uniFLOW V5.1.8
Installation Manual
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Installation Manual

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01 October 2012, Bad Iburg (Germany)
Installation Manual

Symbols used in this manual:

- **Note**
- **Important Note**
- **Online Link**
- **Printer Wizard**
- **Settings**
- **Advanced Configuration**
- **Advanced Printer Configuration**
- **Region Specific Feature**

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1 Introduction

uniFLOW is a web-based solution for registering & accounting print jobs and for optimizing print job management. It has been developed utilizing the latest future-oriented technologies and is in this way very well suited for the deployment in heterogeneous environments.

Due to its modular structure, uniFLOW features both, outstanding flexibility and functionality. uniFLOW is an integrated solution, featuring not only accounting, job ticketing, secure printing or workflow functionality, but all these items in one consistent package.
2 System requirements

The system requirements for uniFLOW are as follows:

2.1 Software
2.1.1 Operating Systems

*Installations of the uniFLOW Server system on client operating systems are not supported by NT-ware.*

We recommend installing uniFLOW and the Remote Print Servers on dedicated servers.

*Installations on Active Directory Domain Controllers (DC), and Microsoft Exchange Servers are not supported.*

*Installations on Microsoft Small Business Servers (SBS) are supported, but not by default. For that reason, please refer to the White Paper "Installing uniFLOW on a Microsoft Windows SBS" in the NT-ware Knowledgebase.*

Windows Server 2003:
- Internet Information Server (IIS) 6.0 or higher
- Internet Explorer 6 or higher required (Internet Explorer 7 or higher recommended).

Windows Server 2008:
(a standard installation with a graphical user interface)
- Internet Information Server (IIS) 7.0 (prepared for a uniFLOW installation)
- Internet Explorer 7 or higher recommended

Windows Server 2008 R2:
(a standard installation with a graphical user interface)
- Internet Information Server (IIS) 7.5 (prepared for a uniFLOW installation)
- Internet Explorer 8 or higher recommended

Windows Server 2008 requires at least a SQL Server 2005 Express edition or higher with a pre-installed uniFLOW database, if the database should run on the same server.

Note that uniFLOW needs Microsoft .NET Framework 3.5.
Please make sure that Microsoft .NET Framework 3.5 is installed in your environment.

On Microsoft® Windows 2008 R2 please observe as well to enable the “.NET Framework 3.5 Features”.

Therefore, the uniFLOW installer detects if Microsoft .NET Framework 3.5 SP1 is installed in your environment. If Microsoft .NET Framework 3.5 SP1 is not installed, you are asked to install it by clicking on install. If you click on Cancel the uniFLOW installation is aborted.

You have to restart your system after the installation of Microsoft .NET Framework 3.5 SP1 has been completed. Only the restart you can resume the installation of uniFLOW.

2.1.2 Optional Software

- **Database**
  - If the SQL Server 2005 Express edition (max. storage capacity 4GB) capacity is not big enough, a separate Microsoft SQL Server license is required.
  - The following Microsoft SQL Server versions are recommended for uniFLOW:
    - SQL Server 2000 (32-bit or 64-bit) + latest service pack
    - SQL Server 2005 (32-bit or 64-bit) + latest service pack
    - SQL Server 2008 (32-bit or 64-bit) + latest service pack

- **LDAP**
The following LDAP servers have been tested in conjunction with uniFLOW and are recommended by NT-ware. Any other similar software should work with uniFLOW but has not been tested by NT-ware.

- Microsoft Windows 2003/2008 Active Directory LDAP
- Microsoft Windows 2003/2008 Active Directory LDAP over SSL
- Novell NDS

*If you plan to use different LDAP software, other than listed above, NT-ware would need to check the compatibility first. Please create a MOMPS issue in the NT-ware ITS for this.*

- **PDF previews** require an Adobe® Acrobat Distiller or the uniFLOW Job Conversion Instance module.
2.2 Hardware

This topic describes the minimum recommended hardware requirements for the uniFLOW Server and the RPS.

Actual requirements will vary based on your system configuration and the applications and features you choose to install. Processor performance is not only dependent on the clock frequency of the processor, but the number of cores and the size of the processor cache. Disk space requirements for the system partition, mentioned below, are approximate recommendations.

As the uniFLOW Server system and the RPS are modular systems and the usage of certain functionalities and modules varies from customer to customer, it might be necessary to have even better hardware than what has been recommended below. This especially applies to systems with a locally installed database, several used JCI (Job Conversion Instance) licenses, an installed uniFLOW Scan Processing Server on the uniFLOW Server etc.

