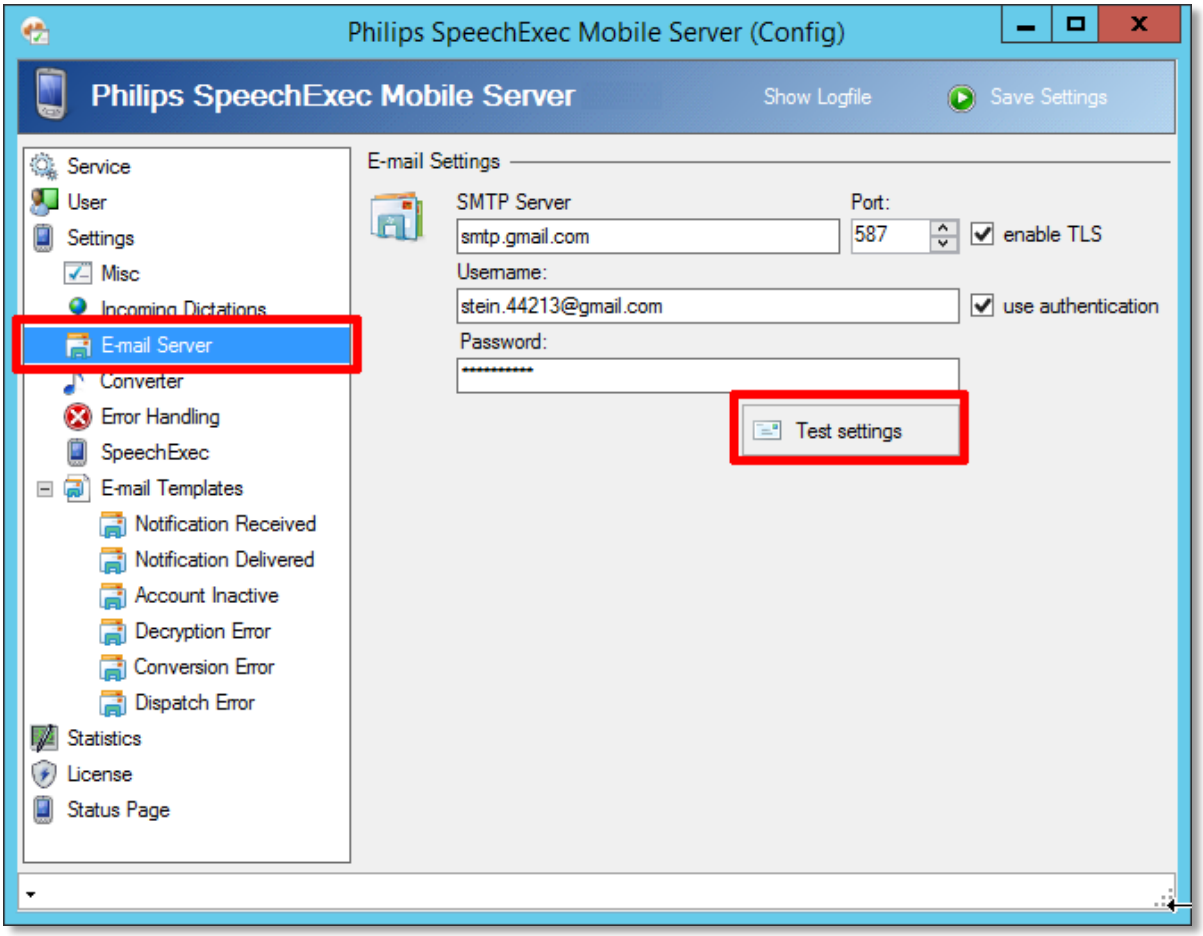


If you receive any error messages like this one – see screenshot – then check the Firewall settings. For more information please check Appendix 8.17 – Firewall settings

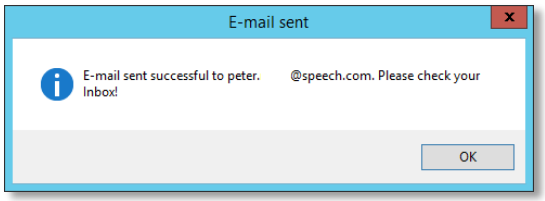


### 7.3.3. E-mail Server

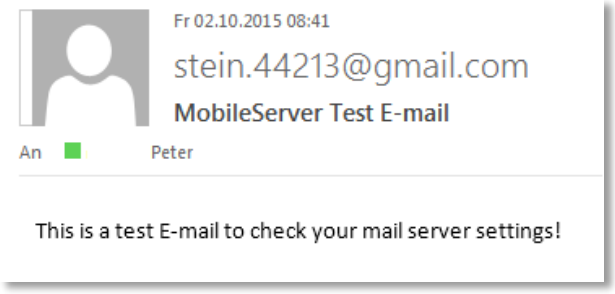
At this point, you can configure an SMTP server to the Mobile Server can send mails. For sending e-mails, it is important that the security settings for the SMTP server allow that e-mails may be sent to the registered e-mail service Address, i.e. that the SMTP server may act as a remailer!
Click Test settings to send a predefined E-mail message to the server and you receive a small confirmation window and the Administrator – created in Misc/Administrator E-mail – receive also a E-Mail message.




Confirmation from the mobile server

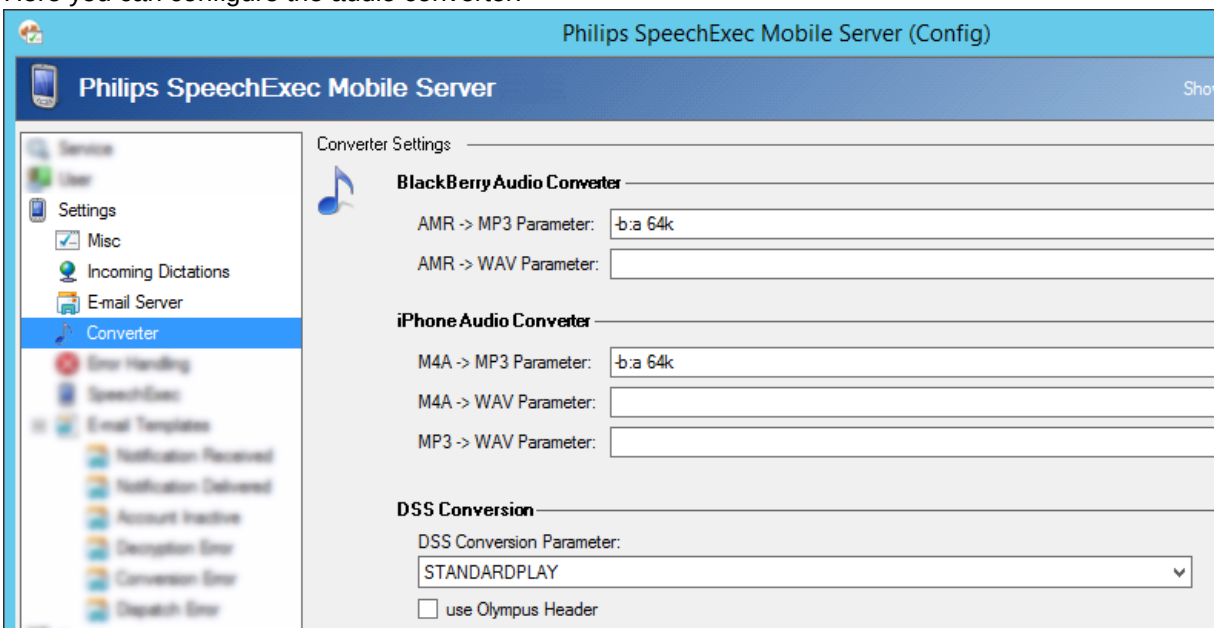



Confirmation E-mail in the E-Mail Client Received from the Mobile Server.



### 7.3.4. Converter

Here you can configure the audio converter.




For example, you will convert dictation file receiving from iPhone to a MP3 file with 64kbit/s -b:a 64k or –b:a 256k if you want 256 kbit/s audio.

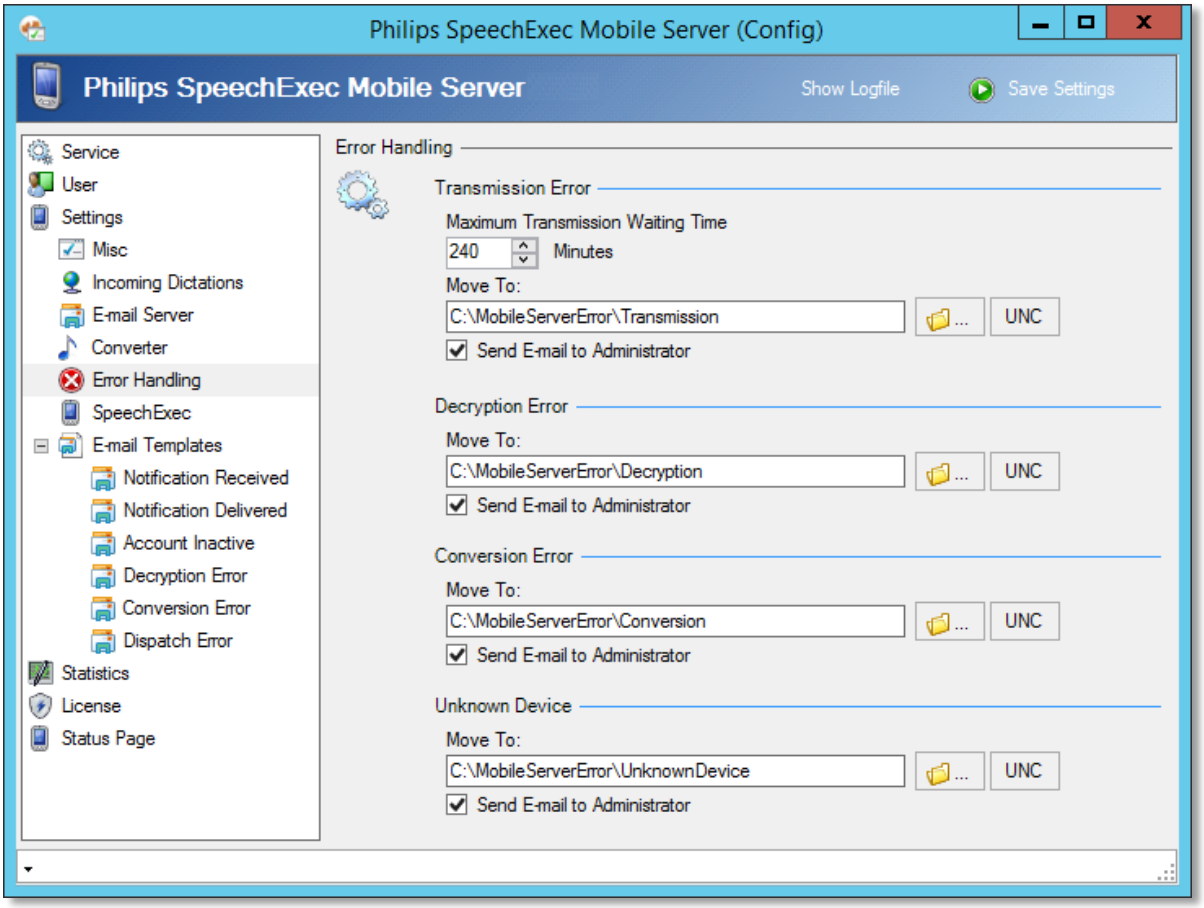
With the DSS Conversion you can select one of this value:
LPC_BB
STANDARDPLAY
QUALITYPLAY
LONGPLAYmobile
GSM610_8kHzMono
GSM610_11025HzMono
IMAADPCM4Bit8kHzMono
CELP16kHzMono
CELP8kHzMono
CCITTALaw8Bit8kHzMono
CCITTuLaw8Bit8kHzMono
PCM16Bit16kHzMono
PCM16Bit11025HzMono
PCM16Bit8kHzMono
PCM16Bit22050HzMono

Note:
For the DSS conversion a DSS server license with an applicable SpeechExec Enterprise license needs to be present

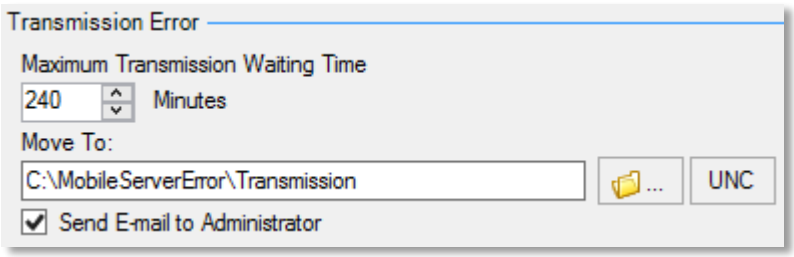
Activate – **use Olympus Header** - to create files compatible with Olympus DSS Header.

## 7.3.5. Error Handling

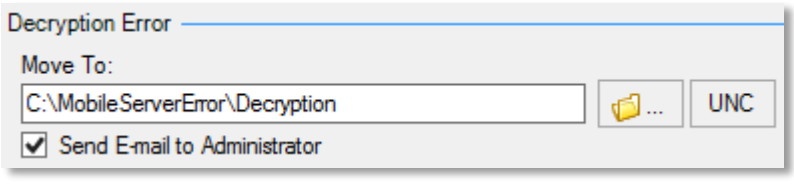
Error messages for the administrator can be defined in advance



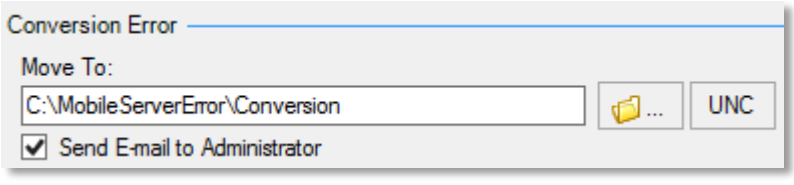

Maximum Transmission Waiting Time – if a user has canceled the dictation dispatch and fragments remain in the web root folder, an error message can be sent to the administrator and the dictation fragments can be automatically moved to a predefined folder when the Maximum Transmission Waiting Time was reached.



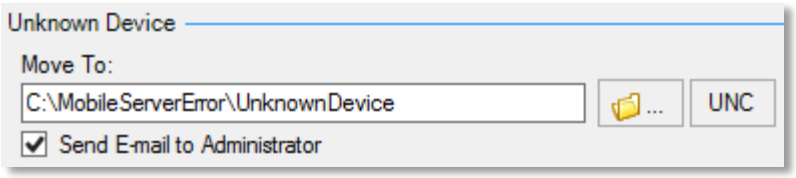

Decryption Error – this error occurs if the password of the mobile device does not match with the password of the server configuration or is missing. In this case the administrator should be informed and the dictation will be saved in the defined folder.




Conversion Error – an error occurred during the conversion. In this case the administrator should be informed and the dictation will be saved in a previously defined folder.

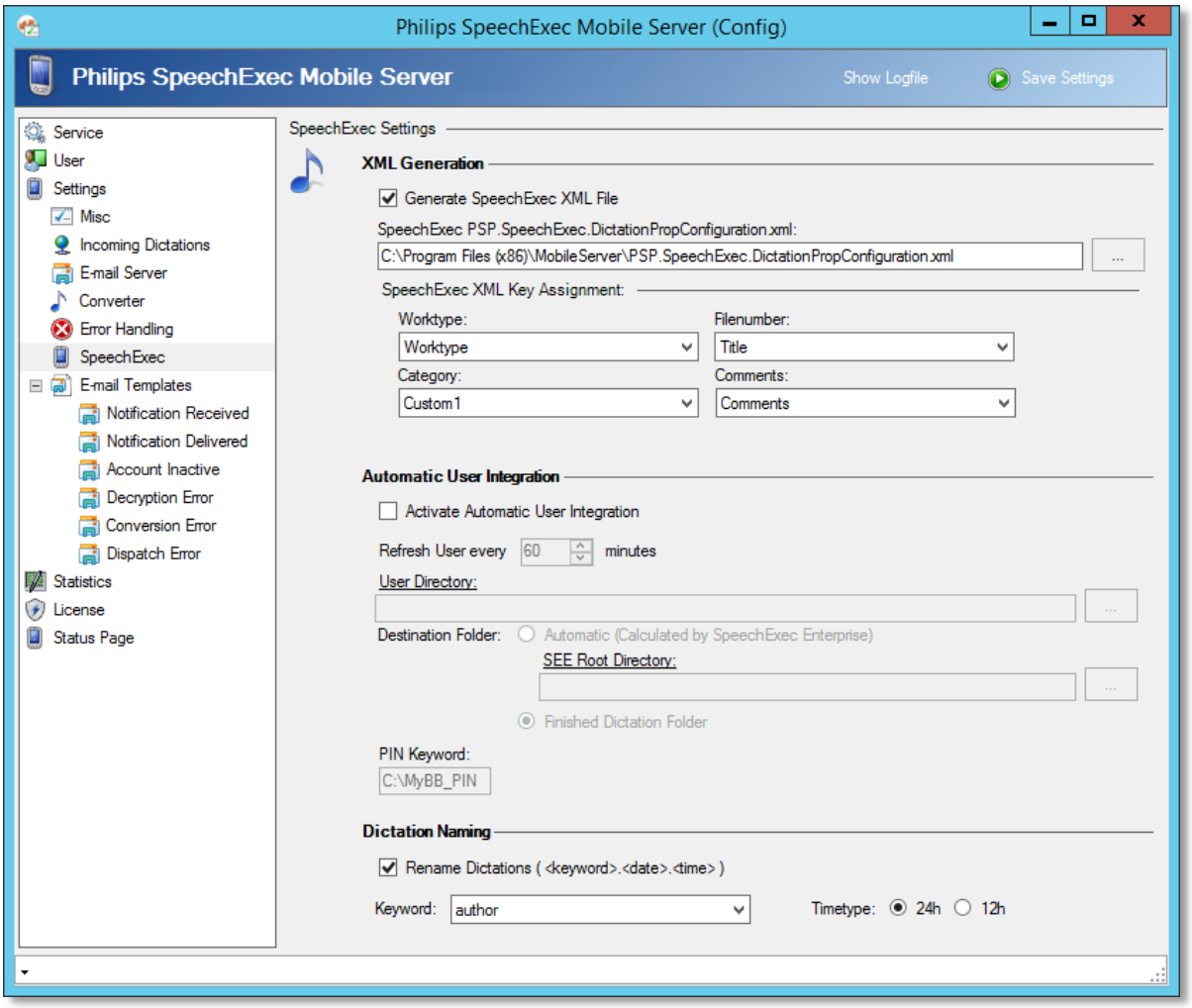


Unknown Device – an unknown mobile device tries to send dictations. If necessary, a new user has to be added or the device UDID or PIN of existing user needs to be changed. In this case the administrator should be informed and the dictation will be saved in a previously defined folder.



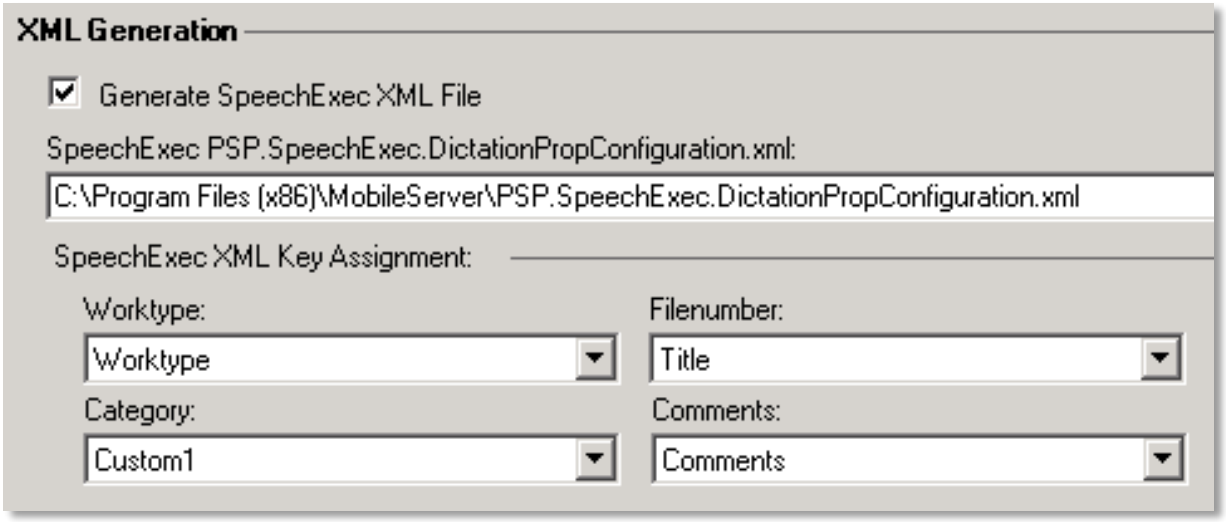

## 7.3.6. SpeechExec

The SpeechExec Tab enables you to configure the SpeechExec workflow with the MobileServer.



### 7.3.6.1. XML Generation

XML Generation – here you can determine if a SpeechExec XML-file with meta data should be created for each dictation. If you are using dictation systems from other vendors you would need to disable this option.

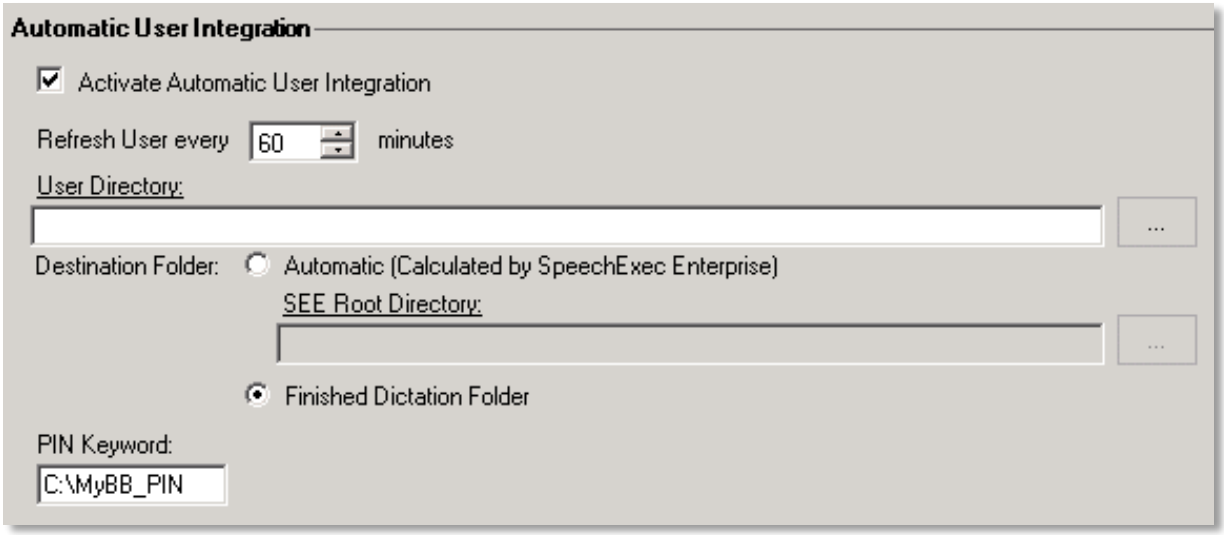



Please state the path (by default: C:\Program Files (x86)\MobileServer\PSP.SpeechExec. DictationPropConfiguration.xml) to your SpeechExec Dictation Property XML-File. Future dictation-XML files will be generated based on the basics on this setting. Furthermore, you will be able to assign in what fields of SpeechExec Software you want the Meta data that arrives from the Mobile Device client will be saved.
For the Worktype, Filenumber, Category or Comments you can select and define on of the following item values:

NoItem
SpecialInstructionLength
DictationLength
CreationDateTime
LastModified
Status
LastUserName
Encrypted
SendNotification
NotificationAskForAttachments
NotificationReplyToAddresses
Author
RevisionAuthor
Title
Keyword
Comments
Priority
EOL
DPMKeywordContent1
DPMKeywordContent2
DPMKeywordContent3
DPMKeywordContent4
DPMKeywordContent5
DPMLabel1
DPMLabel2
DPMBarcode
Department
Workstation
Custom1
Custom2
Custom3
Custom4
Custom5
DictationHistory
MainDocumentFileName
IsSrDictation
IsQueuedForRecognition
QueuedForRecognitionBy
RecognitionPosition
CorrectionPosition
SRInformation
RecordedWith
WordAnalyzingDone
ReadOnlySimpleEditStrings
DictationId
Transcriptionist
Worktype
TranscriptionPosition
DictationPosition
Delivery
DPMDownloadDate
ListColumn1Content
ListColumn1Usage
ListColumn2Content
ListColumn2Usage
ListColumn3Conte
ListColumn3Usage
ListColumn4Conte
ListColumn4Usage
ListColumn5Conte
ListColumn5Usage
ListColumn6Conte
ListColumn6Usage
ListColumn7Conte
ListColumn7Usage
ListColumn8Conte
ListColumn8Usage
ListColumn9Conte
ListColumn9Usage
ListColumn10Conte
ListColumn10Usage

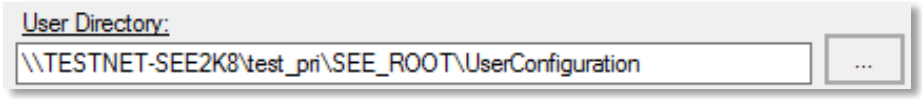
### 7.3.6.2. Automatic User Integration

Should you prefer to manage the Mobile Device users automatically with SpeechExec Enterprise you can set up applicable parameters here:




Refresh User every: state here how often to search for User-File changes. If necessary, you can also use the button “SpeechExec Refresh” within the User manager to update users manually.

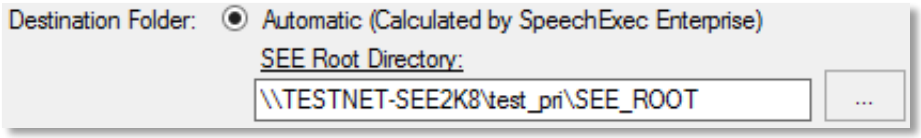
**User Directory** – please state here the path to the User-XML Files of SpeechExec Enterprise



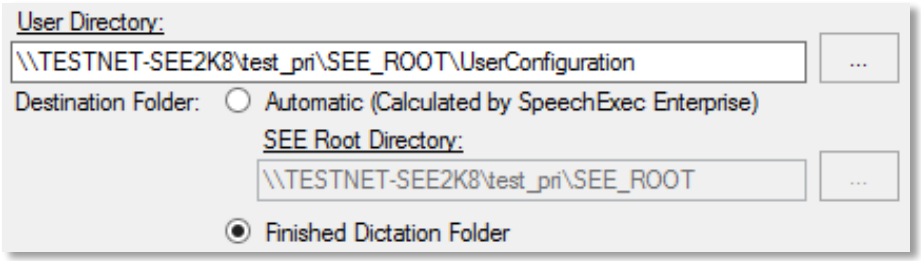

Click on **…** to browse for a folder with the User-XML Rules of SpeechExec Enterprise.

**Destination Folder** – the MobileServer calculates the path to where the dictation will be deployed later based on the User-XML-Files from SpeechExec Enterprise. There are two methods to choose

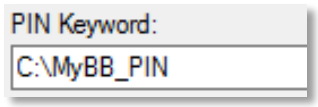
Automatic – based on SpeechExec Enterprise variables and groups the path will be calculated automatically – search for the SEE Root Folder by click on **…**




Finished Dictation Folder – the Finished Dictation Folder will be analyzed. This is always possible if there are no variables in the path or more specifically if it was not able to be generated by the Relation Manager

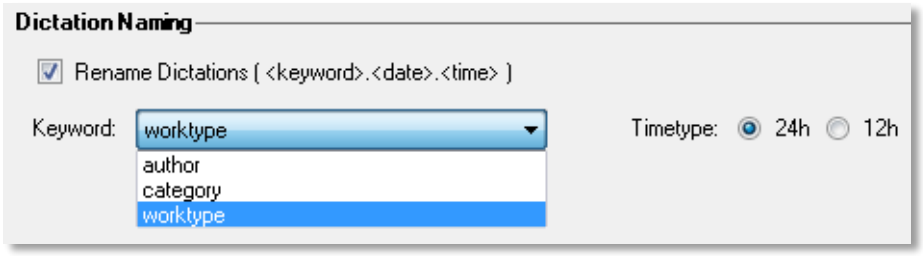



PIN Keyword – the current version of SpeechExec Enterprise does not provide a direct input field for the Mobile Device ID. However, to still enable the central management, the Device ID can be set up in the file manager. To do so please proceed as describe in Chapter 7.3.6.4 -



### 7.3.6.3. Dictation Naming

Depend on the Keyword the software can rename the dictation name with the follow sample:
<dictate>.<date>.<time>

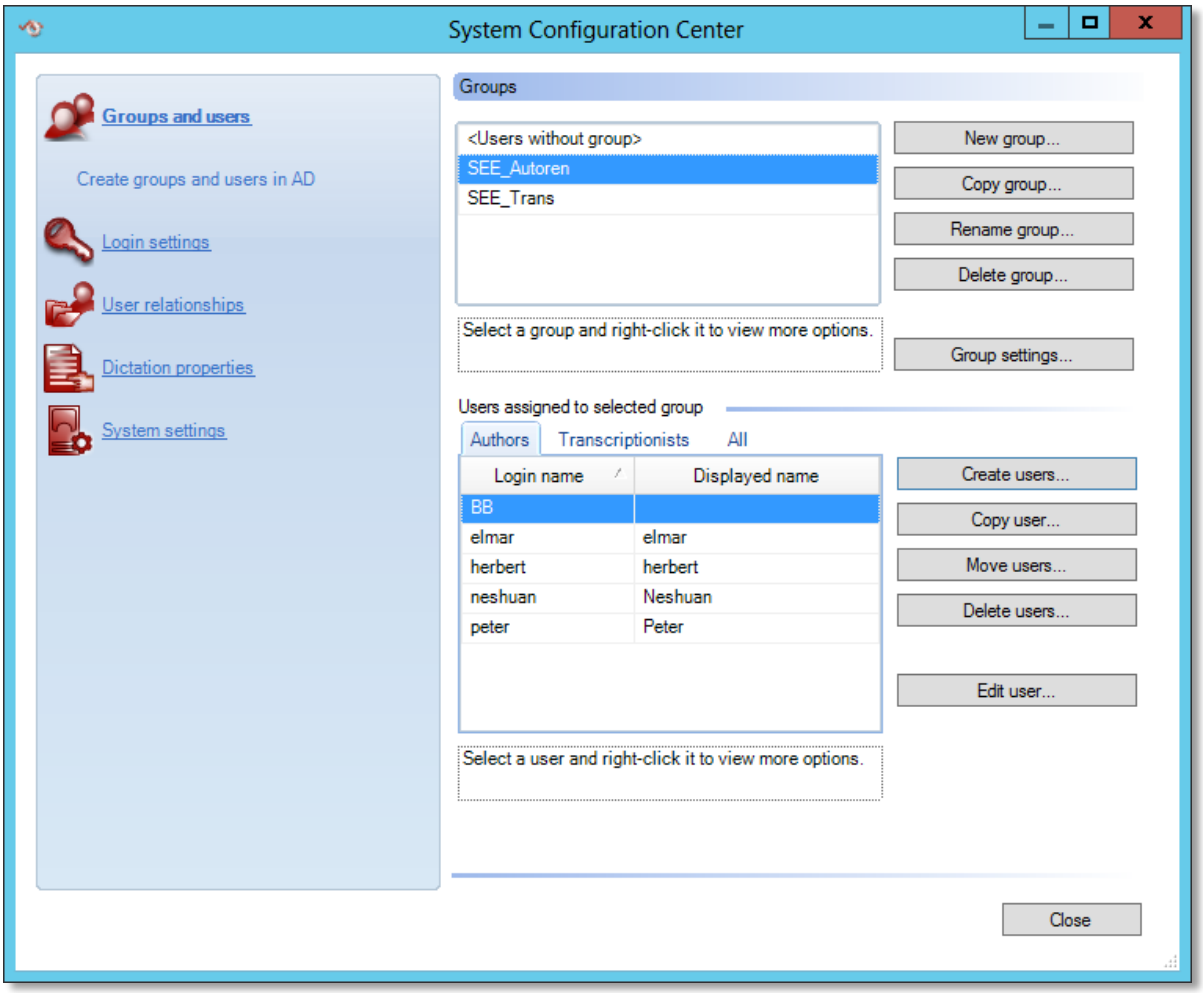



Available Keywords:

| | | |
|---|---|---|
| author | category | filenumber |
| worktype | ListColumn1Content | ListColumn2Content |
| ListColumn3Content | ListColumn4Content | ListColumn5Content |
| ListColumn6Content | ListColumn7Content | ListColumn8Content |
| ListColumn9Content | ListColumn10Content | |

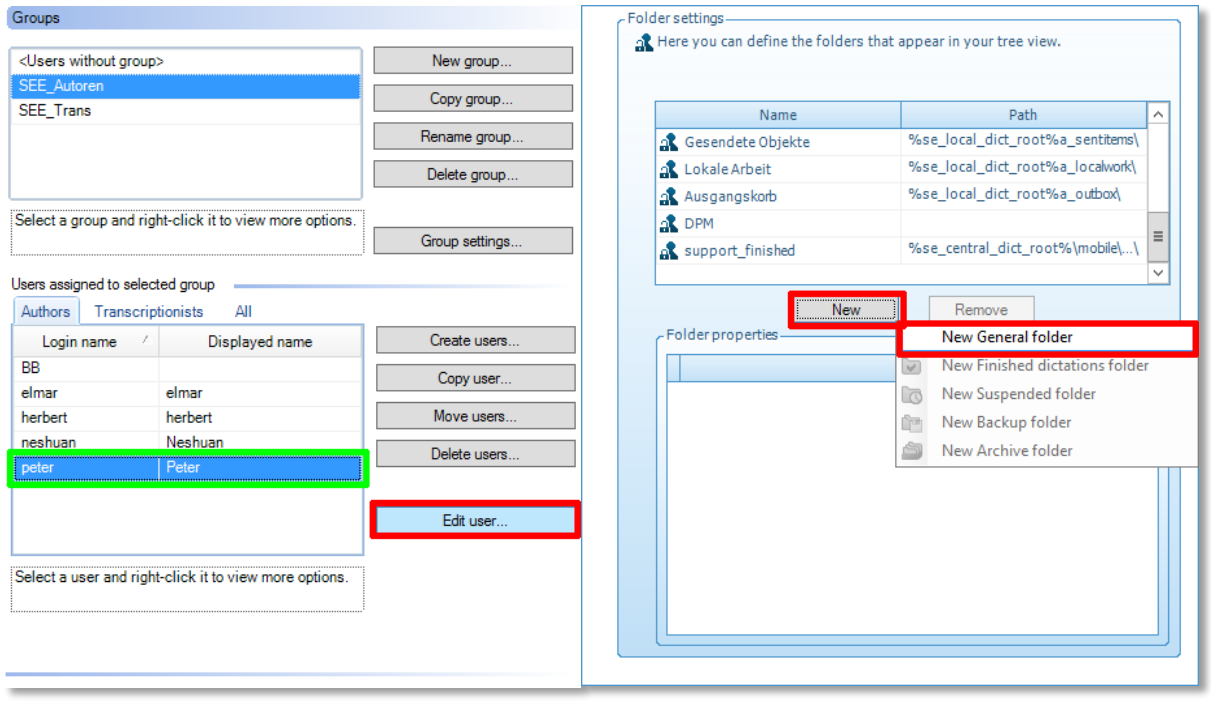
### 7.3.6.4. SpeechExec Enterprise Configuration

Open the SpeechExec Enterprise Manager Software and select one of the Authors, who will use the Mobile Server with a mobile device.



For example, select user with login peter and click on Edit user…

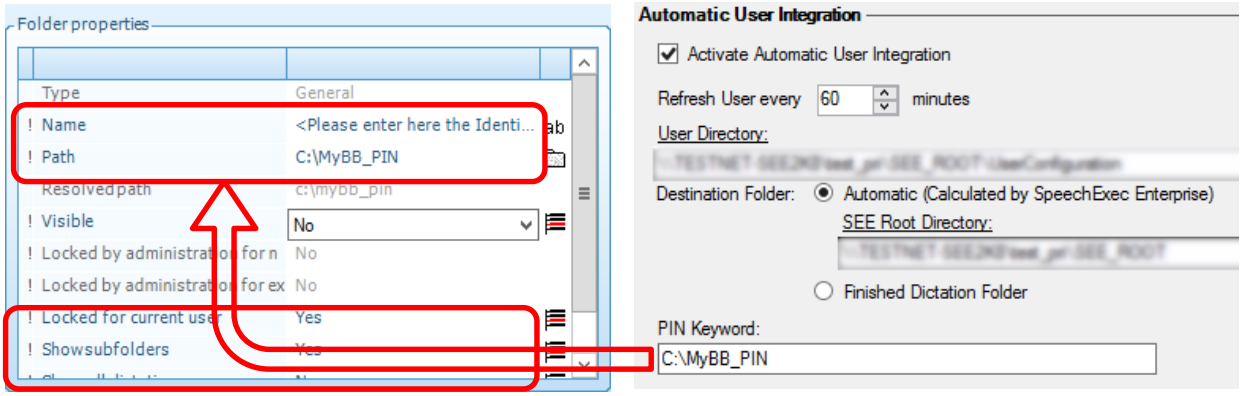
Click on New and New General folder



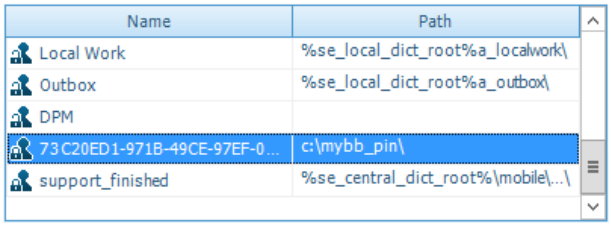

Create new Folder Name according to the Device ID (Please enter here the Identi…) or PIN, and Set the Path to the Folder according to the Mobile Server settings.

