Uniflow user manual 5.4



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Thursday, August 31, 2017, Bad Iburg (Germany) Important Note Serious problems might occur if you modify the registry of your Windows operating system incorrectly. These problems might require that you reinstall the operating system. We strongly recommend to always back up the registry of your Windows operating system. impact on the operating system after changing the registry. You understand and accept that you use this information and modify the registry of your Windows operating system at your own risk. uniflow and corresponding components like Web Submission and Internet Gateway rely heavily on their SQL databases. We strongly suggest that you refrain from modifying these SQL databases manually without prior consultation from the NT-ware support team. NT-ware does not assume responsibility or liability for possible impact on your uniflow environment after modifying any of the SQL databases. Copyright and Contact NT-ware Systemprogrammierungs-GmbH Niedersachsenstraße Bad Iburg Germany5 Tel: Fax: Register of Companies: Amtsgericht Osnabrück No. of entry in Register of Companies: HRB Chief Executive Officer: Karsten Huster VAT registration no. according to 27 a Umsatzsteuergesetz: DE NT-ware Systemprogrammierungs-GmbH. Feedback Should you come across any relevant errors or have any suggestions please contact or use the Send feedback here button of the uniflow Online Help. Technical support first technical support, ensure you have read this document.6 How to use this Document Text Styles This style is used for text that is displayed on screen. This style is used for text the user has to type in. This style is used for hyperlinks to web pages, internal links to other pages in this manual. This style is used for the correct functioning of the uniflow software. Further Information: Pointer to additional manuals, installation manuals, white papers or the NT-ware Knowledgebase. Region Specific Feature: Indicator for uniflow features that are not available worldwide. External Link: Link to an external web page. Settings: Detailed explanation of configuration settings or operational procedures. Compass: Path to the menu or configuration page in the software. Screenshots and Diagrams This manual contains screenshots of the software, diagrams explaining relations and pictures of products. Even though all visuals are up-to-date at the time of writing, they are subject to change. Language and Translations This document has originally been written in English language. Translations of this document are based on the English original. Some screenshots, diagrams and pictures in this document may not be translated and appear in English language only. 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However, NT-ware reserves the right to make changes without notice.8 9 Contents Optional Third-Party Software Hardware Analyzable Printer Languages and Drivers Preparation IIS Configuration Windows Server Windows Server Windows Server 2012/ HTTPS Usage uniflow and SQL 2008 R2 Express uniflow Only (connecting to an existing SQL database) Starting uniflow uniflow for SMB uniflow Capture Not-for-Resale License Trial License Extended Trial License Access Control and ACL Reset Interface Certificate Installation on Windows Certificate Installation on OS X Software Activation Automatic Bulk Licenses 110 Contents 12.3 Manual Third-Party Software uniflow V5.1 or Higher uniflow V Uniflow Older than V RPS Older than V uniflow Clients for Windows and Mac Scan Processing Server Update to uniflow V5.4 while adding Advanced Device Management (ADM) uniflow SSP to uniflow Upgrade MEAP Devices System ID Dongle (USB only) System ID Dongle (USB only) System ID Dongle Activation Uninstallation II11 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. ticketing, secure printing or workflow functionality, but all these items in one consistent package. 2 System Requirements For general compatibility List for NT-ware Knowledgebase. Please note that registration is required in order to access the NT-ware Knowledgebase. Access to the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase, please contact your Canon partner. 2.1 Operating Systems Client Operating Sys operating systems are supported (since uniflow V5.3 with Windows 7 or higher). However, there are a few limitations which need to be considered. Please refer to the White Paper - Software Compatibility List for NT-ware Products (MOMKB-471 (to be found in the NT-ware Ended). limitations of uniflow on a client operating system in detail. Read this white paper before you plan to install uniflow on a client operating system. Please note that registration is required in order to access the NT-ware Knowledgebase. Access to the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase, please contact your Canon partner. 112 uniflow and RPS uniflow and the Remote Print Server, Domain Controller and Microsoft Small Business Server, Server (SBS), Active Directory Domain Controllers and Microsoft Exchange Servers are supported, but not by default. For more information, please refer to the white paper Installing uniflow on a Microsoft Windows Small Business Server (MOMKB-632 (in the NT-ware Knowledgebase. Please note that registration is required in order to access the NT-ware Knowledgebase. Access to the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase, please contact your Canon partner. Standard installation with a graphical user interface Internet Information Services (IIS) 7.0 (prepared for a uniflow installation) Internet Explorer 11 Windows Server 2012 Standard installation with a graphical user interface Internet Information Services (IIS) 8 (prepared for a uniflow installation) Internet Explorer 10 Windows Server 2012 R2 Standard installation) Internet Explorer 11 213 Windows Server 2016 Standard installation with a graphical user interface Internet Explorer 6 to 10 are known to be compatible with uniflow. However, as Microsoft has discontinued the support for these versions, NT-ware will no longer test older Internet Explorer versions than Internet Explorer 11. For more information, please refer to the white paper Software Compatibility List for NT-ware Knowledgebase. Please note that registration is required in order to access the NT-ware Knowledgebase. Access to the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase, please contact your Canon partner. 2.2 Required Software Components Microsoft.NET Framework versions. This applies to each Windows server system where uniflow or the RPS are to be installed. If the required Microsoft.NET Framework is not present on the system, the uniflow installer automatically installer automatically installer automatically installer. NET Framework 4 The automatically installation. Database SQL Server 2008 R2 Express Edition is delivered with each uniflow installer and can be installed locally during the installation routine. If the SQL Server 2008 R2 Express Edition's maximum storage capacity of 10 GB is not sufficient, a separate Microsoft SQL Server 2008 R2 Express Edition is delivered with each uniflow installer and can be installed locally during the installed lo compatible with uniflow: Microsoft SQL Server 2005 (Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server 2008 R2 (Datacenter, Enterprise, Standard, Workgroup, Express) Microsoft SQL Server Express Edition) Microsoft SQL Server 2014 (Business Intelligence, Enterprise, Standard, Express Edition) Microsoft SQL Server 2016 (Enterprise, Standard, Express Edition) For more information, please refer to the white paper Microsoft SQL Server 2016 (Enterprise, Standard, Express Edition) For more information is required in order to access the NT-ware Knowledgebase. Access to the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase, please contact your Canon partner. 2.3 Optional Third-Party Software 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 Active Directory (LDAP) Microsoft Active Directory (LDA Please create a MOMPS issue in the NT-ware ITS for this. Document Previews and document conversions, for example in workflows for Mobile Printing, require one of the following software packages listed below, depending on the desired functionality. More information can be found in the corresponding chapters. Neevia Document Converter Pro OpenOffice Foxit SDK Foxit Reader Adlib Express Jaws RedTitan EscapeE 415 Document Security/Management iw SAM Therefore Document Preparation Océ PRISMAprepare Virtualization Platforms VMware Hyper-V Variable Data Printing Printable FusionPro For general compatibility questions, please refer to the white paper Software Compatibility List for NT-ware Knowledgebase. Access to the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase is limited to trained Canon personnel only. ware Knowledgebase, please contact your Canon partner. 