- Minimum hardware requirements:
  - CPU
    - Systems with a Single Core CPU – x86 / x64 with a 2.5 GHz minimum clock speed
  - RAM
    - 4 GB
  - Hard Disk Drive
    - Minimum of 50 GB of free disk space

- Recommended hardware requirements:
  - CPU
    - Systems with a Multi Core CPU – x86 / x64 with a 1.5 GHz minimum clock speed
    - Systems with Multiple Physical CPUs – x86 / x64 with a 1.5 GHz minimum clock speed
  - RAM
    - 4 GB
  - Hard Disk Drive
    - Minimum of 80 GB of free disk space

2.3 Analyzable Printer Languages and Drivers

Analyzeable printer languages:

The information, to what extent job features expressed in a certain page description language by a particular printer driver which will be detected by uniFLOW or not, can be retrieved in detail from the DIF (Device Information Files) portal.
There is no guarantee that uniFLOW will be able to detect a particular job feature expressed in one of the printer description languages mentioned below. However, NT-ware will do its best to make uniFLOW compatible with as many devices and printer drivers as possible. To have a device tested, please contact your Canon partner.

In general the following printer languages are analyzable (to a smaller or greater extent) by uniFLOW:

- **PDL (Page Description Languages):**
  - Canon UFR (Ultra Fast Rendering)
    - UFR I
    - UFR II
  - GARO (Canon Proprietary, PDL for Inkjet printers)
  - PostScript
    - Level 3 (PS3)
  - Printer Command Language
    - PCL 3 (no color detection supported)
    - PCL 5
    - PCL 5e
    - PCL 5c
    - PCL 6
    - PCL XL
  - Hewlett Packard Graphic Language
    - HP-GL
    - HP-GL2
  - Hewlett Packard Raster Transfer Language
    - HP-RTL
  - Epson Standard Code for Printers
    - ESC/P2
  - Kyocera Printer Driver Language
    - KPDL

- **Meta Languages:**
  - Canon CPCA (Common Peripheral Controlling Architecture)
  - Printer Job Language (PJL)
• Analyzable Printer Driver Data (accounting via GDI/EMF):
  ○ CAPT (Canon Advanced Printing Technology)
3 Preparation

We strongly recommend to complete the steps below prior to installing uniFLOW. These steps are also lined out in the uniFLOW Pre-ReadMe web page that pops up at installation start, after the display of the uniFLOW License Agreement.

Please disable the virus scanner, installed on the uniFLOW server, so that it does not scan the uniFLOW / Remote Print Server installation folders, the Windows spool folder, the Windows temp folder as well as the data folder of the SQL Server. We recommend to disable on access scanning on these folders and instead enable a scheduled scan during the night.

If you don't do this, uniFLOW / Remote Print Server and the virus scanner could access the same files at the same time, which could lead to several errors.

uniFLOW
- uniFLOW installation folder: %ProgramFiles(x86)\uniFLOW
- uniFLOW installation folder: %CommonProgramFiles(x86)\NT-ware Shared
- Windows spool folder: %SYSTEMROOT%\System32\spool
- Windows temp folder: %SYSTEMROOT%\Temp
- SQL Server data folder

RPS
- RPS installation folder: %ProgramFiles(x86)\uniFLOW Remote Print Server
- Windows spool folder: %SYSTEMROOT%\System32\spool
- Windows temp folder: %SYSTEMROOT%\Temp

Database
- If you use uniFLOW with an external or existing Microsoft® SQL Server 2005 (SP1) or Microsoft® SQL Server 2008 you have to create the uniFLOW database before you install uniFLOW and not during the installation procedure of uniFLOW.
- Also, it is strongly recommended to install Service Pack 2 for Microsoft® SQL Server 2005!

You can download the database installation script at: http://www.nt-ware.com/mom/sql/momdb.zip

- The above is also necessary if you are using the Express Edition of the Microsoft® SQL Server 2005 or 2008.
4 Configuring the IIS

*Internet Information Services (IIS)* is a web server application and set of feature extension modules created by Microsoft. Setting up the IIS correctly is imperative to making sure that things run smoothly on the server.

The following topics Installation on Windows 2003 Server and Installation under Windows 2008 explain in detail how to install the IIS.

4.1 Installation on Windows 2003 Server

If you want to install uniFLOW under Windows 2003 please note the following. In the default configuration of the Internet Information Services (IIS) of the *Windows 2003 Standard Edition*, the ISAPI interface, the *Server Site Includes* as well as the *Active Server Pages* are deactivated. All these Web Service Extensions are however needed in a uniFLOW installation and configuration; therefore the IIS has to be configured as shown in the following screenshot.

![Internet Information Services (IIS) Manager](image)

4.2 Installation on Windows 2008 Server

To install uniFLOW on a Microsoft Windows Server 2008, please observe the following: uniFLOW ships with SQL Express 2005 which is fully compatible with Microsoft® Windows Server 2008.