SpeechExec Enterprise Manager

Mobile Server – Settings - Speechexec

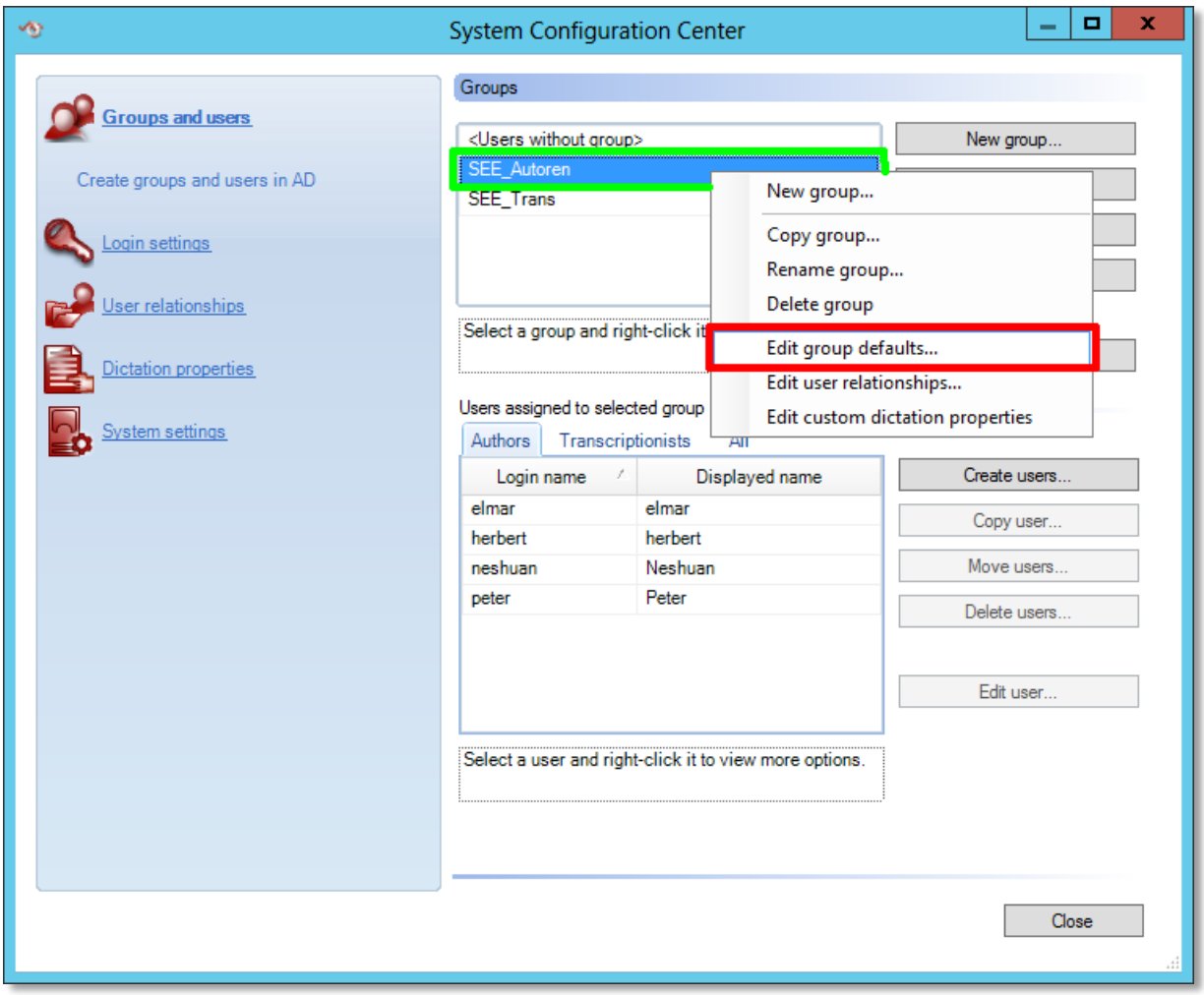



New Folder is created and the user can receive Dictation created by the Mobile Device

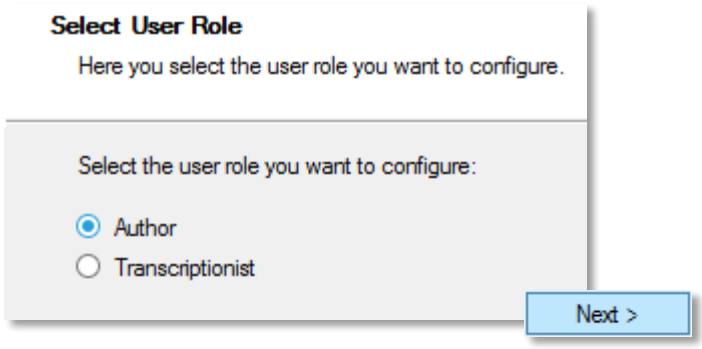


Change the Groups default setting on SpeechExec Enterprise Manager

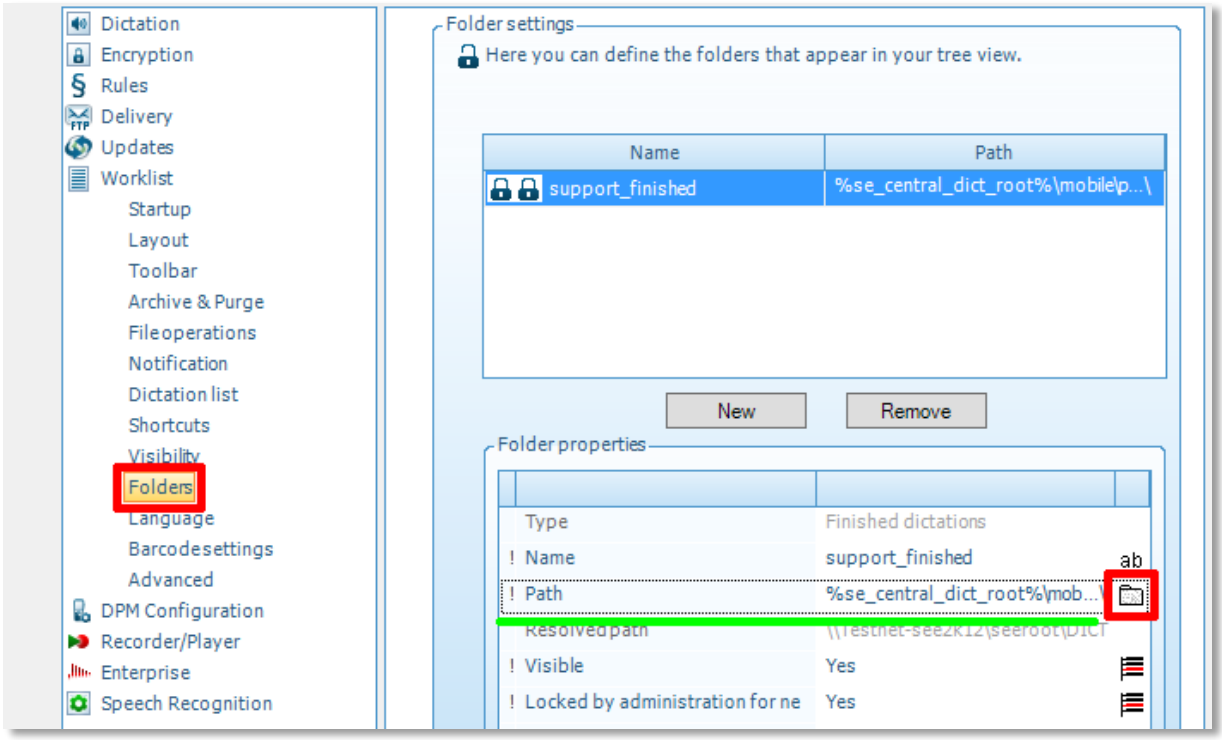
Select Groups and users from the left menu columns, click on desired group (e.g. SEE_Autoren) and select Edit group defaults.




Select the Author Role and click on Next

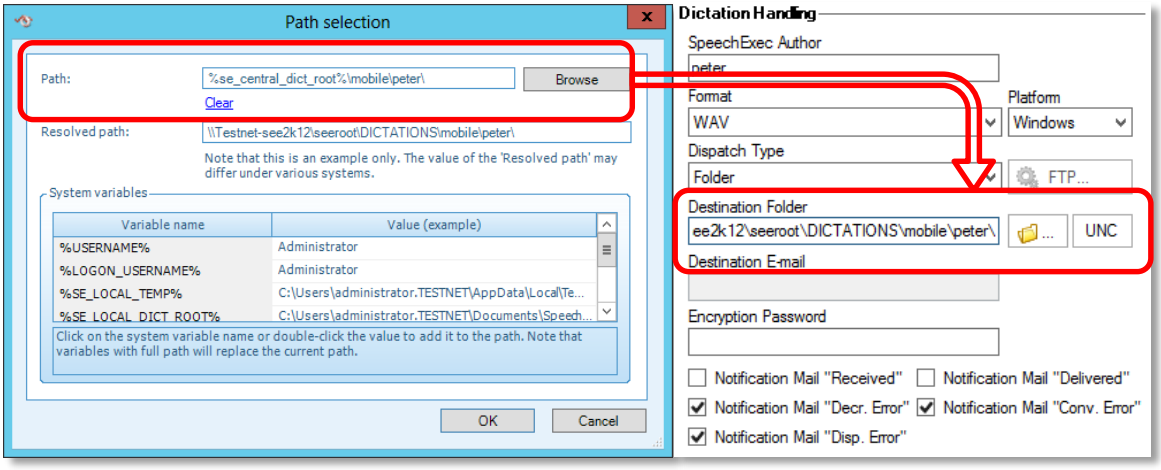


Select from the Menu Worklist option Folders, and click on the Button

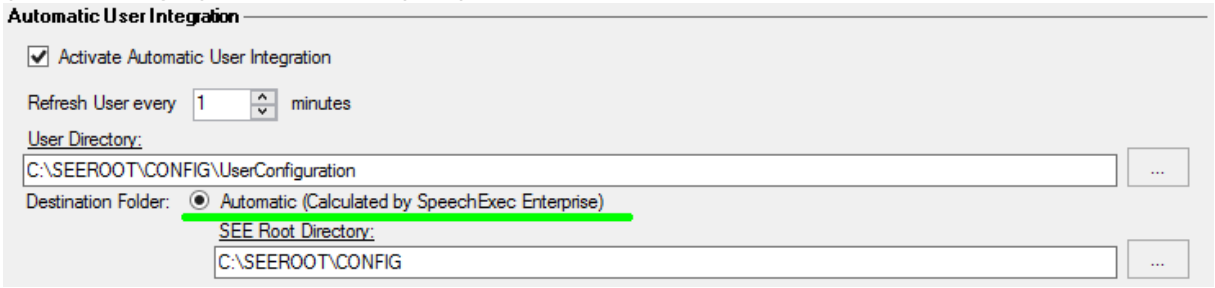



According to the SEE Manager Path settings the configuration will be transferred to the Mobile Server settings without the need to manually adjust.

SEE Enterprise Manager Mobile Server




Important! – Destination Folder Settings in the Mobile Server must be set to **Automatic**
(Calculated by SpeechExec Enterprise)



### 7.3.7. E-mail Templates

If a dictation is sent via E-mail, a corresponding text will be generated. A draft for this text can be edited here. For details about the function of Notification Received and Notification Delivered please see chapter 7.2.1 – Notification Mail settings.
Furthermore you can define a warning message for inactive Users.
For English, French, German and Spanish you can use prepared Templates.
For the E-mail templates you can use predefined placeholders:

| | |
|---|---|
| #Customer.CustomerNo# | Customer No. |
| #Customer.Firstname# | Customer First Name |
| #Customer.Lastname# | Customer Last Name |
| #Customer.Company# | Customer Company |
| #Customer.Street1# | Customer Street 1 |
| #Customer.Street2# | Customer Street 2 |
| #Customer.Zip# | Customer ZIP |
| #Customer.City# | Customer City |
| #Customer.Country# | Customer Country |
| #Customer-DevicePhoneNumber# | Customer Phone Number |
| #CustomerDeviceId# | Customer Device-ID |
| #Customer.DeviceEmail# | Customer E-mail Address |
| #Customer.Author# | Customer Author |
| #Customer.DestFormat# | Customer Destination Format |
| #Customer.DestDispatch# | Customer Dispatch-Type |
| #Customer.DestFolder# | Customer Destination Folder |
| #Customer.DestEmail# | Customer Destination E-mail |
| #Customer.DestFTP# | Customer Destination FTP URL |
| #Customer.Active# | Customer Active Flag |
| #File.DateFound# | File Date Time on Server |
| #File.Filename# | Filename |
| #File.MD5# | File MD5 Hash |
| #File.SizeBytes# | Filesize in Bytes |
| #File.SizeReadable# | Human readable Filesize (KB, MB) |
| #File.Format# | File Format (WAV, AMR, WAV…) |
| #File.CreationDate# | File Date of creation |
| #File.Category# | File Category |
| #File.Comment# | File Comment |
| #File.Number# | Filenumber |
| #File.Priority# | File Priority |
| #File.DestEmail# | File Destination E-mail |
| #File.DestFolder# | File Destination Folder |
| #File.ConversionLength# | File Length for Conversion |

#### 7.3.7.1. Notification Received

Standard template for receiver notification, this is available in English, French, German and Spanish language.

```
Dear #Customer.Firstname# #Customer.Lastname#,

Your dictation has been received on our server

Below is some information about your dictation:

File name:  #File.Filename#
```

```
Size:  #File.SizeReadable#
Creation-Date: #File.CreationDate#
Conv-Length: #File.ConversionLength#

Account information:
Identifier: #Customer.DeviceId#
E-mail:      #Customer.DeviceEmail#

Your Philips SpeechExec mobile server Team
```

#### 7.3.7.2. Notification Delivered

Standard template for delivery notification, this is available in English, French, German and Spanish language.

```
Dear #Customer.Firstname# #Customer.Lastname#,

Your dictation was successfully processed and sent.

Below is some information about your dictation:

File name:  #File.Filename#
Size:  #File.SizeReadable#
Creation date: #File.CreationDate#

Account information:
Identifier: #Customer.DeviceId#
E-mail: #Customer.DeviceEmail#


Your Philips SpeechExec mobile server Team
```

#### 7.3.7.3. Account Inactive

Template for Account inactive.

```
Dear #Customer.Firstname# #Customer.Lastname#,

Your audio file could not be processed since your account has been blocked. Your
audio files are still available in the Philips dictation recorder app in the
"Sent files" folder.

Please contact your administrator to reactivate your account.

Below is some information about your dictation:

File name:  #File.Filename#
Size:  #File.SizeReadable#
Creation date: #File.CreationDate#

Your account information:
Device ID: #Customer.DeviceId#
Email: #Customer.DeviceEmail#
```

```
Your Philips SpeechExec mobile server Team
```

#### 7.3.7.4. Decryption Error

Template for Decryption.

```
Dear #Customer.Firstname# #Customer.Lastname#,

Unfortunately the Philips SpeechExec mobile server could not decrypt the
dictation file you sent.

Please contact your administrator and share your password with him so it can be
stored in the mobile server for decryption.

Below is some information about your dictation:

File name:  #File.Filename#
Size:  #File.SizeReadable#
Creation date: #File.CreationDate#

Account information:
Identifier: #Customer.DeviceId#
E-mail: #Customer.DeviceEmail#


Your Philips SpeechExec mobile server Team
```

#### 7.3.7.5. Conversion Error

Template for Conversion Error.

```
Dear #Customer.Firstname# #Customer.Lastname#,

Unfortunately the Philips SpeechExec mobile server could not convert the
dictation file you sent.

1.     Make sure that a stable data connection is available.
2.     Repeat the transmission.
3.     If the error occurs again, switch your smartphone off and then on again.
Repeat the transmission.

Below is some information about your dictation:

File name:  #File.Filename#
Size:  #File.SizeReadable#
Creation date: #File.CreationDate#

Account information:
Identifier: #Customer.DeviceId#
E-mail: #Customer.DeviceEmail#


Your Philips SpeechExec mobile server Team
```

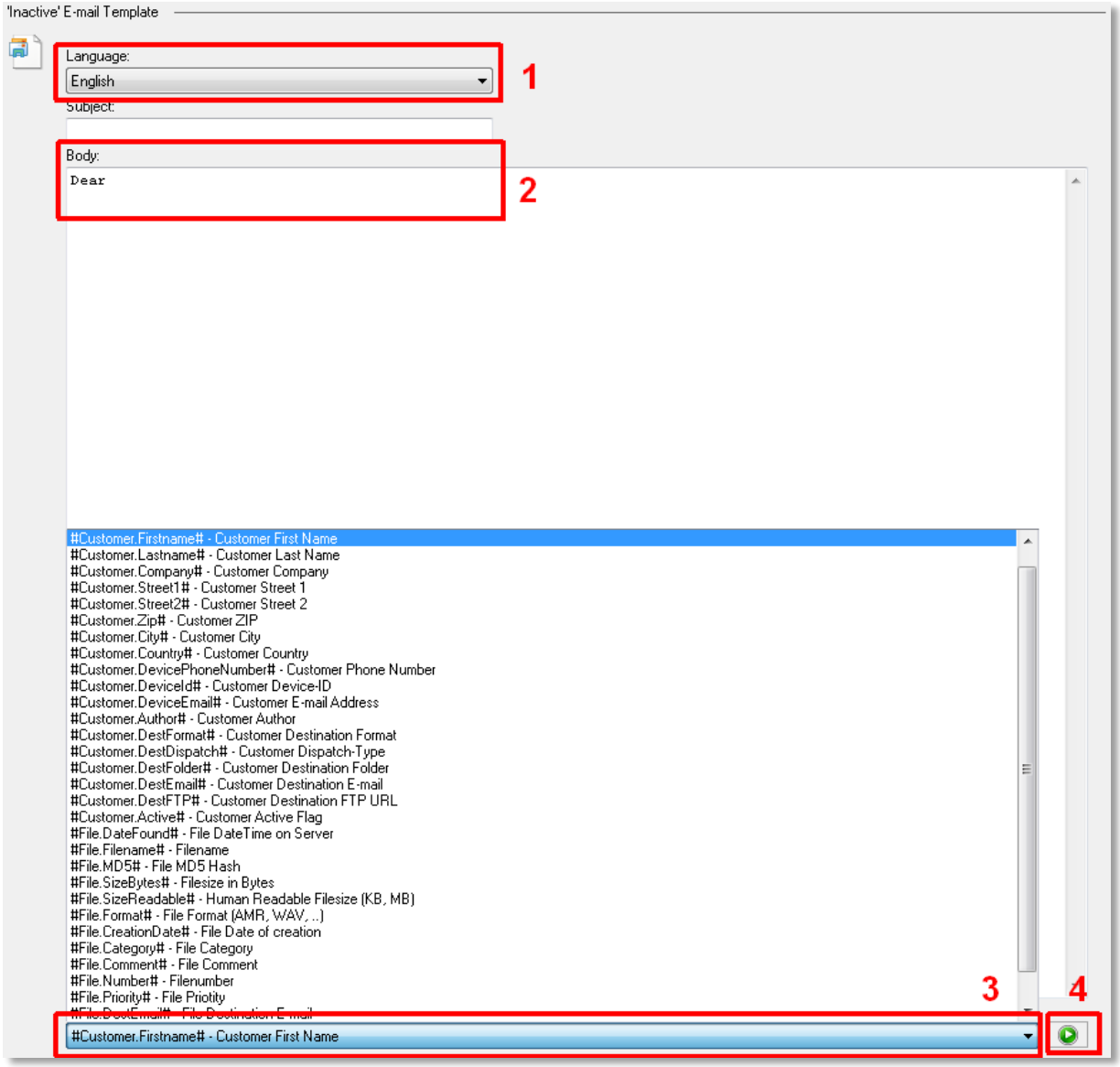
#### 7.3.7.6. Dispatch Error

Template for Dispatch Error

```
Dear #Customer.Firstname# #Customer.Lastname#,

Unfortunately the Philips SpeechExec mobile server could not deliver the
dictation file you sent.

The stored path or FTP server is currently not accessible.
Please contact your administrator.

Below is some information about your dictation:

File name:  #File.Filename#
Size:  #File.SizeReadable#
Creation date: #File.CreationDate#

Account information:
Identifier: #Customer.DeviceId#
E-mail: #Customer.DeviceEmail#


Your Philips SpeechExec mobile server Team
```

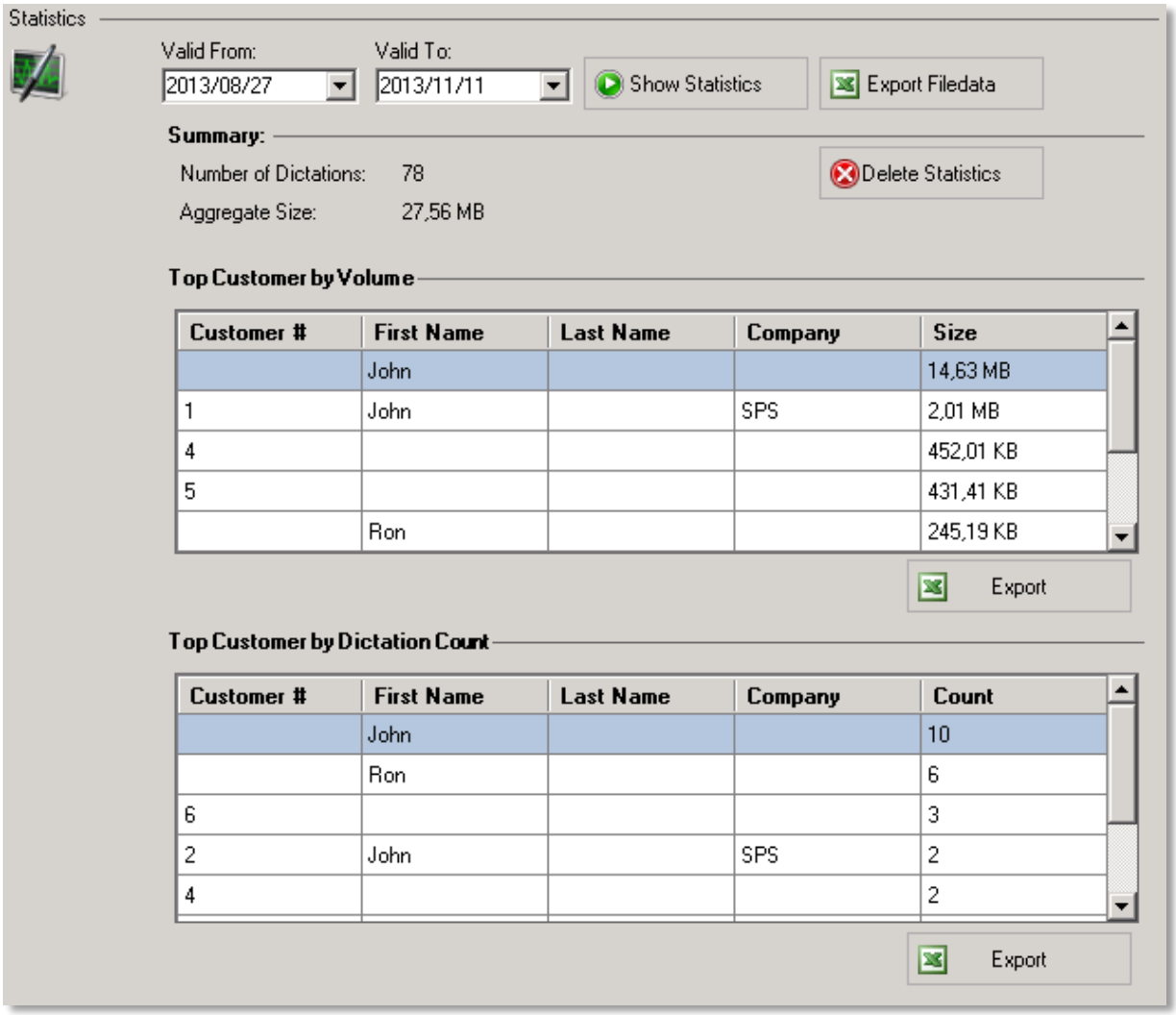
## 7.3.8. Create own Template

If you will create new template you need select the preferred language [1] and you can write a message text for the subject and message body. You can also integrate the predefined placeholders click on [3], select one of the placeholders and click on [4]



## 7.4. Statistics

Mobile Server bring simply but powerful statistic module. Select a time period and click on Show Statistics for the predefined time period.

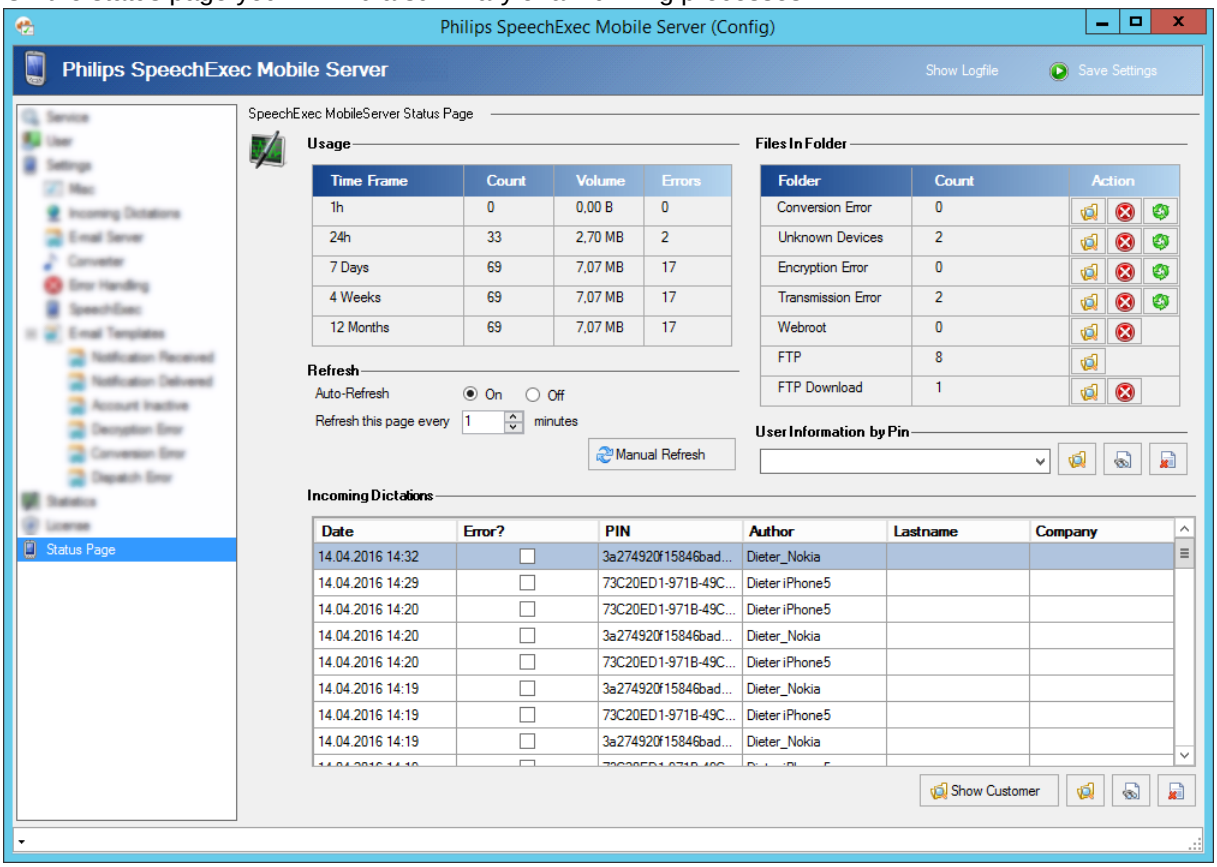



Complete data set export contains the following fields:

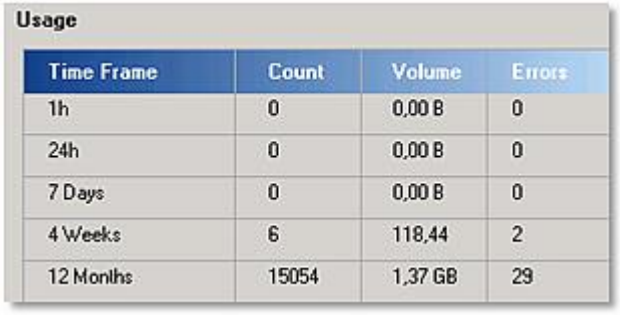
| | | | |
|---|---|---|---|
| customeId | customeNo | firstName | lastName |
| company | street1 | street2 | zip |
| city | country | berryPhoneNumber | berryDeviceId |
| berryEmail | author | destFormat | destDispatch |
| destFolder | destEmail | active | activeFrom |
| activeTo | backupLifetime | prefLanguage | receiveEmail |
| transcribeEmail | ftpHost | ftpPort | ftpProxyHost |
| ftpProxyPort | ftpUsername | ftpPassword | ftpDirectory |
| use Transcription | customertype | nextpayment | expireWarningSent |
| billingSent | providerCountry | providerName | deviceName |
| blackBerryOsVersion | blackBerryLanguage | apn | besmode |
| storageMode | speechVersion | isSpeechExecUser | speechExecUserFile |
| contractType | activationCode | currency | amount |
| tax | amountWithTax | lastPaymentDate | lastPaymentAmount |
| nextPaymentDate | nextPaymentAmount | provisionCompany | provisonName |
| creditFrom | creditAmount | creditReason | payInvCompany |
| payInvName | payInvAddress | payInvMail | payInvCountry |
| payInvSalesTax | payCCCompany | payCCOwner | License |

## 7.5. Status Page

On the status page you will find a summary of all running processes



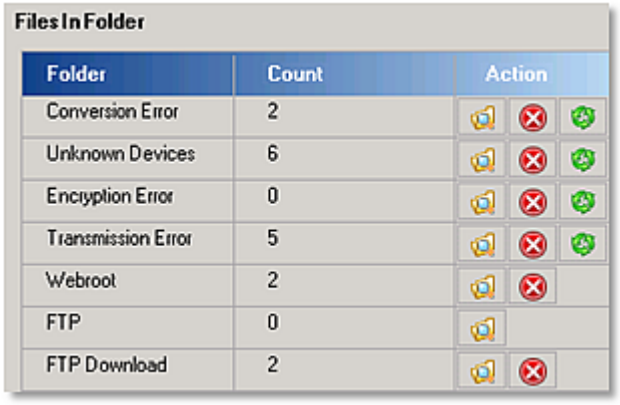

**Usage –** this is the summary of the use of the mobile server. It shows how many dictations have been sent within a period and the corresponding data volume



Usage

| Time Frame | Count | Volume | Errors |
|---|---|---|---|
| 1h | 0 | 0,00 B | 0 |
| 24h | 0 | 0,00 B | 0 |
| 7 Days | 0 | 0,00 B | 0 |
| 4 Weeks | 6 | 118,44 | 2 |
| 12 Months | 15054 | 1,37 GB | 29 |

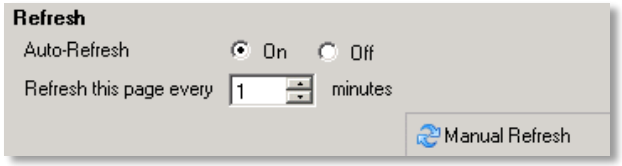
**Files in Folders -** here are shown how many single data files are in the corresponding folders. By using the buttons you can open a folder, delete the content or try to copy into the web root directory.



Files In Folder

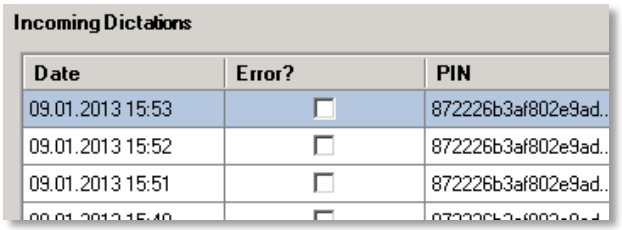
| Folder | Count | Action |
|---|---|---|
| Conversion Error | 2 | |
| Unknown Devices | 6 | |
| Encryption Error | 0 | |
| Transmission Error | 5 | |
| Webroot | 2 | |
| FTP | 0 | |
| FTP Download | 2 | |

**Refresh –** You can define how often status page should be updated automatically. Click on Manual Refresh to trigger the update immediately at any time.




**User Information by Pin –** Here you can open the user directory in the DictationRoot directory, you can open and see the user specific log file or delete the user´s log file.

**Incoming Dictation –** the incoming dictations directory shows which dictations have been processed last.




**Show Customer –** opens the user configuration form.

# 8. Appendix

## 8.1. Update Procedure from 1.0 auf 1.5

To update your system from version 1.0 to 1.5 will involve a little bit more effort because your old client version is not compatible with the new upload.php or upload.aspx script. Therefore you have to update the client software as well.

- Make sure that there are not any unprocessed dictations in the client folder. If necessary, send the dictations to the dictation manager.
- Delete the dictation file on the clients memory card.
- Update the clients software.
- Stop the mobile server service and close the configuration tool.
- Run setup.exe oft he Mobile Server version 1.5. The database settings will be automatically recognized and extended if necessary. If you use an external database you might have to manually apply the update.sql of the program folder from the Mobile Server installation path.
- Replace the update.aspx and update.php files respectively on your web server and install the latest version. Once again you have to correctly entert he URL, user name and password into the script.
- Restart the Mobile Server again

It is recommended to update the client software at the same time.

## 8.2. Update Procedure from 1.2 auf 1.5

To update your system from version 1.2 to version 1.5 proceed as follows:

- Stop the mobile server service and close the configuration tool
- Run setup.exe of the Mobile ServerServer version 1.5. The database settings will be automatically identified and extended if necessary. . If you use an external database you might have to manually apply the update.sql of the program folder from the Mobile Server installation path.
- Replace the update.aspx and update.php files respectively on your web server and install the latest version. Once again you have to correctly entert he URL, user name and password into the script.
- Restart the Mobile Server again

It is recommended to update the client software at the same time.

## 8.3. Update Procedure from 1.5 auf 2.0

To update your system from version 1.5 to version 2.0 proceed as follows:

- Stop the mobile server service and close the configuration tool
- Execute the MobileServer application and follow the assistant.
- Replace the update.aspx and update.php files respectively on your web server and install the latest version. Once again you have to correctly enter the URL, user name and password into the script.
- . If you use an external database you might have to manually apply the update.sql of the program folder from the Mobile Server installation path.

It is recommended to update the client software at the same time.

## 8.4. Update Procedure from 2.1.09 to 2.1.17

To update your system from version 2.1.09 to version 2.1.17 proceeds as follows:

- Stop the mobile server service and close the configuration tool
- Execute the MobileServer application and follow the assistant.
- Replace the update.aspx or update.php files respectively on your web server and install the latest version. Once again you have to correctly enter the URL, user name and password into the script.
- If you use an external database you might have to manually apply the update.sql of the program folder from the Mobile Server installation path.

It is recommended to update the client software at the same time.

## 8.5. Update Procedure from 2.1.17 to 2.2.0

To update your system from version 2.1.17 to version 2.2.0 proceeds as follows:

- Stop the mobile server service and close the configuration tool
- Execute the MobileServer application and follow the assistant.
- Replace the update.aspx or update.php files respectively on your web server and install the latest version. Once again you have to correctly enter the URL, user name and password into the script.
- If you use an external database you might have to manually apply the update.sql of the program folder from the Mobile Server installation path.

It is recommended to update the client software at the same time.

## 8.6. Update Procedure from 2.2.0 to 2.3.0

To update your system from version 2.2.0 to version 2.3.0 proceeds as follows:

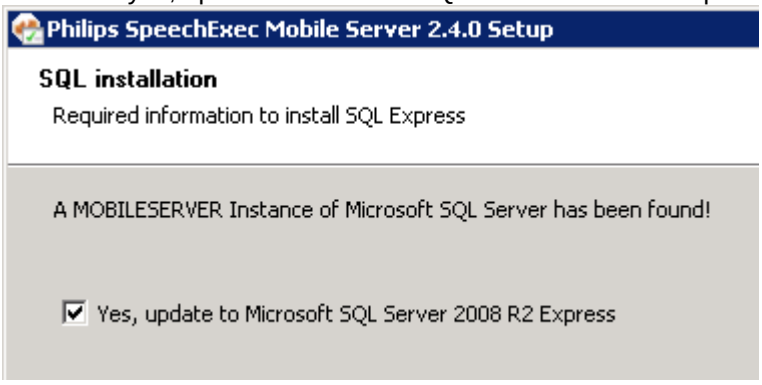
- Stop the mobile server service and close the configuration tool
- Execute the MobileServer application and follow the assistant.
- Replace the update.aspx or update.php files respectively on your web server and install the latest version. Once again you have to correctly enter the URL, user name and password into the script.
- If you use an external database you might have to manually apply the update.sql of the program folder from the Mobile Server installation path.

It is recommended to update the client software at the same time.

## 8.7. Update Procedure from 2.3.0 to 2.4.1

To update your system from version 2.2.0 to version 2.3.0 proceeds as follows:

- Stop the mobile server service and close the configuration tool
- Execute the MobileServer application and follow the assistant.
  Activate – yes, update to Microsoft SQL Server 2008 R2 Express




- Replace the update.aspx or update.php files respectively on your web server and install the latest version. Once again you have to correctly enter the URL, user name and password into the script.
- If you use an external database you might have to manually apply the update.sql of the program folder from the Mobile Server installation path.

It is recommended to update the client software at the same time.

## 8.8. Log-File

If you encounter any malfunctions, please see the log file for error messages.
The ActionLog.txt is available from any window in SpeechExec Mobile Server – click on Show Logfile and you see this.