2.4 Hardware This topic describes the recommended minimum hardware requirements will vary based on your system configuration, please refer to the whiteen to the paper uniflow Hardware Scoping (MOMKB-788 (in the NT-ware Knowledgebase. Please note that registration is required in order to access the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase. please contact your Canon partner. Minimum Hardware Requirements CPU: Dual-Core CPU with 3 GHz RAM: 4 GB 516 Hard Disk Drive: 500 GB NT-ware recommends dedicated server hardware. 2.5 Analyzable Printer Languages and Drivers In general the following printer languages are (to a smaller or greater extent) analyzable by uniflow: PDL (Page Description Languages) Canon UFR (Ultra Fast Rendering) o UFR I o UFR II GARO (Canon Proprietary, PDL for Inkjet printers) PostScript o Level 3 (PS3) Printer Command Language o PCL 5 o Raster Transfer Language o HP-RTL Epson Standard Code for Printers o ESC/P2 Kyocera Printer Job Language (PJL) 617 (Common Peripheral Controlling Architecture) Printer Job Language (PJL) 617 Analyzable Printer Driver Data (accounting via GDI/EMF) CAPT (Canon Advanced Printing Technology) The information, to what extent job features expressed in a certain page description language by a particular printer driver will be detected by uniflow or not, can be retrieved in detail from the DIF (Device Information Files) portal: (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. 3 Preparation Please complete the steps are also lined out in the uniflow. These steps are also lined out in the uniflow end of the display of the displa uniflow License Agreement. The Pre-ReadMe and Readme files are located under: C:\Program Files (x86)\uniflow\readme Antivirus Software that is installed on the uniflow server, so that it does not scan the folders (and their subfolders) listed below. We recommend to disable on access scanning of these folders (and their subfolders) and enable a scheduled scan during the night instead. uniflow RPS uniflow installation folder: %ProgramFiles(x86)%\uniFLOW uniflow installation folder: %SYSTEMROOT%\System32\spool SQL Server data folder: were defined RPS installation folder: %SYSTEMROOT%\System32\spool SQL Server data folder: %SYSTEMROOT%\Spool Server data folder: %SY folder: %ProgramFiles(x86)%\uniFLOW Remote Print Server Windows spool folder: %SYSTEMROOT%\System32\spool 718 Database If you use uniflow with an external or existing Microsoft SQL Server 2005 (SP2), Microsoft SQL Server 2008/2012/2016 you have to create the uniflow database before you install uniflow and not during the installation procedure of uniflow. Install Service Pack 2 for Microsoft SQL Server The above is also necessary, if you would like to connect uniflow to an external Microsoft SQL Server 2005, 2008, 2012 or 2016 Express Edition. You can download the database installation script from: (4 IIS Configuration 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 2003. first make sure that in the Internet Information Services (IIS) Manager the following Web Service 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 2003. Extensions are set to Allowed: Active Server Pages All Unknown ISAPI Extensions Server 2008 R2 on and higher the below described configuration will automatically be done by the Mom InstallShield Wizard i.e. the uniflow installer. Prior to the installation, the Mom InstallShield Wizard checks the IIS configuration. Click on Install to trigger an automatic configuration of the IIS role and the IIS services that are required for a uniflow installation. After the IIS configuration has been completed, the uniflow installation can be continued. Windows Server 2008 Proceed as follows to prepare the Microsoft Windows Server 2008 IIS7 for the uniflow installation: 1. Open the Services section. a. Click Add Role Services to open the Select Role Services window, configure the following: Under Web Server: Under Common HTTP features: Select HTTP Redirection (all other options are usually installed by default). Note that Web-DAV-Publishing is only required in case you want to use the uniflow server as target in a Scan-to-WebDAV environment. 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). Performance: Ensure Static Content Compression is selected (this option is usually installed by default). Under Management Tools: 920 Ensure IIS Management Console 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). c. In the Confirm Installation to finish. When Installation completed appears beside the Web Server (IIS) role, click Close to finish the installation. We also recommend to install the Print and Document Server 2012/2016. Prior to the installation, the Mom InstallShield Wizard i.e. the uniflow installer configures the IIS. If IIS components that are required for uniflow are missing, the installer the required default communication protocol for uniflow. A redirection mechanism from HTTP to HTTPS is in place. 1021 In order to use HTTPS as a communication protocol, a self-signed certificate in the IIS during the installation of uniflow. You can replace the certificate in the IIS afterwards in case a different certificate should be used. The self-signed certificate is unique to each installation and is valid for 10 years. Afterwards it needs to be renewed. We recommend to add this self-signed certificate is unique to each installation and is valid for 10 years. accessing uniflow web pages in a browser (Certificate Installation on Windows (on page 31)). This should be done after the uniflow installed in the IIS manager. This may be required for example, if you need a certificate from a trusted root certification. authority. You can get such certificates for example from VeriSign or others. In case you need to replace or renew the certificate in the IIS, please refer to the Microsoft Knowledgebase (KB (For further information about security related settings during the installation procedure, see chapter uniflow and SQL 2008 R2 Express (on page 11). Updating uniflow and HTTPS In case you want to update uniflow using the uniflow using the uniflow server anymore. Please refer to HTTP/HTTPS Communication (on page 46) for details. For details about upgrading Remote Print Servers, please refer to the respective subchapter of the uniflow and SQL 2008 R2 Express Windows Firewall The required during the installation. This servers, please refer to the respective subchapter of the uniflow update (on page 43) chapter. 6 uniflow and SQL 2008 R2 Express Windows Firewall The required during the installation. works as of Windows Server When uninstalling the software, these rules are automatically removed. Run the Mom. Exe application to start the Mom InstallShield Wizard detects that the IIS configuration does not meet the uniflow requirements, the missing items are listed in a window. Click Install to start the installation of the missing items. In case Microsoft.NET 3.5 SP1 (Windows feature) is not yet installed, the Mom InstallShield Wizard will prompt you to install it and also provide the required resources. 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., depending on the selected installation region. In the License Agreement. If IIS is currently running in 64-bit mode, this window will pop up in the next step, 1223 because IIS has to be set to 32-bit mode for uniflow to work correctly. Please choose Yes, if you want uniflow setup to automatically set IIS to 32-bit mode for uniflow to work correctly. sure no other applications requiring IIS in 64-bit mode are running on your system, for setting IIS to 32-bit mode, might break them. 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: o uniflow AND SQL Server 2008 R2 Express o uniflow is based on the Microsoft SQL Server, and is shipped with a license-free version of the SQL Server, the SQL Server 2008 R2 Express. This database is limited to 10 GB data and suffices for a normal installation. For standard installation window, confirm the installation path of the SQL 2008 R2 Express. 