The Microsoft® Windows Server 2008 IIS7 should be configured the same way as the Microsoft® Windows Server 2003 IIS6. To do so, proceed as follows:

- Open the **Server Manager** (if not open already) and select **Roles** from the menu.
• Go to the Web Server (IIS) role and open the Role Services section.
  o Click Add Role Services to open the Select Role Services window
  o In the Select Role Services window, configure the following:
    ▪ Under Web Server:
      ❖ Under Common HTTP features
        ➢ select all features
      ❖ Under Application Development
        ➢ select all features except CGI which is not required
      ❖ Under Health and Diagnostics
        ➢ ensure HTTP Logging is selected (this option is usually installed by default)
        ➢ ensure Request Monitor is selected (this option is usually installed by default)
      ❖ Security
        ➢ select Basic Authentication
        ➢ select Windows Authentication
        ➢ ensure Request Filtering is selected (this option is usually installed by default)
      ❖ Performance
        ➢ ensure Static Content Compression is selected (this option is usually installed by default)
    ▪ Under Management Tool:
      ❖ ensure IIS management Console is selected (this option is usually installed by default)
      ❖ ensure IIS 6 Management Compatibility is selected with all of its sub-options (these options are usually installed by default)
    ▪ Click Next to continue (this option is grayed out if you made no changes)
  o In the Confirm Installation Selections window, click Install.
  o In the Installation Progress window, wait for the installation to finish. When Installation completed appears beside the Web Server (IIS) role, click Close to finish the installation.
Installation of uF and the SQL 2005 Express edition

A basic installation of the uniFLOW software usually can take place without user intervention. Run the Mom.Exe application from the CD-ROM to start the InstallShield Wizard.

First, in the **Choose Setup Language** window, you will be asked to select the language for setup.

In the **Setup Type window**, select your region.

This "region code" is used to set a default paper size and format in uniFLOW. In general this is used for accounting purposes. All print/copy(scan/fax) formats are then set to A3/A4 or Tabloid/Letter etc., based on the selected installation region.

In the **License Agreement** window, you can read and/or print out the NT-ware Software License Agreement.

At this stage, the Pre-ReadMe web page will open in your browser, lining out the steps to carry out before proceeding with the installation.

In the **Choose Destination Location** window, confirm the installation path, or select another one.
In the **Setup Type** window, you can choose one of the following options:

- **uniFLOW AND Netaphor SiteAudit(TM)**
- **uniFLOW AND SQL2005Express**
- **uniFLOW AND SQL2005Express AND Netaphor SiteAudit(TM)**
- **uniFLOW Only**

These different setup types allow you to install uniFLOW with or without the Microsoft SQL Server and with or without Netaphor SiteAudit(TM).

uniFLOW is based on the Microsoft SQL Server, and is shipped with a license-free version of the SQL Server, the SQL Server 2005 Express. This database is limited to 4 GB data and suffices for a normal installation.

For standard installations it is strongly recommended to install **uniFLOW AND SQL 2005 Express Edition**.

The Netaphor SiteAudit(TM) software is needed for the Advanced Device Management Pack (ADM). The ADM unlocks the Status Notification Workflow role and extends uniFLOW's device reading capabilities (status, counter, consumables).

If you would like to use the features provided with the Advance Device Management Pack, please select **uniFLOW AND SQL2005Express AND Netaphor SiteAudit(TM)**. If you would like to connect uniFLOW with an already existing database and additionally install Netaphor SiteAudit(TM) please choose the setup type **uniFLOW AND Netaphor SiteAudit(TM)**.

Compared with a **uniFLOW AND SQL2005Express installation** there are two differences:
1. For the Netaphor software an additional EULA will be displayed.

Click the radio button next to I accept the terms of the license agreement to continue with the installation. If you would like to have the Netaphor License Agreement printed out, please click the Print button.

2. An additional database will be installed for SiteAudit(TM).

If you would like to test ADM, please observe that the ADM features are only available with a Trial or an Extended Trial license but not in Demo-Mode!

IMPORTANT HINT:

After the installation is completed, open Netaphor SiteAudit and carry out the following steps:
Step 1:
Go to the **Setup menu** and select **Discovery**.

![Discovery menu](image1)

Step 2:
Select the **Networks** tab in the **Discovery Configuration** and uncheck the setting **Discover networks automatically**.

![Networks tab](image2)

Step 3:
Select the **Devices** tab in the **Discovery Configuration** and uncheck the setting **Discover and monitor devices automatically**.

![Devices tab](image3)
Select the devices to be monitored. You may choose to monitor all devices that are automatically discovered, supplement this list, or provide your own list. Either a single device or a range may be specified.

- **Discover and monitor devices automatically**

  Specify additional devices to be scanned:

<table>
<thead>
<tr>
<th>Scan</th>
<th>Starting IP Address</th>
<th>Ending IP Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>
In the **Database Destination** window, confirm the installation path of the SQL 2005 Express, or select another one.