The other Log file is saved user folder with log.txt name.
You see a typical log file with short comments.

```
*** Comments – receive new incoming file from device 24dca4c7 with a *.xml and +.wav file. ***
30.09.2013 09:38:57.055   Reading file-xml => C:\DictationRoot\24dca4c7\Inbox\John.30-09-13.09_38.xml
30.09.2013 09:38:57.055   File found: C:\DictationRoot\24dca4c7\Inbox\John.30-09-13.09_38.wav
*** Comments – MobileServer process begins ***
30.09.2013 09:38:57.055   Processing file...
30.09.2013 09:38:57.087   Copying file to Conversion Temp => C:\DictationRoot\ConversionTemp
30.09.2013 09:38:57.087   Trying to convert file to MP3
30.09.2013 09:38:57.102   ConvertFile()
30.09.2013 09:38:57.149   C:\Program Files (x86)\MobileServer\PSP.SpeechExec.DictationPropConfiguration.xml
30.09.2013 09:38:57.149   C:\Program Files (x86)\MobileServer\PSP.SpeechExec.DictationPropConfiguration.xml
*** Comments - convert from *wav tom *.mp3 file with CBR 64k ***
30.09.2013 09:40:22.274   C:\Program Files (x86)\MobileServer\Converter\ffmpeg.exe -i "C:\DictationRoot\ConversionTemp\John.30-09-13.09_38.wav" -y -b:a 64k "C:\DictationRoot\ConversionTemp\John.30-09-13.09_38.mp3"
30.09.2013 09:40:22.446
*** Comments – create coherent xml file ***
30.09.2013 09:40:22.478   XML-Generation:  C:\DictationRoot\ConversionTemp\John.30-09-13.09_38.mp3.xml

*** Comments – check dispatching ***
30.09.2013 09:40:22.478   DestDispatch = Mail
*** Comments – check keyword routing ***
30.09.2013 09:40:22.493   Checking for special Keyword Routing
*** Comments – select predefined Template for Email message ***
30.09.2013 09:40:22.603   Template Subject: subject
30.09.2013 09:40:22.603   From: "My MobileServer" <dictation@gmx.at>
30.09.2013 09:40:22.603   To: peter.speechmike@speech.com
30.09.2013 09:40:22.603   Subject: Conversion Notice (John.30-09-13.09_38.wav)
30.09.2013 09:40:22.603   Body: Conversion Notice (John.30-09-13.09_38.wav)
30.09.2013 09:40:22.603   File: C:\DictationRoot\ConversionTemp\John.30-09-13.09_38.mp3
30.09.2013 09:40:22.603   FileXML: C:\DictationRoot\ConversionTemp\John.30-09-13.09_38.mp3
*** Comments – Email is sent, message can be deleted ***
30.09.2013 09:40:23.321   Deleting Inbox file C:\DictationRoot\24dca4c7\Inbox\John.30-09-13.09_38.wav
*** Comments – process is completed ***
30.09.2013 09:40:23.321   File successfully processed
```

## 8.9. Upload Script aspx

```
<%@Page Language="C#" %>
<%
// Since Version 2.0 we need to allow the .att extension
// Since Version 2.1 we need to allow the .aac extension (iPhone)
// Since Version 2.1 we need to allow the .mp3 extension (iPhone)
// Since Version 2.1.10 we need to allow the .jpg .gif .png .bmp .webp extensions (Pictures)
// Since Version 2.1.15 we need to allow the .wav extension

const string USERNAME = "test";
const string PASSWORD = "test";

const string DESTINATION = "D:\\temp";

const string ALLOWED_FILETYPES = "xml,mp3,amr,dss,ds2,att,aac,jpg,gif,png,bmp,webp,wav";

string frmUsername = Request.Form["username"];
string frmPassword = Request.Form["password"];

if (Request.Form.Count == 0)
{
   Response.Write("No data provided, showing form: <br />");
   Response.Write("<form method=\"post\" action=\"upload.aspx\" enctype=\"multipart/form-
data\">");
   Response.Write("Username: <input type=\"text\" name=\"username\" value=\"test\" /><br />");
   Response.Write("Password: <input type=\"text\" name=\"password\" value=\"test\" /><br />");
   Response.Write("File:<input type=\"file\" name=\"bytes\" /><br />");
   Response.Write("<input type=\"submit\" value=\"upload\" /></form>");
   Response.End();
   return;
}

try
{
   // check password
   bool passwordIsCorrect = (
      frmUsername.ToLower() == USERNAME.ToLower() &&
      frmPassword.ToLower() == PASSWORD.ToLower());
   if(!passwordIsCorrect)
   {
      Response.Write("Code1: Invalid username or password");
      Response.End();
      return;
   }
   HttpPostedFile file = Request.Files[0];

   // check extension - no regular expressions..
   bool isAllowed = false;
   string[] extensionParts = file.FileName.Split(new char[] {'.'});

   // is there an extension?
   if(extensionParts.Length > 1)
   {
      // extract last extension-part
```

```
    string extension = extensionParts[extensionParts.Length-1].ToLower();

                    string[] items = ALLOWED_FILETYPES.Split(new char[] {','});
    bool found = false;
    foreach(string item in items)
    {
                            //Response.Write(item+ "<br />");
        if(item == extension)
            found = true;
    }

    bool isPART = false;

    // no xml, no amr? check for part files
    if (!found && extension.Length >= 4)
    {
        int partId = Convert.ToInt32(extension.Substring(4, extension.Length-4));
        isPART = (extension == "part" + partId);
    }

    // set allowed flag
    isAllowed = (found || isPART);
}

if(!isAllowed)
{
    Response.Write("Code2: Filetype not allowed: " + file.FileName);
    Response.End();
    return;
}
string destFile = System.IO.Path.Combine(DESTINATION,
    System.IO.Path.GetFileName(file.FileName));
file.SaveAs(destFile);

System.Security.Cryptography.SHA1CryptoServiceProvider SHA1 =
    new System.Security.Cryptography.SHA1CryptoServiceProvider();
byte[] hash;
string result = string.Empty;
string tmp = string.Empty;
System.IO.FileStream fs = new System.IO.FileStream(destFile,
    System.IO.FileMode.Open, System.IO.FileAccess.Read,
    System.IO.FileShare.Read);
SHA1.ComputeHash(fs);
fs.Close();

hash = SHA1.Hash;
for (int i = 0; i < hash.Length; i++)
{
    tmp = Convert.ToString(hash[i], 16);
    if (tmp.Length == 1)
        tmp = "0" + tmp;
    result += tmp;
}

Response.Write("Code0: " + result);
```

```
    Response.End();
    return;
}
catch (System.Threading.ThreadAbortException e)
{
}
catch (Exception e)
{
    Response.Write("Code3: Unknown Error: " + e.Message);
    Response.End();
    return;
}

%>
```

## 8.10. Upload Script php

```
<?php

// The following resp-codes exists
// -----
//  Code0: No Error
//  Code1: Invalid username or password
//  Code2: Filetype not allowed
//  Code3: Unexpected error, check given message

// Since Version 2.0 we need to allow the .att extension
// Since Version 2.1 we need to allow the .aac extension (iPhone)
// Since Version 2.1 we need to allow the .mp3 extension (iPhone)
// Since Version 2.1.10 we need to allow the .jpg .gif .png .bmp .webp extensions (Pictures)
// Since Version 2.1.15 we need to allow the .wav extension

// login-data
define('USERNAME', 'test');
define('PASSWORD', 'test');

// allowed filetypes
define('ALLOWED_FILETYPES', 'xml,mp3,amr,dss,ds2,att,aac,jpg,gif,png,bmp,webp,wav');

// destination, where the files get copied to
define('DESTINATION', dirname(__FILE__) . '/');

// time-limit for the script in seconds - default 600 (10 minutes)
define('UPLOAD_TIME_LIMIT', 600);

// show php-errors? just for debugging
define('SHOW_SCRIPT_ERRORS', false);

// form template - needed inputs are "username", "password" and "bytes" (type=file) and
// the method needs to be POST with enctype="multipart/form-data"
$htmlForm =
<<<HTML
<?xml version="1.0"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
   "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<style type="text/css">
/*<![CDATA[*/
form br { clear: left; }
label   { float: left; width: 100px; }
/*]]>*/
</style>
<title>Upload</title>
</head>
<body>
   <form enctype="multipart/form-data" action="{$_SERVER['PHP_SELF']}" method="post">
      <label>Username:</label><input type="text" name="username" /><br />
      <label>Password:</label><input type="text" name="password" /><br />
      <label>File:</label><input name="bytes" type="file" /><br />
```

```
        <input type="submit" value="Upload!" />
    </form>
</body>
</html>

HTML;

/// #####NO NEED TO CHANGE ANYTHING FROM HERE ####################

// suppress errors?
error_reporting(SHOW_SCRIPT_ERRORS ? E_ALL : 0);

// set time-limit
set_time_limit(UPLOAD_TIME_LIMIT);

// file submitted?
if(count($_FILES) == 0)
{
    // no, output the form
    echo $htmlForm;
} else {

    // destination filename
    $filename = $_FILES['bytes']['name'];

    // check password
    $passwordIsCorrect = strtolower($_POST['username']) == strtolower(USERNAME) &&
        strtolower($_POST['password']) == strtolower(PASSWORD);
    if(!$passwordIsCorrect)
    {
        echo "Code1: Invalid username or password";
        exit;
    }

    // Check if file is allowed
    if(!isAllowed($filename))
    {
        echo "Code2: Filetype not allowed: " . $filename;
        exit;
    }

    // check the given destination
    $destination = DESTINATION;
    if(substr($destination, -1) != "/" && substr($destination, -1) != "\\")
        $destination .= '/';
    // combine filename and destination
    $uploadfile = $destination . $filename;

    // Move the uploaded file
    if (move_uploaded_file($_FILES['bytes']['tmp_name'], $uploadfile)) {
        echo "Code0: " . sha1_file($uploadfile);
        exit;
    } else {
        $error = error_get_last();
        echo "Code3: Unknown Error: " . strip_tags($error['message']);
```

```
        exit;
    }
}

/**
 * Checks the given file for allowed extensions
 *
 * @param  string $filename The name of the file
 * @return bool   True if allowed
 */
function isAllowed($filename)
{
    // check extension - no regular expressions..
    $isAllowed = false;
    $extensionParts = explode('.', $filename);

    // is there an extension?
    if(count($extensionParts) > 1)
    {
        // extract last extension-part
        $extension = strtolower($extensionParts[count($extensionParts) - 1]);

        $tmp = explode(',', ALLOWED_FILETYPES);
        $isAllowedFileType = (array_search($extension, $tmp) !== false);
        $isPART = false;
        // no xml, no amr? check for part files
        if(!$isAllowedFileType)
        {
            $partId = intval(substr($extension, 4, strlen($extension) - 4));
            $isPART = ($extension == "part" . $partId);
        }

        // set allowed flag
        $isAllowed = ($isAllowedFileType || $isPART);
    }

    return $isAllowed;
}
?>
```

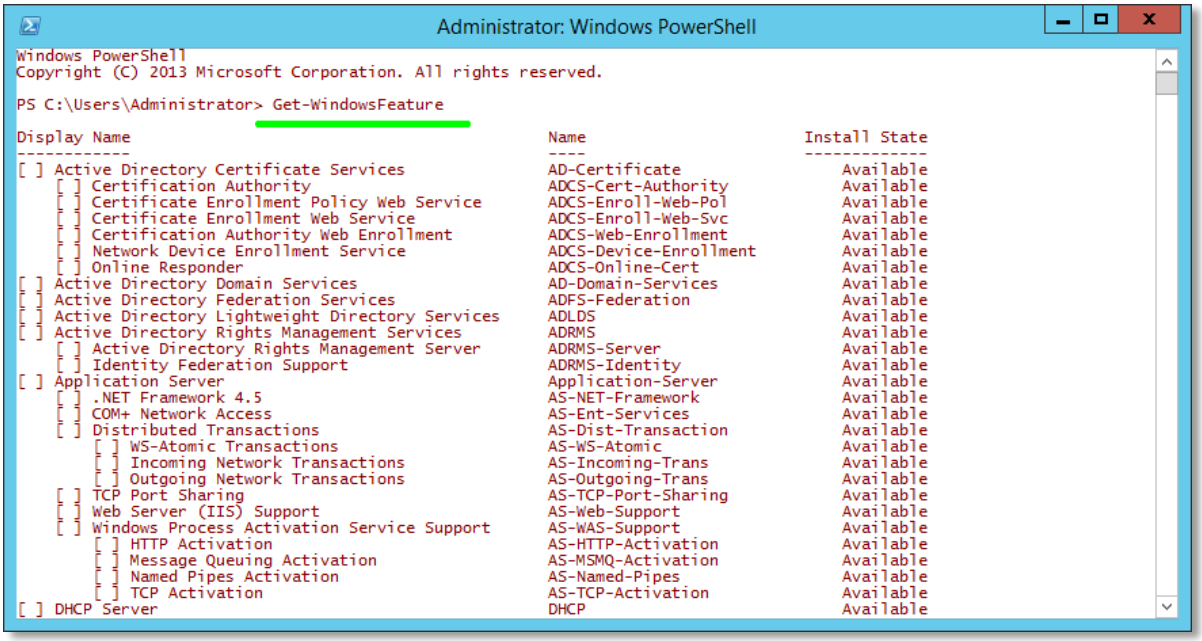
# 8.11. Installation .NET Environment

## 8.11.1. Windows Server 2012 Installation .NET

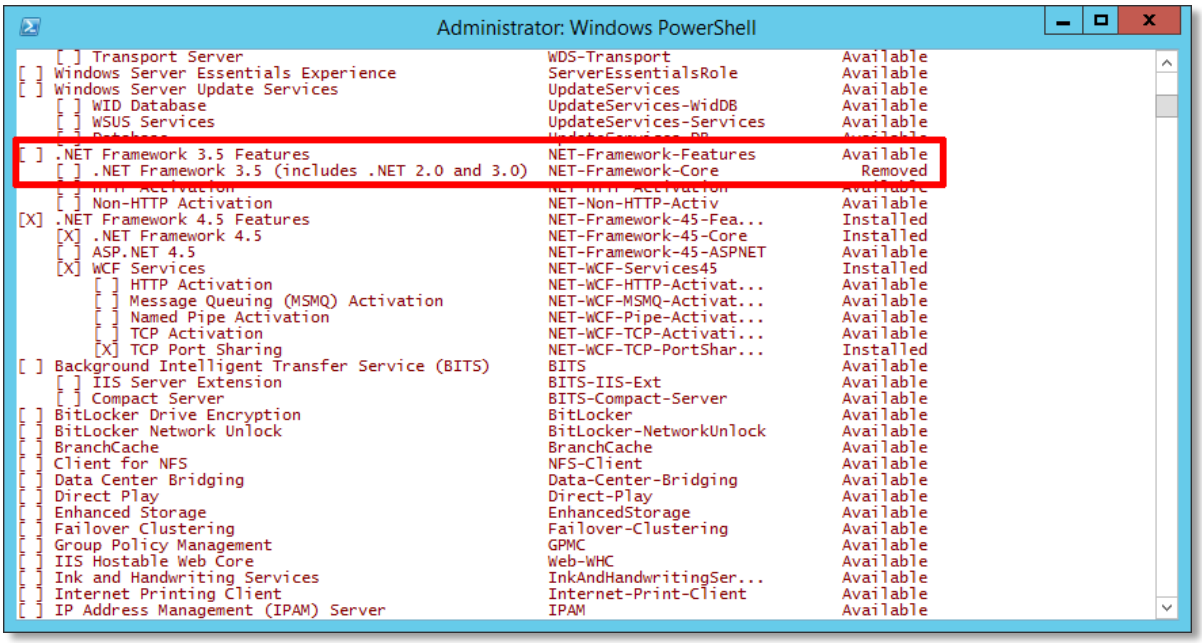
You can install the .NET 3.5 Framework feature from the PowerShell or with the Server Manager GUI. We describes booth installation.

### 8.11.1.1. Installing .NET 3.5 Framework with PowerShell

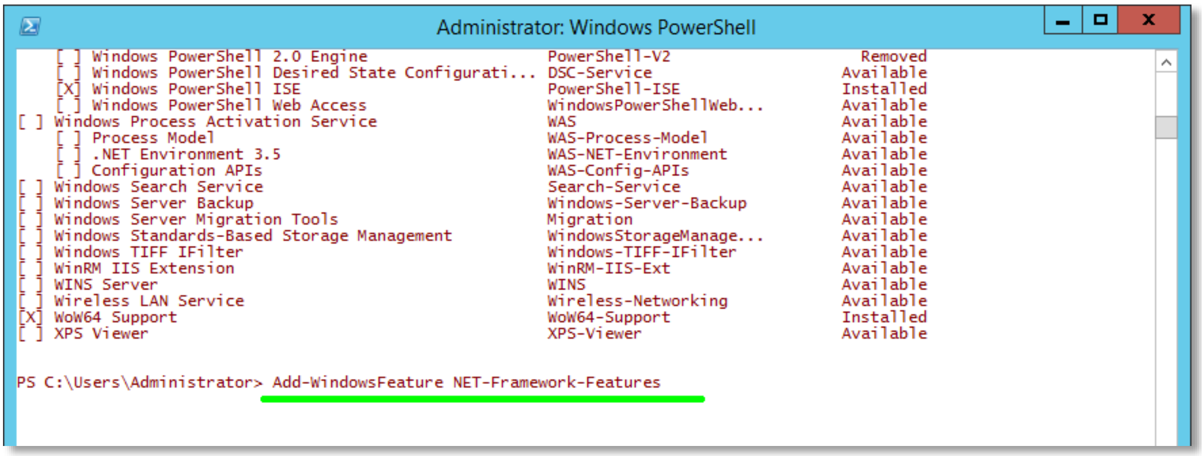
Open PowerShell as Admin and type `Get-WindowsFeature`



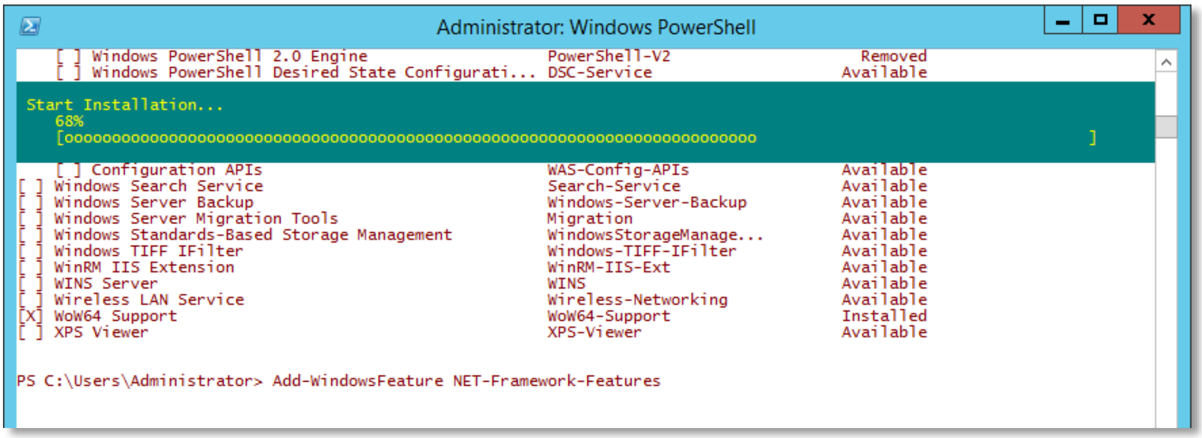

Check the .NET Framework 3.5 Features



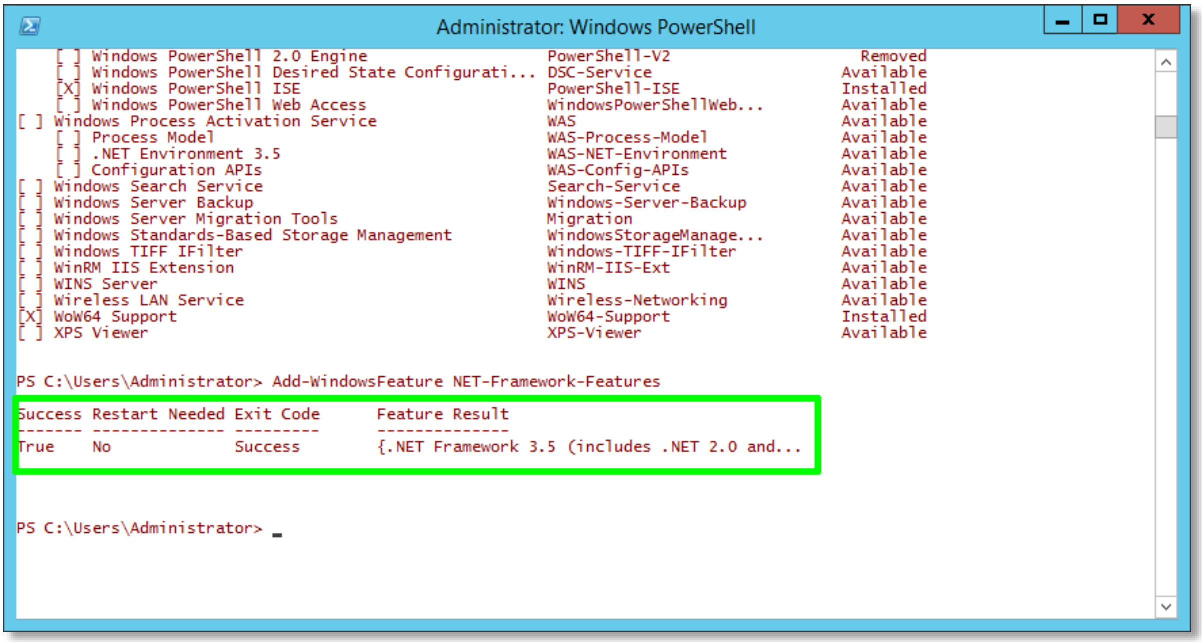
Type `Add-WindowsFeature NET-Framework-Features`



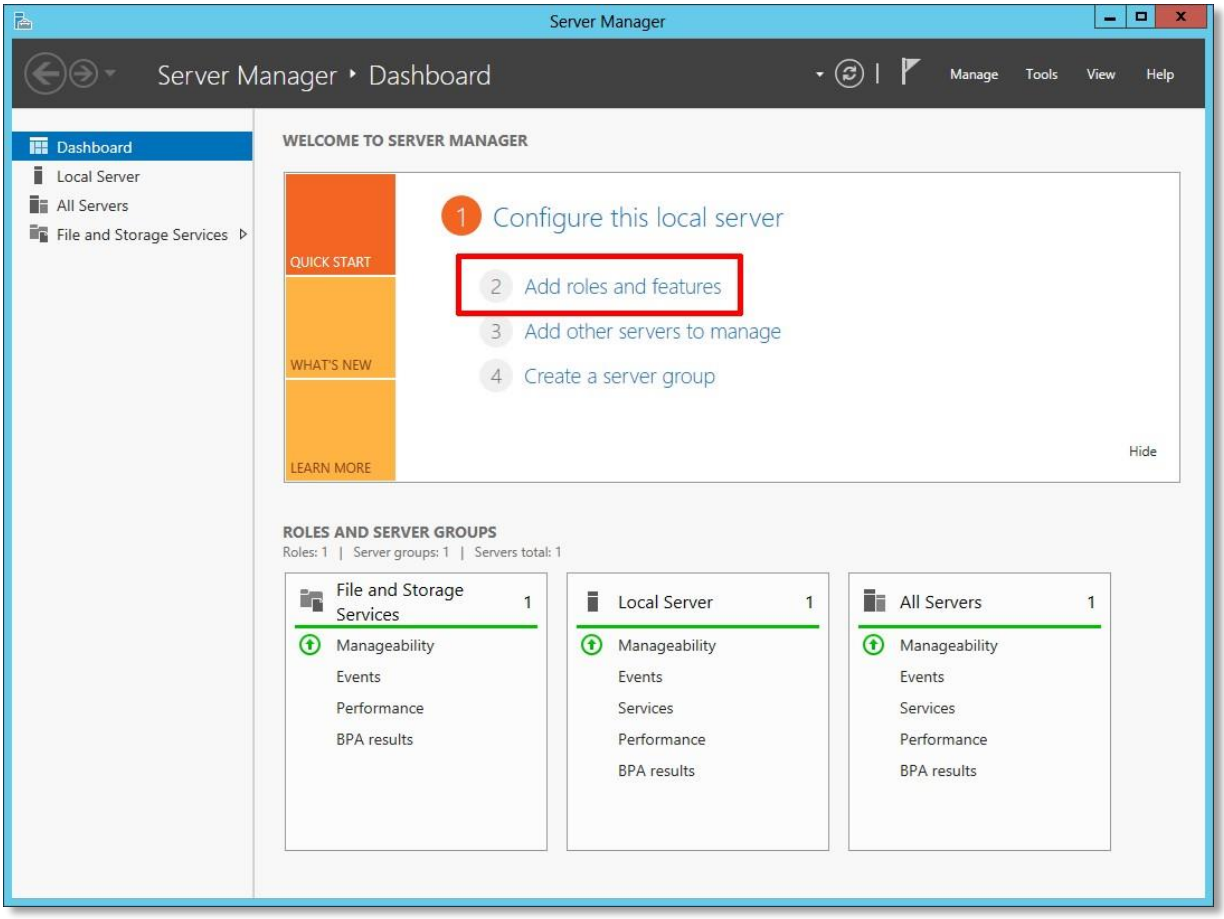

Installation is running




Installation is done, System restart is not needed



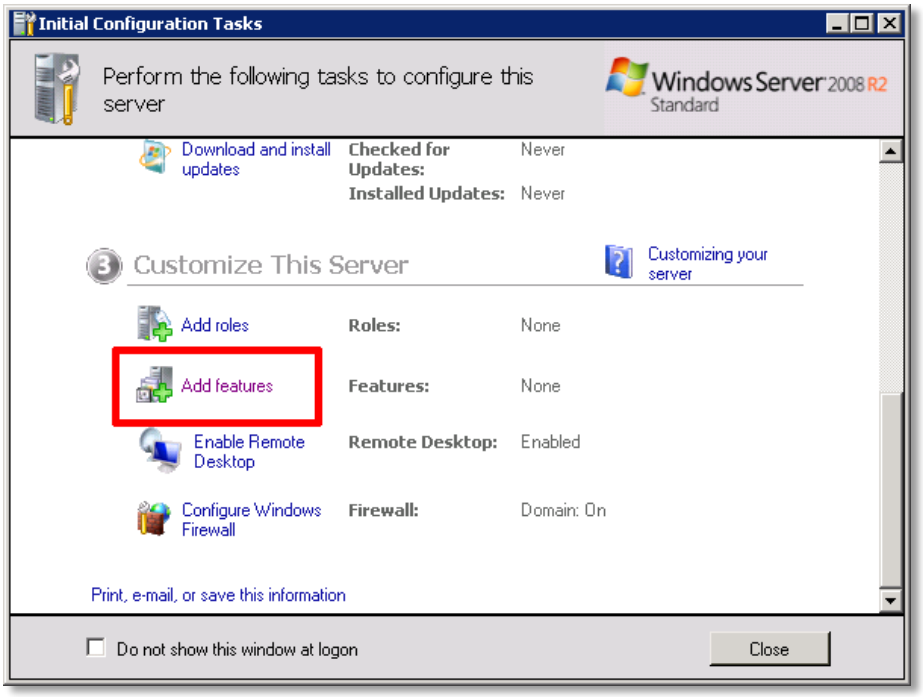
#### 8.11.1.2. Installing .NET 3.5 Framework with Server Manager GUI



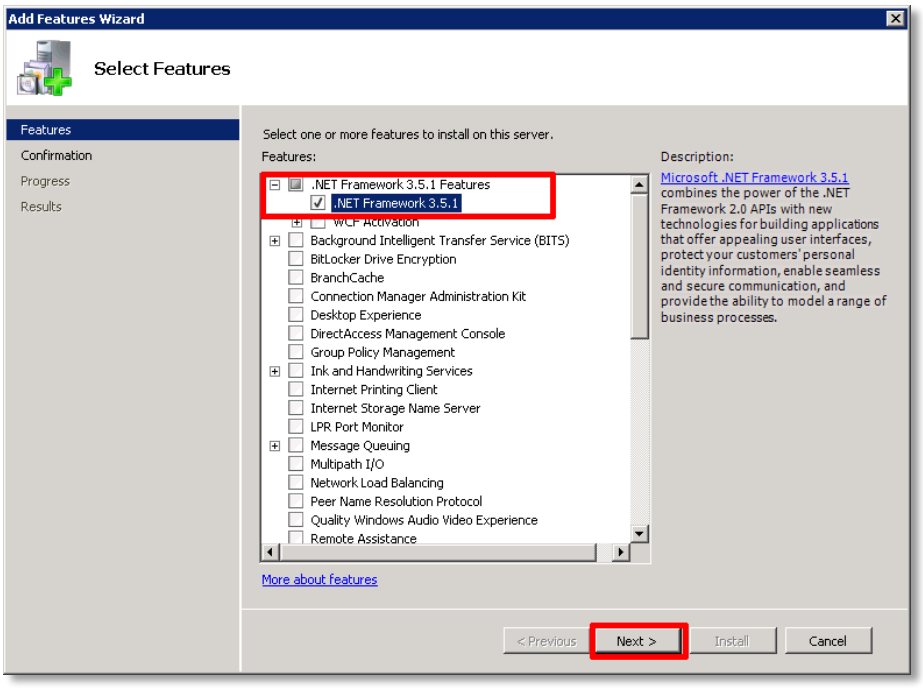
## 8.11.2. Windows Server 2008 R2 Installation .NET

The .NET Framework 3.5 SP1 (also referred to as .NET Framework 3.5.1) is a prerequisite for SQL Server 2008 installation. SQL Server 2008 is a part of the Mobile Server and save all the data from User, devices and dispatch targets.

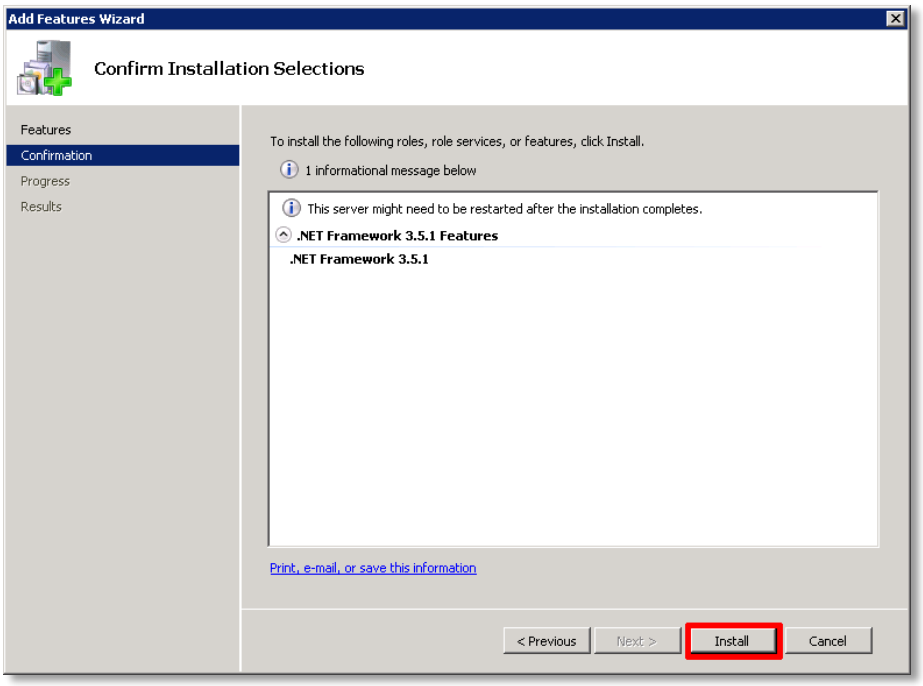
Click the Start button in the lower left corner of the display. Highlight Administrative Tools and select Server Manager. In the Server Manager interface select Add features to displays a list of possible features.



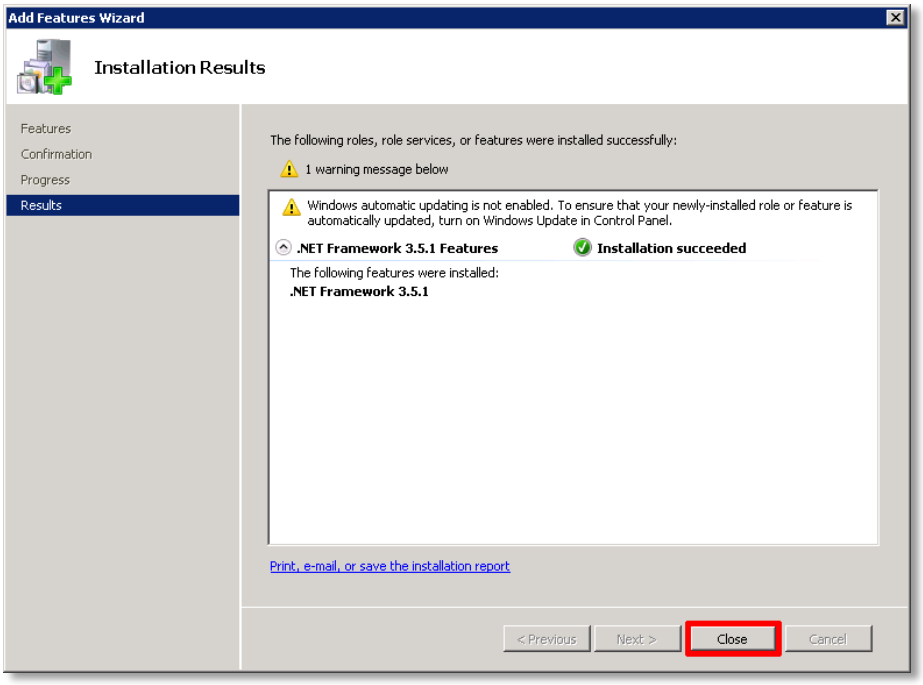
In the Select Features interface expand the .NET Framework 3.5.1 Features. Once you expand .NET Framework 3.5.1 Features, you will see two check boxes. One for .NET Framework 3.5.1 and other for WCF Activation. Check the box next to .NET Framework 3.5.1 and click Next.



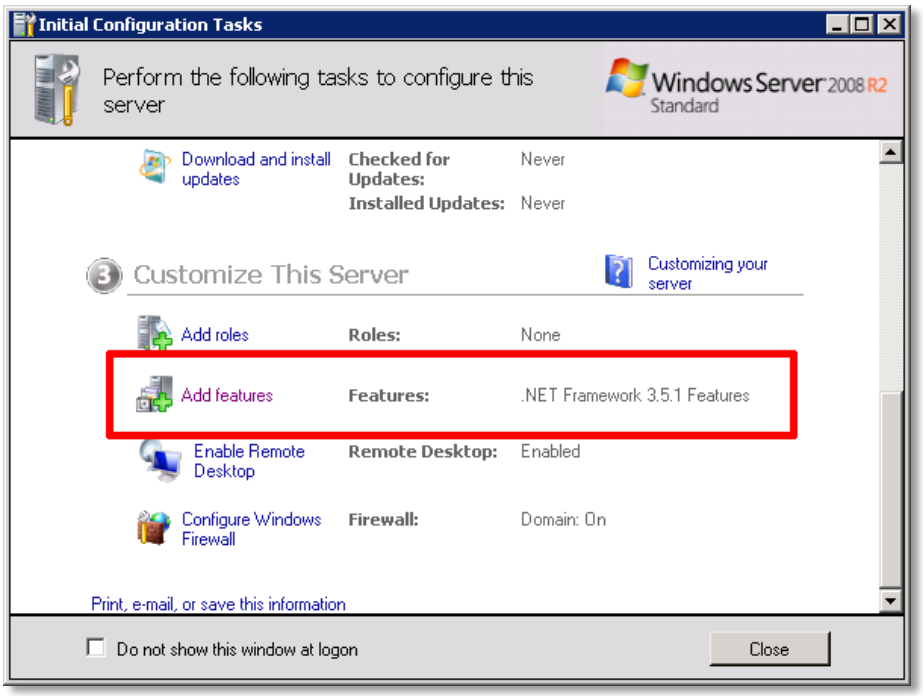

Click on Install to complete the installation



Click Close.




Open again Server Manager and go to Customize This Server – you see new installed features .NET Framework 3.5.1



## 8.12. Installation of Desktop Experience Feature on Windows Server

The Desktop Experience feature enables you to install a variety of Windows 7 features on your server running Windows Server 2008 or Server 2012. If you use Windows Server 2008 or Windows Server 2012 as your primary operating system, you might want to have some of these Windows 7 features available for your daily use.

### 8.12.1. Microsoft Windows Server 2012

**NOTE:**

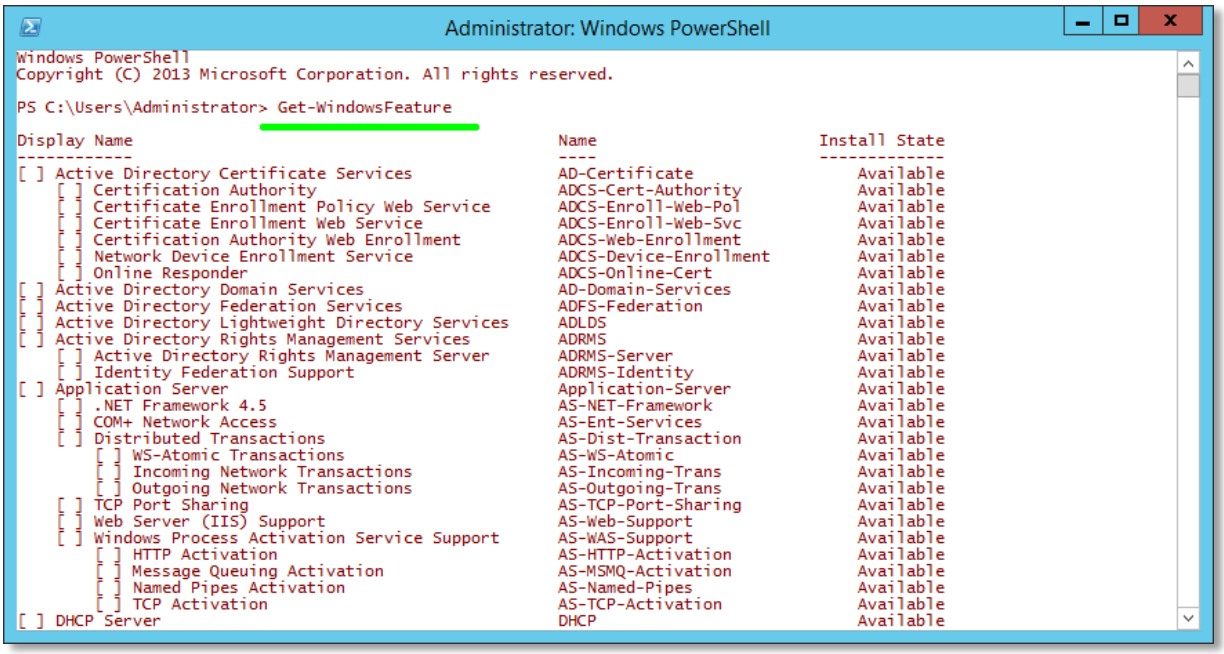
**The Server might need to be restarted after the installation completes.**

The Desktop Experience feature allows you to install a variety of components and features that are provided in the Windows 7 operating system onto a computer that is running the Windows Server 2012 operating system.

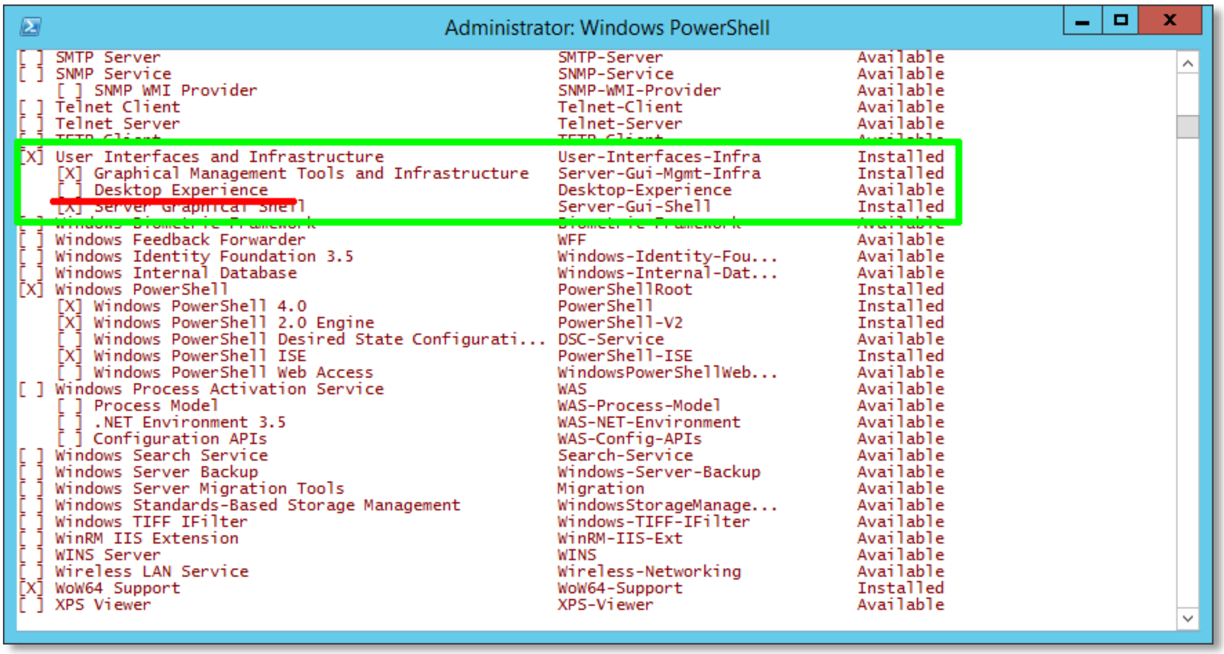
You can install the Desktop Experience feature from the PowerShell or with the Server Manager GUI. We describes booth installation.