1324 In the Database Destination window, confirm the installation path of the SQL 2008 R2 Express. Select Program Folder window, select the folder where the setup program will add icons linking to the uniflow installation. Communication and synchronization settings for the uniflow installation procedure can be started, important communication and synchronization settings have to be specified. These settings will fundamentally influence the way the local uniflow installation. In order to avoid this, please read the information in this section thoroughly and select the corresponding options carefully. o Require communication via secure channel (HTTPS): If this option is selected for the installation procedure is finished - only be accessible using a secure channel (HTTPS). As a consequence of this, already installed remote print servers and clients (i.e. machines where the uniflow client software is installed) which originate from a version prior to uniflow V5.2 will 1425 o o not be able to connect to this uniflow server any more, as these older systems can only communicate via HTTP. In order to avoid such communication problems, only a version prior to uniflow V5.2 will 1425 o o not be able to connect to this uniflow server any more, as these older systems can only communicate via HTTP. In order to avoid such communication problems, only a version prior to uniflow version prior version prio select this option if all remote print servers and clients which are connected to this uniflow V5.2 or later. Installation procedure, a self-signed SSL certificate for secure communication will be installed in IIS during the installation procedure (replacing an existing) SSL certificate, if any). In case this option is deselected but communication via secure channel (HTTPS) is required, please make sure that an SSL certificate for secure RPS synchronization: In uniflow V5.2 and later, the synchronization of connected remote print servers can be secured with the necessary help of signed communication packets. With this functionality, the identity of a remote print server is verified during a synchronization process. Please be aware that this functionality is completely independent from any HTTPS settings used in an installation. If this option is selected for the installation procedure, the uniflow server will - as soon as the installation procedure is finished - perform RPS synchronizations in a secured way, based on signed communication packets. As a consequence of this, already installed remote print servers which originate from a version prior to uniflow V5.2 will not be able to synchronize correctly with this uniflow server any more. In order to avoid such communication problems, only select this option if all remote print servers which are connected to this uniflow V5.2 or later. In the following Setup Type screen, you can select whether only HTTPS communication should be allowed for the internal HTTP server. If this option is selected, only HTTPS requests are allowed for communication with the internal HTTP server. Please only select this option, if all communication via HTTPS. 1526 Enabling the Enforce HTTPS option requires components which communicate with the internal HTTP server to support communication via HTTPS. HTTP requests are not accepted. Therefore, make sure that the following components have at least been upgraded to the requires V4.2 or higher. o Scan Processing Server requires V4.2 or higher. o Scan Processing Server requires V4.2 or higher. higher. o Remote Print Server (RPS) requires uniflow V5.3 or higher. o uniflow Universal Driver requires uniflow V5.3 or higher. EAI mobile and uniflow Embedded Applets (Multi-Vendor Support) are not affected by this setting and are still able to communicate on the HTTP port. In the next Setup Type screen, you can select whether the uniflow server as a slave server. If you chose Install slave server in the previous screen, the Enter slave server settings screen asks you to enter the master server and the frequency this server shall be contacted (in seconds). The values entered here are automatically entered under uniflow Server Configuration > Server Configuration > Server Configuration. Now the setup program will copy and register the individual uniflow program components. This process can take several minutes. After a successful installation you need to restart the system to complete the configuration. 7 uniflow Only (connecting to an existing SQL database) Requirements If an existing local or external Microsoft SQL Server is required, ensure that the System Administrator (SA) account has been created with a password is mandatory for uniflow. If this has not been set up, the uniflow database cannot be created via the uniflow setup routine. On a Microsoft SQL Server 20xx Express installation, ensure that the SQL Server authentication is configured for "Mixed mode" (Windows Authentication and SQL Server Authentication with password for the System Administrator (SA) account). Windows Firewall The required Windows Firewall rules are automatically set and configured during the installation. This works as of Windows Server When uninstalling the software, these rules are automatically removed. 1728 Run the Mom. Exe application to start the Mom InstallShield Wizard. Please proceed through the installation, until the Setup Type window appears. If IIS is currently running in 64-bit mode, this window will pop up in the next step, because IIS has to be set to 32-bit mode for uniflow to work correctly. Please choose Yes, if you want uniflow setup to automatically set IIS to 32-bit mode and continue with the installation. If you choose No, setup will abort without doing anything. Before clicking Yes, please make sure no other applications requiring IIS in 64-bit mode, might break them. In the Setup Type window, select uniflow Only if you want to connect uniflow Only if you want to connect uniflow External SQL Server. In the next Setup Type select where the database is located. 1829 If you choose External SQL Server on the Network in the previous window, the SQL Server on the name of the external SQL Server and click Next to continue. 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. In the window SQL Server Account Password, please enter the password of the user "PbaIp" which is used to connect to the database. A preconfigured standard password and the connection to the SQL Server will be tested. If the password was correct and the SQL Server initialized properly, the Select Program Folder will appear. Should this be the case, please go to the last screenshot of this chapter. If you entered the wrong password for the user "PbaIP" or the SQL Server you have specified is not initialized, the Wrong Password or SQL Server uninitialized window is opened. If you want to try again and enter a different password, please click Back to return to the previous window. Otherwise, click Next to proceed to the SQL Server can be initialization. The SQL Server can be initialization. Server, typically the System Administrator (SA) account. 1930 Note that this password is only used to initialize the SQL Server and that it will not be stored. In the SQL Server and that it will not be stored. In the SQL Server and that it will not be stored. script from: (This script automatically creates the uniflow database. You can execute it for example by using the SQL Query Analyzer or by using 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 can take several minutes. After a successful installation you need to restart the system to complete the configuration. 8 Starting uniflow We strongly recommend to carefully consider the notes below after installing uniflow These notes are also lined out in the uniflow Installation ReadMe web page that pops up after the installation is completed. Important: Do not open 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, for instance when configuration pages with different instances in a new window or from different computers, as a different session ID is taken. uniflow Temp Folder uniflow uses its own temp folder by default: %ProgramFiles%\Common Files\NT-ware Shared\Data\Temp The security settings are also inherited automatically. Secure Printing with MEAP Secur 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. User Access Rights If the uniflow server is a stand-alone 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 site Anonymous Access and Integrated Windows Authentication are checked. Integration with Therefore For the integration of uniflow with the Therefore MFP Connector you may have to manually register the file %CommonFiles%\NT-ware Shared\RSAEncrypt.dll depending on the installed Microsoft.NET\Framework\v \regasm.exe) In a command shell call: C:\windows\Microsoft.NET\Framework\v \regasm.exe "%CommonFiles%\NT-ware Shared\RSAEncrypt.dll" Integration with Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending/Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending/Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending/Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending/Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending/Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending/Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending/Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending/Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending Searching via Microsoft Exchange Server For the Workflow Elements Scan To and Enter Recipients to work correctly when Sending Searching via Microsoft Exchange Exchange Server MAPI Client and Collaboration Data Objects In case you are connecting to Microsoft Exchange from 2007 onwards the following registry key is to be set (note the CDO subkey may need to be created): Key: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows Subsystem\CDO Value Name: Ignore No PF Value Type: DWORD Value Data: 1 Messaging Download the Microsoft Exchange Server MAPI Client and Collaboration Data Objects from the Microsoft Download Center: bff2-0a e&displaylang=en 2233 (-bff2-0a e&displaylang=e Configuration for the very first time, the Internet Explorer opens with a security message in case you did a fresh installation. This message informs you about ACL security settings for the uniflow Server Configuration web which are made to secure uniflow by default. Refer to chapter Access Control and ACL Reset Interface (on page 29) for details. After confirming the Security notes for your new uniflow installation message with OK, the Quick Start page of the Server Configuration. The Quick Start page of the Server Configuration. The Quick Start page of the Server Configuration opens. Here you first have to activate your software (see Software Activation (on page 34)). After that, you can configure all necessary settings and functionalities in the uniflow Server Configuration. The Quick Start page helps you setting up the most important features in a meaningful order. 