In the **Select Program Folder** window, select the folder where the setup program will add icons linking to the uniFLOW software.
Now the setup program will copy and register the individual uniFLOW program components. This process can take several minutes.

Afterwards, the Microsoft SQL Server 2005 will be installed; this process also can take several minutes.

After a successful installation you need to restart the system to complete the configuration.
Installation of uF only (connecting to an existing SQL database)

If an existing local or external Microsoft SQL Server is required, ensure that the System Administrator (SA) account has been created with a password. This password is mandatory for uniFLOW. If this has not been set up, the uniFLOW database cannot be created via the uniFLOW setup routine.

In the Setup Type window, select **uniFLOW Only** if you want to connect uniFLOW with an existing local or external SQL Server.

In the next Setup Type select where the database is located.
The SQL Server Name window opens next if you choose *External SQL Server on the Network* in the previous window. Enter the IP address or the name of the external SQL Server. Once you have clicked *Next*, the installation process will test the connection to the server.

The next windows are the same for both connecting to an SQL server on this machine or to an external SQL server on the network.

The **SQL Server uninitialized** window is rendered if the SQL Server you have specified is not initialized.

The SQL Server can be initialized automatically by providing a logon user name and password that has administrative access to the SQL Server, typically the *system administrator* account.

*Note that this password is only used to initialize the SQL Server and will not be stored.*
In the SQL Server Setup window, you can enter name and password to initialize the SQL server.

If a uniFLOW database already exists, the installer will not render this window, and the installation process automatically takes you to the next step.

Alternatively you can initialize the SQL Server yourself, by downloading and executing the SQL script from:

http://www.nt-ware.com/mom/sql/momdb.zip

This script automatically creates the uniFLOW database. You can execute it for example by using the SQL Query Analyzer or by using the following OSQL command line:

```
osql /E /i momdb.sql
```
In the **Select Program Folder** window, select the folder where the setup program will add icons linking to the uniFLOW software.

Now the setup program will copy and register the individual uniFLOW program components and will initialize the SQL database. This process can take several minutes.

After a successful installation you need to restart the system to complete the configuration.
Starting uniFLOW

We strongly recommend to carefully consider the notes below after installing uniFLOW. These notes are also lined out amongst others in the uniFLOW ReadMe webpage that pops up after installation is completed.

Important: Do not open the uniFLOW Server Configuration page in different tabs of the same browser instance!

If you open the Server Configuration page of the same uniFLOW installation in multiple tabs within the same browser instance, the browser will use the same session ID in each tab. This may cause unforeseeable changes to your configuration, especially when configuring printers using the printer wizards, or configuring workflows using the Workflow Editor. However, it is no problem to open the uniFLOW Server Configuration pages with different instances in a new window from different computers, as a different session ID is taken.

- Secure Printing with MEAP:
  Secure Printing with MEAP works correctly only with the correct NTFS settings on the Client web.
  In a default installation the security settings of the folder `%ProgramFiles%
  uniFLOW\WebClient` are inherited by the `%systemdrive%`. If the uniFLOW Server is a Domain Controller, please check if the authenticated users have Read & Execute, List Folder Contents and Read access. If you are installing uniFLOW in another location, the security settings are inherited from the parent folder or parent drive.

- uniFLOW temp folder:
  From V4.1 onwards uniFLOW uses its own temp folder by default:
  `%ProgramFiles%\Common Files\NT-ware\Shared\Data\Temp`. The security settings are also inherited automatically.

- Users access rights:
  If the uniFLOW Server is a standalone or a member server, please check if users have Read & Execute, List Folder Contents and Read access. Also, ensure that the IIS security settings for the `pwclient` web `Anonymous Access` and `Integrated Windows Authentication` are checked.

- Integration with Therefore:
  For the integration of uniFLOW from V4.0 onwards with the Therefore TM MFP Connector you may have to manually register the file `%CommonFiles\NT-ware\Shared\RSAEncrypt.dll` depending on the installed Microsoft .NET Framework Version. To register this file search for `regasm.exe` (i.e. C:\windows\Microsoft.NET\Framework\v2.0.50727\regasm.exe).
  In a command shell call:
  C:\windows\Microsoft.NET\Framework\v2.0.50727\regasm.exe "%CommonFiles%\NT-ware\Shared\RSAEncrypt.dll"
For the workflow elements **Scan To Email** and **Enter Email Recipients** to work correctly when Sending/Searchig via Microsoft Exchange Server you have to manually install Microsoft Exchange Server MAPI Client and Collaboration Data Objects 1.2.1.