#### 8.12.1.1. Installing Desktop Experience using PowerShell

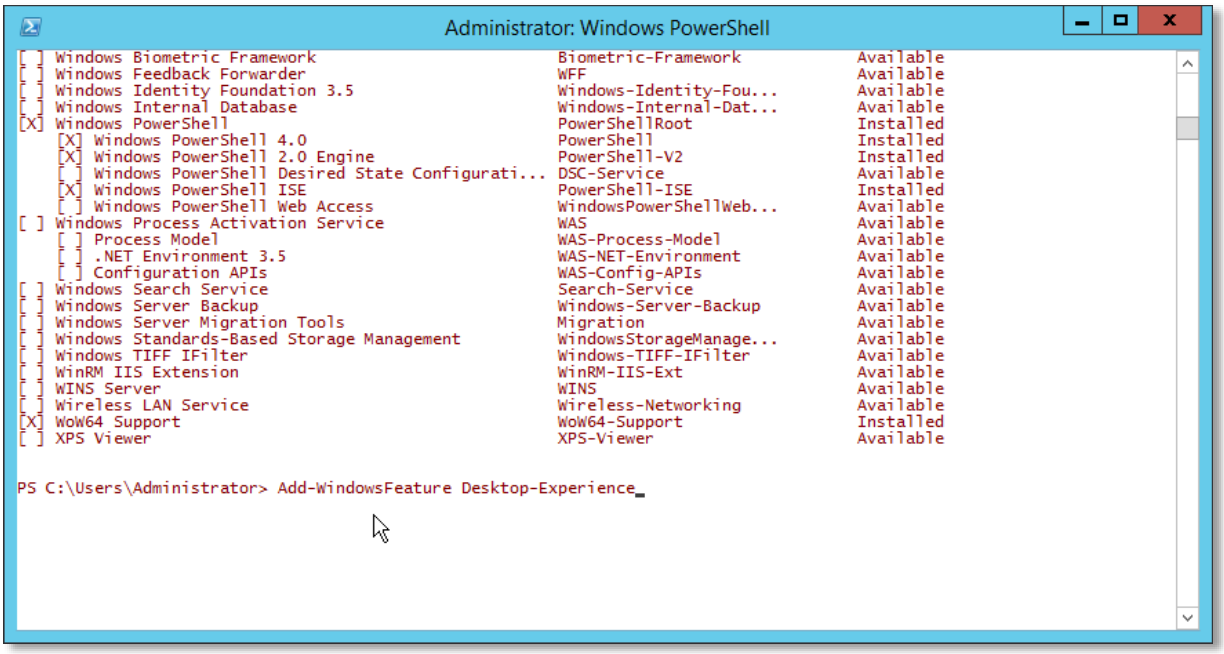
Open PowerShell as Admin and type `Get-WindowsFeature`



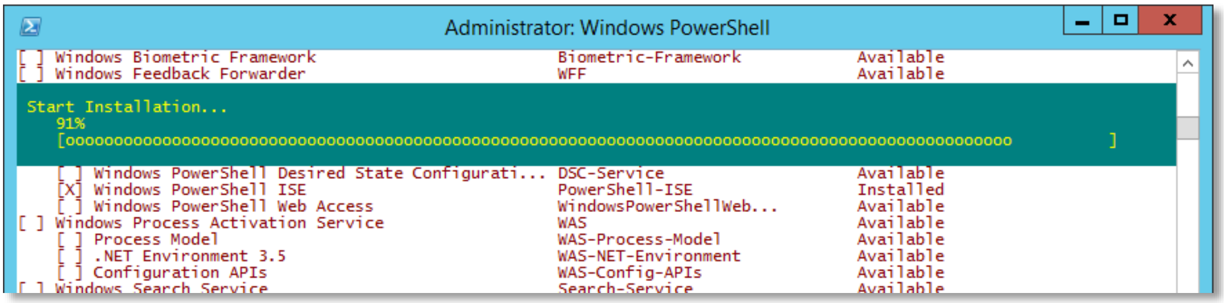
Scroll down to User Interfaces and Infrastructure and check, if the Desktop Experience is activated



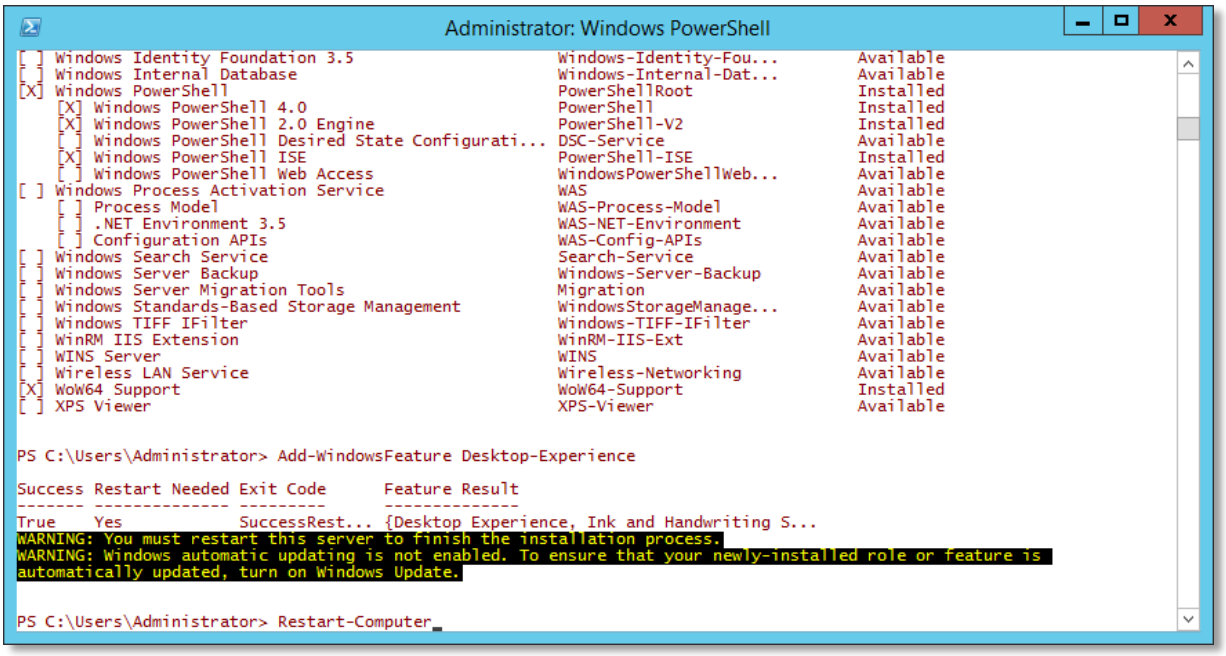

Type `Add-WindowsFeature Desktop-Experience`




Installation is running

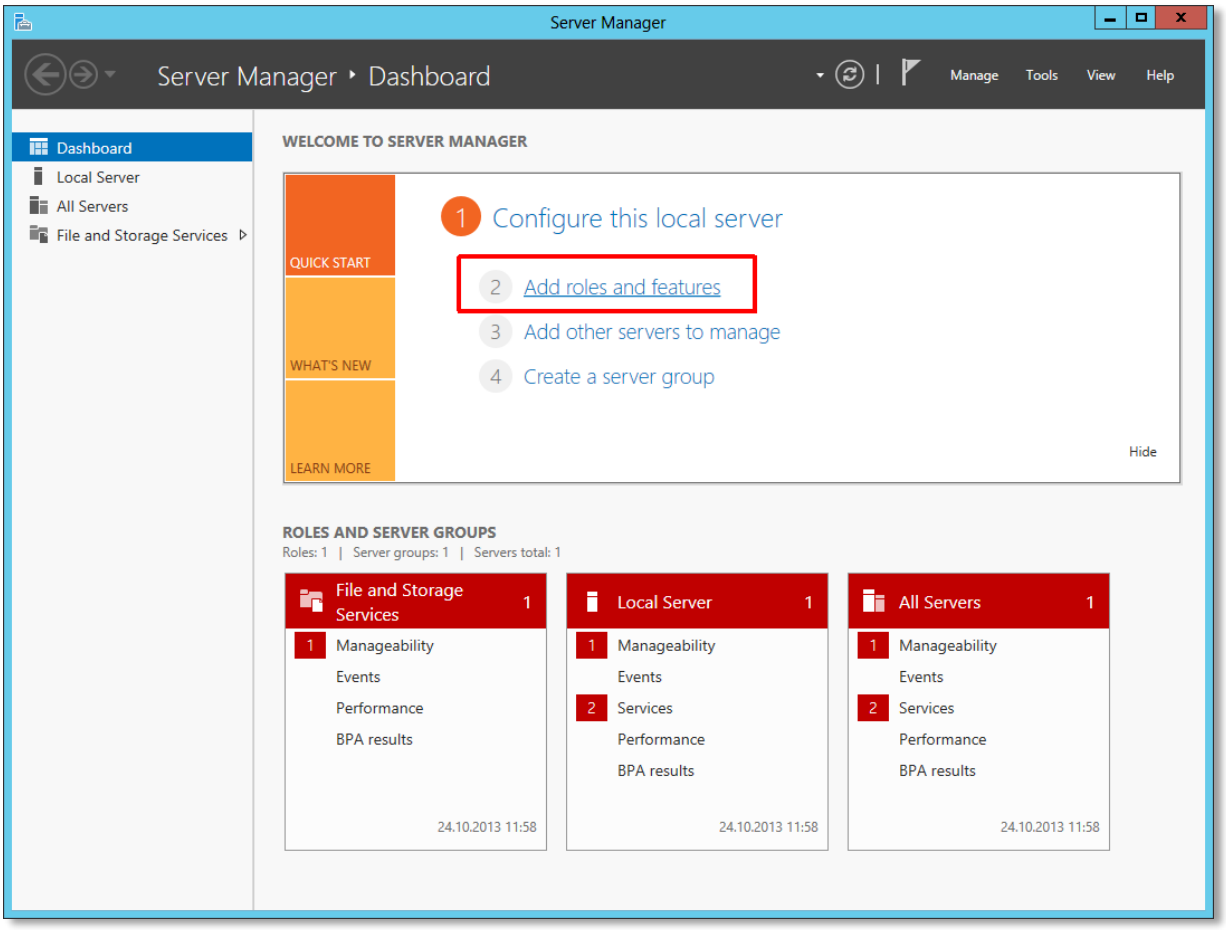


You must restart the server to finish the installation process, type `Restart-Computer` on the PowerShell console.

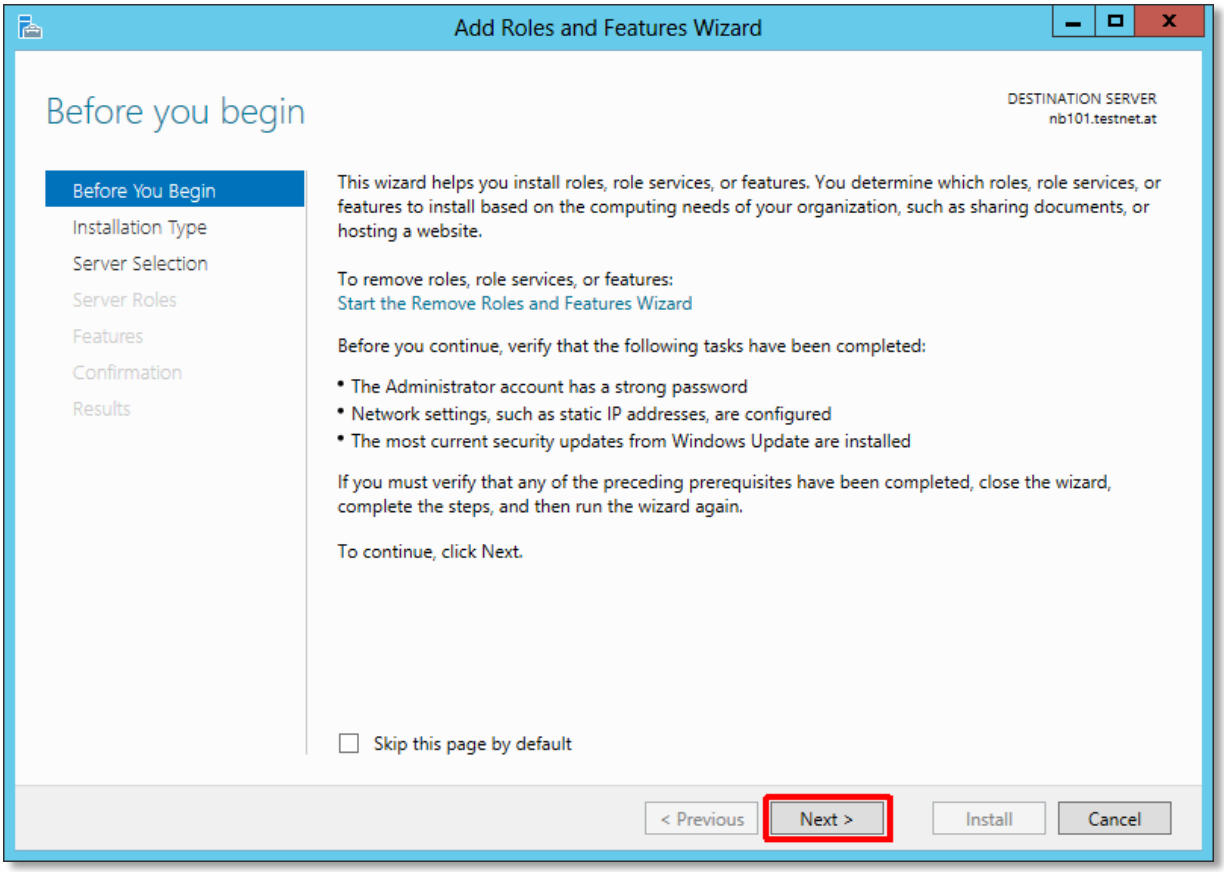



### 8.12.1.2. Installing Desktop Experience using Server Manager GUI

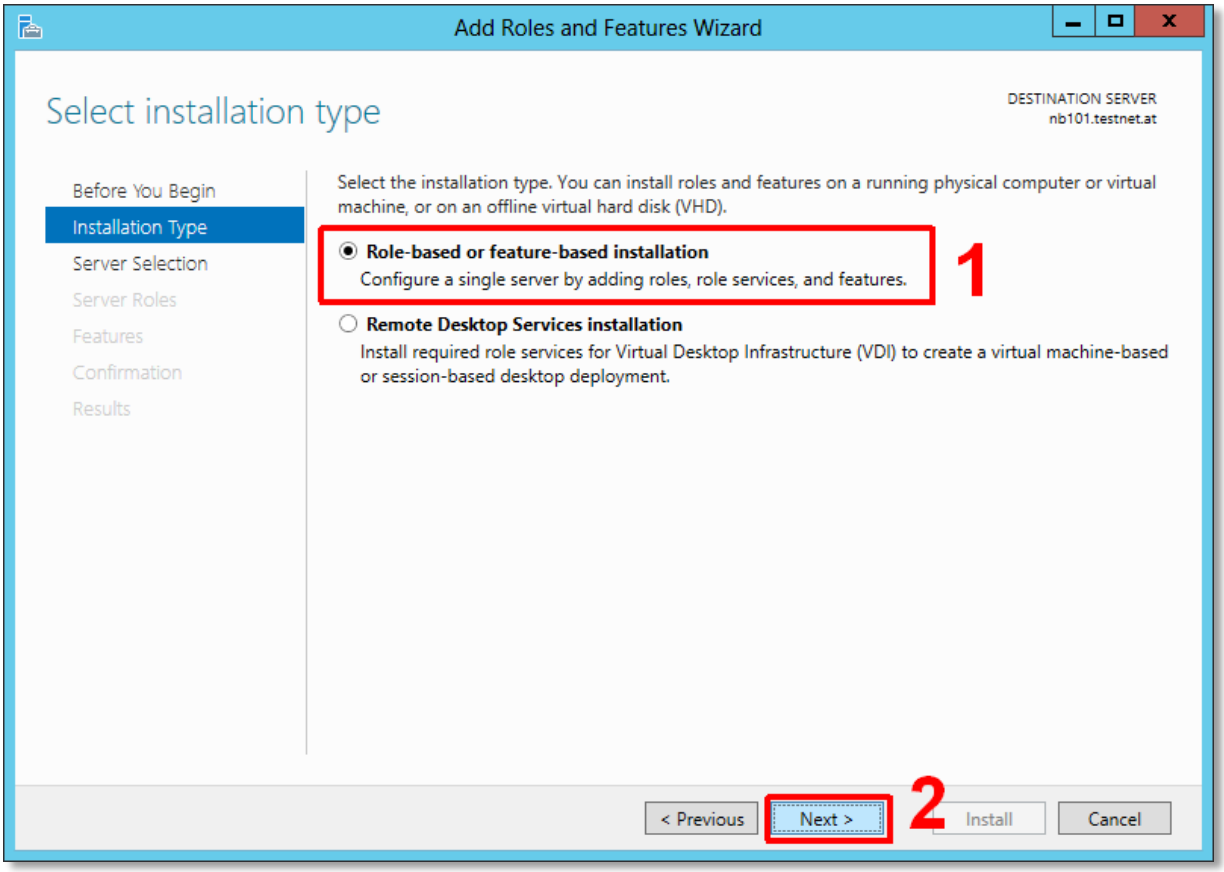
Select the 2nd option – Add roles and features



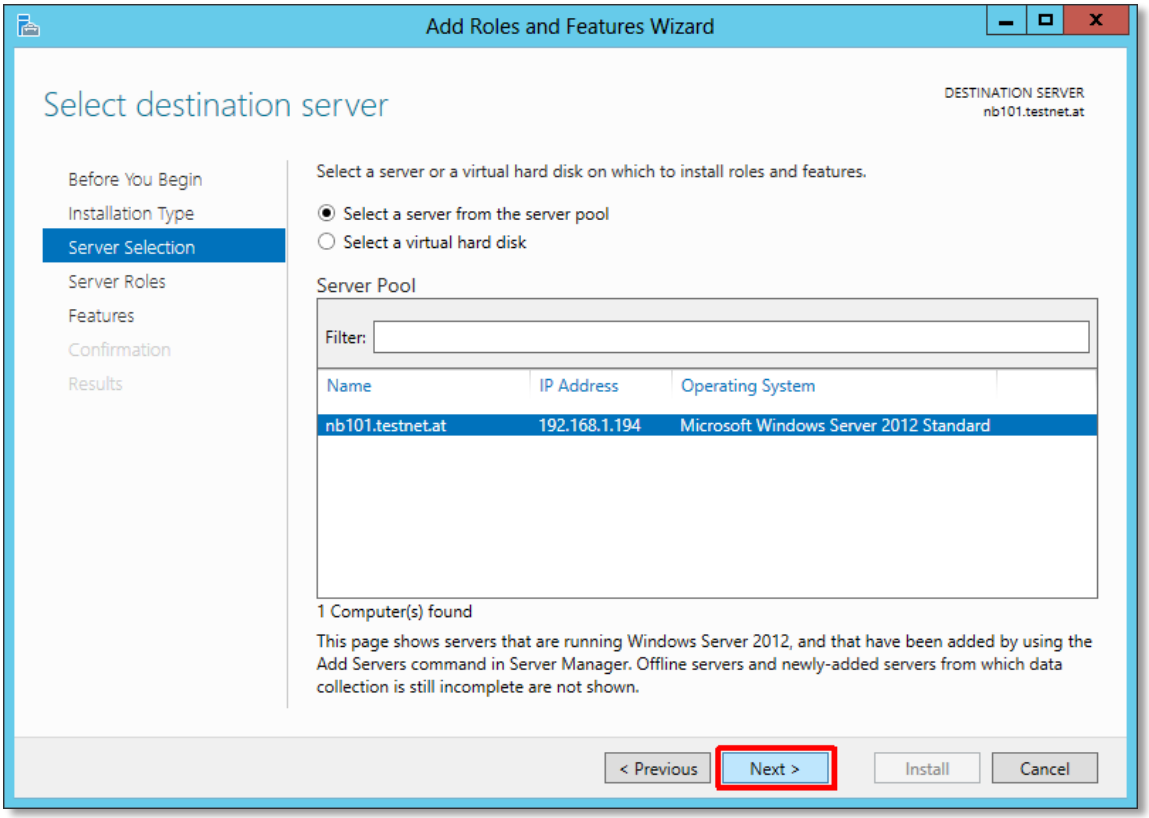
Click on Next



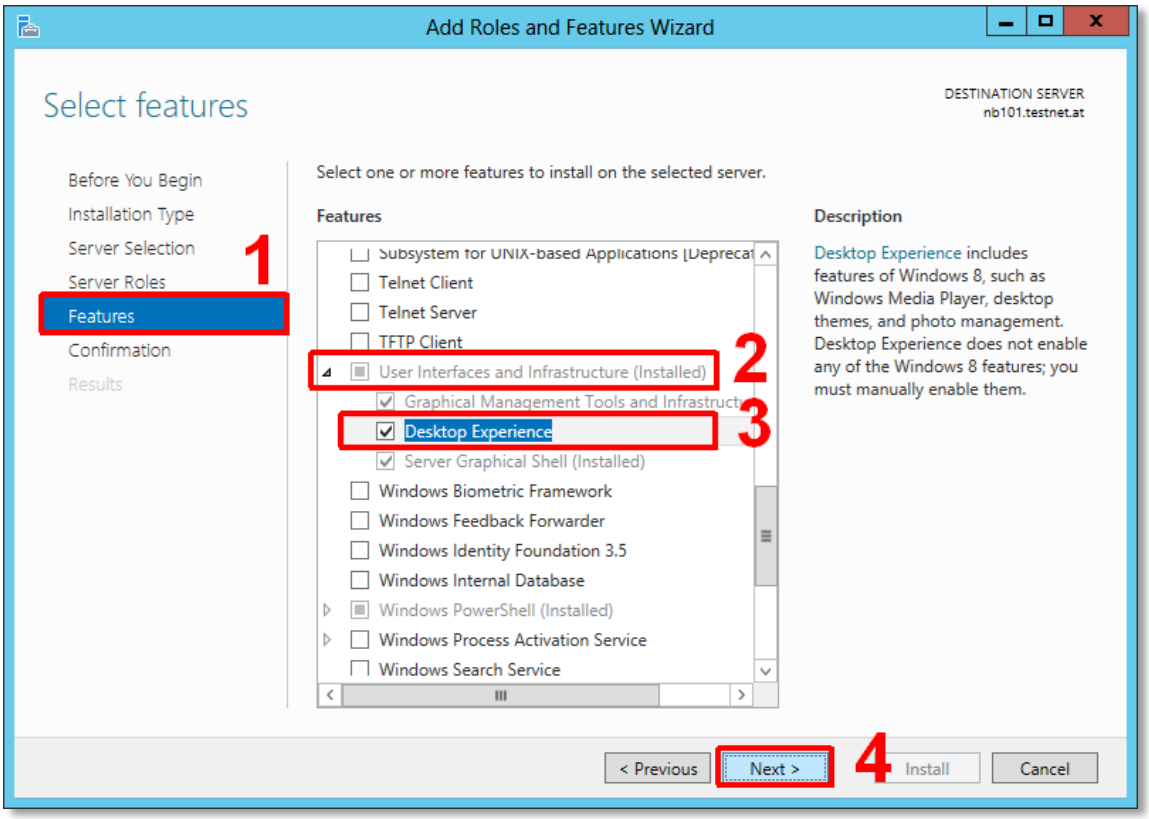

Select the first option [1] – Role-based or feature-based installation and click Next [2]



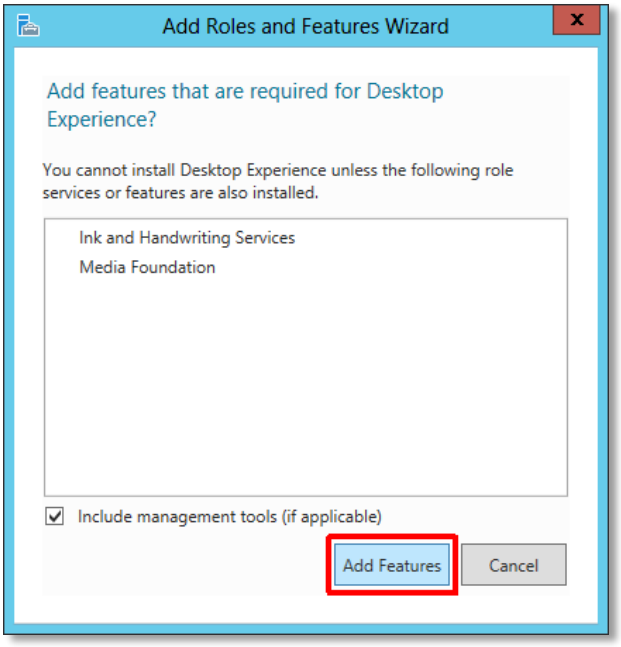
Click Next



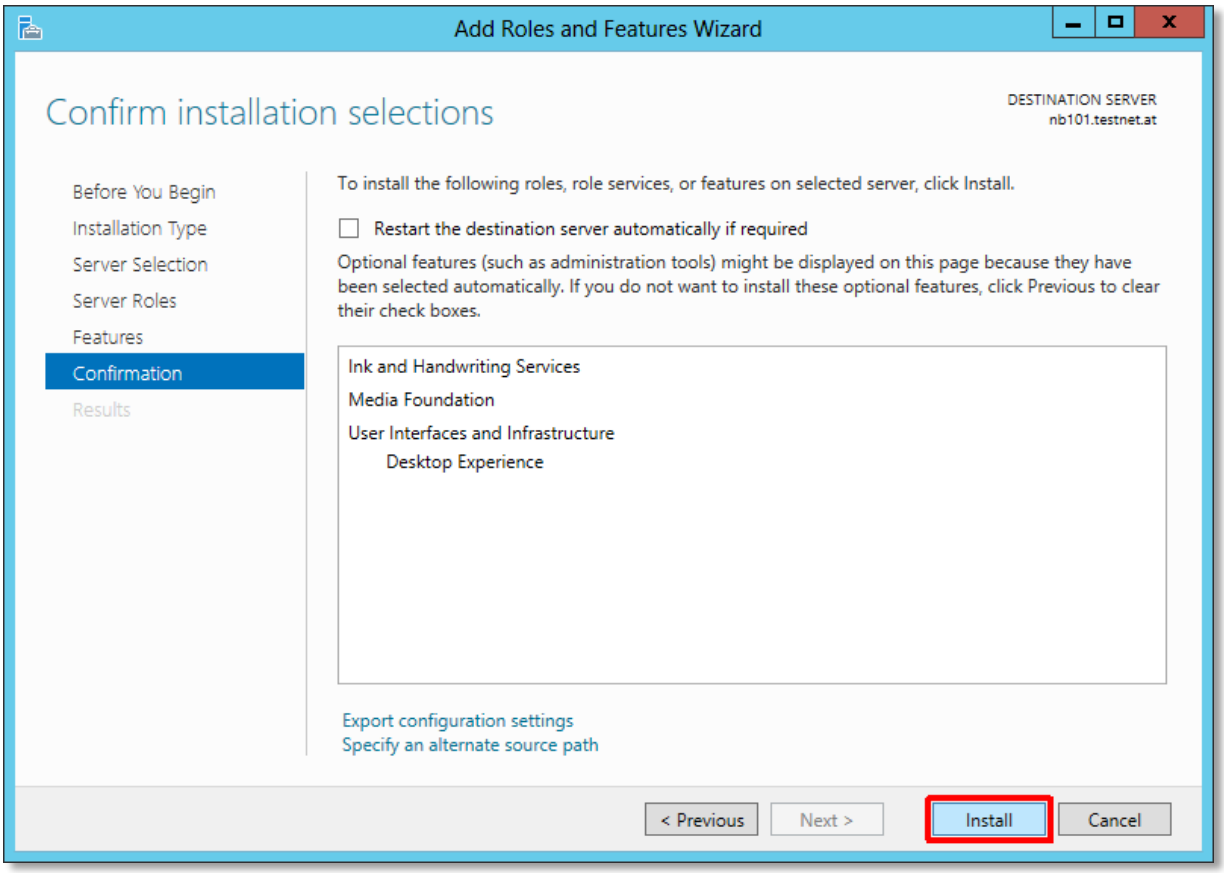

On the Features Menu [1] select the – User Interfaces and Infrastructure (installed)[2] and activate Desktop Experience [3] and click finally click on Next [4]



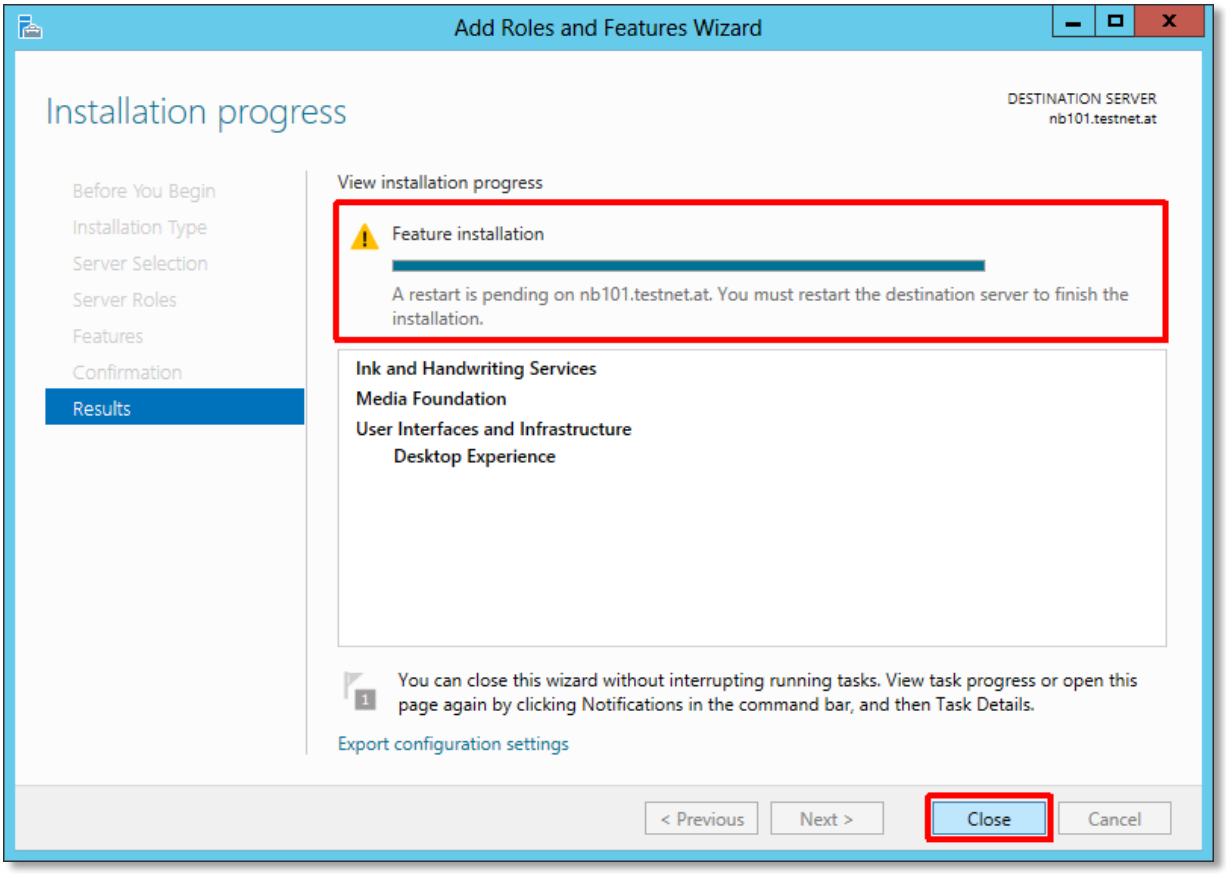
Required components will be installed – click Add Features



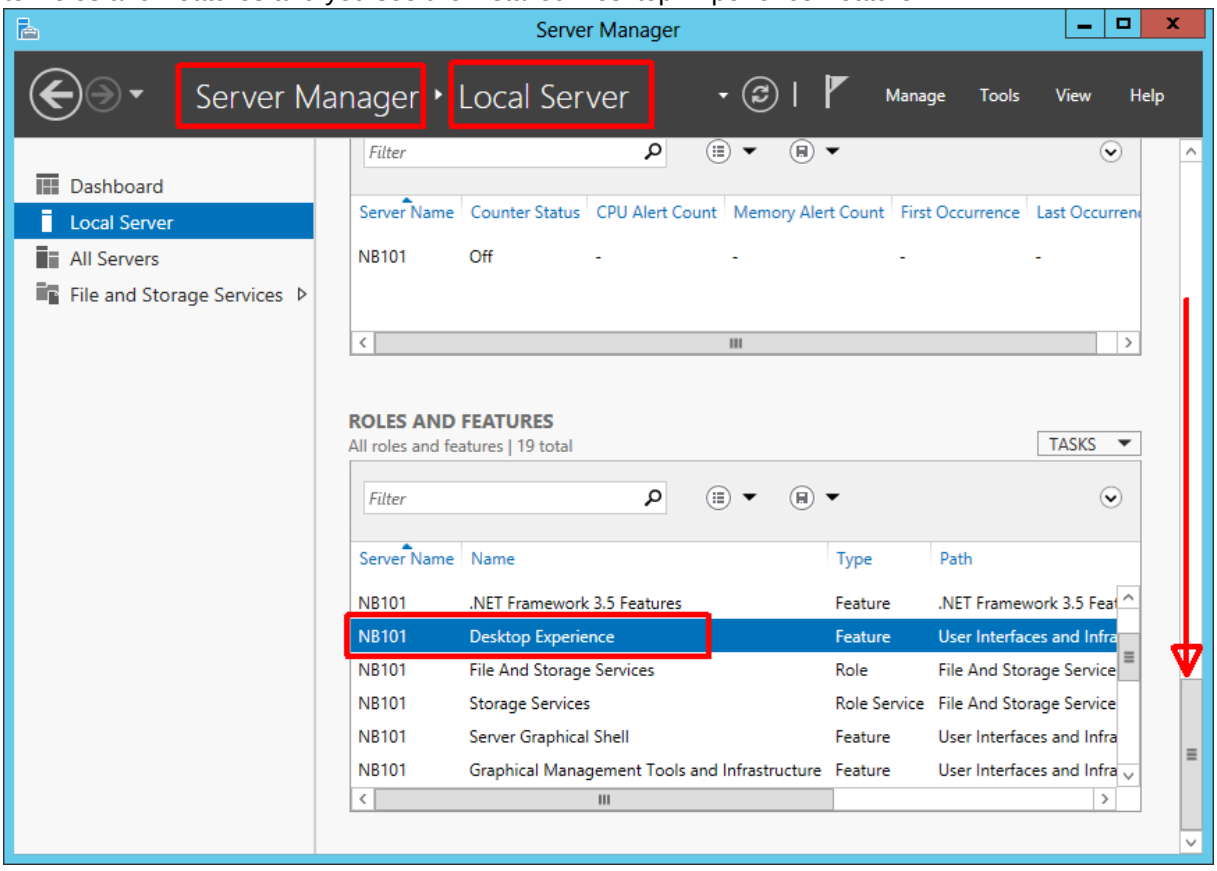

Finally click on Install



Installation is ready, click Close and restart your server.




After Restart please check the Installation – go to Server Manager, open Local Server, scroll down to Roles and Features and you see the installed Desktop Experience Feature.



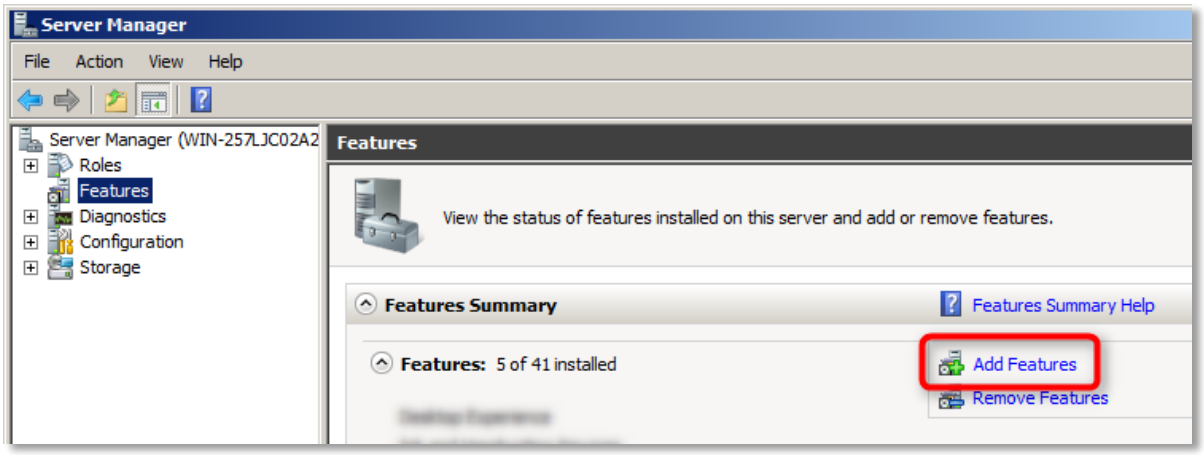
## 8.12.2. Microsoft Windows Server 2008

**NOTE:**
**The Server might need to be restarted after the installation completes.**

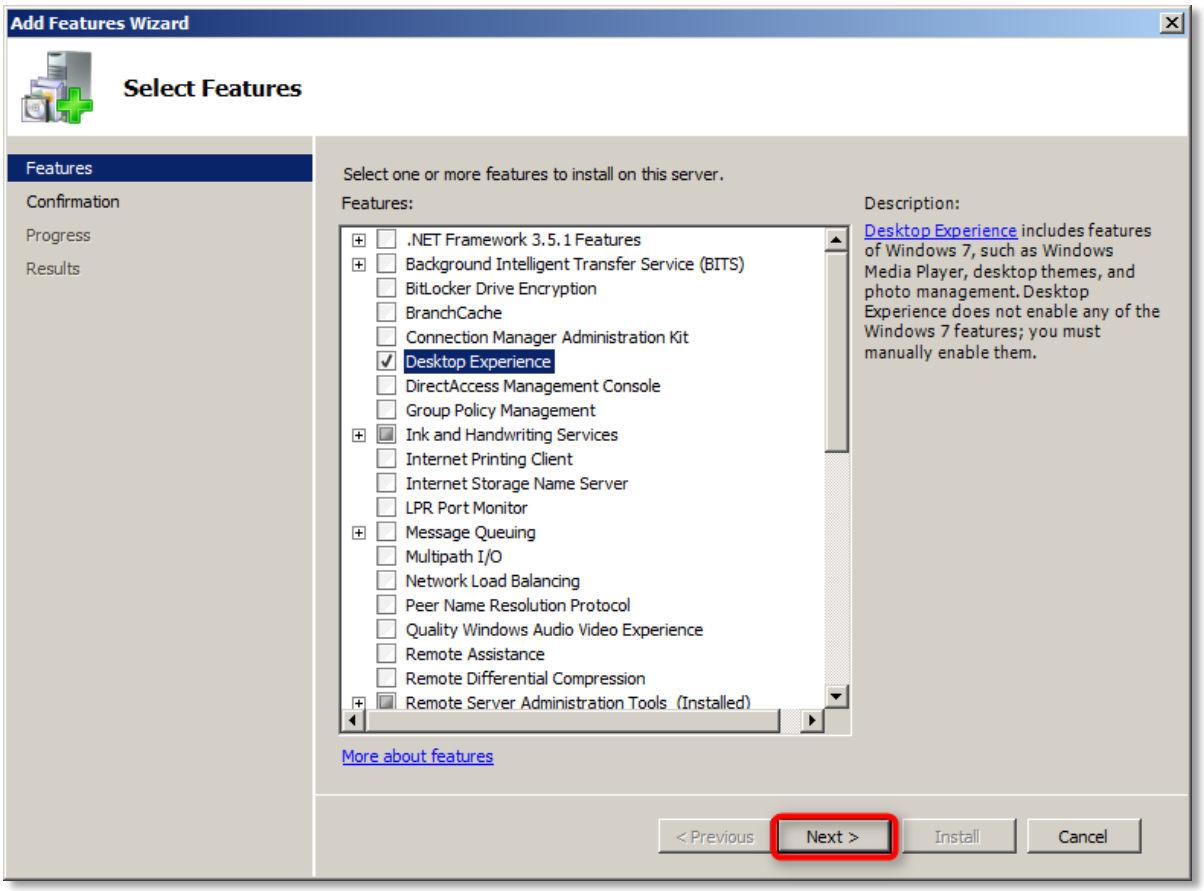
The Desktop Experience feature allows you to install a variety of components and features that are provided in the Windows 7 operating system onto a computer that is running the Windows Server 2008 R2 operating system

Open Server Manager: click **Start**, point to **Administrative Tools**, and click **Server Manager**.