8.1 uniflow is distributed via Canon Inc. For more information on how to obtain our products in your region, please refer to the Canon contact information page on our website (2334 8.1.1 uniflow Demo Mode For testing purposes you can leave uniflow unlicensed and run the software in one of the following demo modes: uniflow Capture (on page 26) After 50 jobs (print and/or scan) the uniflow Admin Service (uniflow Server) needs to be restarted. The document output is watermarked. Change Demo Mode Go to uniflow Server Configuration > Module Config. > Activation. In section Demo Mode, select the desired uniflow for SMB o uniflow for SMB o uniflow Capture Click Change Demo Mode. standard modules. All additional licenses o Remote Print Server Licenses o 1 JCI Licenses o 2 File Format Conversion Licenses for Canon MEAP enabled MFPs 2 uniflow SPP Device Licenses for Canon MEAP enabled SFPs 2 Scan Device Licenses for ScanFront 2 Scan Device Licenses for Scan Simulator 2 uniflow SPP Device Licenses for non-canon MFPs. 2 uniflow SPP Device Licenses for Canon CMFPs. 2 uniflow SPP Device Licenses for Canon CMFPs. 2 uniflow SPP Device Licenses for Scan Fort Network Scanners 2 uniflow SPP Device Licenses for Scan Fort Network Scan time: MEAP Scan Behavior License Scan Device License for Scan Front Scan Device License 2 MEAP Device License 2 MEAP Device License 2 Device Upgrade License 2 MEAP Device License 2 MEAP Device License 2 Device Upgrade License 2 MEAP Device License 2 for MEAP 1 Remote Print Server 1 Job Conversion Licenses for Canon MEAP enabled SFPs In addition, the following modules/licenses can be activated by hand: 2 MEAP Scan Behavior Licenses for ScanFront 2 Scan Device Licenses for Scan Device for Scan Simulator Rules & Routing Desktop Accounting uniflow Scan Workflow for CMIS uniflow Scan Workflow for CMIS uniflow Scan Workflow for ContentServer uniflow Scan Workflow for CMIS SharePoint uniflow Scan Workflow for ToolBox uniflow Scan Workflow for ToolBox uniflow Scan Workflow for imanage Work Advanced Configuration 2 uniflow Scan Workflow for ToolBox uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for ToolBox uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for ToolBox uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for ToolBox uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for ToolBox uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configuration 2 uniflow Scan Workflow for Imanage Work Advanced Configura be active at the same time: MEAP Scan Behavior License Scan Device License for ScanFront Scan Device License for Scan Simulator 2536 uniflow Capture includes the following modules/licenses: 2 MEAP Device License 2 MEAP Scan Behavior License 2 Device Upgrade License for MEAP 1 Remote Print Server 1 Job Conversion Instance 2 File Format Conversion License 2 PCL Job Conversion License uniflow Scan Workflow for CMIS uniflow Scan Workflow for ODBC uniflow Scan Workflow for SharePoint uniflow Scan Workflow for ToolBox uniflow Scan Workflow for ToolBox uniflow Scan Workflow for Scan Povice Licenses for Scan Povice Lic Simulator In addition, the following modules/licenses can be activated by hand: 2 MEAP Secure Print Behavior License 2 CMFP Device License for Scan Front Scan Device License for Scan Device License fo Scan Simulator 2637 8.1.2 Not-for-Resale License can only be used by ten users at a time. Document output is watermarked with this version. The Not-for-Resale License includes: 1 uniflow Workgroup Edition (WE) license All optional standard modules. All additional licenses incl. o 5 Remote Print Server Licenses o 6 File Format Conversion Licenses for Canon MEAP enabled MFPs 5 uniflow Scan per Device Licenses for Canon MEAP enabled MFPs 5 uniflow SPP Device Licenses for Canon MEAP enabled SFPs 5 uniflow SPP Device Licenses for Canon CMFPs 5 uniflow SPP Device Licenses for Scan Device Licenses for Scan Printer Low Volume 5 Scan Device Licenses for Scan Printer Low Volume 5 Scan Device Licenses for Scan Printer Low Volume 5 Scan Device Licenses for Scan Printer Low Volume 5 Uniflow SPP Device Licenses for Scan Device Licenses for Scan Printer Low Volume 5 Uniflow SPP Device Licenses for Scan Device Li Scan Device Licenses for Scan Simulator Scan volume limited to 5,000 pages per year if iw SAM or a hotfolder is used. The maximum number of NFR licenses can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that can be activated at a customer is set to 3. In total, only five of the following licenses that customer is set to 3. In total, only five of the following licenses that customer is set to 3. In total, only five of the following licenses that customer is set to 3. In total, only five of the following licenses that customer is set to 3. In total, only five of the following licenses that customer is set to 3. In total, only five of the following licenses that customer Device License for Scan Simulator Trial Licenses For customer test installations, a package of 10 uniflow Enterprise Edition (EE) Licenses. All optional standard modules. All additional licenses incl. o 5 Remote Print Server Licenses of 10 ICI Licenses o 6 File Format Conversion Licenses for Canon MEAP-enabled MFPs 5 uniflow SPP Device Licenses for Canon MEAP-enabled MF uniflow SPP Device Licenses for non Canon MFPs 5 uniflow SPP Device Licenses for Océ Large Format Printer Low Volume 5 uniflow Scan Device Licenses for Scan Front 5 uniflow SPP Device Licenses for Scan Simulator Scan Volume 5 uniflow SPP Device Licenses for Scan Front 5 uniflow SPP Device Licenses for Scan Simulator SPP Device Licenses for Scan Simulator SPP Device Licenses for Scan Simulator Scan Volume 5 uniflow SPP Device Licenses for Scan Simulator SPP Device Licenses for SPP Devi or a hotfolder are used. The maximum number of trial licenses that can be activated at a customer is set to 3. In total, only five of the following licenses for Scan Front Scan Device License for Scan Simulator Extended Trial License The Extended Trial License can be used for 180 days and includes: 1 uniflow Enterprise Edition (EE) Licenses o 51 File Format Conversion Licenses o 51 File uniflow Scan per Device Licenses for Canon MEAP enabled MFPs. 200 uniflow SPP Device Licenses for Canon MEAP enabled SFPs. 200 uniflow SPP Device Licenses Océ Large Format Printer Mid Volume 200 uniflow Scan Device Licenses for Scan Front 200 uniflow Scan Device Licenses for Scan Simulator 1 Project Access Pack Licenses for Scan Simulator 1 Project 3. In total, only 200 of the following licenses can be active at the same time: 2839 MEAP Scan Behavior License for Scan Front Scan Device License for Scan Front Scan Behavior License for Scan Simulator 9 Access Control and ACL Reset Interface If you select the uniflow Server Configuration for the very first time, the Internet Explorer opens with a security message in case you did a fresh installation. This message informs you about ACL security settings for the uniflow Server Configuration web which are made to secure uniflow by default. See below for all details. After installation, the following (security) groups are created automatically: Administrators Operators Users Automatic Creation of ACLs The following ACLs are created automatically: Administrators and Operators will be added to the Access Allowed List of the ACL with the same name. That is to say the group Administrators will be added to the Access Allowed List of the ACL called Administrators, and the group Operators will be added to the ACL Everyone in the ACL Everyone in the ACL Everyone allows the access to a feature for everyone. The ACL Everyone is neither editable, nor can it be added to an Access Denied List. The pre-configured ACL DenyAll denies the access to all features of the uniflow server pages, thus allowing access to the uniflow server pages for all users that belong to the Administrators group. The user who accesses the uniflow Server Configuration website (pwserver) for the first time will be created in the system and automatically be added to the two groups Administrators and Operators. The Operator Section 4. The operator of the operat Dashboard pages for all users that belong to the Operators group. If need be, you can unintentionally lock yourself out of the system. In this case you can unintentionally lock yourself out of the system. The link to this page is: http(s):///pwserver/acl reset.asp By default, only a dummy page with a message is shown in order to prevent unauthorized access. The real acl reset.asp is located in the folder C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common Files\NT-ware Shared\Scripts and has to be copied to C:\Program Files (x86)\common File avoid unauthorized access after a reset, it is advisable to first rename the dummy page before copying the real acl reset.asp in the above mention folder. That way you can re-activate the dummy page again after a reset by simply renaming it. In order to come back into the uniflow Server Configuration to - none -. After saving the settings, you can access the uniflow Server Configuration with any account (security risk). Now correct the settings which caused the uniflow Server Configuration > Access Control > User Interface and set the feature uniflow Server Configuration to Administrators (default). 