In case you're connecting to Microsoft Exchange from 2007 onwards the following registry Key is to be set (Note the CDO subkey may need to be created):

HKLM\Software\Microsoft\Windows Messaging Subsystem\CDO

- **Ignore No PF**
  - DWORD
  - Value: 1

Download the Microsoft Exchange Server MAPI Client and Collaboration Data Objects 1.2.1 from the Microsoft Download Center:


In the Explorer start menu you will find several icons linking to the uniFLOW configuration websites now. If you select the uniFLOW Server Configuration, the Internet Explorer opens the info page of the Server Configuration.
You have now entered the uniFLOW Server configuration website, uniFLOW has been installed successfully. Here you first have to activate your software. After that, you can configure all necessary settings and functionalities in the uniFLOW Server Configuration.

A good start is for instance to configure the necessary printers or import users of the 2003/2008 network.
7.1 Demo-Mode

For testing purposes you can leave uniFLOW unlicensed and run the software in Demo-Mode.

The demo-mode includes:

- 1 uniFLOW Basic License
- all Standard and Independent Modules (including 1 Job Conversion Instance and the iW SAM Express Module)
- 1 uniFLOW RPS License
- 1 Scan Processing Server functionality to be used on the main server
- Scan volume limited to 5,000 pages per month
- 2 uniFLOW SSP and Scan per Device Licenses for MEAP
- 2 uniFLOW Login Device Licenses for CMFP
- 2 uniFLOW SPP Device Licenses for non-Canon MFP
- iW SAM Express Module

After 50 jobs (print and/or scan) the uniFLOW admin services need to be restarted.

The document output is watermarked.

*If you would like to test ADM, you have to install a Trial or an Extended Trial license!*

7.2 Trial Licenses and Extended Trial Licenses

For customer test installations you can activate a Trial License or an Extended Trial License.

Below please find a comparison of both versions:
<table>
<thead>
<tr>
<th></th>
<th>Trial Licences</th>
<th>Extended Trial Licenses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Period of validity:</strong></td>
<td>45 days</td>
<td>180 days</td>
</tr>
<tr>
<td><strong>Licenses comprise:</strong></td>
<td>• uniFLOW Basic License Enterprise Edition</td>
<td>• uniFLOW Basic License Enterprise Edition</td>
</tr>
<tr>
<td></td>
<td>• All Standard Modules</td>
<td>• All Standard Modules</td>
</tr>
<tr>
<td></td>
<td>• All Independent Modules (incl. 1 JCI, iW SAM Express Module and Advanced Device Management Pack 100 Devices)</td>
<td>• All Independent Modules (incl. 2 JCI, iW SAM Express Module and Advanced Device Management Pack 100 Devices)</td>
</tr>
<tr>
<td></td>
<td>• 5 uniFLOW Remote Printer Sever Licenses</td>
<td>• 50 uniFLOW Remote Print Server Licenses</td>
</tr>
<tr>
<td></td>
<td>• 5 uniFLOW SSP and Scan per Device Licenses for MEAP</td>
<td>• 200 uniFLOW SSP and Scan per Device Licenses for MEAP</td>
</tr>
<tr>
<td></td>
<td>• 5 uniFLOW SPP Device Licenses for non-Canon MFP</td>
<td>• 200 uniFLOW SPP Device Licenses for non-Canon MFP</td>
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<td></td>
<td>• 5 uniFLOW Login Device Licenses for CMFP</td>
<td>• 200 uniFLOW Login Device Licenses for CMFP</td>
</tr>
<tr>
<td></td>
<td>• 6 File Format Conversion Licenses (watermarked)</td>
<td>• 1 Project Access Pack (PAP) License</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 51 File Format Conversion Licenses (watermarked)</td>
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<td><strong>Document output with watermark</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

For more information on uniFLOW licenses please refer to the latest version of the uniFLOW Licensing guide.

*To be observed when a trial license / extended trial license expires:*

When a trial license / extended trial license expires, uniFLOW runs in Demo-Mode again.

If you set up Secure Printing in the trial / extended trial version, observe the following:

All trial / extended trial print jobs that were sent to the Secure Input Queue will be "printed" once the trial license / extended license expires.

In case the secure input printer is configured to use the nul: port, the print jobs are printed to the nul: port!
If you want to update a trial license / extended trial license to a Device Based License (available since uniFLOW 5.1.0) please refer to the NT-ware Knowledgebase, as this process is not as self-explanatory as updating a trial license / extended trial license to a normal base edition.
8 Activating your software

After installation, the software will work without registration in demonstration mode (after 50 print jobs you will have to restart the services). To access the full working version of uniFLOW, you have to activate the software in the Activation menu of the Module Config. by means of an activation code. This activation code is a code generated by the NT-ware licensing portal and is based on the software license code, the system ID of the PC on which the software is installed and the actual version of the uniFLOW software. To obtain an activation code you should proceed as follows.

If you have purchased a uniFLOW Basic Server License for a Workgroup / Business / Corporate or Enterprise Edition together with one or more uniFLOW modules, you first have to activate the Basic Edition and then follow the same procedure for each module separately.

The Basic Server License comes with one module included.