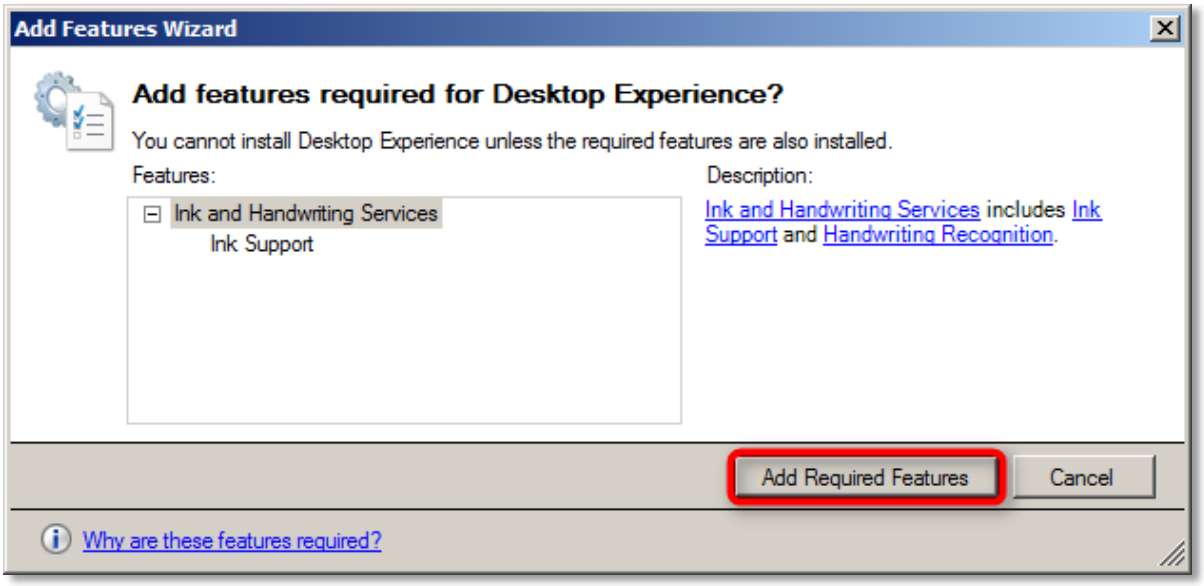
In the Features Summary section, click **Add Features**.



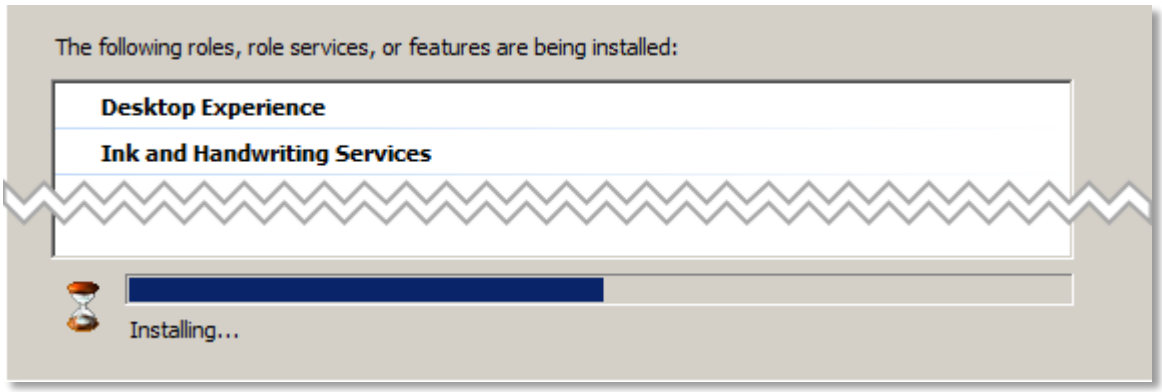

Select the **Desktop Experience** check box, and then click **Next**.



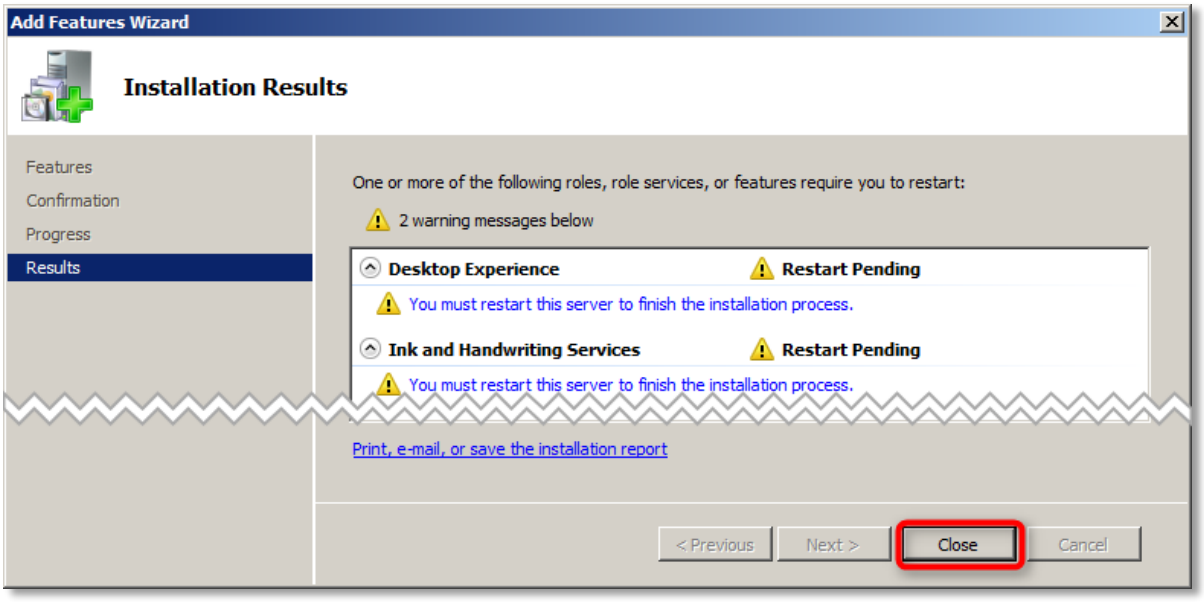
Click on **Add Required Features**



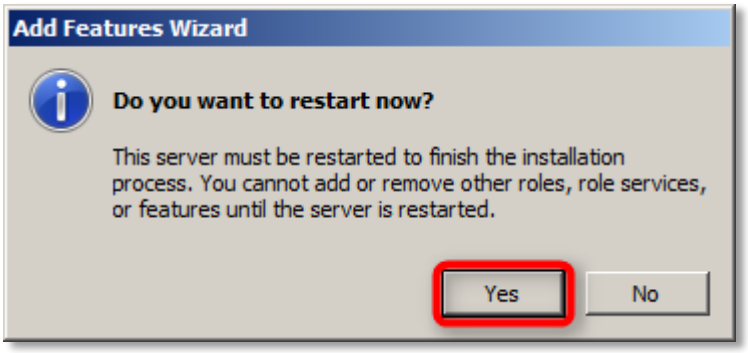

Required components will be installed.



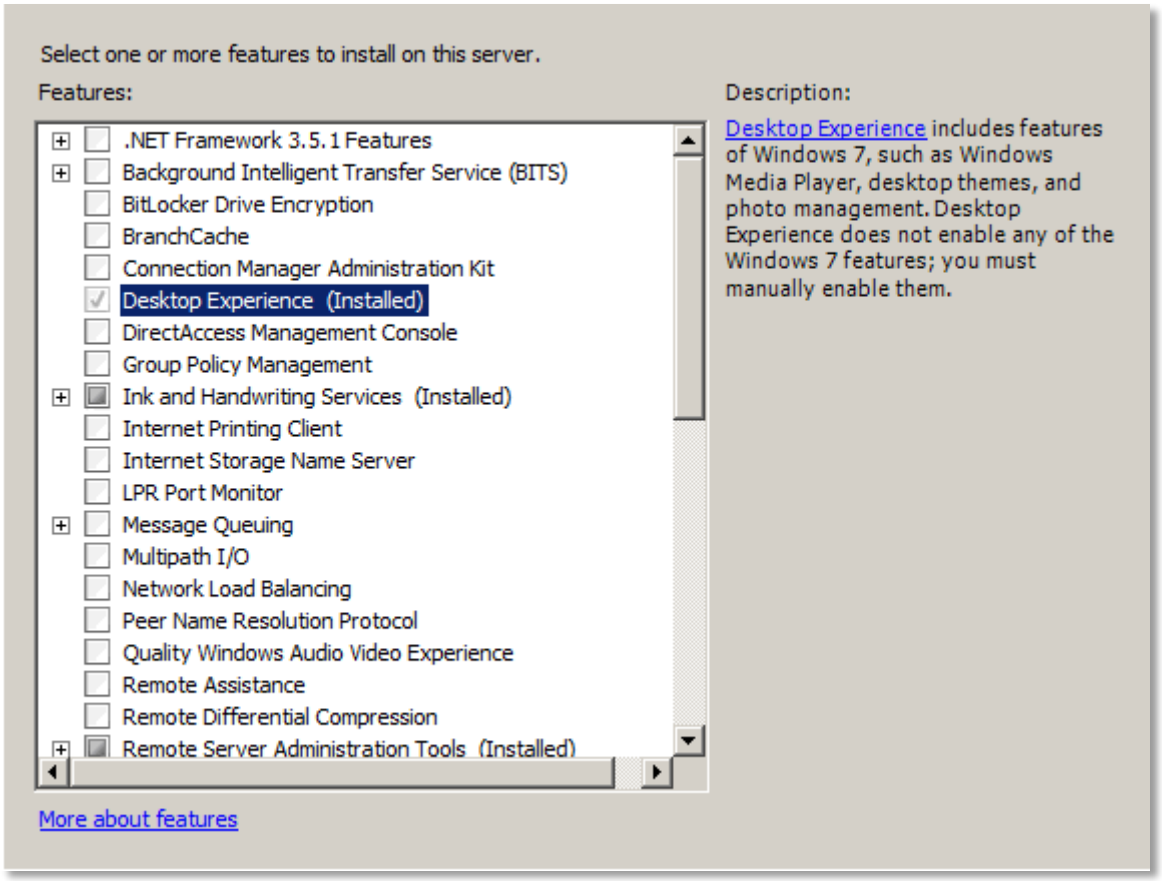

Click **Close**



Finally click on **Yes**




After Restart please check the Installation

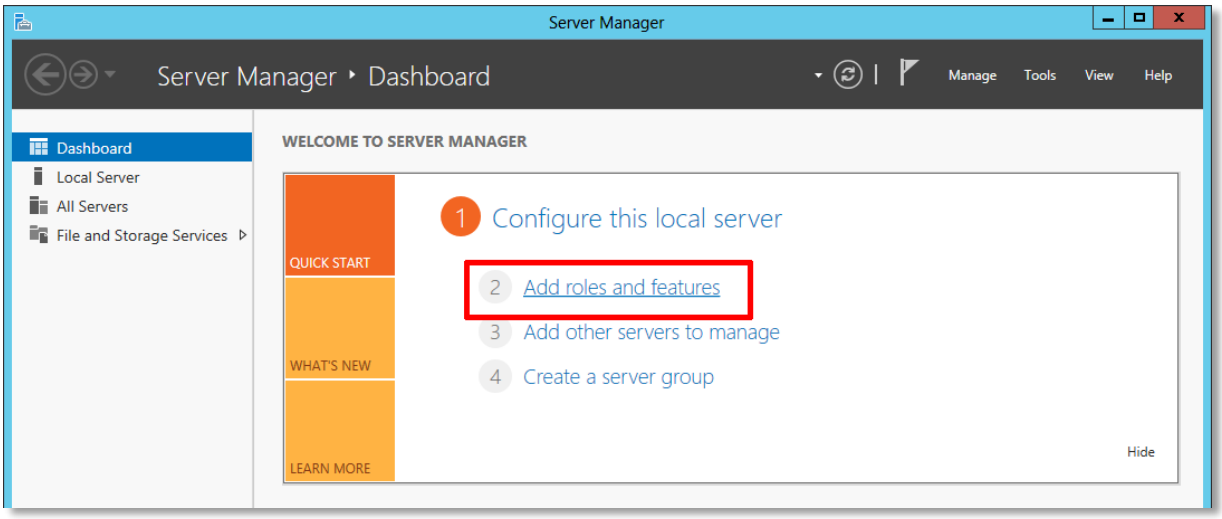



Now you can install SpeechExec Mobile Server.

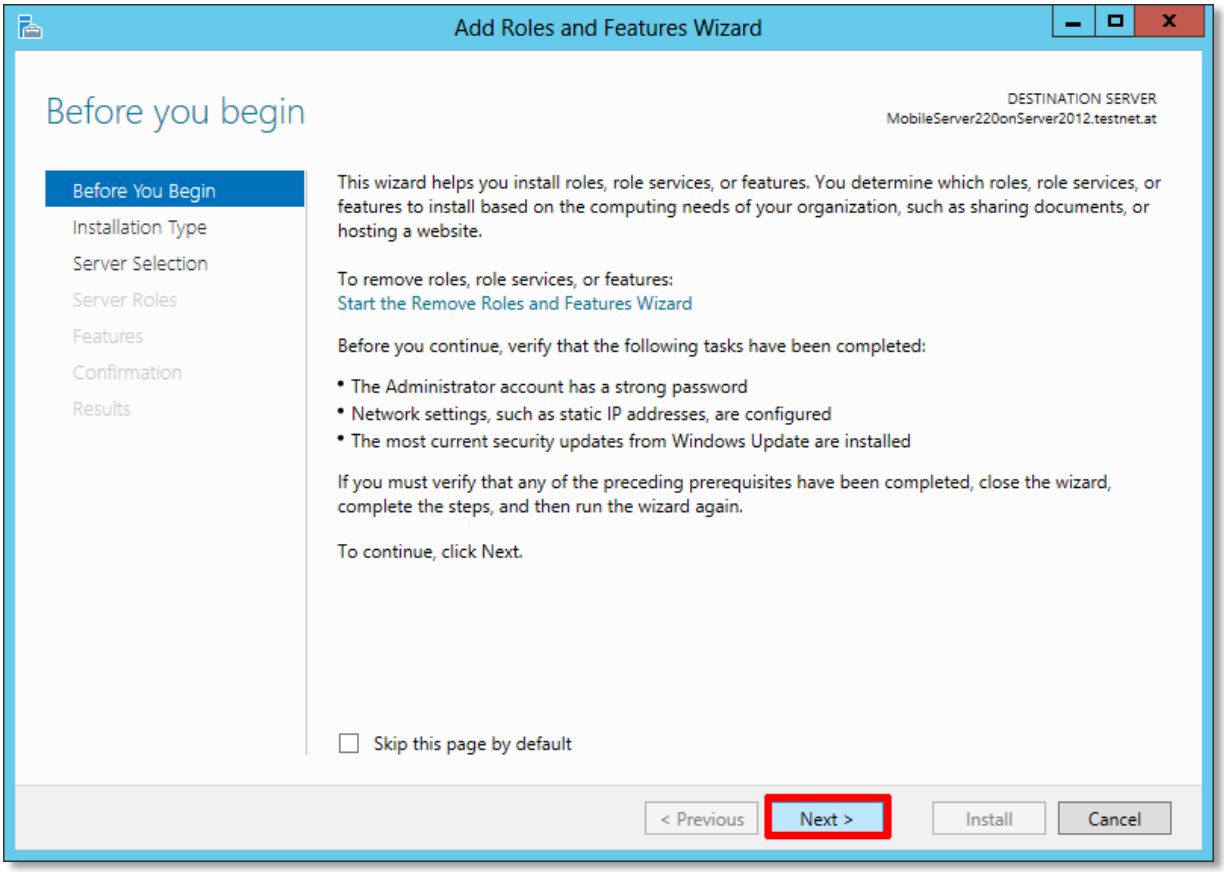
# 8.13. Installation Web Server

## 8.13.1. Windows Server 2012 IIS Web Server Installation

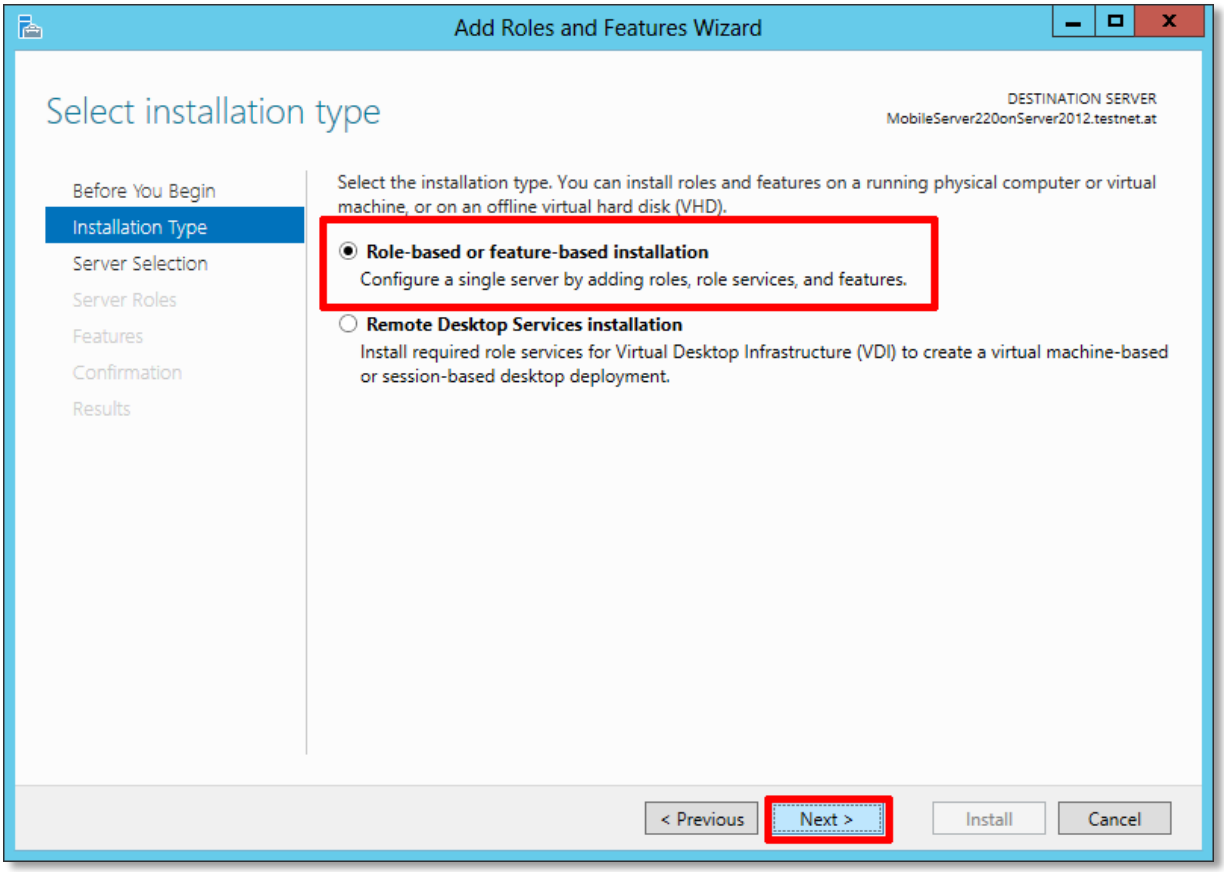
Click the Start button in the lower left corner of the display. Highlight Administrative Tools and select Server Manager. In the Server Manager interface select Add roles and features to displays a list of possible roles.



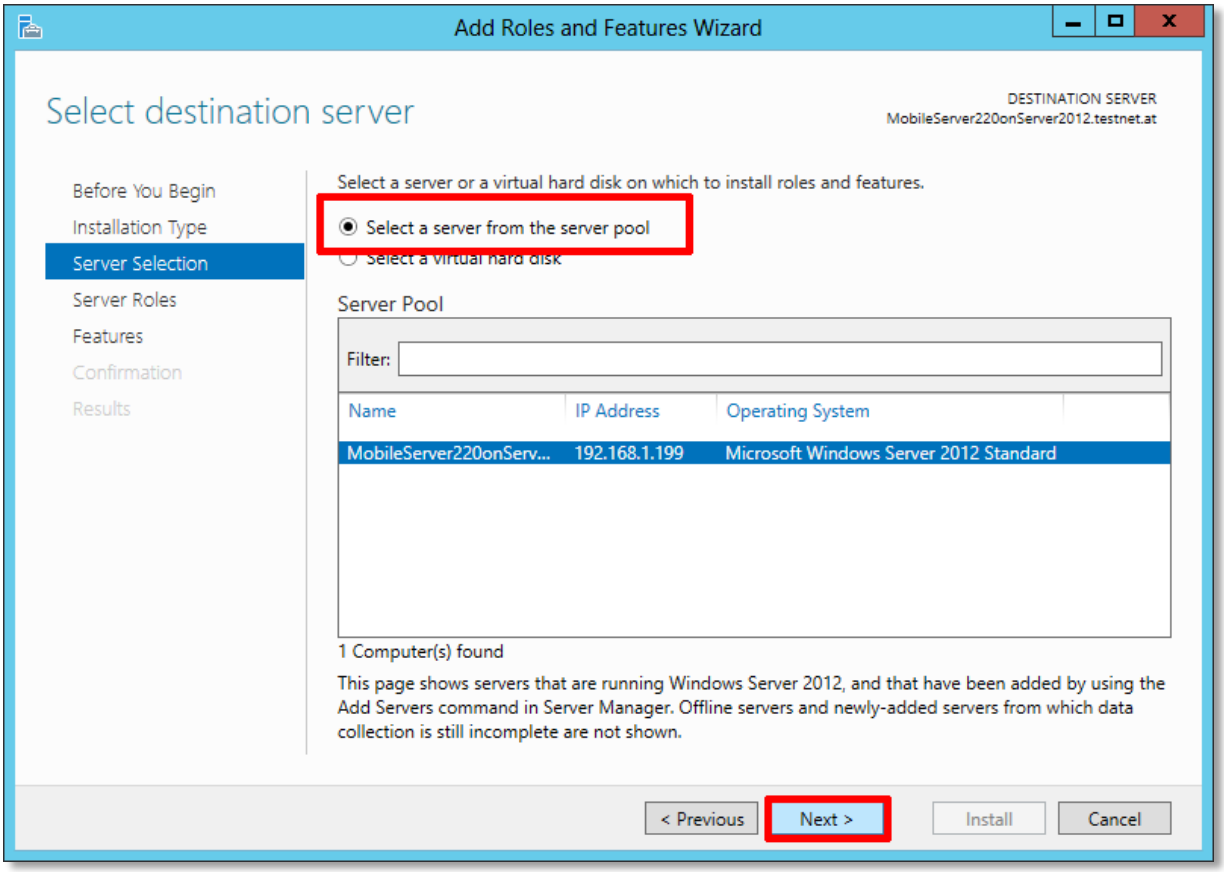

Click on Next



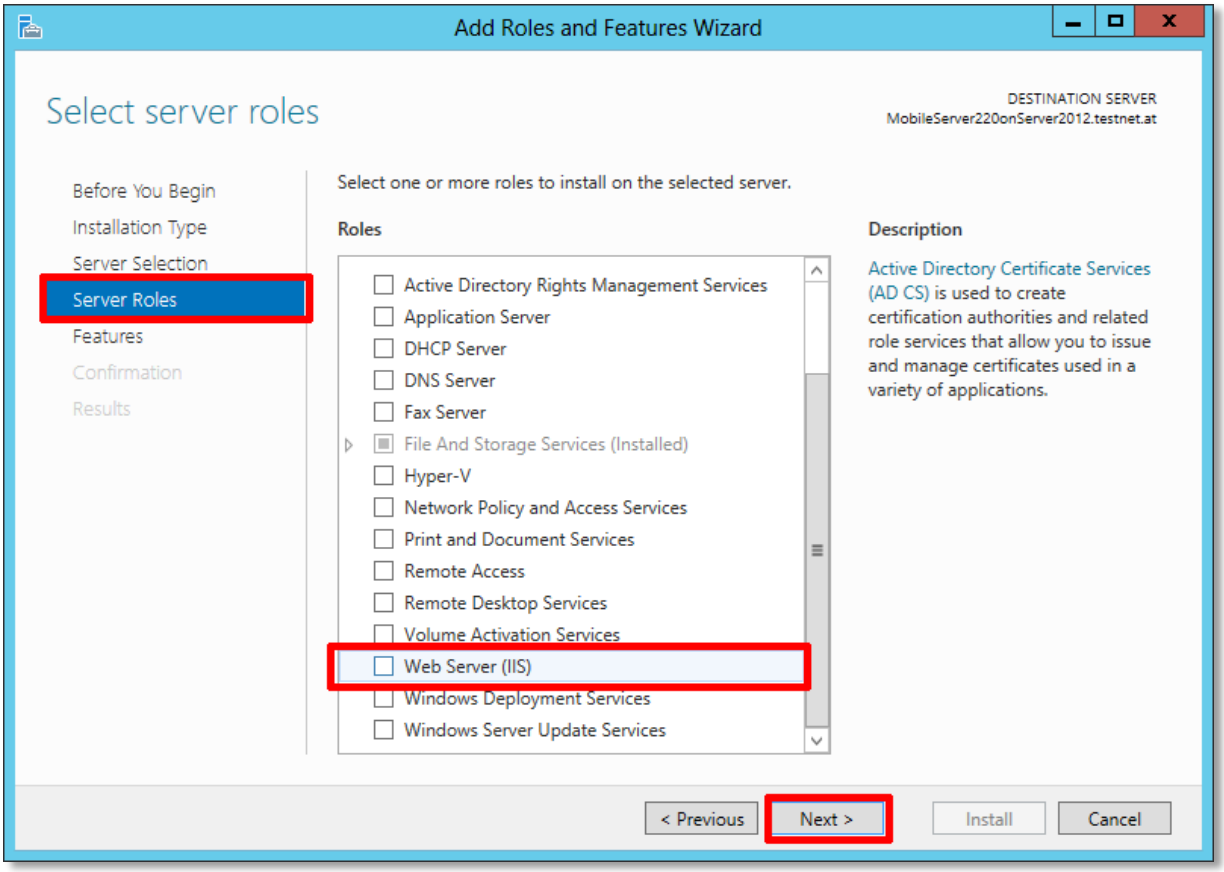
Click on - Role-based or feature-based installation and click on Next



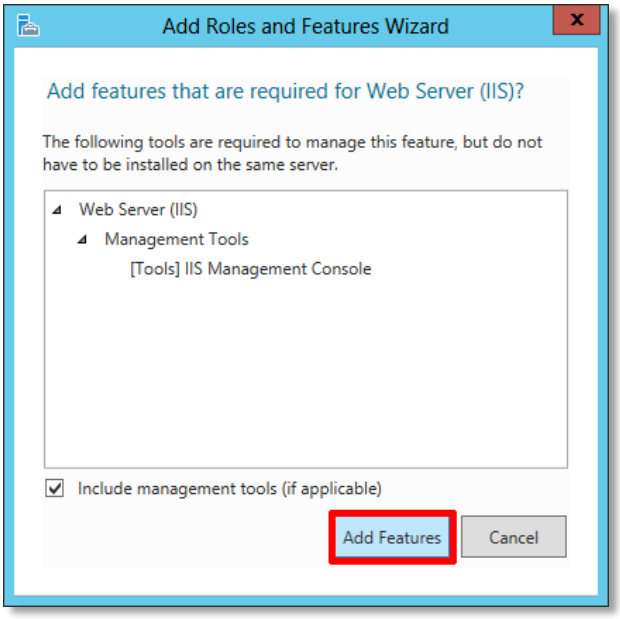

Select a server from the pool and click on Next



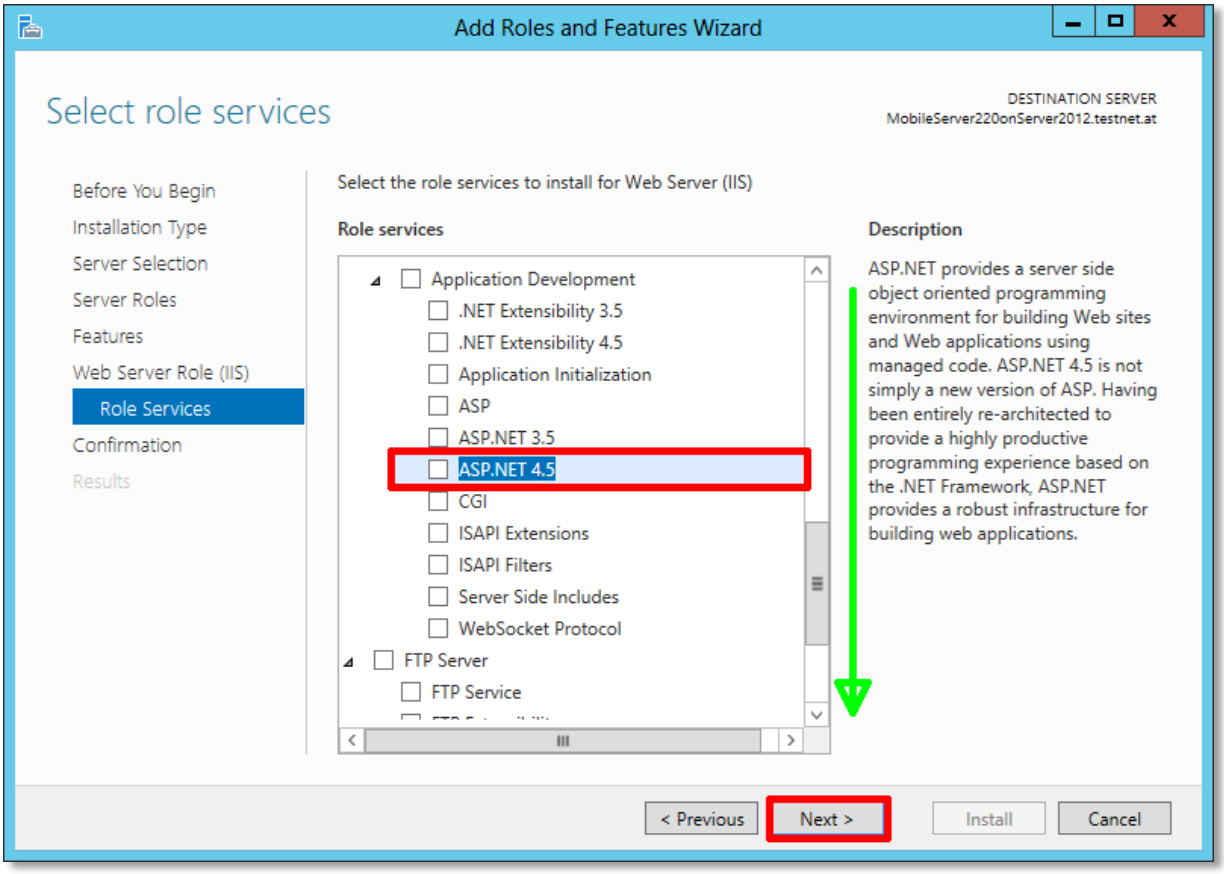
Click on Server Roles Web Server IIS and click on Next



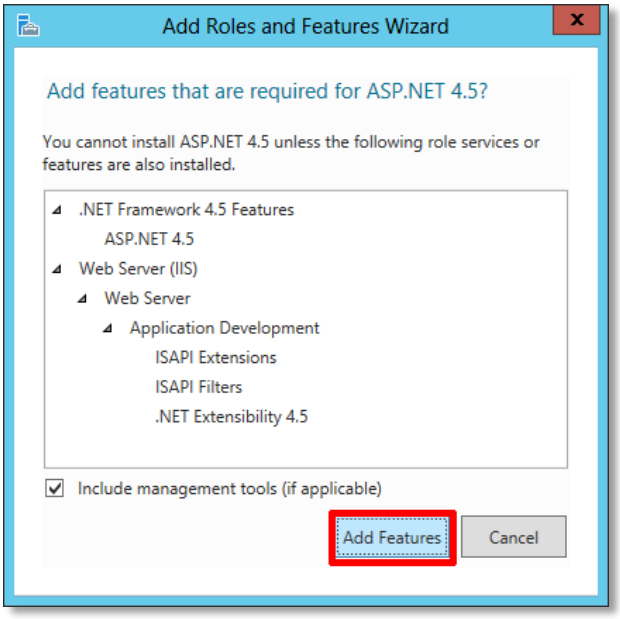

Add the required features for the installation



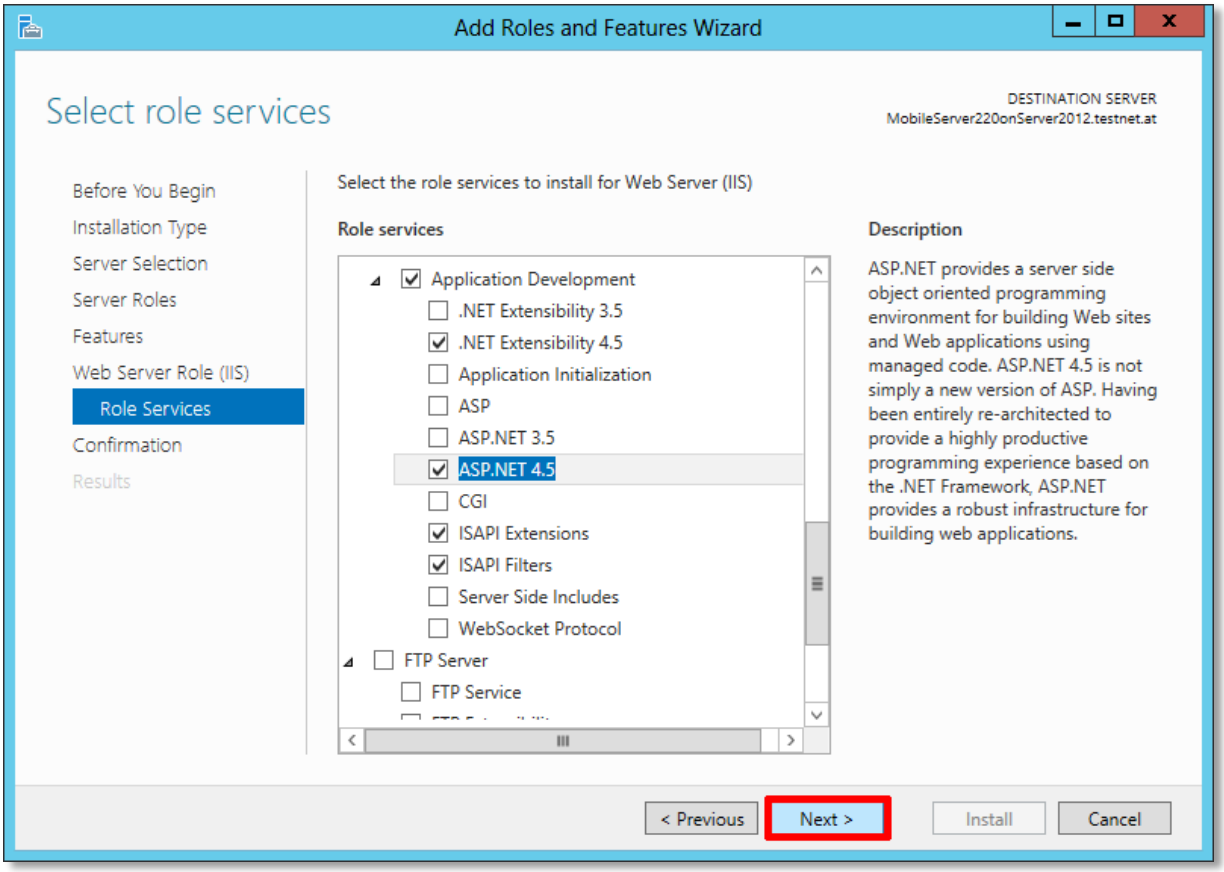
Scroll down to Application Development and select ASP.NET 4.5, click on Next



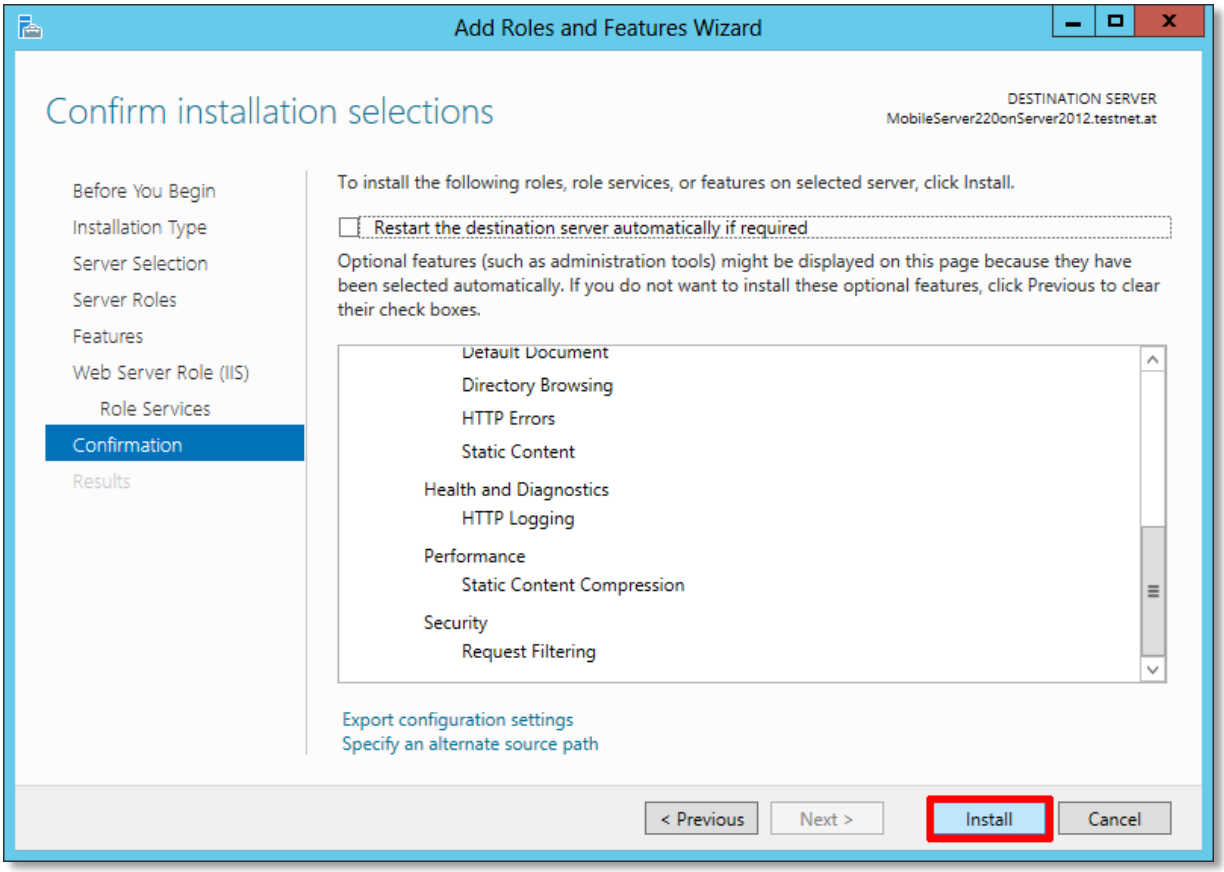

Add the required features for the ASP.NET 4.5 installation and click Add Features