3041 10 Certificate Installation on Windows uniflow makes use of HTTPS as default communication protocol, a self-signed certificate is created and installed in the IIS during the installation of uniflow. As this is a self signed certificate generated by NTware and not from a certificate authority such as VeriSign, you will receive a warning message when opening a uniflow website. To overcome this problem, we recommend to add the self-signed certificate to the "Trusted Root Certificate store on each client PC and server which accesses uniflow websites. For more info about the security certificate, refer to chapter HTTPS Usage (on page 10). Warning Message Certificate Installation 1. Open the uniflow website by using the server is a domain member, use the fully-qualified domain name (FQDN). AS the certificate is bound to the host name of the uniflow server, the certificate installation will not work if you use the server's IP address. 2. Click on Continue to this website (not recommended). 3142 3. Click on Security report. 4. Click on Security the Trusted Root Certification Authorities certificate store. 9. Complete the Certificate Import Wizard. 10. Afterwards, confirmed. 12. Restart your browser. 13. If you now open a uniflow website, you will not receive the warning message any longer. 11 Certificate Installation on OS X uniflow makes use of HTTPS as a communication protocol. In order to use HTTPS as a communication protocol, a self-signed certificate has been created by NT-ware and not by a certificate authority such as VeriSign, you will receive a warning message when trying to connect to a uniflow website. To overcome this 3344 problem, we recommend to add the self-signed certificates on your Mac. The following description explains how to add the self-signed certificates on your Mac. the Safari browser displays a warning similar to that in the following screenshot, click on the Show Certificate button. Certificate installation 1. Tick the checkbox next to Always trust Click on the Show Certificate button. Certificate button 2. Restart the Safari browser. 4. If you now open a uniflow website, no warning message will be shown anymore. If you need to manipulate a security certificate, or change other security settings use the Keychain Access application located in the Utilities/Applications folder. 12 Software Activation uniflow consists of base editions, optional standard modules and additional licenses. Modules and licenses can be flexibly combined with the editions to deliver the desired 3445 functionality in one integrated system. This chapter explains the activation of the respective licenses in uniflow. For a detailed list of all available editions and module licenses, please refer to the uniflow Licensing Guide. After the installation, the software will work without registration in demonstration mode (after 50 print jobs you will have to restart the services, see uniflow Admin Service). To access the full working version of uniflow, you have to activate the software under uniflow Server Configuration > Module Config. > Activation by means of an 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. Activation order If you have purchased a uniflow base edition (Workgroup-, Business-, Corporate- or Enterprise Edition) together with one or more uniflow modules or licenses, you first have to activate the uniflow base edition and then follow the same procedure for each module or license separately Automatic 1. To enter the license code, go to uniflow Server Configuration > Module Config. > Activation. 3546 2. The following screen appears: 3. For activating your uniflow Edition the following data needs to be entered: a. License Code (Edition): The license code is a unique code which is either shipped with the software product or sent by . b. Customer name. c. Company sector: Select the customer is located. e. Distribution Channel: Select the customer is located. e. Distribution Channel: Select the customer is located. e. Distribution Channel: Select the customer name. c. Company sector: Select the customer is located. e. Distribution Channel: Select enter their names. f. Purpose: Select the option that best matches the installation purpose: Customer installation, Upgrade, Showroom, Test & trial or Other. 4. 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. For an automatic activate uniflow server needs an internet connect to the uniflow server needs an internet access and can connect to the uniflow server on the local network. You may also use proxies to connect to the internet. 5. If you choose an automatic activation, click the Activate button next to Activate automatically. Your licenses is intended for uniflow device licenses. This feature is only available after you have licensed your uniflow server edition. 1. Go to uniflow Server Configuration > Module Config. > Activation button. 3748 3. Bulk licenses are usually sent by . Copy the licenses from the relevant and paste them into the text box next to Bulk License Code Activation. The licenses do not have to be formatted in a certain way. uniflow will automatically detect the individual licenses which are already activated or Module Licenses will be filtered out automatically as these cannot be bulk activated. For the activation of module licenses refer to Automatic Activation (see "Software Activation" on page 34) or Manual "on page 39). 5. Click on Start Activation (see "Manual" on page 39). 5. Click on Start Activation (see "Manual" on page 39). 5. Click on Start Activation (see "Software Activation" on page 39). 5. Click on Start Activation (see "Manual" After a successful bulk activation the relevant number of licenses is shown under Licensed Modules on the start page of the Activation menu. 3849 For a detailed list of all available editions and module licenses, please refer to the NT-ware Licensed Modules on the start page of the Activation is necessary in case the uniflow server has no internet access or in case you access the uniflow Server Configuration websites using a different computer without internet access. 1. Having clicked Activate Edition in the main screen, you are offered three different computer without internet access. to use the online possibility, click on here*. Then, your web browser will open and you will automatically be directed to NT-ware's licensing website. All the mandatory fields will already be pre-filled automatically. 3. Click on the Submit button. In the next step you can check your entries. If you click the Activate button here, the following data is shown: o Software code o License code o Activation code 4. Copy the activation code to your clipboard by clicking the corresponding button or print this page. 5. Enter the activation process. Alternative Manual Activation Procedure Another way to generate an activation code manually consists in opening your browser and keying in the address of our licensing website: 4051 License Portal (The required fields have to be filled in manually. Once you have entered all the necessary information, click the Submit button. After that, the further activation procedure is as described above. If you want to receive your activation code by, click on the link In the generated the information required for generating the activation code is already listed. In addition to that, you can add some information required for generating the activation code is already listed. activation code per fax, please send a fax to: In the fax, please include the following information: Serial Number Version License Code System ID Machine ID Software Code System ID Machine ID activation screen and click the Activate button to activate your software. 2. After the activation of the base server edition you return to the main Info screen. 