To enter the activation code open the Activation menu in the Module Config. of the uniFLOW Server Configuration.

The following screen appears:
For activating your uniFLOW Edition the following data needs to be entered or selected respectively:

**License Code:**

The license code is a unique code to be found in the EULA (End User License Agreement) which is either shipped with the software product or sent by email. Either enter or copy and paste the relevant License Code in the field next to License Code.

**Customer Name:**

Enter the customer name.

**Company sector:**

Select the customer’s field of activity.

**Country:**

Select the country where your customer is located.

**Distribution Channel:**

Select the corresponding distribution channel that is to say Canon Direct or Canon Partner. In dependence on the selected option, you have to enter the name of the corresponding channel or partner as well.

**Purpose:**

Select the option that matches this installation’s purpose best: Customer installation, Upgrade, Showroom, Test & trial or Other.

Once you have completed the data click on the **Activate Edition** button. Subsequently, the license code is immediately checked. In the next step you can choose between a manual or an automatic activation of the software.
Here you can choose whether you want to activate the software automatically or manually. For an automatic activation, you will need an internet connection. Note that the uniFLOW Server does not require an internet connection, only the PC with which you connect to the uniFLOW Server needs to have an internet connection. Thus, you can activate uniFLOW conveniently from an administrator’s PC, when it has internet access and can connect to the uniFLOW Server on the local network. You may use proxies to connect to the internet without difficulties.

If you choose an automatic activation, please click the **Activate** button next to **Activate automatically**. Your license code, system ID and name are automatically sent to the NT-ware activation portal. Your activation code will be written in the registry and you will return to the screen shown below.
9 Manual activation of the software

It is also possible to activate the software manually. After clicking **Activate** in the main screen, you are offered three different possibilities to generate an activation code, either online, via Email or via fax.

If you choose the online possibility, then please click on **here***. Now your web browser will open and you will automatically be directed to NT-ware’s licensing website, where all the required fields will have been filled out automatically.
Click on the submit button. You will then enter a screen in which you can check your entries. If you click the Activate button here, the following screen opens.

You can now copy the activation code to your clipboard or print out this site.
Another way to generate an activation code manually is to open your browser and key in the address of our licensing website:

http://ntwlabib.dnsalias.com/license/index.php

The required fields then have to be filled out manually. Once you have entered all necessary information, you can click the **submit** button and you will enter the same screens as described above.

If you want to receive your activation code per Email, you can click on the licensing@ntware.com link. In the generated Email the information required for generating the activation code is already listed. Behind your text in the mail you can add some additional information of your choice. Upon receiving your request we will send you your activation code as soon as possible.

If you want to receive your activation code per fax, please send a fax to: +49-5403-780103. In the fax, please include the following information:

- serial number
- version
- license code
- system ID
- customer name
- contact details, for example name/address to which the activation code should be sent

When you have received your activation code you can enter this code into the **Manual Code** input field on the uniFLOW activation screen and click the **Activate** button to activate your software.
After activating the base server edition you return to the main Info screen.

If you open the Module Config. / Activation page, you can start the activation of purchased modules if applicable.

The Re-activate button in the server edition section is used for the activation of updates and upgrades.
For the activation of a software module, the activation procedure is the same as for the server edition. Select the desired **Module Name** to activate and enter the **License Code** for the module. Proceed with the activation as described above.

After successfully activating an additional module, a check mark appears in front of the licensed module, as is shown in the following image.
If you have to reactivate your server edition, when upgrading, all activated modules will automatically be disabled and have to be activated again.
**uniFLOW Update Wizard**

This chapter describes how to upgrade from a former uniFLOW version to uniFLOW V5.1.1.

**uniFLOW V5.1.1 ships with a new module called Advanced Device Management (ADM).** For the advanced monitoring of third party devices that is part of the ADM module, uniFLOW makes use of an integration with the SiteAudit software. As SiteAudit requires its own database and installation routine, the uniFLOW Update Wizard (MomUpdate.exe) cannot be used.

*Is it of particular importance that you follow this chapter in case you want to update from a former uniFLOW version and want to use the ADM Module.*

**Upgrade uniFLOW older than V5.0**

*If you want to upgrade from a version older than V5.0, we recommend to uninstall uniFLOW and to install V5.1.1 afterwards. Note, that after the uninstallation and the installation of the new version a server restart is mandatory. As you will also lose all active print jobs in the system, it is highly recommended to plan the upgrade procedure accordingly.*

**Upgrade uniFLOW V5.0 onwards**

*If you want to upgrade from uniFLOW V5.0 and you don't need the ADM module, which is first available with a uniFLOW V5.1.1 installation, you can use the uniFLOW Update Wizard (MomUpdate.exe) to upgrade to uniFLOW V5.1.1.*

*In case you need the ADM module, please upgrade as described in the following:*

- Uninstall uniFLOW V5.x
- Restart your server
- Create the SQL database for Site Audit using the momsiteaudit.sql script which can be downloaded here.
  - To do so, open your Microsoft SQL Server Management Studio (Express) on your uniFLOW Server. Note that you have sufficient rights to create a database with the logged in user if you open the Microsoft SQL Server Management Studio (Express) from a remote server.
  - Navigate to Databases
  - Click on Open File and select the momsiteaudit.sql file
  - Connect to your SQL Server
  - Click on Execute
- The MomSiteAudit database will be created and appears under Databases
  - Install uniFLOW V5.1.1
  - Restart your server

For more information about the ADM module, refer to the uniFLOW User Manual.