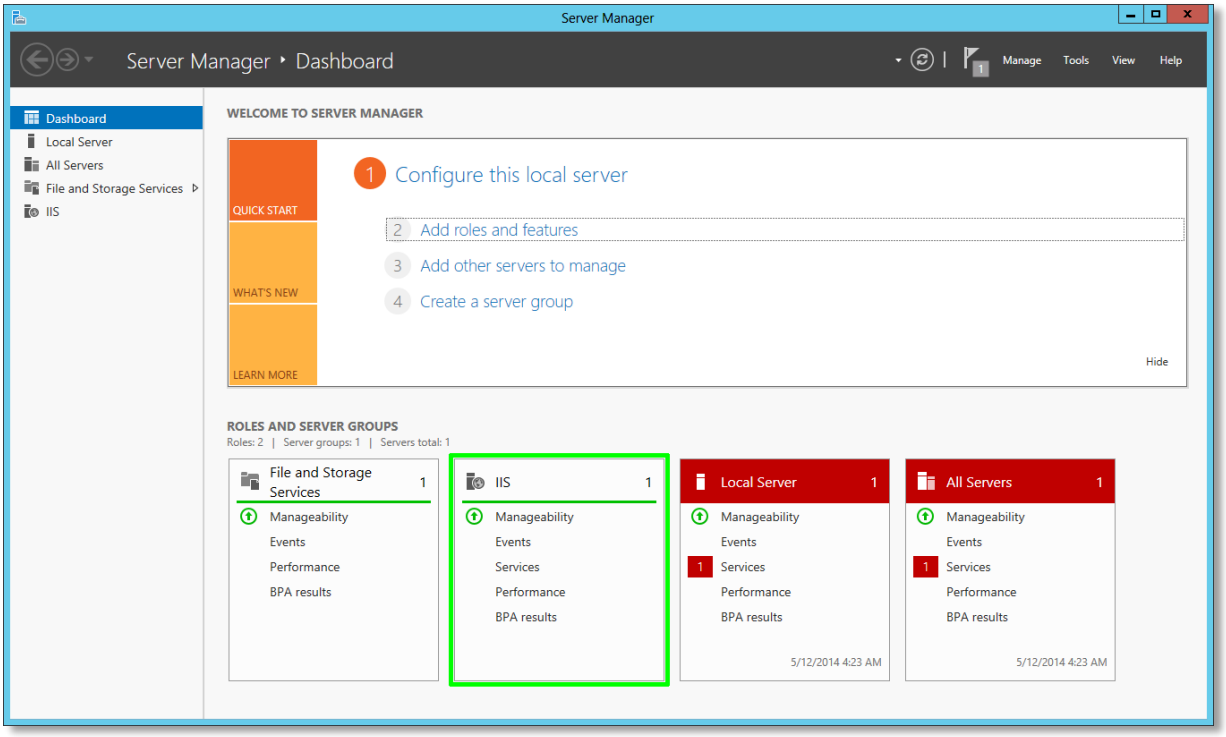
Click Next



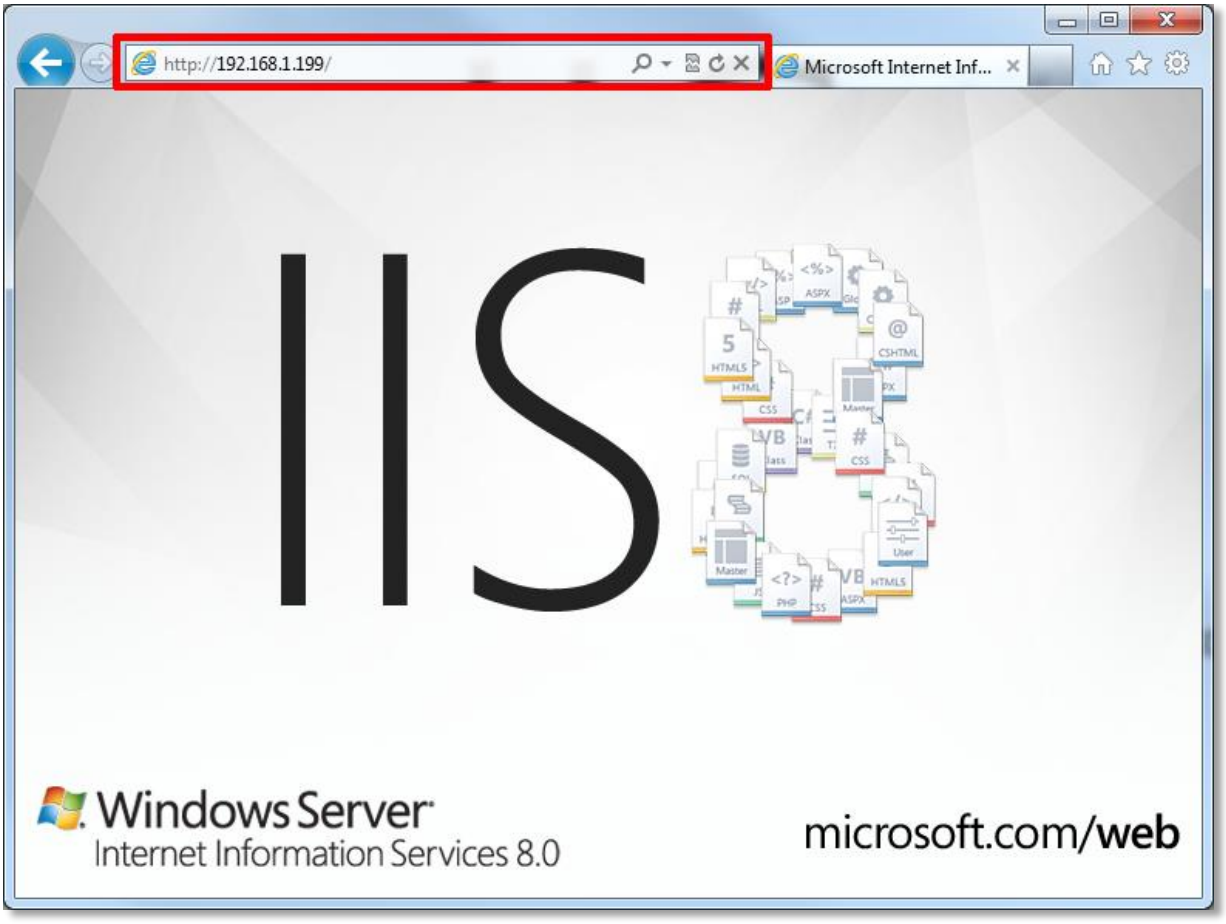

All the components are prepared for installation. Click on Install



The installation is ready, new Field IIS is available (green border)

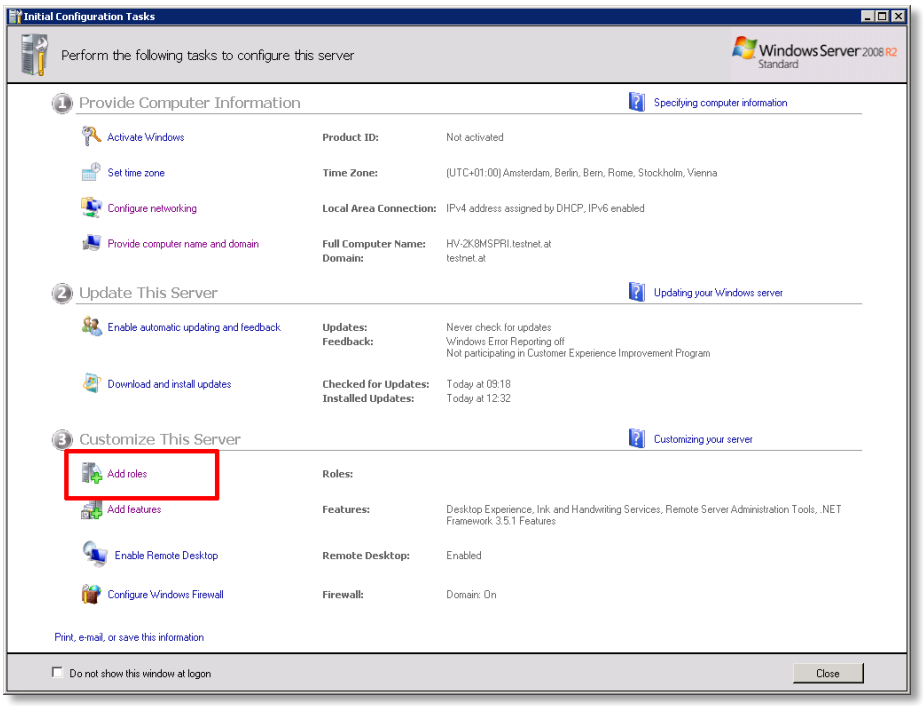



Open the Web browser, type the local IP address and check the installation.

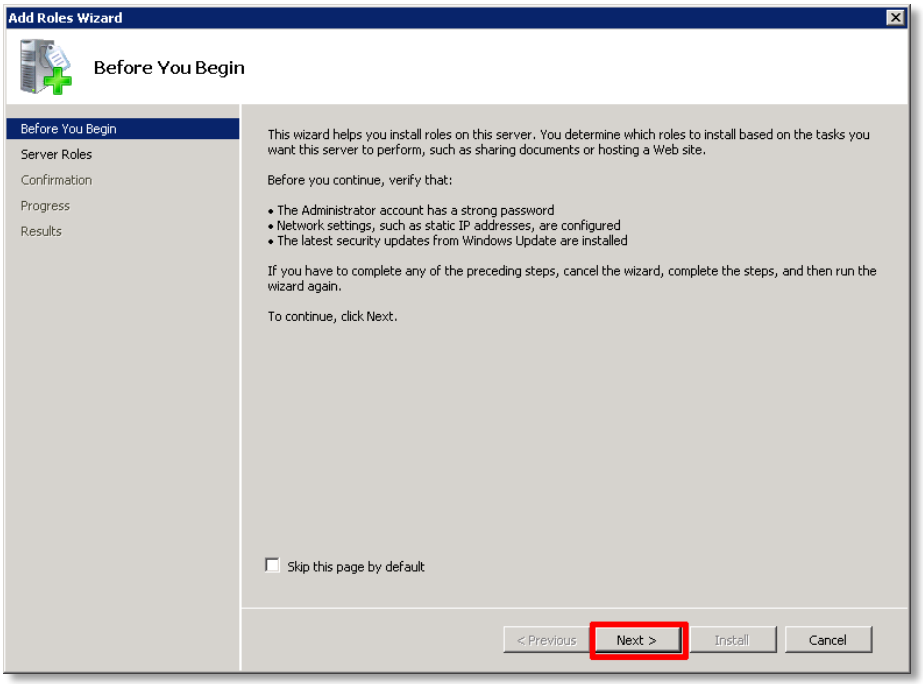


## 8.13.2. Windows Server 2008 R2 IIS Web Server Installation

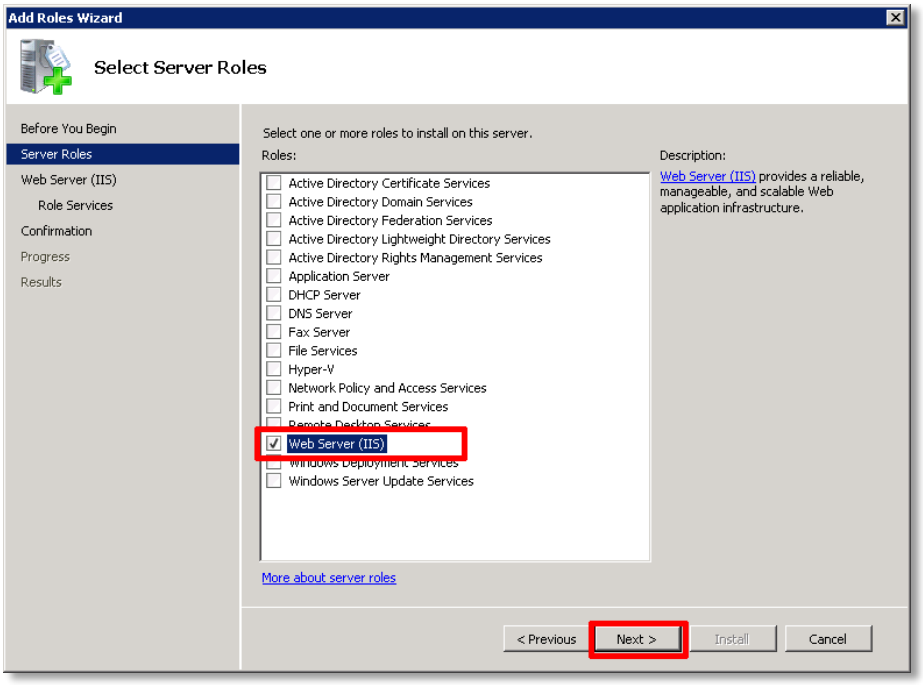
Click the Start button in the lower left corner of the display. Highlight Administrative Tools and select Server Manager. In the Server Manager interface select Add roles to displays a list of possible roles.



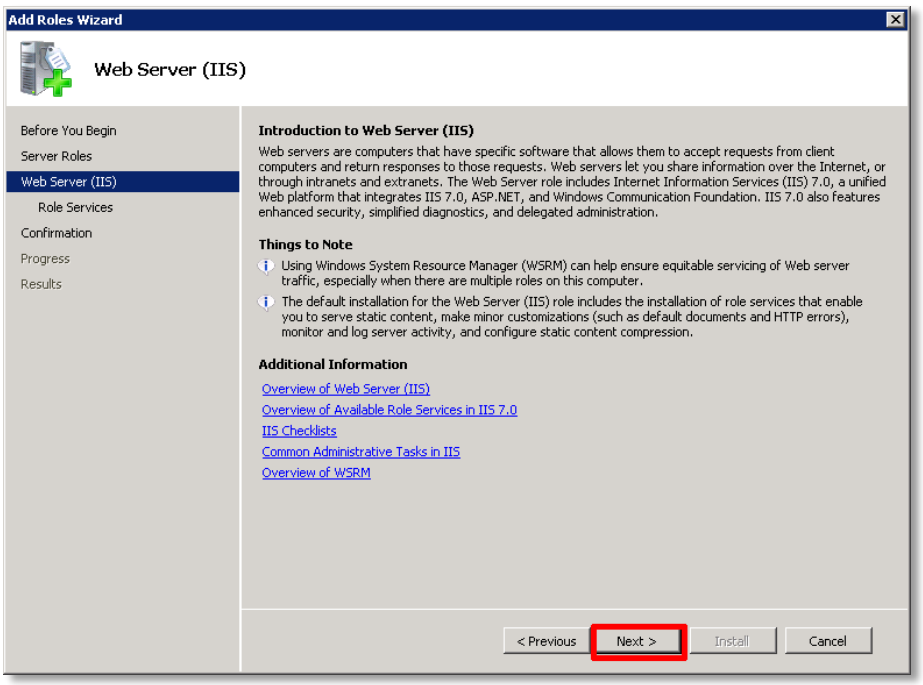

The Add Roles Wizard will start with a Before You Begin page. The wizard asks for verification of the following:
The administrator account has a strong password.
The network settings, such a IP addresses, are configured.
The latest security updates from Windows Update are installed – click on NEXT



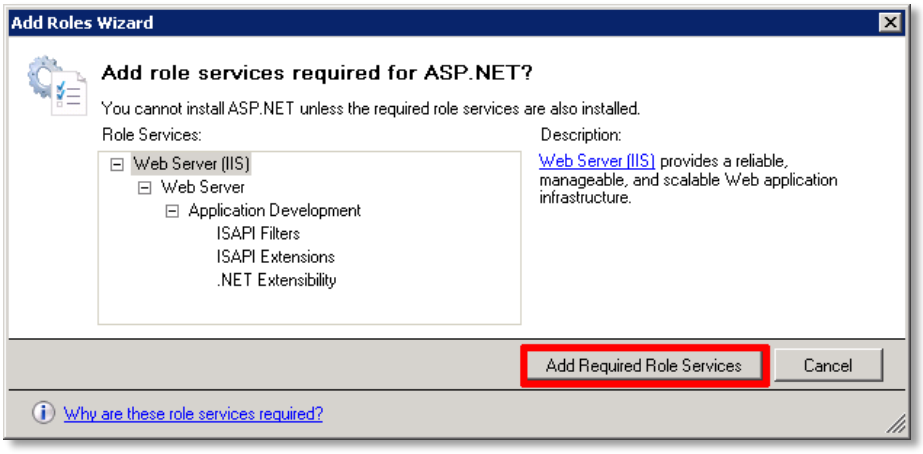
Select Web Server IIS and click Next



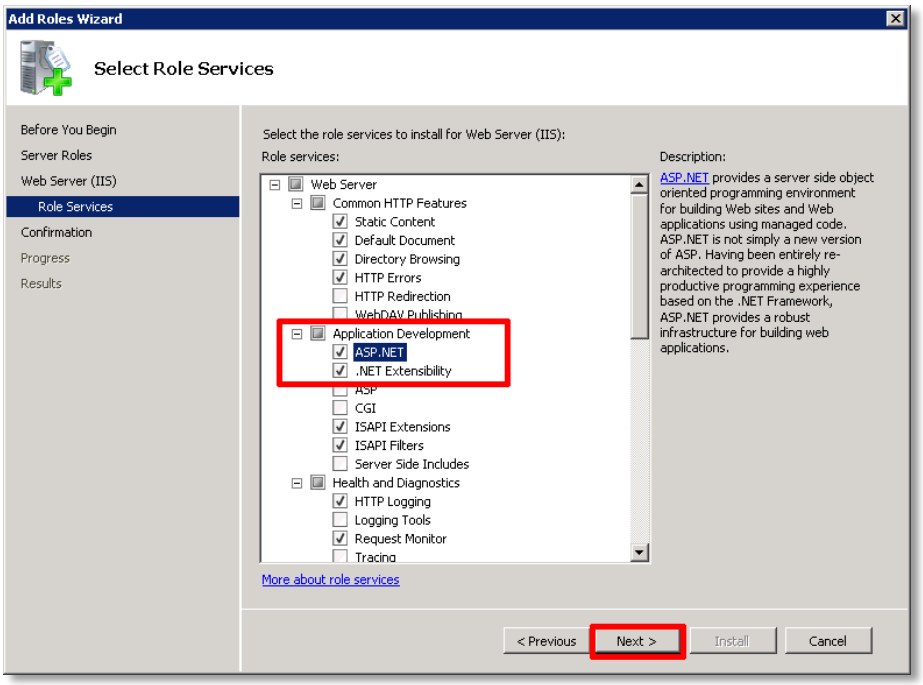

An introductory page will open with links for further information,
Click Next



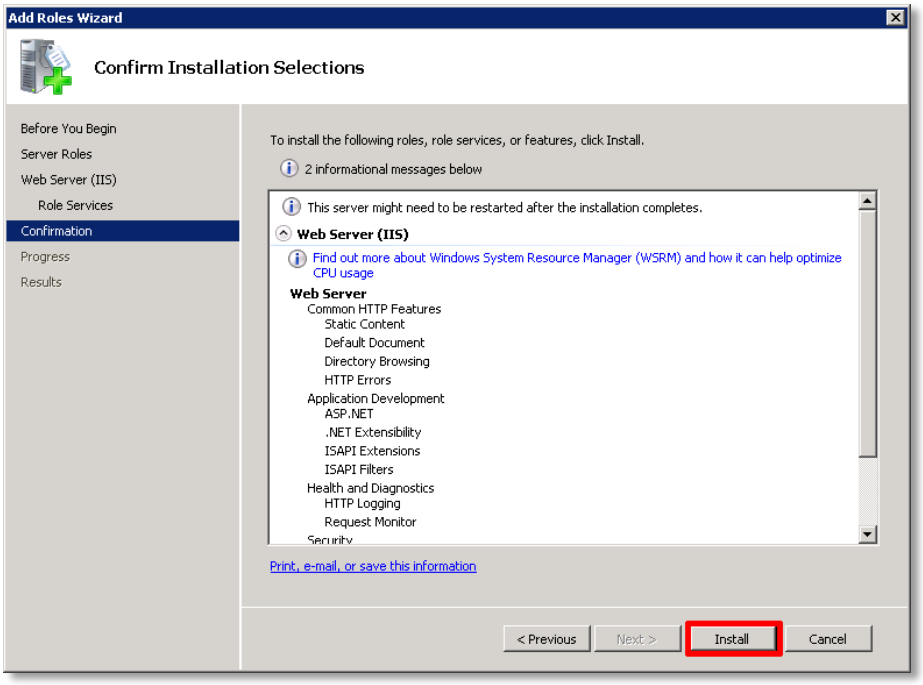
Click Add Required Role Service



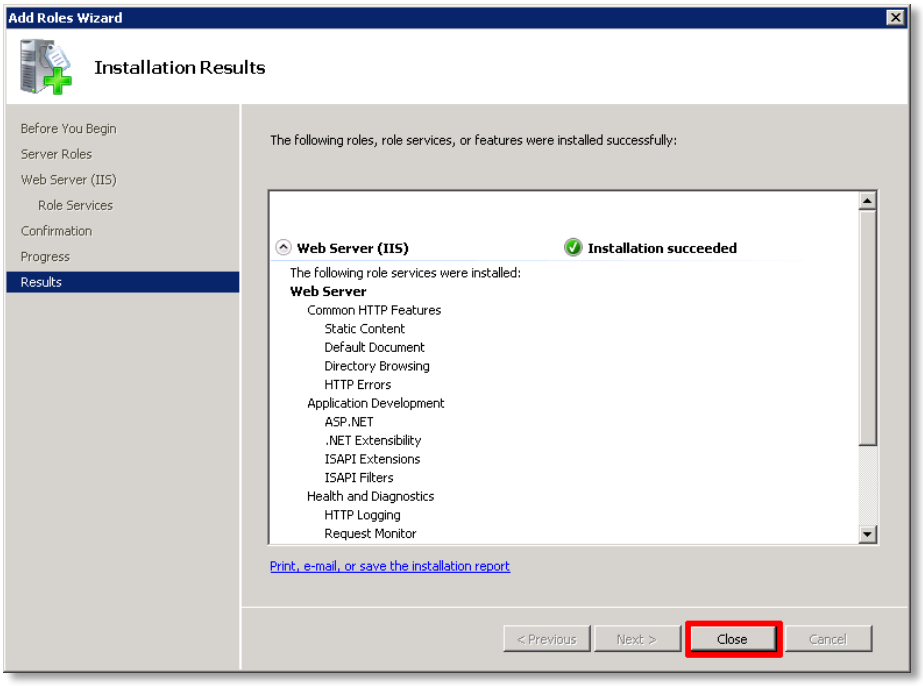

Add the ASP.NET Module and .NET Extensibility and click Next.



Click Install




IIS is now installed with a default configuration for hosting ASP.NET on Windows Server. Click Close to complete the process.



Now open you web browser and check the installation. Start the Internet Explorer Enter the localhost IP address (127.0.0.1) or type only http://localhost. You should see the default IIS Welcome page.

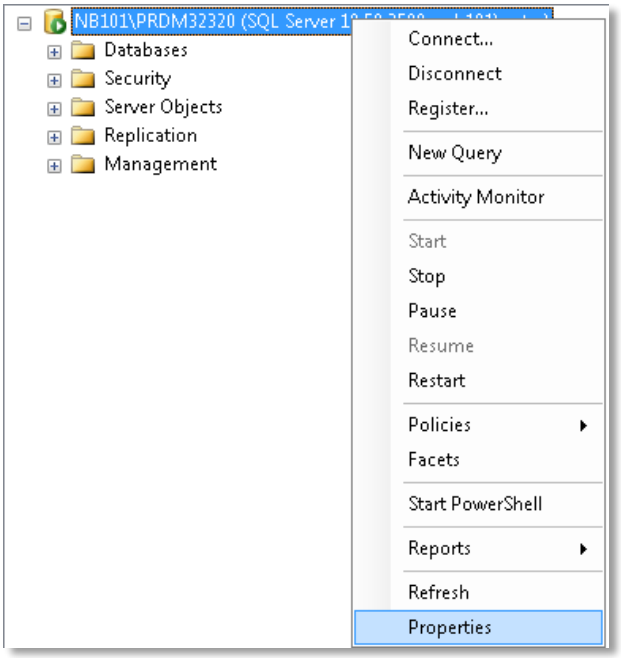
## 8.14. Connection with external MSSQL 2008 Server

The connection to an external database is explicit not a recommended installation method for the SpeechExec Mobile Server. However, the use of an external data base is technically possible but complicates the maintenance process.

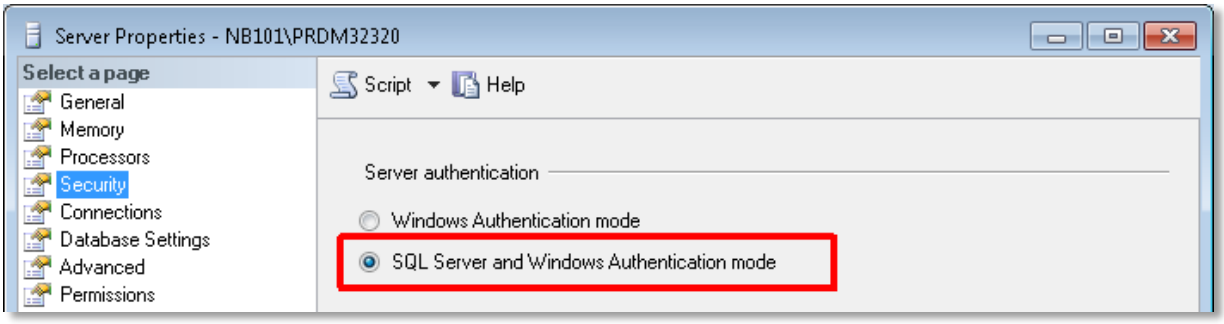
- Install the Microsoft SQL server with the default settings.
- Install the Microsoft SQL Server management Studio.

Open the Management Studio and connect to the engine you would like to use it.

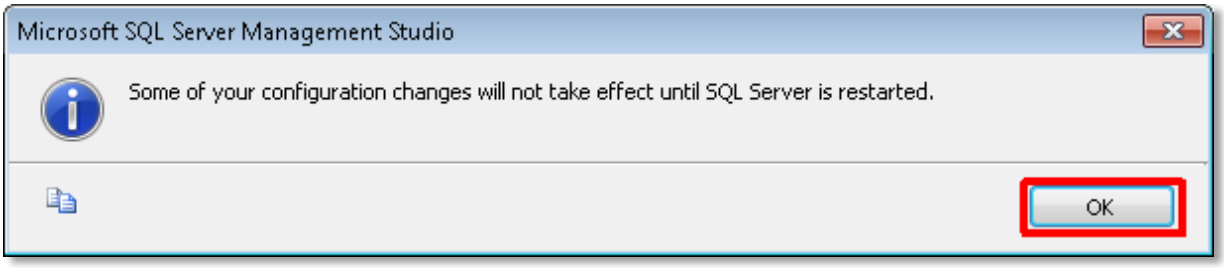
Click with the right mouse button on the database engine you are connected to and click on Properties.



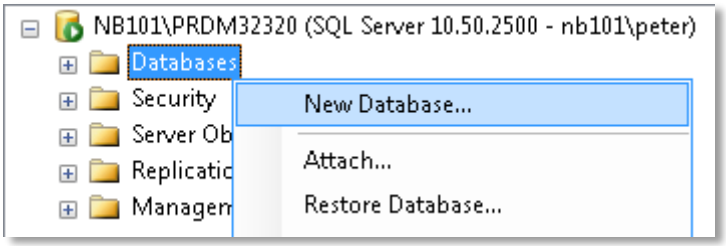
Select Security and switch server authentication to SQL Server and Windows Authentication mode.



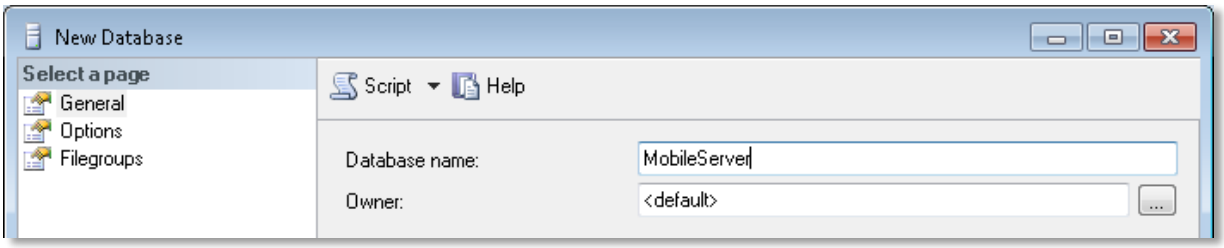

Click OK and confirm following message with OK



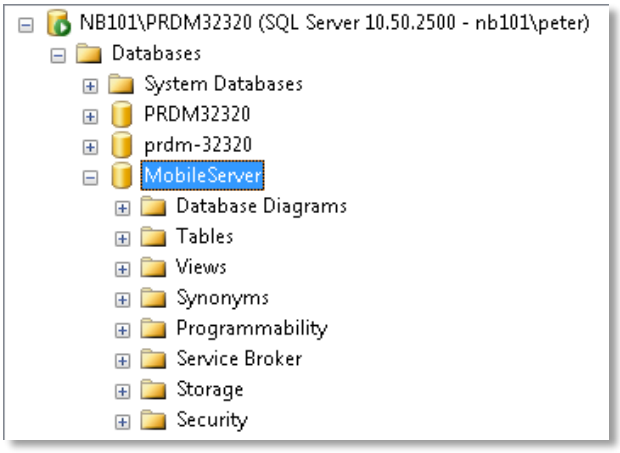

Click with the right mouse button on the Databases and select New Database…



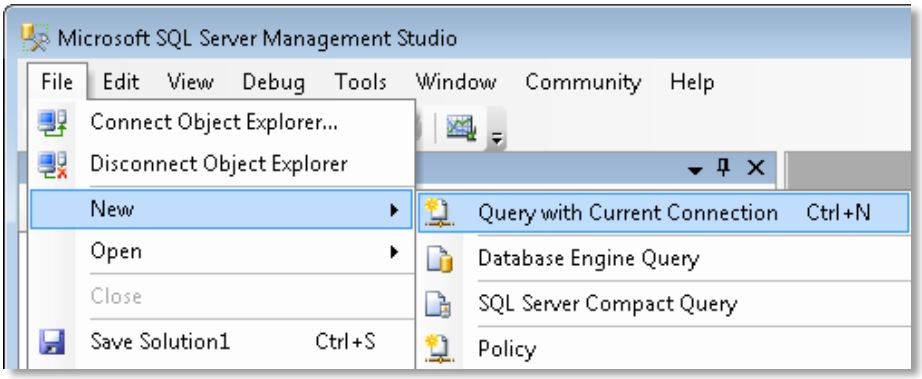

In the menu. Click on General and create a new Database named MobileServer, click OK and the window will be close.



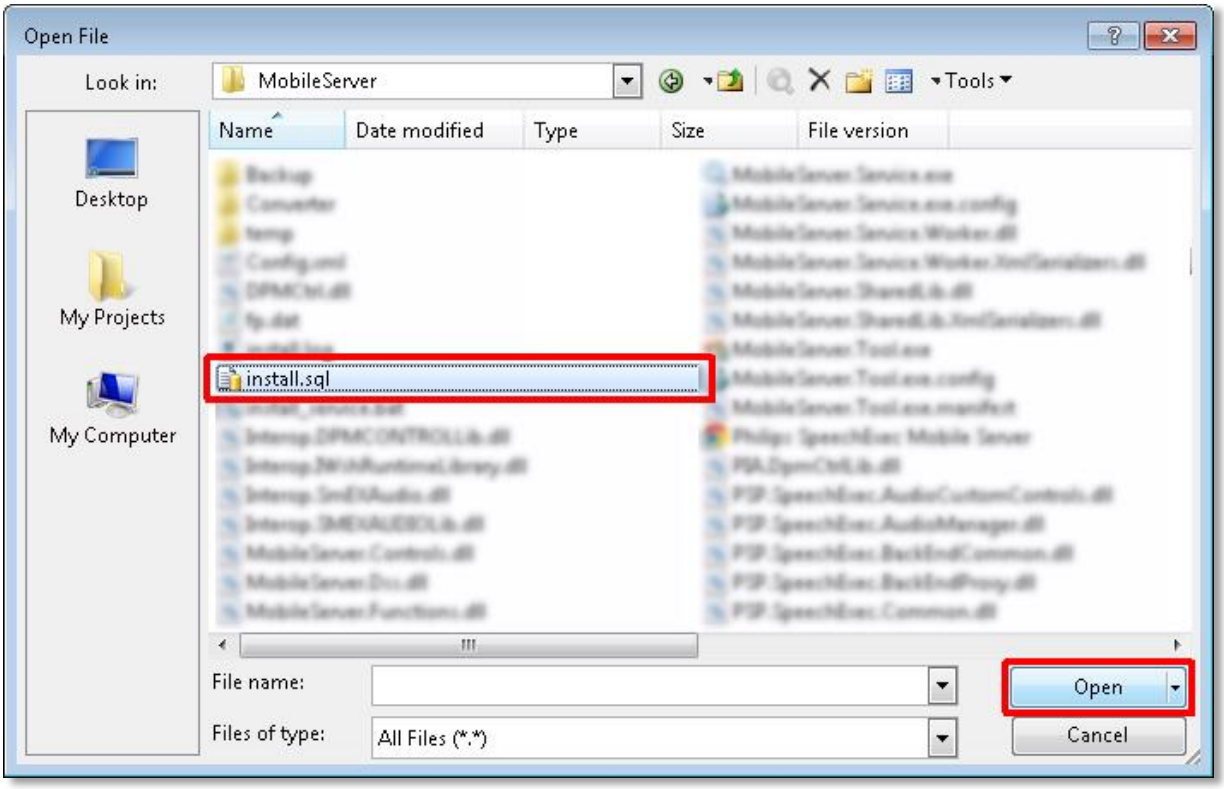

Open the new created MobileServer database



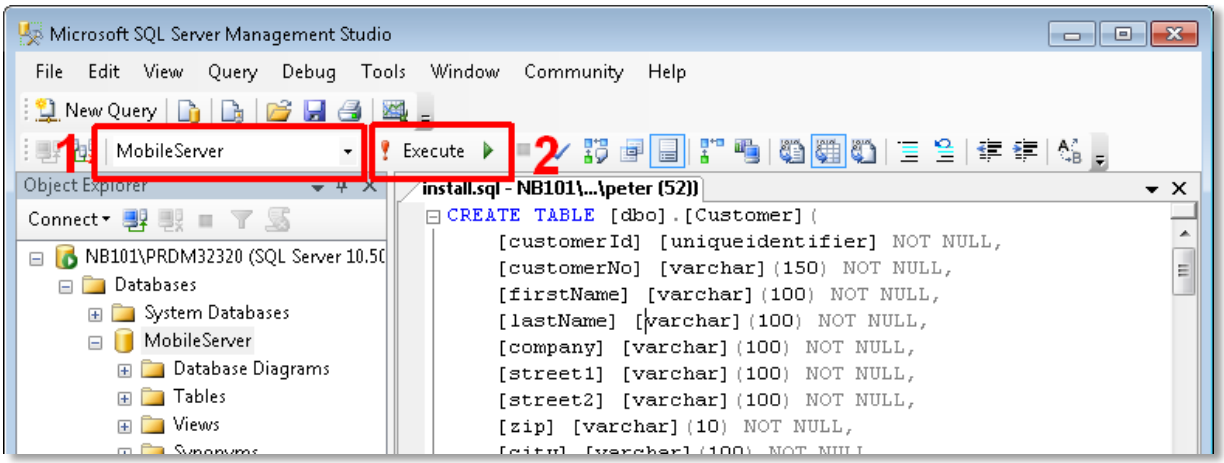
Click File, select New and click on Query with Current Connection (shortcut CTRL+N)



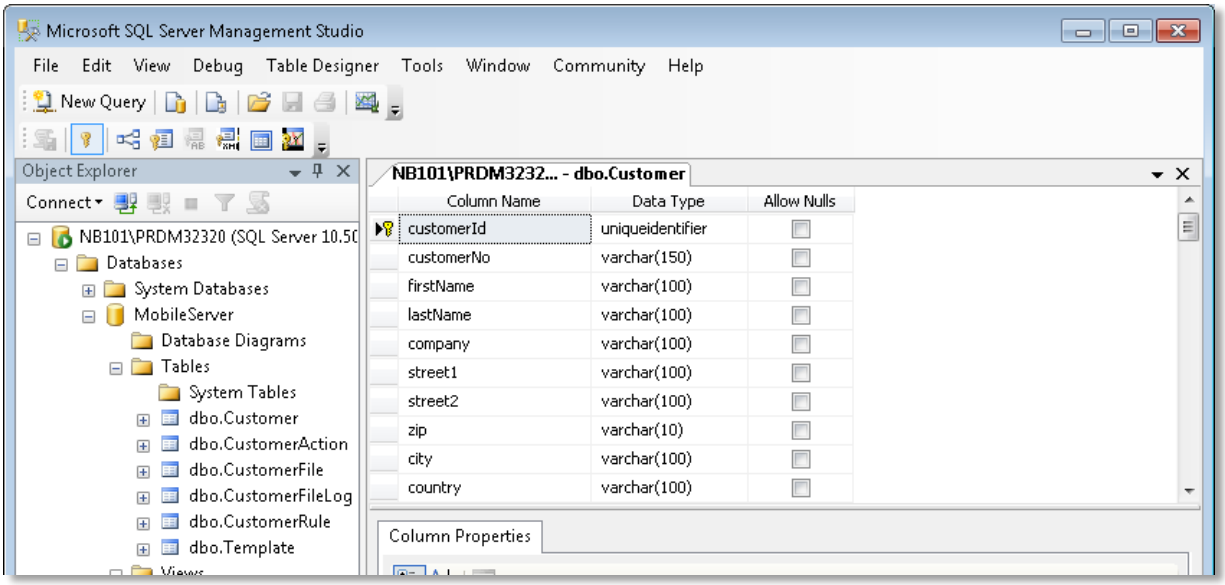

Browse to the MobileServer directory, select install.sql file and click Open



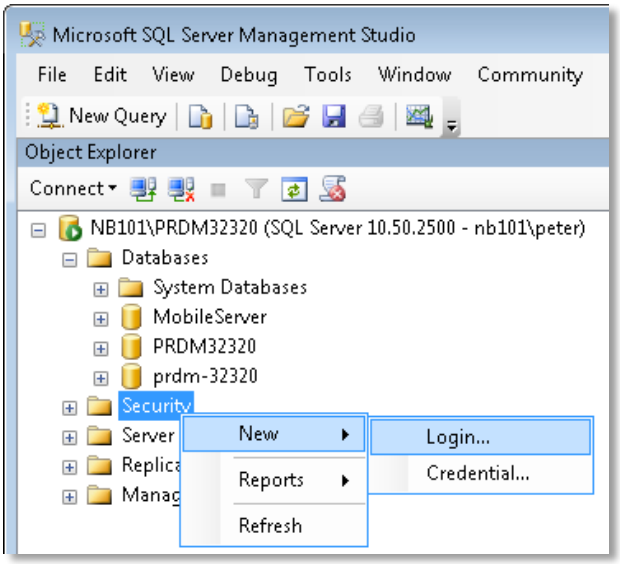

Before you execute [2] the install.sql query, make sure that you are connected [1] with proper database