4152 12.4 Third-Party Software uniflow Server Configuration > Module Config. > Activation On this page you can also activate third-party software that is automatically installed with base uniflow installs but needs to be registered with NT-ware. FOXITSDK is automatically installed when you install uniflow. uniflow uses this software in workflows. If you want to use FOXITSDK for file conversion, you should register the software first. The registration has to be done per each server that uses FOXITSDK. On pressing the Activate button, the serial no. of your uniflow server will be registered with NT-ware. Once the activate button is greyed-out. In case you are unsure whether you need file conversion with FOXITSDK in your workflows or you do not need it now but in future, you do not have to activate FOXITSDK now. All the wizards that include file conversion in their workflows will automatically activate FOXITSDK for the RPSs is done in uniflow Server Configuration > Server Config. > Connections > RPS. In this regard please refer to Connections - RPS in the uniflow User Manual. Be aware that you have to activate FOXITSDK on the uniflow Server itself as well, in order for you to be able to use all parameters of the Convert PDF to PDL via Foxit Workflows. At the time of writing FOXIT SDK is the only third-party software that can be activated here. For more information on file format conversion please refer to File Format Conversion to uniflow V5.4 and gives important information concerning the limitations of the uniflow Update Wizard. Please read this chapter and all subchapters completely before you update procedure! Prerequisites Check whether the system requirements (on page 1) have changed before you update wizard Th uniflow Update Wizard Can be used for uniflow V5.x. You can download the newest version of the uniflow Update Wizard (momupdate.exe) in the NT-ware Knowledgebase under uniflow and HelixPW Releases (MOMKB-106 (Please note that registration is required in order to access the NT-ware Knowledgebase. Access to the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase, please contact your Canon partner. Update Order We highly recommend using different versions of the uniflow server and the connected Remote Print Servers. Updating Remote Print Servers at different times is possible but needs a few very important prerequisites and settings to work. These are explained in the following subchapters. Update Version Update Version Update possibility V5.1 and higher The uniflow Update Wizard can be used. The uniflow Update Wizard works with the uniflow Server and the RPS. Update RPS V5.1 or Higher (on page 50) Activate license(s) 4354 V5.0 The uniflow Update Wizard can be used only for the uniflow Server, not for the RPS. For the RPS, a manual update is possible. For that an uninstallation/installation/installation is required. Update uniflow V5.0 (on page 51) Activate license(s) V4.x V3.x and older The uniflow V5.4 (MOMKB-827 (in the NT-ware Knowledgebase. Access to the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase, please contact your Canon partner. Update uniflow Older than V5.0 (on page 53) Update RPS Older than V5.0 (on page 53) Activate license(s) The uniflow Update Wizard cannot be used. An uninstallation/installation is required. Note that there is no white paper available. Please also refer to the respective cluster manual Important Update Considerations Lock Down the ACL Reset Interface The chapter Starting uniflow (on page 21) covers important security notes for your new uniflow installation. uniflow has created a set of default security settings during the installation process, meaning Access Control Lists are set. However, there is an ACL Reset Interface in uniflow which needs to be locked down via NTFS permissions. We recommend doing so, right after the installation of uniflow. For details, see Access Control and ACL Reset Interface (on page 29). Update Wizard, please note that the wizard will not set the "Require Secure Channel" flag in IIS by default. Otherwise, this would lead to the problem that RPS's and clients which have not yet 4455 been updated are not able to connect to the uniflow server anymore. Please refer to HTTP/HTTPS Communication (on page 43) chapter. Uniqueness of Addresses Mobile Printing with uniflow. As Mobile Printing requires the uniqueness of addresses, we recommend setting this up in uniflow. As Mobile Printing requires the uniqueness of addresses is disabled by default for backward compatibility reasons. For details see Identity Types with Non Unique Values in the uniflow User Manual. Tweaked Worker Threads Worker thread pools were determined based on a simple calculation involving the number of CPU cores. The more CPU cores the larger the worker thread pools. Historically there may have been a requirement to adjust the size of the automatically determined worker thread pools utilized by the uniflow / Remote Print Server process, for instance in large installations, or in situations where the uniflow v5.2, these settings and tweaks are not necessary anymore as the calculation used to allocate worker threads is more dynamic and runs constantly. However, if you have tweaked the worker thread settings of your uniflow installation once and it works as desired, there is no need to change anything, as uniflow server

Configuration > Server Config. > General Settings > General > RPS Synchronization Manager, see chapter RPS Synchronization Manager. Note that this setting is no longer required with uniflow V5.2 and higher. The snapshot threshold is now determined automatically and is based on a calculation. However, the setting is still available for backward compatibility reasons. In case you have tweaked your system once, you can still use this value with uniflow V5.2 if your system runs stable. For fresh installations, there is no need to set this value is configured, this will become the minimum. Setting this to an excessively high number can have a negative impact. Database Upgrade 4556 When upgrading from uniflow V5.0 to the latest uniflow version, the database is updated as well. Please note that the database, we cannot give an estimation here. Please contact the NT-ware Support Team if you plan to upgrade a bigger installation HTTP/HTTPS Communication Important specifications of communication and synchronization settings during the uniflow update procedure can be started, important communication and synchronization settings will fundamentally influence the way the local uniflow installation will operate later on. In certain scenarios, it is even possible that the selection of incorrect settings in this section thoroughly and select the corresponding options carefully. Enforce requirement to communicate via secure channel (HTTPS): If this option is selected for the update procedure, the uniflow server webs will - as soon as the update procedure is finished - only be accessible using a secure channel (HTTPS). As a consequence of this, already installed remote print servers and clients (i.e. machines where the uniflow client software is installed) which originate from a version prior to uniflow V5.2 will not be able to connect to this uniflow server originate from uniflow V5.2 or later. Enforce HTTPS communication for the internal HTTP server: If this option is selected for the update procedure, the internal HTTP server of uniflow/rps will only allow communication via HTTPS. via secure channel (HTTPS) if it has not been selected and OK is clicked. Enabling the Enforce HTTPS. HTTP requests are not accepted. Therefore, make sure that the following components have at least been upgraded to the required minimum version in order to fully support HTTPS communication: o uniflow V5.3 or higher. o Scan Processing Server requires Uniflow V5.3 or higher. o Remote Print Server (RPS) requires uniflow V5.3 or higher. o uniflow Universal Driver requires uniflow V5.3 or higher. 4657 EAI mobile and uniflow Embedded Applets (Multi-Vendor Support) are not affected by this setting and are still able to communicate on the HTTP port. Install SSL certificate in IIS: If this option is selected for the update procedure, a self-signed SSL certificate for secure communication will be installed in IIS during the update procedure (replacing an existing SSL certificate, if any). Please only select this option if communication via secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the SSL certificate which is currently installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the SSL certificate which is currently installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the SSL certificate which is currently installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the secure channel (HTTPS) is required and additionally there is either no SSL certificate installed in IIS or the secure channel (HTTPS) is required and additing th synchronization compatibility mode: In uniflow V5.2 and later, the synchronization of connected Remote Print Servers can be secured with this functionality, the identity of a Remote Print Server is verified during a synchronization process. Please be aware that this functionality is completely independent from any HTTPS settings used in an installation. If this option is deselected for the update procedure, the uniflow server will - as soon as the update procedure is finished - perform RPS synchronizations in a secured way, based on signed communication packets. As a consequence of this, already installed Remote Print Servers which originate from a version prior to uniflow V5.2 will not be able to synchronize correctly with this uniflow server any more. In order to avoid such communication problems, only deselect this option if all Remote Print Servers which are connected to this uniflow server originate from uniflow V5.2 will not be able to synchronize correctly with the usage of HTTPS in chapter HTTPS Usage (on page 10). 