If you want to update your system, we highly recommend updating the uniFLOW Server, as well as all RPS’s. Keep in mind that you need to update the uniFLOW Server first and then the RPS’s after that. We do not recommend using different versions of the uniFLOW Server and the connected RPS’s.

Note that cluster installations are different. Please also refer to the respective cluster manual.

Upgrade uniFLOW V5.1.1 onwards

You can easily update your uniFLOW version from version 5.1.1 onwards to the latest available software version by means of the uniFLOW Update Wizard. With the Update Wizard there is no need to uninstall the previous version and manually reinstall a later version, everything is automatically taken care of by the Update Wizard.

Note that the Update Wizard will not update the Scan Processing Server (MomSpaceSuit) automatically. It will update the Scan Processing Server installer only.

To update the Scan Processing Server, please run the updated MomSpaceSuit.exe installer on the server where the Scan Processing Server is installed.

The Update Wizard is available alongside the normal latest version – they both ship with a new software package and are also available on the normal download sites – so you can choose, whether you want to do a new installation or update an existing uniFLOW version via the Wizard.
You must have system administrator rights to be able to perform an update: upon execution, the Update Wizard will check if the executing user has administrative rights before it will actually start replacing files in an installation. Moreover, the Update Wizard will check the available hard disk space: for security reasons (a backup of all affected files is made before the update starts) at least one Gigabyte of free hard disk space is necessary in order to be able to perform an update. With regards to updating Server Cluster installations, please note that it is not possible to use the Update Wizard, an update to a later version has to be performed manually. In case the updating of a Server Cluster installation is attempted with the Update Wizard, the software will detect this circumstance and terminate its execution with a corresponding warning message.

When you start the uniFLOW Update Wizard the following screen appears and you will be guided through the update procedure.

The Update Wizard automatically creates a backup of the current installation in the following folder:

```
[uniFLOW installation folder]\_MupBkp[wizard execution timestamp][currently installed kernel version]
```

A protocol file with the name `log.csv` can also be found in this backup folder. This file can be viewed with Microsoft Excel or a text editor.

If you have customized certain files for your old installation, these files will be stored in a newly created `todo` folder: `[uniFLOW installation folder]\_todo\`

In this folder you will also find a descriptive text file containing customization instructions. The name of this text file is `update_[wizard execution timestamp][currently installed kernel version][update package kernel version].txt`. 

The Update Wizard automatically detects whether the locally installed software is an RPS installation or a uniFLOW Server installation. If the software is an RPS, the RPS is updated appropriately. If the software is a uniFLOW Server, it is updated appropriately.
11 Upgrade from uniFLOW SSP to uniFLOW

This chapter describes how to upgrade from uniFLOW Serverless Secure Printing (uniFLOW SSP) to uniFLOW V5.X.

11.1 MEAP devices

The upgrade procedure can be split into two steps:

1) Uninstall uniFLOW SSP
   a) SSP PC Client
      Uninstall the uniFLOW SSP PC client from all workstations.
   b) SSP Licenses
      Leave the MEAP applets untouched on each Canon device. The “old” MEAP applet licenses you’ve used with uniFLOW SSP can be used in uniFLOW without any further licensing procedures.
      After the installation of uniFLOW has been done, a maximum of five uniFLOW SSP device licenses can be activated in uniFLOW.

      In case you want to use MiCard HID Readers in uniFLOW, which you have previously used in uniFLOW SSP, observe to disable the following option:
      • MiCard V2 HID: use extended data.
      This parameter will automatically be activated in uniFLOW SSP environments. However, in uniFLOW environments it has to be disabled!

2) Install the uniFLOW Server
   a) Install the uniFLOW Server.
   b) Once uniFLOW has been installed, you can start configuring the secure print workflows and printers.
      The max. number of former MEAP applet licenses with SSP is five. Up to five MEAP applets can be used within uniFLOW.

      Note that these MEAP licenses are not shown on the uniFLOW Info page.
      For each additional MEAP enabled Canon device, you will need a separate MEAP license.
SSP with CMFP devices is only available in USA and Canada.

The upgrade procedure can be split into two steps. As the de-activation of the CMFP licenses is done via the SSP PC client you should first de-activate the CMFP licenses and delete the SSP PC client afterwards.