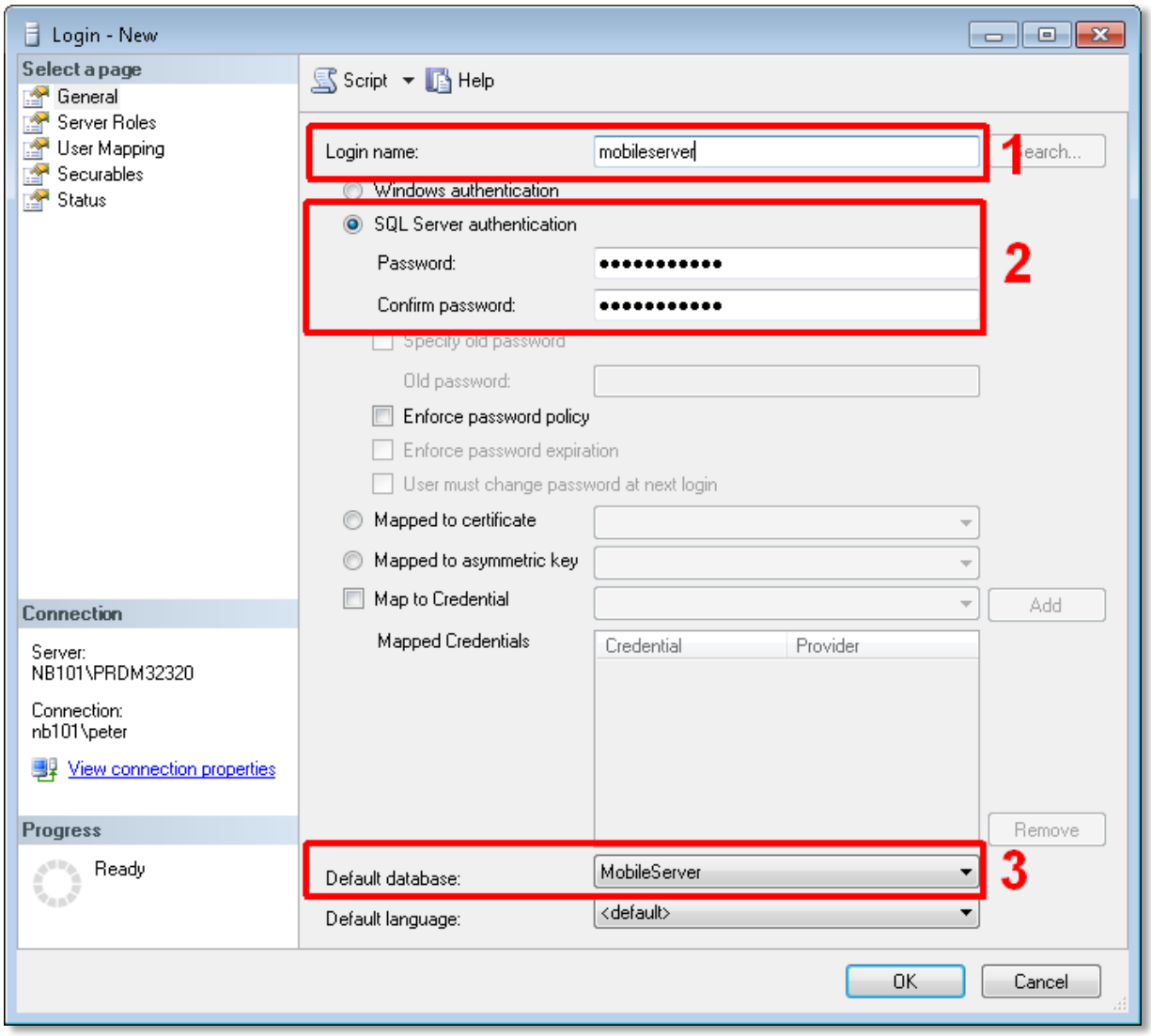
And now, you can see the new database structure with all the crated tables like Customer, CustomerAction…



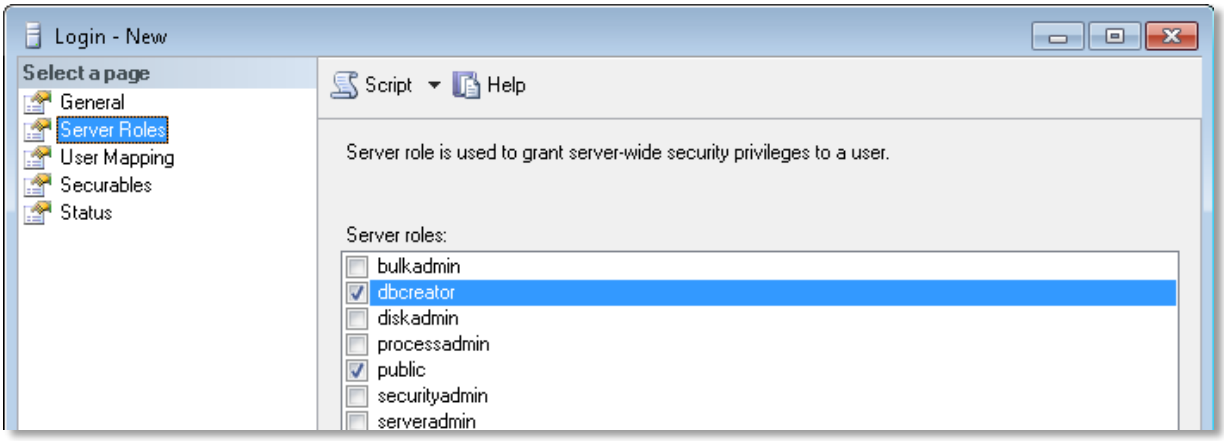

Browse in Object Explorer to Security, click on this and select New and click on Login…



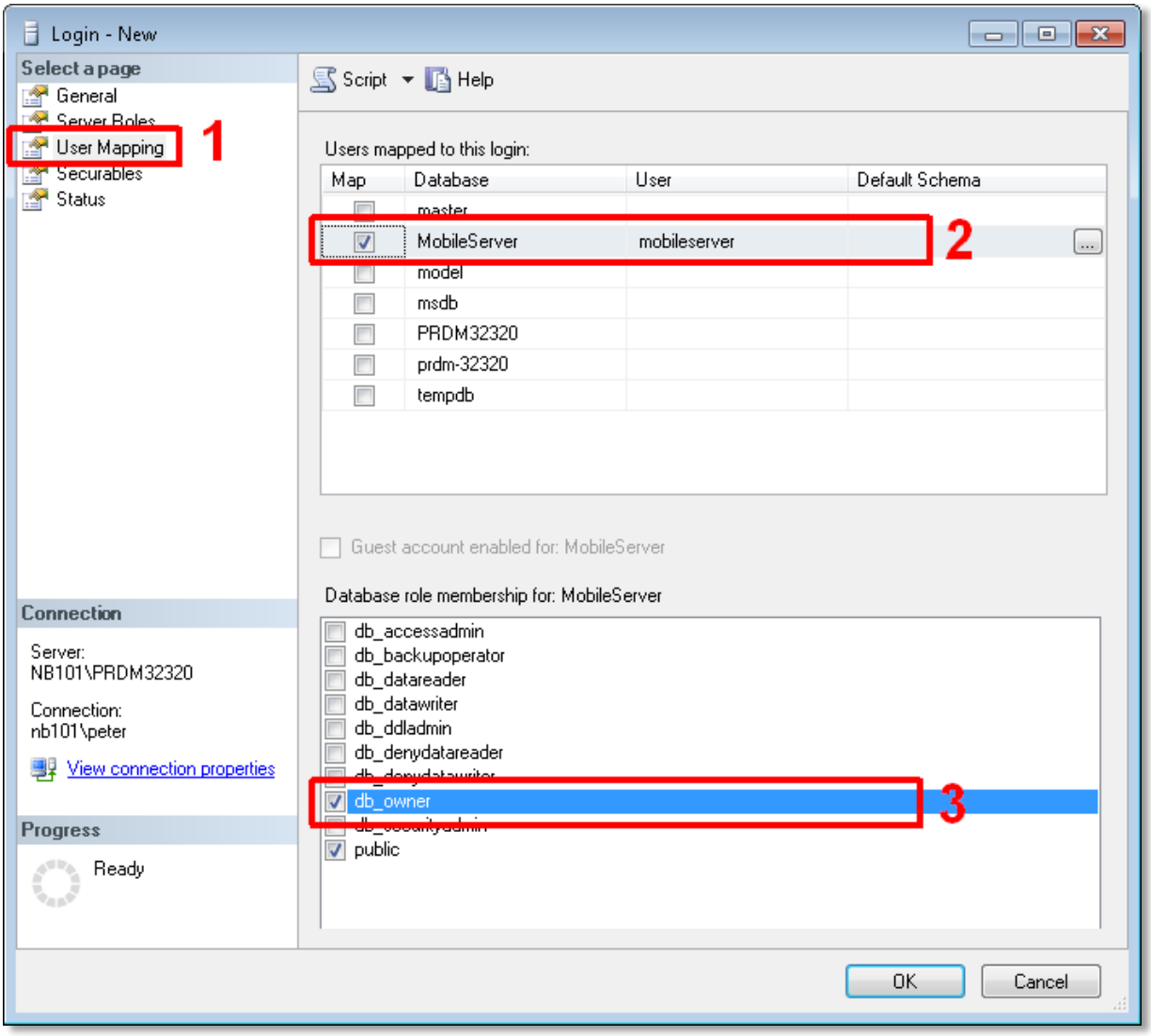
Specify a Login name [1], activate SQL Server authentication and crate password [2]. Select default database [3] and click OK.



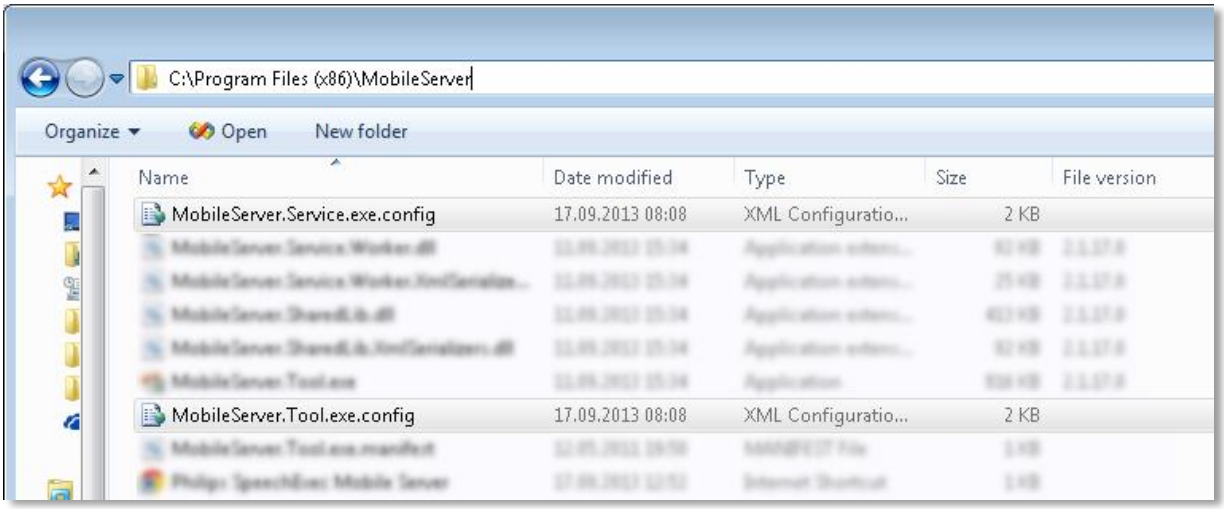

Click on Server Roles and activate dbcreator



Click on User Mapping [1] activate your Database[2] and select right Database role membership for selected Database [3] and finally click OK.




Open the two files from the Mobile Server installation folder:
MobileServer.Service.exe.config and MobileServer.Tool.exe.config.



Open the file with an editor and customize the connection string to your installation.

MobileServer.Service.exe.config

```
<connectionStrings>
<add
name="MobileServer.SharedLib.Properties.Settings.DatabaseConnectionString"
connectionString="Data Source=SERVERNAME\ENGINENAME;Initial
Catalog=MobileServer;Persist Security Info=False;User
ID=USER;Password=PASSWORD"
providerName="System.Data.SqlClient" />
</connectionStrings>
```

MobileServer.Tool.exe.config

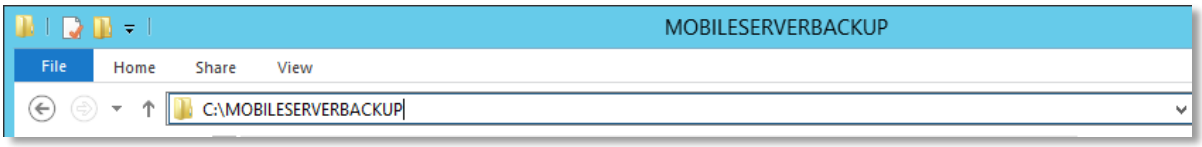
```
<connectionStrings>
<add
name="MobileServer.SharedLib.Properties.Settings.DatabaseConnectionString"
    connectionString="Data Source=SERVERNAME\ENGINENAME;Initial
Catalog=MobileServer;Persist Security Info=False;User
ID=USER;Password=PASSWORD"
    providerName="System.Data.SqlClient" />
</connectionStrings>
```

## 8.15. Create Database Backup with MSSQL Tools

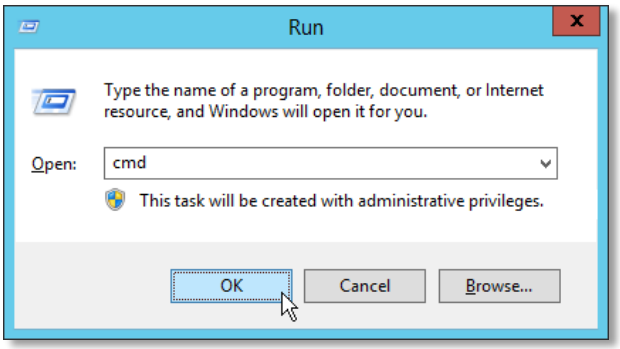
The most important part of a SQL Server maintenance plan is backing up your databases regularly. To backup a database, you cannot simply copy the respective MDF and LDF files of the database as SQL Server has a lock on these. Instead, you need to create a true backup file through SQL Server.

While this can be done by developing a Maintenance Plan inside of SQL Management Studio, the free, delivery with MobileServer, Express editions of SQL Server do not offer this interface. To work around this, you can easily backup your databases by running the command below while logged in as a Windows Administrator.

We create a new Folder for the backup's e.g MOBILESERVERBACKUP.

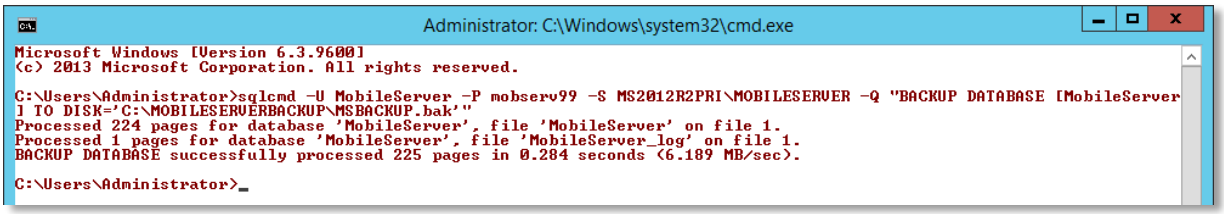



Start the command line interpreter with WIN+R and type cmd, klick OK type Enter.



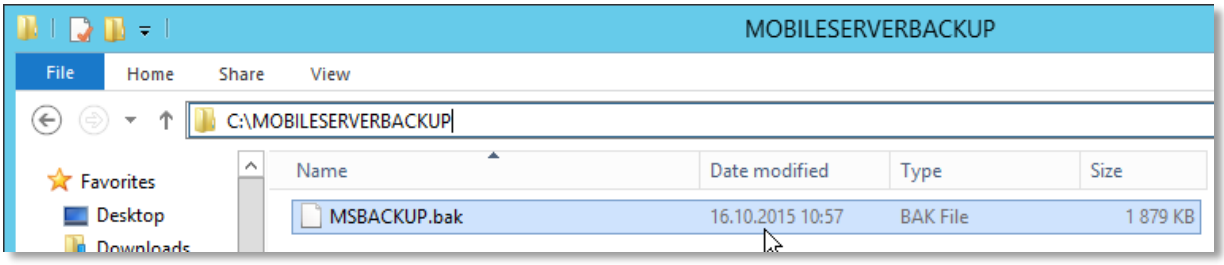

Type the command:

```
sqlcmd –U MobileServer –P mobserv99 –S MS2012R2PRI\MOBILESERVER –Q "BACKUP
DATABASE [MobileServer] TO DISK='C:\MOBILESERVERBACKUP\MSBACKUP.bak'"
```




Description for the command
**-U MobileServer** – is the user login for the Database
**-P mobserv99** – is a user-specified password. Passwords are case sensitive. If the –U option is used and the –P option is not used, sqlcmd prompts the user for a password.
**-S MS2012R2PRI\MOBILESERVER** – specifies the server\instance of SQL Server to which to connect, in our example this is **MS2012R2PRI** for Server and **MOBILESERVER** for instance.
**-Q "cmdline query"** execute a query when sqlcmd starts and then immediately exits sqlcmd.

Here is our Backup:



To restore a database from a backup file, please use the command:

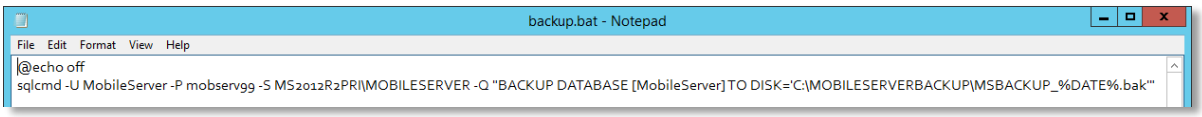
```
sqlcmd –U MobileServer –P mobserv99 –S MS2012R2PRI\MOBILESERVER –Q “RESTORE DATABASE [MobileServer] FROM DISK=’C:\MOBILESERVERBACKUP\MSBACKUP.bak’”
```

The above command will restore a backup of `MobileServer` from the data stored in the backup file `C:\MOBILESERVERBACKUP\MSBACKUP.bak`. Any changes made to `MobileServer` Database since the backup file was created will be lost.

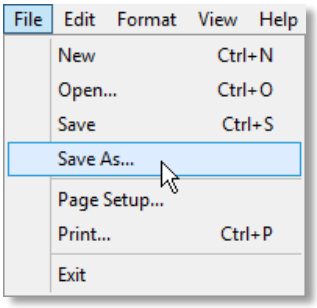
## 8.15.1. Create Scheduled Backup

Open Notepad and paste the two lines:

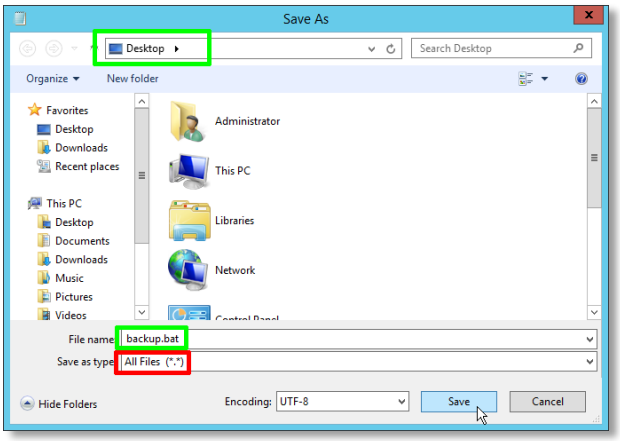
```
@echo off
sqlcmd –U MobileServer –P mobserv99 –S MS2012R2PRI\MOBILESERVER –Q “BACKUP DATABASE [MobileServer] TO DISK=’C:\MOBILESERVERBACKUP\MSBACKUP_%DATE%.bak’”
```



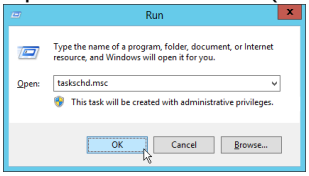

Click on File, select Save As…



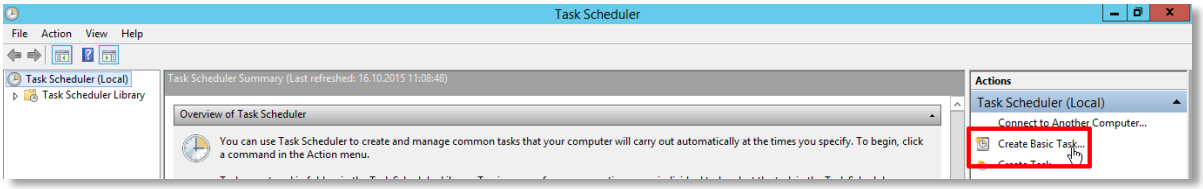

Type backup.bat as File name and - very important! – Save as type All files (*.*) and click on Save.



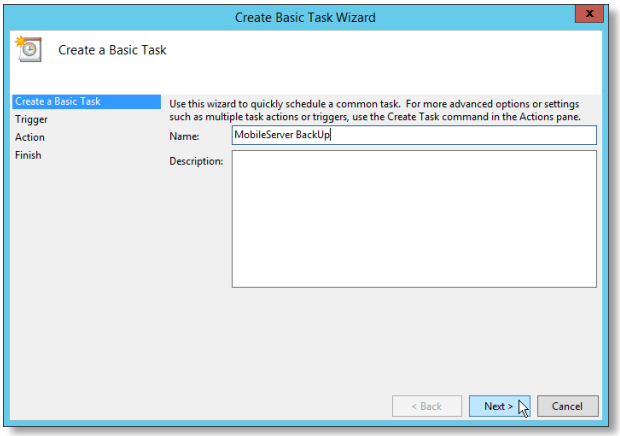

Open Task Scheduler (Shortcut: WIN+R – taskschd.msc)



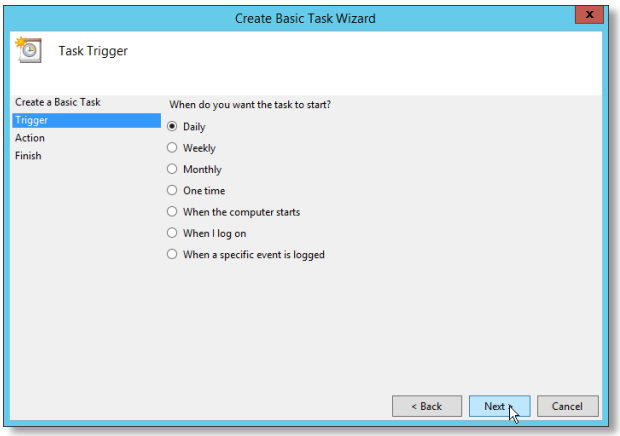
Click on Create Basic Task



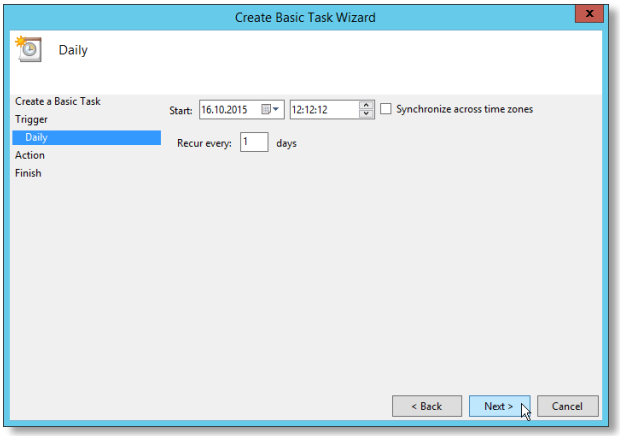

Type a name and, if needed, additional description and click on Next



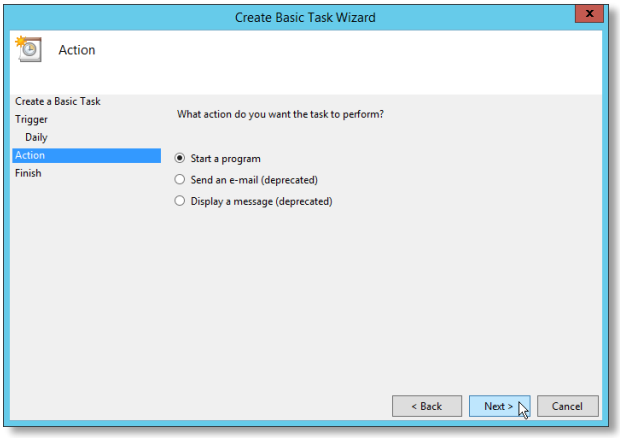

Select the time period and click on Next



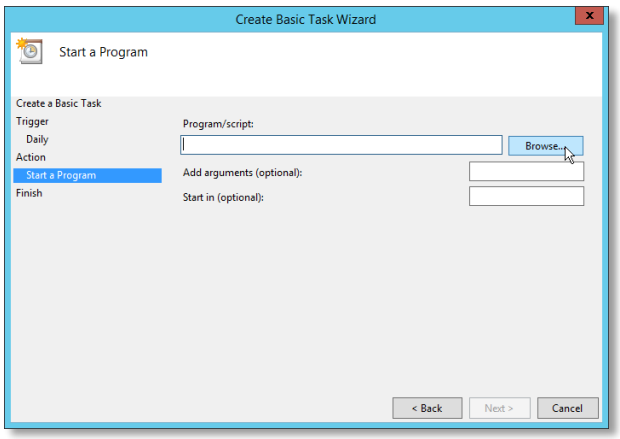

Select Start Date and Time and klick on Next.

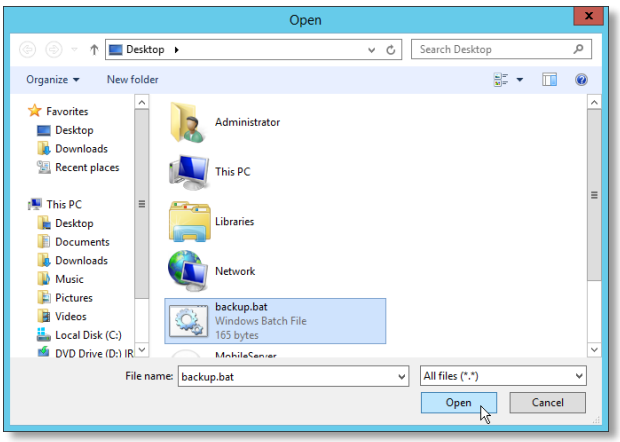


As the right action select Start a program and click again on Next

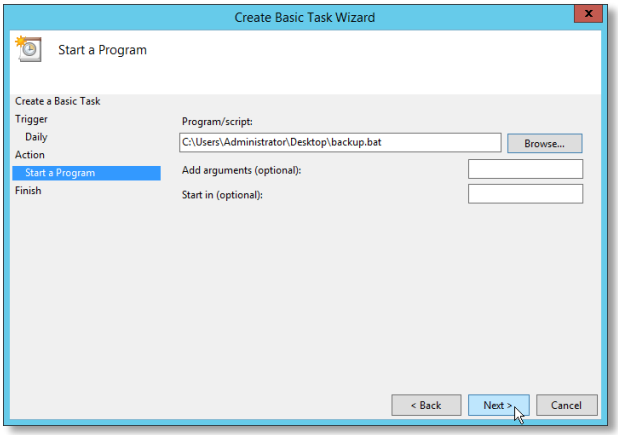


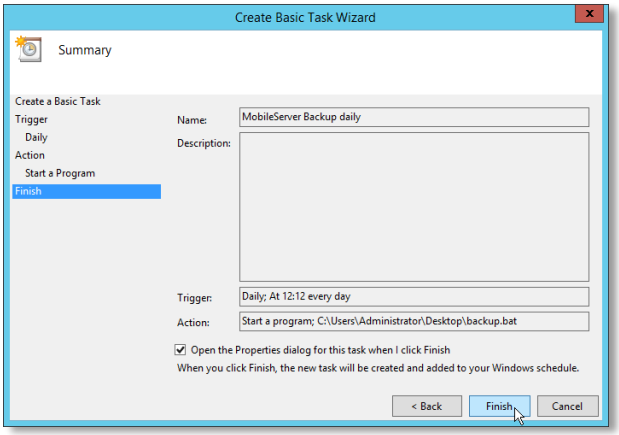

Click on Browse and select the backup.bat from Desktop



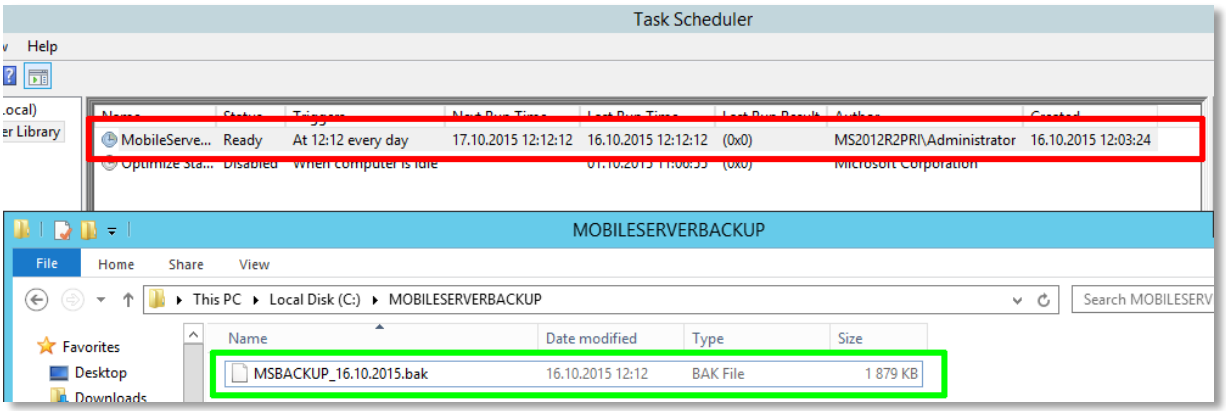




Click on Next and close the process with click on Finish



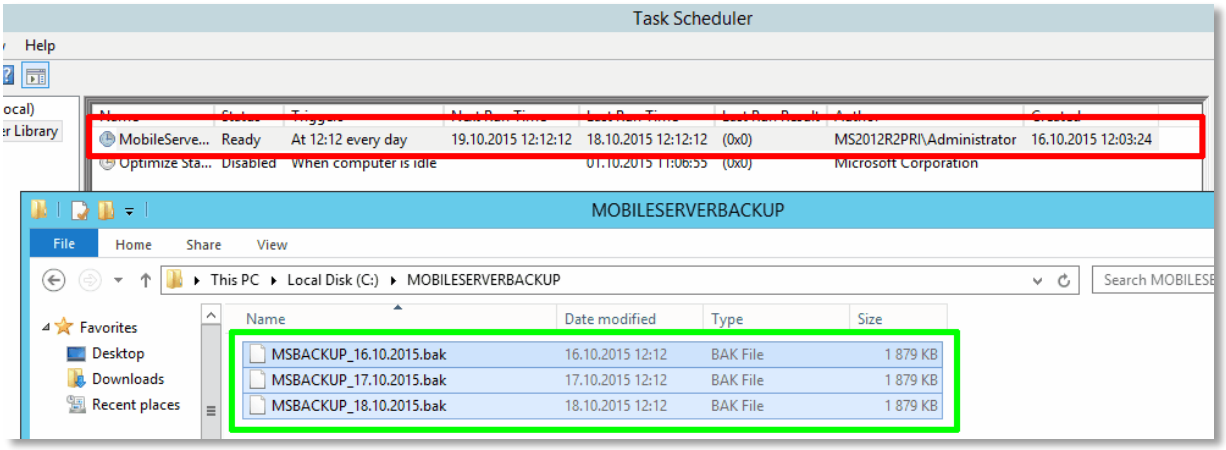




Task is running at 12:12:12 (red) and Backup file is also created with additional time stamp.




And after three days our MOBILESERVERBACKUP folder contains three files, with corresponding file name, and the task scheduler informs us about next execution.

Column Last Run Result contains system error codes –
0x0 correspond to the operation completed successfully.



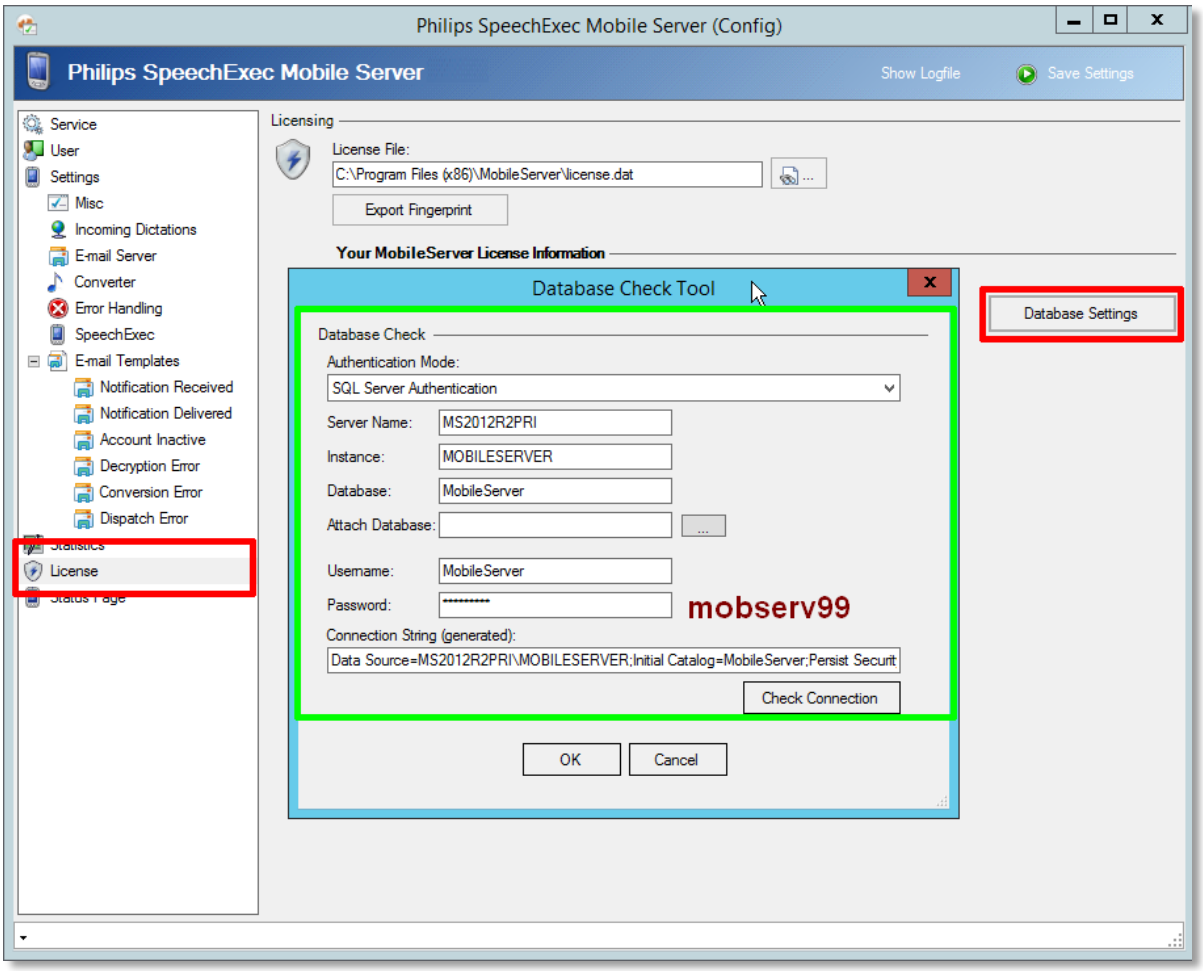
## 8.16. Create Database Backup with external Tools

MobileServer use a Microsoft SQL Server 2008 Express version.
For Backup and management you can use one of free available database tools for system administrators. In our example we use HeidiSQL. HeidiSQL is a database query tool that supports Microsoft SQL Server databases. It allows you to browse and edit data, create and edit tables, views, procedures, triggers and scheduled events. Features include managing multiple servers from one window, exporting from one database server into another, bulk editing, an advanced SQL syntax editor, and database optimization and repair functions.
Download the HeidiSQL from http://www.heidisql.com/download.php

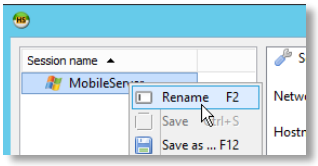
Here we describe the Backup process.

### 8.16.1. Connect with Database

Open the License Menu and click on Database Settings and check currents settings, we will need it later, so please write the information or make screenshot for later.

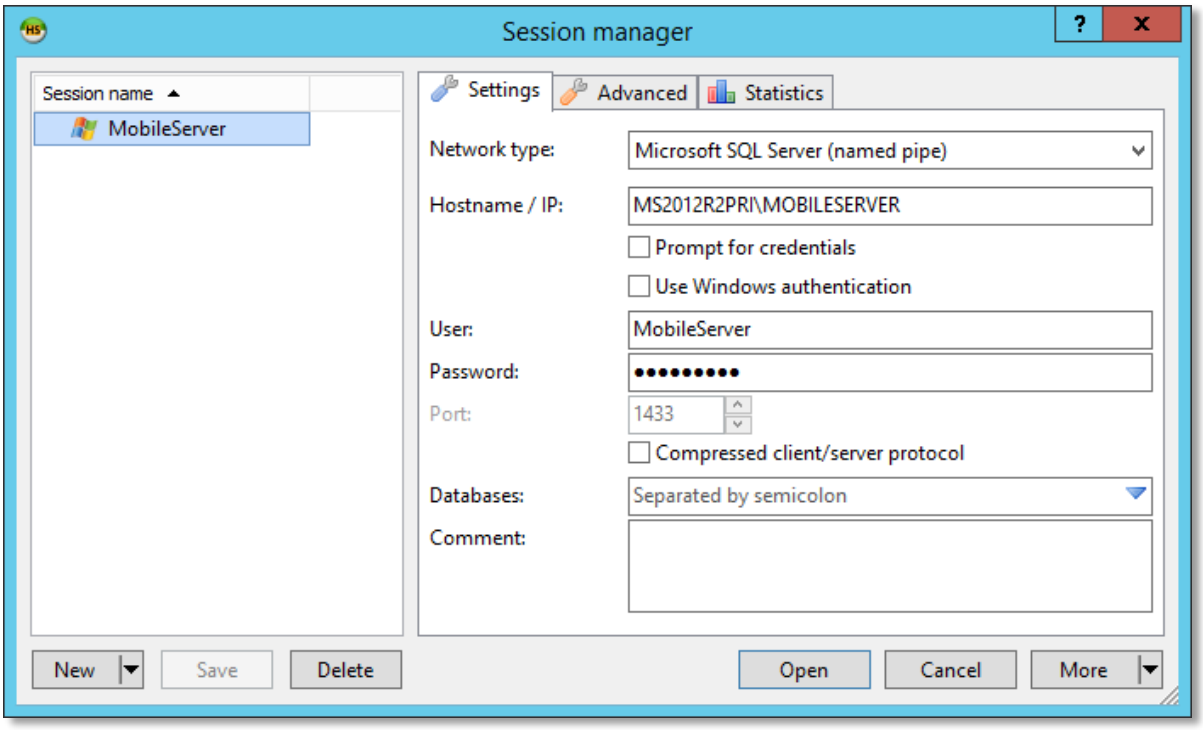


Open HeidiSQL Software, click on File and select Session manager.

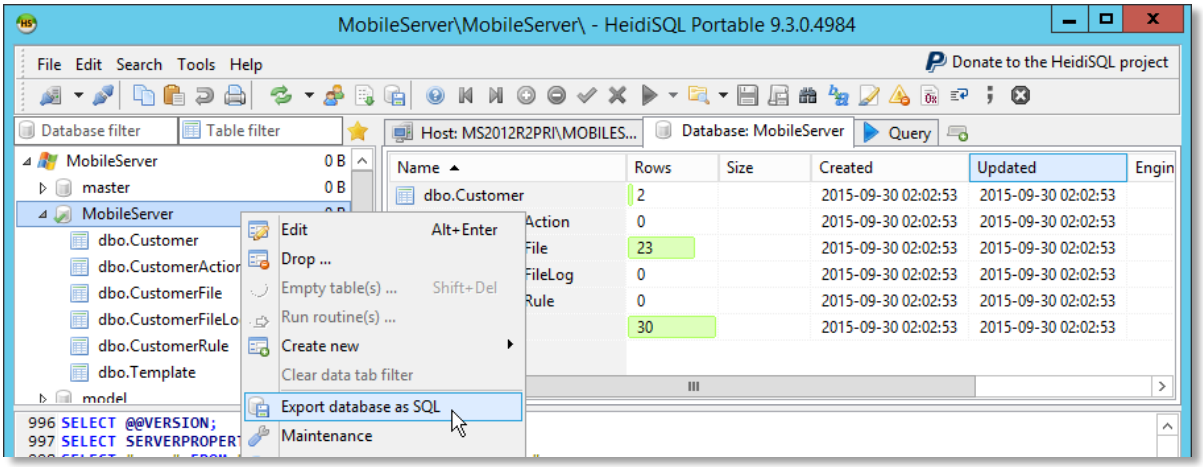



On the left side, you see Session name, that can be rename later.