4859 Disable Enforce HTTPS In case you have unintentionally enabled the Enforce HTTPS option, please refer to the white paper Escalation Requirements uniflow (MOMKB-245 (in the NT-ware Knowledgebase for information on disabling this option. Please note that registration is required in order to access the NT-ware Knowledgebase. Access to the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase. meaning the uniflow Update Wizard has been designed to support an update from V5.1 or higher. If you have no RPS running in your installation, you can skip this chapter. To update the uniflow server, go to chapter uniflow V5.1 or Higher (on page 50). With the uniflow 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 uniflow Update Wizard automatically detects whether the locally installed software is an RPS installation or a uniflow server and RPS. The uniflow Update Wizard automatically detects whether the locally installed software is an RPS installation. accordingly. The uniflow Update Wizard is available alongside the normal installation package for each uniflow version they both ship with any new software version 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 with the uniflow Update Wizard. We highly recommend to update all attached RPSs at the same time and before you update the uniflow server. In case this is not possible, an environment which includes older RPSs (since V5.1) will still work, as long as you do not use any of the new features of the uniflow server. where components are not yet on the same versioning level. Recommended Update Procedure for RPSs 1. Disable the Resource Management on the uniflow User Manual. 4960 2. Make no changes on the uniflow Server, see chapter Disabling the Resource Management in the uniflow User Manual. the settings might lead to a malfunction of not yet updated RPSs. 3. Do not update any MEAP applet until all RPSs are updated. 4. Update Wizard to update Wizard to update Wizard to update the RPSs. The uniflow Update Wizard to update Wizard to update Wizard to update the RPSs. The uniflow Update Wizard to update the RPSs. The uniflow Update Wizard to update Wizard to update the RPSs. The uniflow Update Wizard to update the RPSs uniflow server, see chapter uniflow V5.1 or Higher (on page 50). 6. Enable the Resource Management on the uniflow server. 7. Restart the uniflow server. 7. Restart the uniflow server. 8. Update other components, such as the uniflow version from V5.1 onwards to the latest version by means of the uniflow Update Wizard. With the uniflow 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 uniflow Update Wizard. Update Wizard automatically detects whether the locally installed software is an RPS installation. In both cases the software is available alongside the normal installation package for each uniflow version they both ship with any new software version and are also available on the normal download sites so you can choose, whether you want to do a new installation or update the RPSs first and then the uniflow server, see chapter RPS V5.1 or Higher (on page 49). The uniflow Update Wizard requires local administrative rights. Do not run the uniflow Update Wizard with lower privileges. For security reasons, a backup of all affected files is made before the update. With regards to updating server cluster installations, please note that it is not possible to use the uniflow Update Wizard here. An update to a later version has to be performed manually. In case the update of a server cluster installation is attempted with the uniflow V5.0 to the latest uniflow version, the database is updated as well. 5061 Please note that the database update process can take a considerable long time. As this is dependent on the size of your database, we cannot give an estimation here. Please contact the NT-ware Support Team if you plan to upgrade a bigger installation. When you start the uniflow Update Wizard, the following screen appears and you are guided through the update procedure. The uniflow Update Wizard automatically creates a backup of the current installation 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 are stored in a newly created todo folder: \ todo\. In this folder you can find a descriptive text file is update ______. txt. After the update, reactivate the license(s) on the uniflow V5.0 This chapter describes how to update from uniflow V5.0 to uniflow V5.4. The print management system uniflow and each RPS must not be used during the upgrade procedure. All RPS servers must be updated at the same time. If this is not possible, please contact the NT-ware project team. If you don't follow the steps below, the uniflow user database may contain duplicate entries after the RPS update procedure. This issue is due to the synchronization of the uniflow server with the RPS and cannot be solved differently. 5162 Prerequisites These changes have to be made in the existing installation before the upgrade! 1. Disable LDAP tasks (do not let them run automatically). 2. Set uniflow Server Configuration > Server Config. > Interface > User Identification > Login Name Handling to: non-ascii characters will not be replaced Update Procedure 1. Update the uniflow Server using the MomUpdate.exe. The uniflow Server using the uniflow server the conversion of legacy properties to multiple identities is processed which may take a while. Please do not shut down the uniflow services during this process has finished successfully: Synchronization: Snapshot file creation finished. Check that the timestamp is 'now'. 2. Reactivate the license(s) on the uniflow server. 3. Set all LDAP Import Tasks to Never (note the original value). 4. Stop the uniflow V4.0 - V4.1 to V5.4 that can be found in the NT-ware Knowledgebase in order to back-up all data on the RPS(s), including CPCA time stamps. You will need the CPCA time stamps for restoring later. Please note that registration is required in order to access the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase, please contact your Canon partner. 6. Uninstall the RPS (on each RPS). 7. Delete the Objectspace.db file on the RPS. The file is located on the RPS the RPS (on each RPS). 7. Delete the Objectspace.db file on the RPS the R executing the MomAps.exe on the RPS. 9. Before you restart the RPS, restore the CPCA time stamps. 10. Repeat steps 4. to 8. on each RPS. 11. Start the uniflow Admin Service. 12. After the RPS is synchronized, restart the RPS. 13. Set all LDAP Import Tasks back to the original value. The transfer of the first snapshot from the uniflow server to the RPS may take some time. Please allow the process to finish and to not abort/restart any service is started, are indeed taken into account. 5263 When upgrading from uniflow V5.0 to the latest uniflow version, the database is updated as well. Please note that the database is updated as well. Please note that the database is updated as well. plan to upgrade a bigger installation uniflow Older than V5.0 uniflow versions older than V5.0, we recommend to uninstall uniflow 45.0, we recommend to uninstall void with uniflow 5.0. 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. For more information, please refer to the white paper Upgrade from uniflow V4.0 - V4.1 to uniflow V5.4 (MOMKB-827 (in the NTware Knowledgebase. Please note that registration is required in order to access to the NT-ware Knowledgebase. Access to the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase is limited to trained Canon personnel only. If you require the above document and you do not have access to the NT-ware Knowledgebase is limited to trained Canon personnel only. versions older than V5.0 cannot be updated with the uniflow Update Wizard. However, a manual update is possible. For more information, please refer to the white paper Upgrade from uniflow V4.0 - V4.1 to uniflow V5.4 (MOMKB-827 (in the NT-ware Knowledgebase. Please note that registration is required in order to access the NT-ware Knowledgebase. Access to the NT-ware Knowledgebase, please contact your Canon partner. RPS versions older than V4.0 cannot be updated. 