1) Uninstall uniFLOW SSP

a) Deactivation of CMFP Licenses

Deactivate the uniFLOW SSP device licenses as follows:

Select the device in question from the Available devices list in the SSP Status Page, click on the License Information button and then click on the Remove License button. After having confirmed a corresponding popup message, the deactivation dialog will be displayed. By clicking on the Deactivate License button, the uniFLOW SSP client software will attempt to deactivate the license in the NT-ware License Portal, and remove the license from the device.

After having clicked on the Deactivate License button, an active progress bar indicates that the deactivation process is running. Once this process has been completed, you will be informed if the deactivation has been successful or not. In case the deactivation was not successful, the reason of the failure will be indicated as well.

After a successful license deactivation, the license code which has been deactivated will be displayed in the deactivation dialog. This license code can now be used again for activating the same or a different device in uniFLOW. It is advisable to copy and store the deactivated license code(s) on your harddisk. For information on the activation of CMFP devices in uniFLOW please refer to CMFP - Device Activation and Deactivation.

b) SSP PC Client

Uninstall the uniFLOW SSP PC client from all workstations.
Please observe that an internet connection is mandatory for the deactivation process to be carried out successfully, because the uniFLOW SSP PC client has to communicate with the NT-ware License Portal.

2) Installation of uniFLOW

a) Install the uniFLOW Server.

b) Once uniFLOW has been installed, you can start configuring the secure print workflows and printers. To use the Secure Document Release features of your CMFP devices you have to re-activate the deactivated SSP licenses in uniFLOW. The max. number of former SSP device licenses for CMFP devices is five. For more information on the activation of CMFP devices in uniFLOW please refer to CMFP - Activation.

For each additional CMFP device, you will need a separate MEAP license.
12  System ID-Dongle (USB only)

It is possible to purchase a system-ID dongle along with your uniFLOW software. The system-ID dongle is merely a replacement of the system-ID of the PC for activation purposes. In this case, the activation code that will be generated by the NT-ware License Portal is not bound to the ID of the computer, but to the ID of the dongle, thus allowing you to move the license between different computers.

The following paragraph gives detailed information on how to activate your system via System ID Dongle.

12.1  Step-by-Step Instructions for an Activation via System ID Dongle

1. Install the Dongle Software from:
   
   C:\Program Files\uniFLOW\Support\Dongle\SSD5411.32bit.exe

or go to Sentinel's Technical Support Site and download the latest driver.
Having started the execution of the exe-file the 1st page of the InstallShield Wizard is displayed and the wizard guides you through the installation.

Click on **Next** to continue the installation.

In this screen you have to accept the License Agreement by clicking in the respective radio button. Select **Next** to go to the **Destination Folder** screen.
In this screen the default path for the installation of the Sentinel System Driver is displayed. If you need to change this path click on the Change button. Then you can specify another path. Clicking on the button Next will guide you to the Setup Type screen.

Select the Setup Type you wish to be carried out either Complete (default setting) or Custom.
Step-by-Step Instructions for an Activation via System ID Dongle

If you decide Custom you can further specify the install behavior for the Parallel System Driver, the USB System Driver and the Sentinel System Driver Help. For this purpose click on the arrow in front of a component and a drop down list will be displayed where you can select the installation behavior for each of the three components separately.

Decide whether you want to install the feature with or without all sub-features on your local hard drive, respectively if the feature should be available at all and select the appropriate option. With Next the setup is continued and an information screen is displayed in which you are asked to remove all USB SuperPro keys before starting the actual installation of the driver.
Having clicked on the *Install* button the *Finish* screen is displayed. Clicking on *Finish* will then complete the installation.

A server restart might be necessary.

2. Put the USB Dongle into the USB port
3. Restart the uniFLOW Services via *Start/All Programs/uniFLOW/Admin Service*

When using the dongle the System ID has to be different from the System ID without dongle. (You will find the System ID on the *Info* site of the *Server Config*, and on the 1st side of the submenu *Activation* in the *Module Config*).

Now you can activate all uniFLOW licenses.

To allow an activation of uniFLOW by means of this System-ID dongle, namely on another server you have to export the below Registry Key:

```
HKEY_LOCAL_MACHINE\SOFTWARE\NT-ware\LicenseManager
```

After the import of the above mentioned Registry Key has been carried out you can activate uniFLOW on another server by repeating the above described steps 1 – 3.
13 Uninstall

The standard installation of uniFLOW includes the following software components:

- uniFLOW
- NT-ware .NET Statistic Engine
- Sentinel Dongle Driver (when a dongle is used)

All these components are listed in the program list and can be uninstalled separately. The uninstallation routine of uniFLOW does not remove the other software components which were installed during the uniFLOW installation. For a complete uninstallation, all software components have to be uninstalled separately.