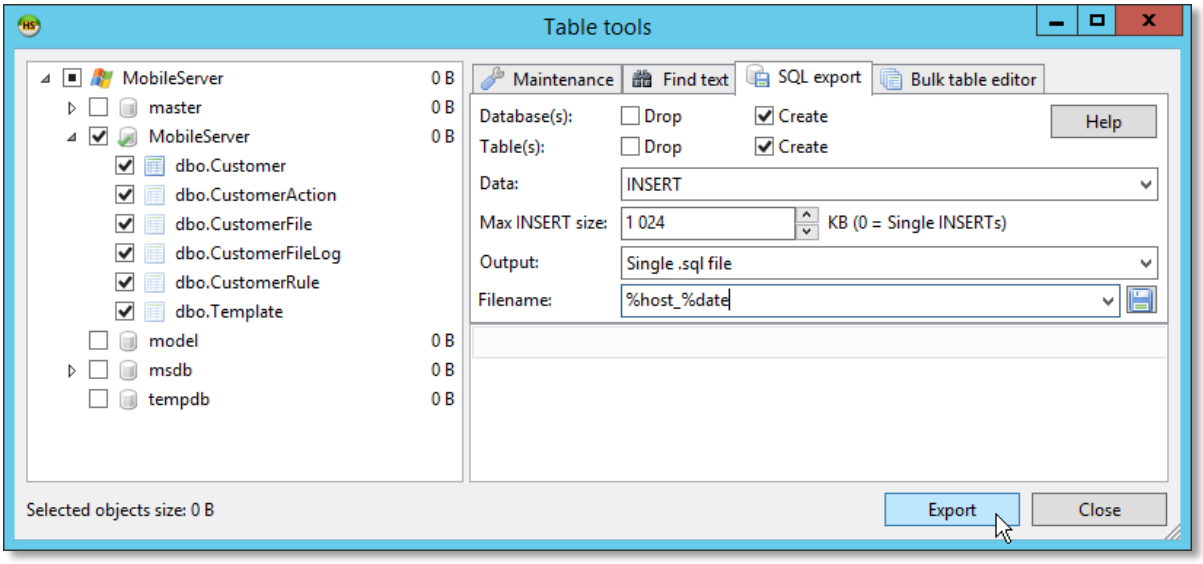
In the tab Settings, select as Network type: Microsoft SQL Server (named pipe)
As Hostname / IP type the Server Name and Instance (from the MobileServer settings) e.g. MS2012R2PRI\MOBILESERVER. Type MobileServer as User, and mobserv99 as Password.
Click Open, and you are connected with the Database from MobileServer.



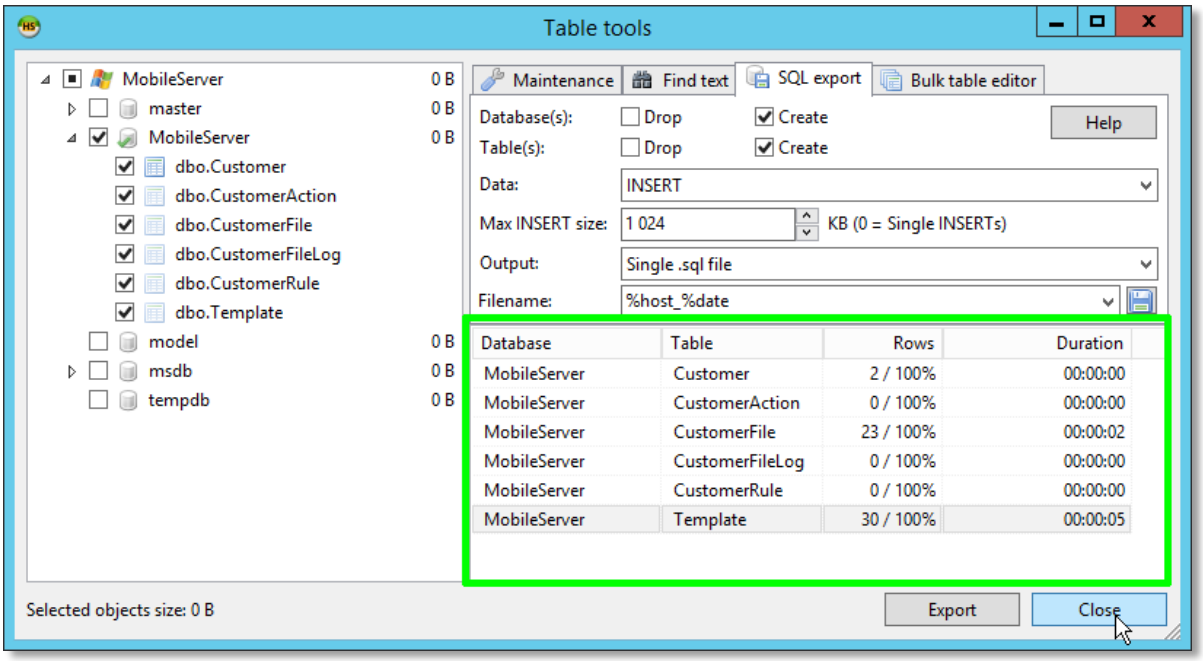

Click with right mouse button on MobileServer and select Export database as SQL



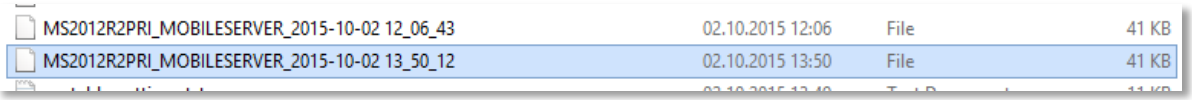
Next, you can select all of available Tables inside the Database, or, if you preferred to transfer only on specially table with Customer Data (Table dbo.Customer), then click on this.
Select as Output Single .sql file and create a related name, for regular tasks, you can configure a specific variable like %host and %date.
Click Export




Export is running, you can check and can see exactly the details, how many rows inside the tables are exported and the time duration for it.




Now the sql file is created and you can import this in to another Database or save as backup.



## 8.17. Web.config file

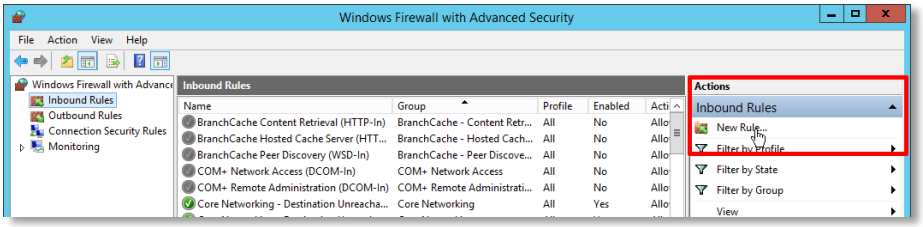
How to working with configuration files on IIS7 – learn more from Microsoft knowledgebase.

Example configuration file for 10 min. request time and 30MB file size.

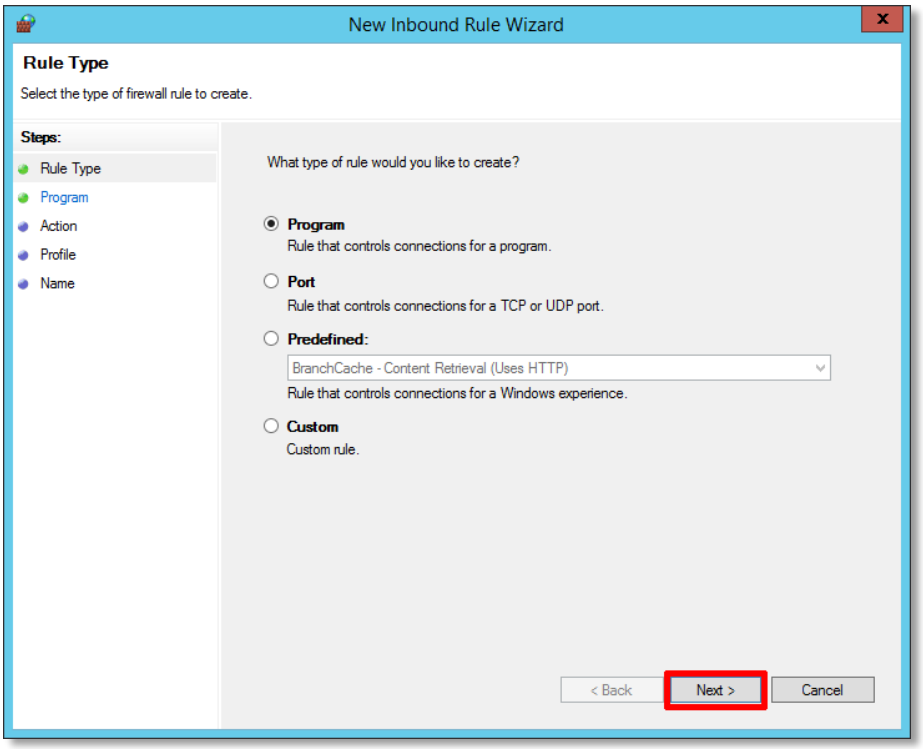
```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
	<system.web>
		<!-- httpRuntime executionTimeout is in seconds. maxRequestLength and
requestLengthDiskThreshold is in Kilobytes-->
		<httpRuntime executionTimeout="600" maxRequestLength="30720"
requestLengthDiskThreshold="30720"/>
	</system.web>
	<system.webServer>
		<security>
		<requestFiltering>
		<!-- maxAllowedContentLength is in Bytes not Kilobytes -->
		<requestLimits maxAllowedContentLength="30720000" />
		</requestFiltering>
		</security>
	</system.webServer>
</configuration>
```

## 8.18. Firewall settings for FTP connections

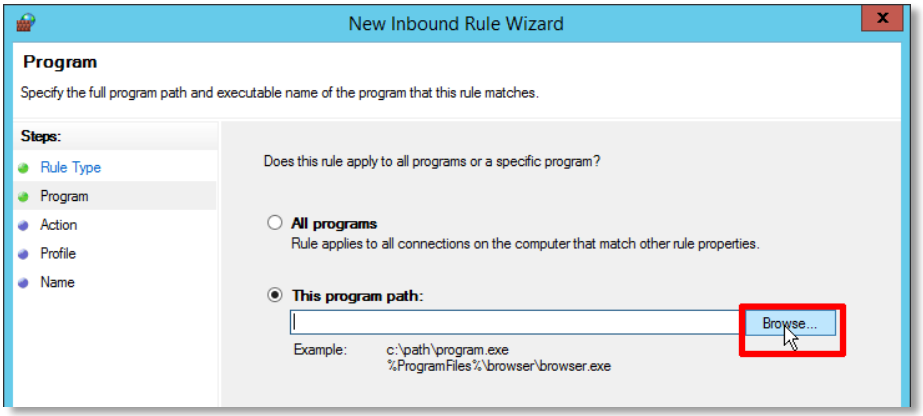
Create Firewall rules for MobileServer software, click Start, Administrative Tools, Server Manager, click Tools and select Windows Firewall with Advanced Security.
Select Inbound Rules, and klick on New Rule



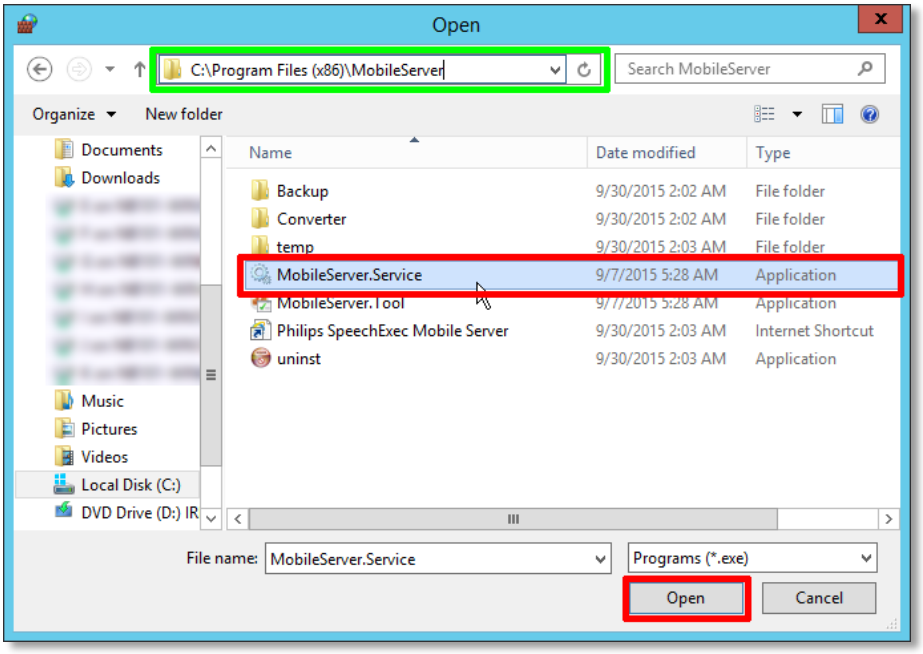

Activate Program and click on Next



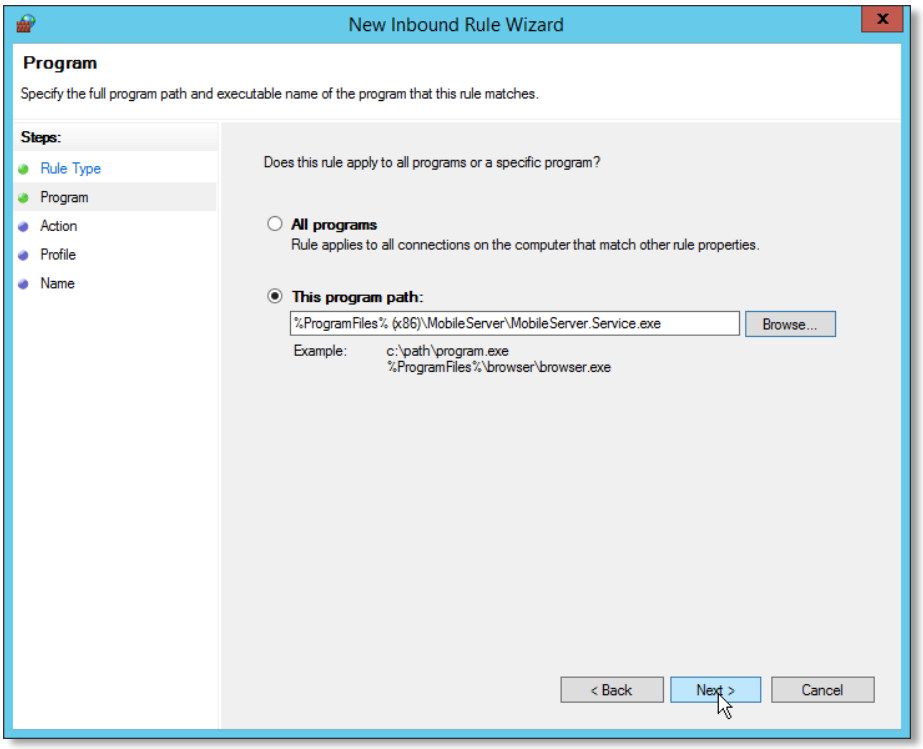

Activate the radio button - This program path and click on Browse



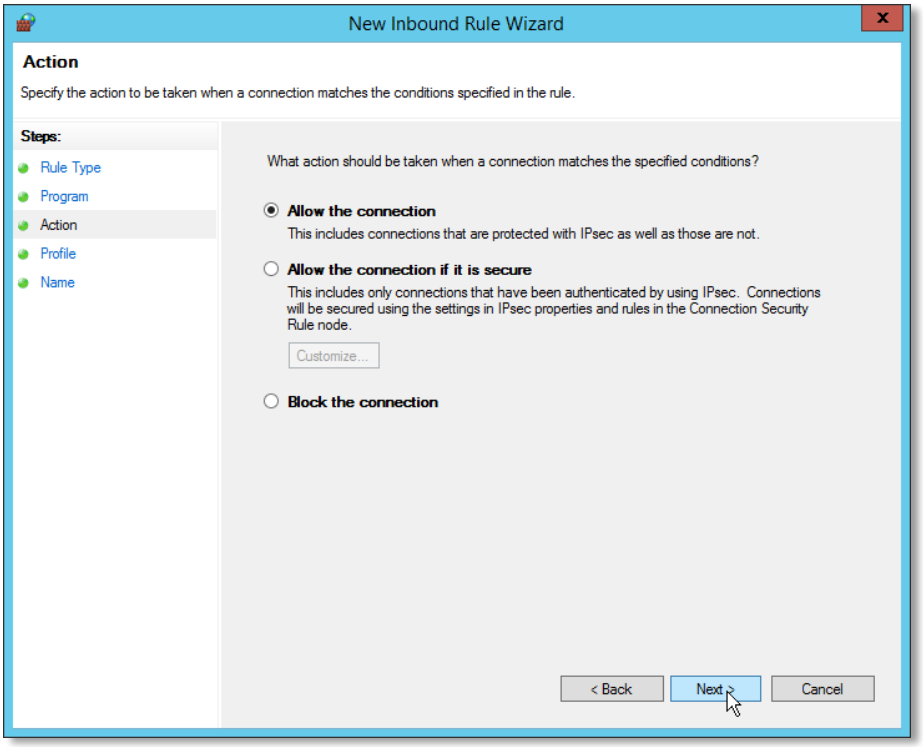
Select the installation path (Standard is C:\Program Files (x86)\MobileServer), select MobileServer.Service and click on Open



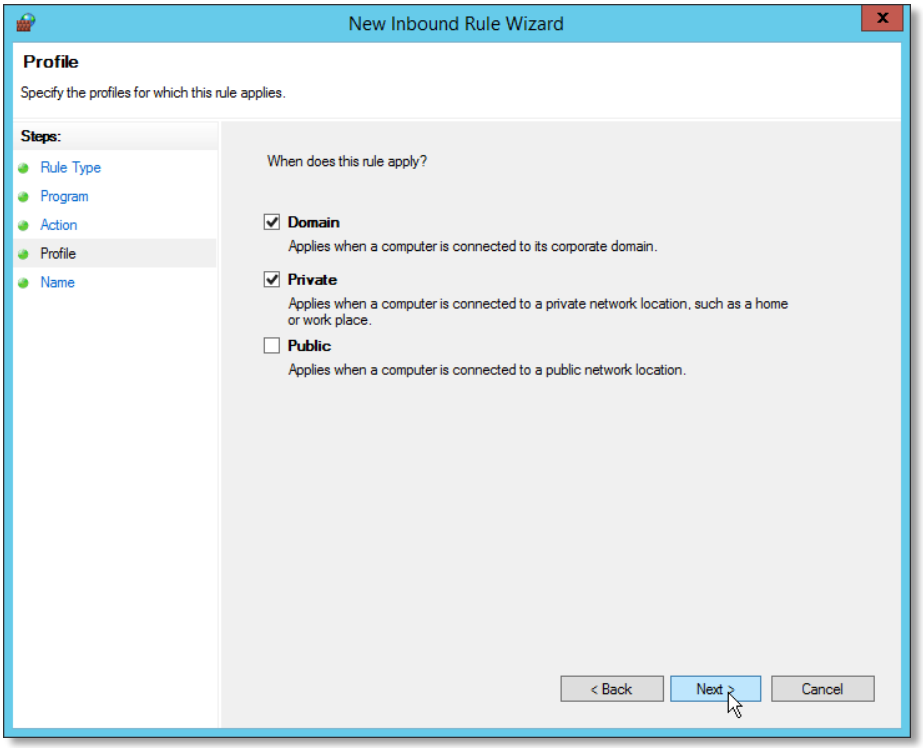

Click Next



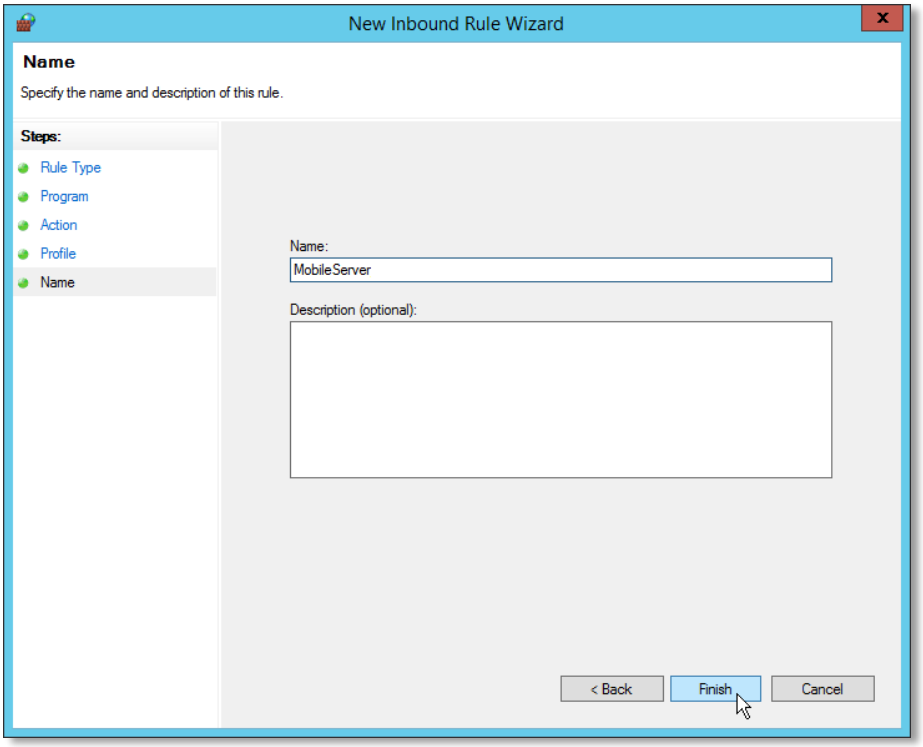
Activate Allow the connection and click on Next



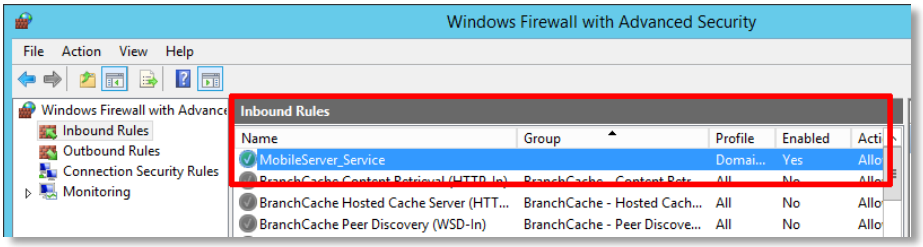

Depend on the Network settings and policy activate the right settings for Domain or for Private and click on Next



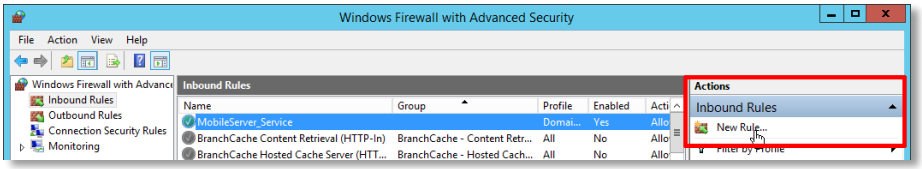
Create a name for the rule and click on Finish.



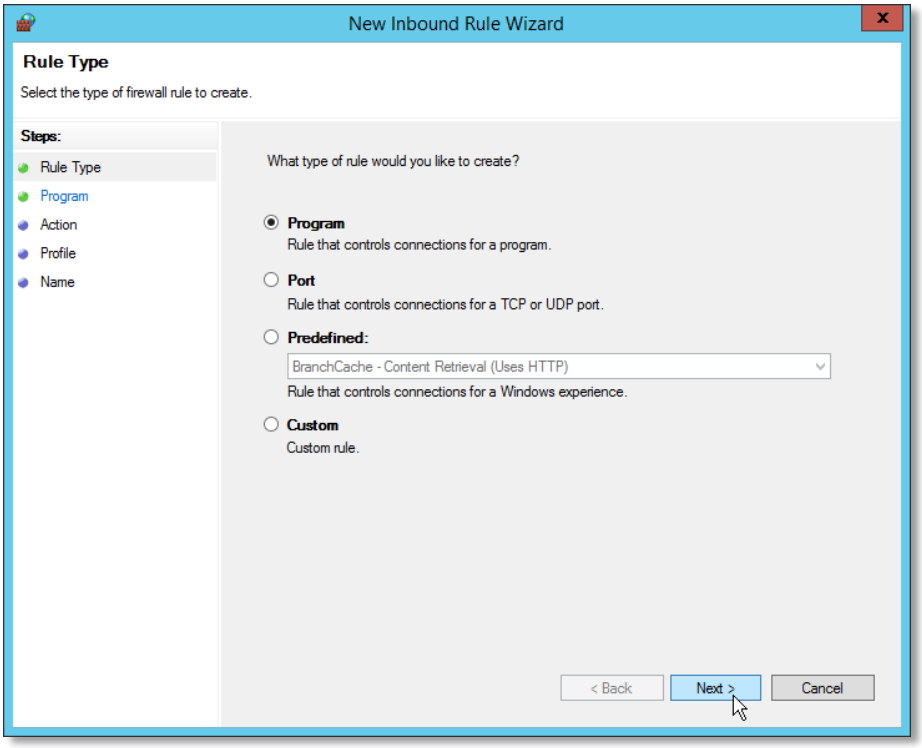

Inbound rule for MobileServer background service is activated, now we can create a second rule for the MobileServer Management Console



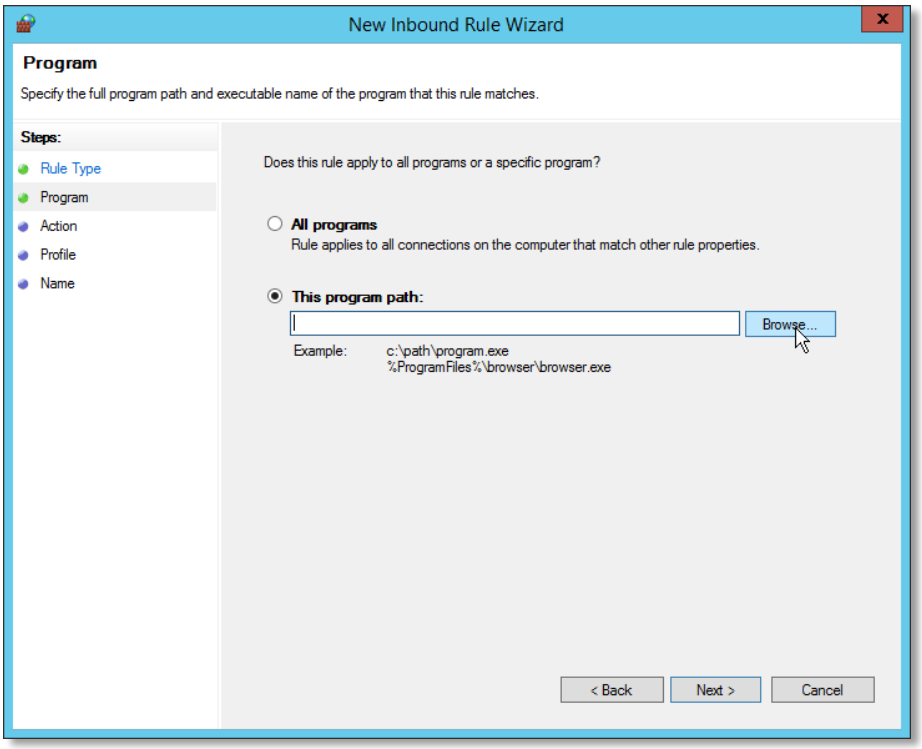
Click again on Inbound Rules – New Rule



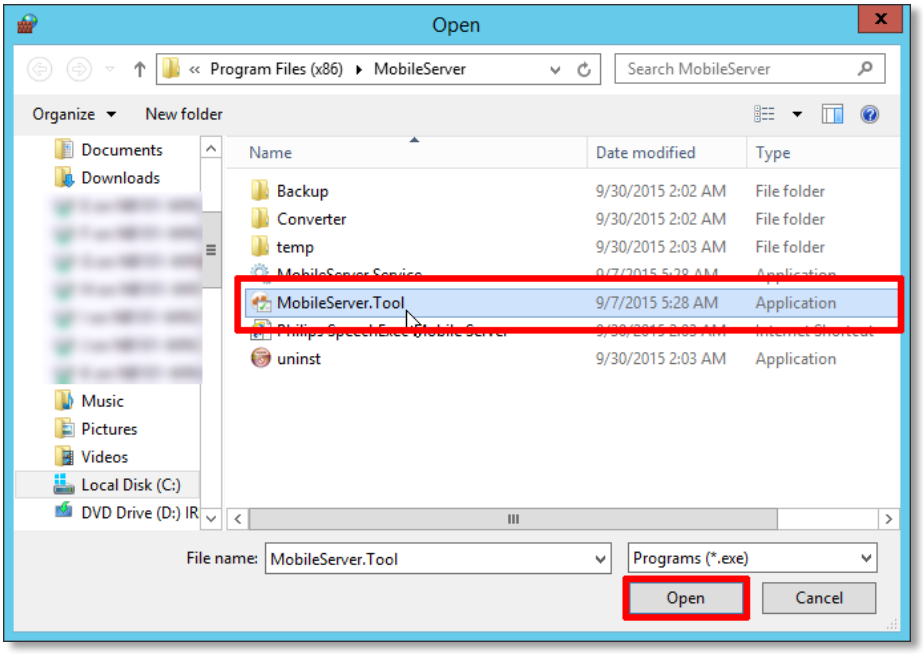

Select radio button Program and click on Next



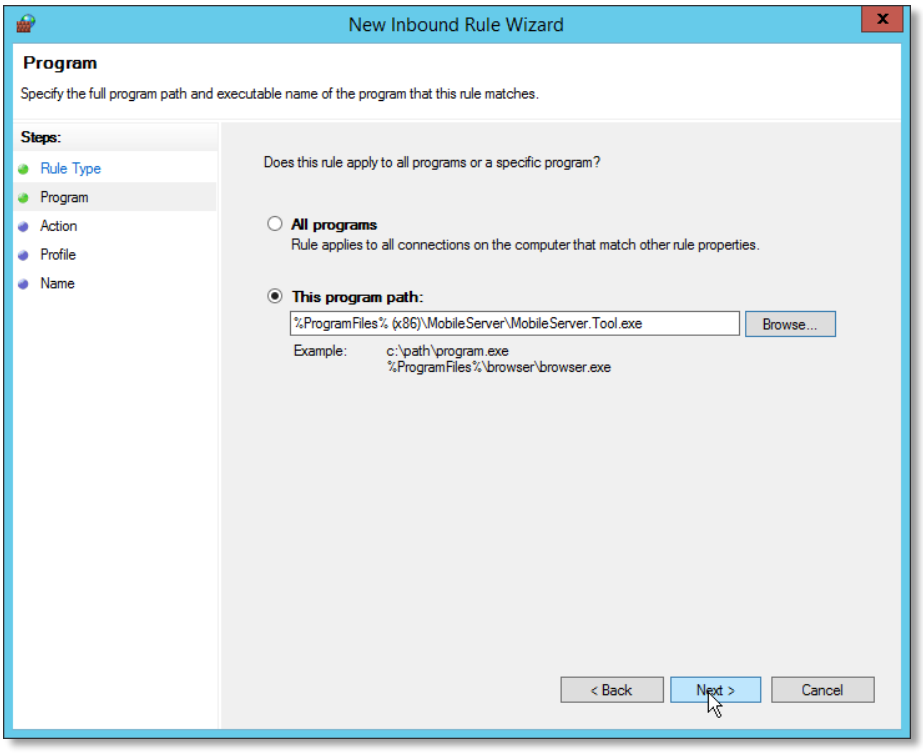

Activate This program path and click on Browse



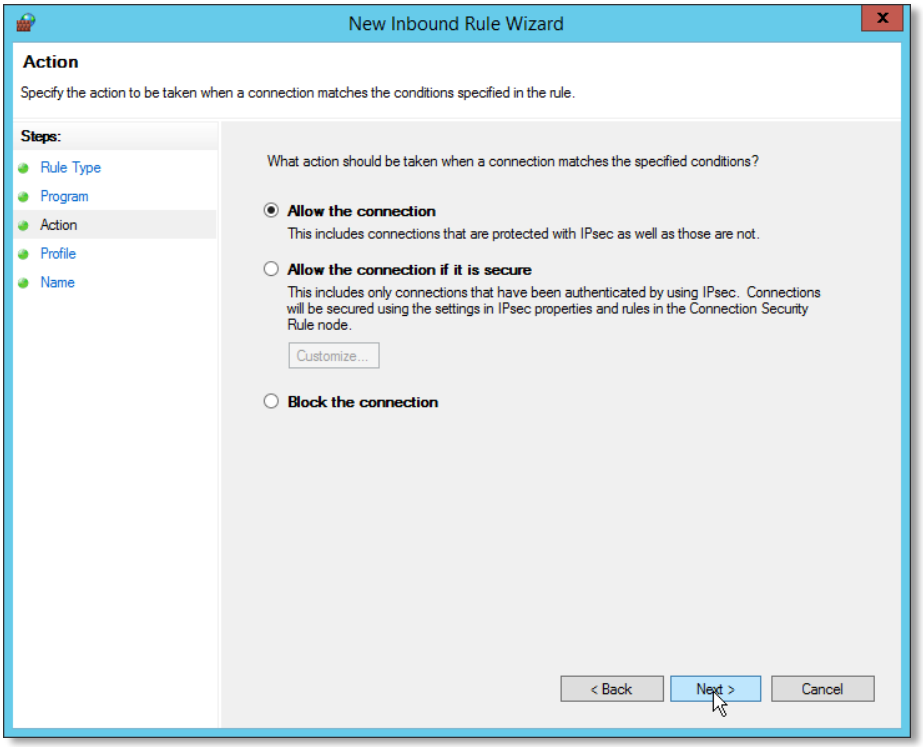
Select MobileServer.Tool and click on Open



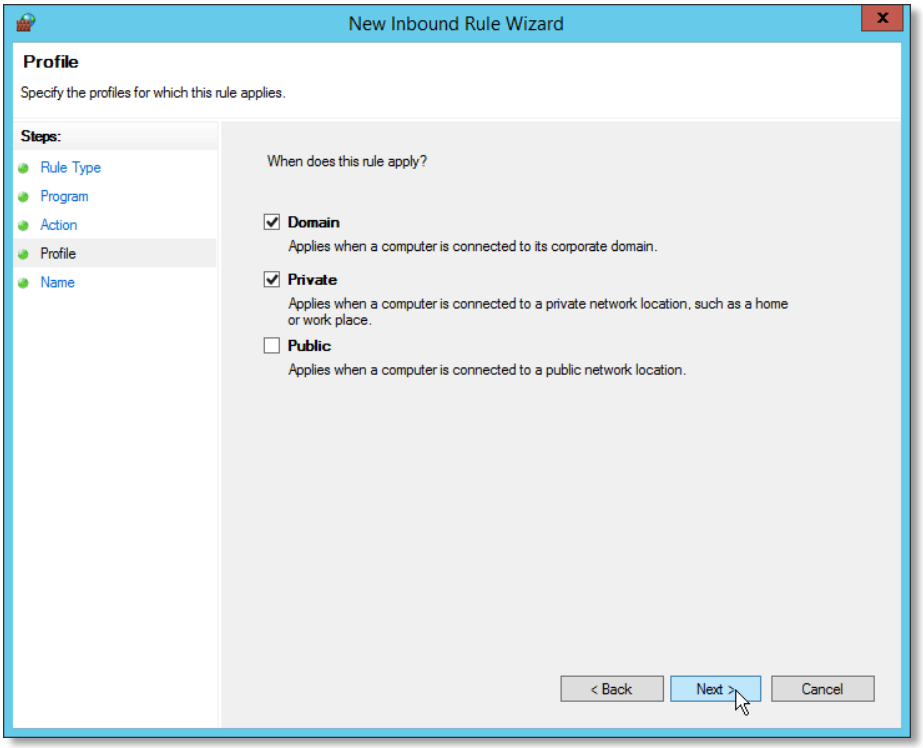

Click on Next



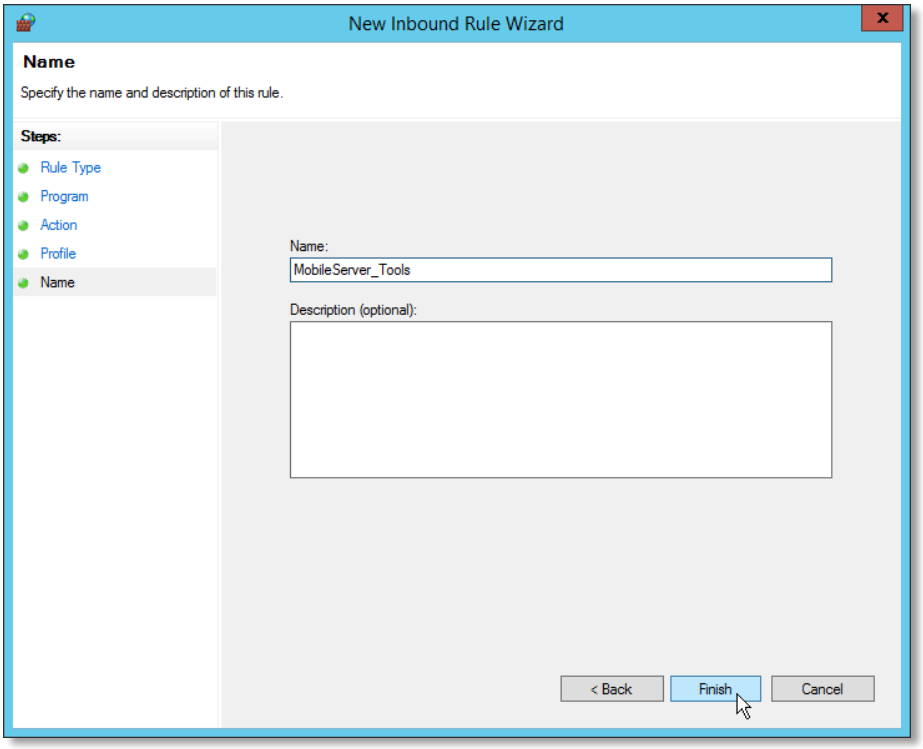
Activate Allow the connection and click on Next



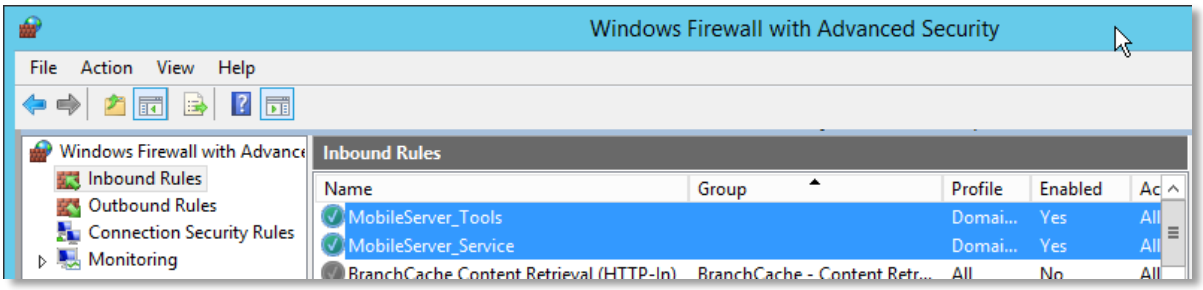

Depend on the Network settings and policy activate the right settings for Domain or for Private and click on Next



Create Name for the rule and click on Finish.




Now we have created two inbound rules, in the same way you can create rules for outbound rules.



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Last Changes – Speech Processing Solutions GmbH Support Group Vienna
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