5364 13.8 uniflow Clients for Windows and Mac When upgrading to uniflow V5.4, it is not mandatory to update all uniflow Clients for Windows or Mac, although they communicate via HTTPS, but does not enable the "Require Secure Channel" flag in the IIS. This makes a communication via HTTP and HTTPS possible. This means that in case you have upgraded uniflow, all old uniflow Clients for Windows and Mac will still work, although they still communicates via HTTP. In case a secure communication is required, you can upgrade all clients to the new version which communicates via HTTP. In case they are connected to an RPS. Uninstall the old client before you start installing the new client. The new uniflow Client for Windows and the uniflow Client for Mac automatically check whether uniflow server or RPS running momupdate.exe, the Scan Processing Server (MomSpaceSuit) will automatically be updated as well. In case your Scan Processing Server is installed on a different server, you can run momupdate.exe on this server as well. See also chapter Scan Processing Server in the uniflow User Manual Update to uniflow User Manual Update to uniflow V5.4 while adding Advanced Device Management (ADM) uniflow V5.4 ships with the module Advanced Device Management (ADM) / SiteAudit. For the advanced monitoring of third party devices that is part of the ADM module, uniflow makes use of an integration with the SiteAudit requires its own database and installation routine, the uniflow Device Management (ADM) / SiteAudit requires its own database and installation routine, the uniflow makes use of an integration with the SiteAudit software. As SiteAudit requires its own database and installation routine, the uniflow makes use of an integration with the SiteAudit software. importance that you follow the steps below in case you want to update from a former uniflow V5.x and you don't need the ADM module. If you want to upgrade from uniflow V5.x and you don't need the ADM module, please upgrade as described in the following: Uninstall uniflow. Restart your server. 5465 Create the SQL database for SiteAudit using the momsiteaudit.sql script which can be downloaded here (a. To do so, open the Microsoft SQL Server Management Studio (Express) on your uniflow server. Make sure that you have sufficient rights to create a database with the logged in user if you open the Microsoft SQL Server. e. Click on Open File and select the momsiteaudit.sql file. d. Connect to your SQL Server. e. Click on Open File and select the momsiteaudit.sql file. d. Connect to your SQL Server. e. Click on Open File and select the momsiteaudit.sql file. d. Connect to your SQL Server. e. Click on Execute. f. The MomSiteAudit database will be created and appears under Databases. Install uniflow V5.4. Important Hints After the installation is completed, please make sure that the 'Netaphor SiteAudit Monitor' is NOT running. You can stop it via the Admin page or in the services overview, in case it is not listed on the Admin page. Afterwards, open Netaphor SiteAudit (SiteAuditViewer.exe) and carry out the following steps: Go to the Setup menu and select Discovery. Select the Networks tab in the Discovery Configuration and uncheck the setting Discover networks automatically. 5566 When the discovery has already started, because the Netaphor SiteAudit Monitor was not stopped early enough, you will see printers in the SiteAudit Viewer that should not be monitored. In this case you might need to delete and recreate the SiteAudit DB again. Even if you discard all the collected statistics, the information on already discovered printers will stay in the database and block the corresponding number of licenses for printers that should actually be monitored. Select the Host Credentials tab in the Discovery Configuration and uncheck the setting Discovery Configuration and uncheck the setting Discovery Configuration and uncheck the setting Discover and monitor direct-connected devices. Restart your server For more information about the ADM module, refer to the chapter Advanced Device Management in the uniflow User Manual 5667 14 uniflow SSP to uniflow SSP to uniflow SSP to uniflow SSP and the installation of the uniflow SSP Uninstallation SSP PC Client: Uninstallation the uniflow SSP and the installation of the uniflow SSP Uninstallation of the uniflow SSP Uninstallation SSP PC Client: Uninstallation of uniflow SSP Uninstallation of the uniflow SSP Uninstallation of uniflow SSP and the installation of the uniflow SSP Uninstallation of the uniflow SSP Uninstallation of uniflow SSP Uninstallation of the uniflow SSP Uninstallation of the uniflow SSP Uninstallation of uniflow SSP Uninstallation of the uniflow SSP Uninstallation of the uniflow SSP Uninstallation of uniflow SSP Uninstallation of the uniflow SSP Uninstallation of uniflow SSP Uninstallation SSP Uninstallation of uniflow SSP Uninstall uniflow SSP PC client from all workstations. SSP Licenses: Leave the MEAP applets untouched on each Canon device. The old MEAP applet licenses you have used in uniflow SSP can be used in uniflow ssp device licenses can be activated in uniflow. If you use MiCard HID readers in uniflow, make sure to enable the Use extended Card Format. You find this option on the uniflow Server Configuration > Connections > MEAP & minimind > List View page. In the pop-up window click on config behind Connected ID Module. The reason for this is that devices configured with SSP use the extended Card Format. You need to enable this setting in order to make the new machines compatible in an - already set up - environment. print workflows and printers. The maximum number of former MEAP applet licenses with SSP is five. Up to five MEAP applets can be used within uniflow. MEAP licenses are not shown on the uniflow Info page. For each additional MEAP applets can be used within uniflow. is only available in USA and Canada. The upgrade procedure can be split into two steps. As the de-activate the cMFP licenses is done via the SSP PC client afterwards. uniflow SSP Uninstallation Deactivate the uniflow SSP device licenses and delete the SSP PC client afterwards. as follows: o Select the device in question from the Available devices list in the SSP Status Page, click on the License Information button, the uniflow SSP client software will attempt to deactivate the license from the device. o o After having clicked on the Deactivate License button, an active progress bar indicates that the deactivation process las 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 code can now be used again for activation the license code which has been deactivated will be displayed in the deactivated to copy and store the deactivated license code(s) on your harddisk. For information on the activation of CMFP devices in uniflow User Manual. SSP PC client: Uninstall the uniflow SSP PC client from all workstations. 5869 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. uniflow Installation Install the uniflow server. 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 maximum number of former SSP device licenses for CMFP devices is five. For more information on the activation in the uniflow User Manual. For each additional CMFP device, you will need a separate CMFP device license. If you want to use MiCard HID with CMFP devices, the parameter Use extended Card Format is not available. You have to connect a micromind configuration page instead. For more information, see USB Device. 15 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 PC for activation purposes. In this case, the 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 dongle, thus allowing you to move the license between different computers. 5970 15.1 System ID Dongle Software from: C:\Program Files\uniFLOW\Support\Dongle\SSD bit.exe You can also go to Sentinel s Technical Support Site and download the latest driver. 2. Having started the execution of the exe-file the first page of the InstallShield Wizard is displayed and the wizard guides you through the installation. 3. Click on Next to continue the installation. 4. 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. 5. 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 6071 can specify another path. Clicking on the button Next will guide you to the Setup Type screen. 6. Select the Setup Type screen. 6. Select the Setup Type screen. 7. If you have selected 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. Then a drop down list is displayed where you can select the installation behavior for each of the three components separately. 6172 8. Choose 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. Click Next to continue the setup. 9. An information screen is displayed in which you are asked to remove all USB SuperPro keys before starting the actual installation of the driver. screen is displayed. Click on Finish to complete the installation. 11. Put the USB port. 12. Restart the uniflow Services via Start > All Programs > unifl System ID without dongle. You will find the System ID under uniflow Server Configuration > Info. Now you can activate (see "Software Activation" on page 34) 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 Windows registry key: HKEY LOCAL MACHINE\SOFTWARE\NT-ware\LicenseManager After the import of the above mentioned Windows registry key has been carried out 62