

Automation Engine workspace Roll-Fed Labels 21

User Manual

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Correspondence regarding this publication should be forwarded to:

Esko Software BV

Kortrijksesteenweg 1095

B - 9051 Gent

info.eur@esko.com

2. eLearning Modules

- All eLearning modules serve as initial training and can be accessed from within the browser client. Find the course on the workspace 'Roll-fed Labels' on [Esko's Blended Learning platform](#).
- This 'user manual' adds more details, answers FAQs and more.

Note: The UI of the browser client is available in several languages. Go to <user-name> # My preferences and select one of the listed languages.

3. Installation

3.1. How to Install Automation Engine 21

3.1.1. Before installing Automation Engine 21

Before you install Automation Engine 21 on your system, prepare or check these topics:

- First make sure you checked the [Pre-Installation IT Requirements Guide](#), a chapter in the Automation Engine Complete Manual, available on [http://help.esko.com/products/Automation %20Engine](http://help.esko.com/products/Automation%20Engine).
- Install Automation Engine 21 on a "clean" system, where no Esko software has been installed yet. If any other version of Automation Engine was installed already, see the section [How to Upgrade to Automation Engine 21](#) on page 15.
- You will need the DVD: "**Automation Engine 21 installation**".

Note: If you downloaded the software from MySoftware.esko.com, you will need to mount the corresponding .iso files as virtual DVD, or unpack the .iso files first.

Note: Make sure you are aware **which type of installation** you are doing. This is explained in the next page, in [Types of Installations](#).

- Your computer must meet the minimum requirements for the installation, as described on www.esko.com/systemrequirements.
 - **Windows operating system:**
 - The windows OS on an AE server must be a "**Server**" type. The supported versions of the Microsoft Server OS are listed on <http://www.esko.com/systemrequirements>.

Note: Windows Server 2008 R2 is only supported for doing an upgrade from a previous version of Automation Engine. A new install on that OS is no longer supported.
 - The Windows OS must be a **64 bit**.
 - **Databases.** Automation Engine server software uses many databases. A standard installation installs the default supplied Microsoft SQL Express edition on the Automation Engine server.
 - The supported versions of Microsoft SQL Server are listed on <http://www.esko.com/systemrequirements>. In the Server Admin web page, use **Server Checks > Databases** to check if the installed database software is supported.
 - Automation Engine can use a full **SQL Server** instead of the default installed Express edition. Learn more about pro's and con's on [this page](#) in the chapter "[Pre-Install IT Requirements Guide](#)".

- You need (new) **software licenses** for Automation Engine: a product key file. If you do not have a product key file yet, contact [Esko Support](#).
- You need **internet** access from that server computer.
- You need to have **Administrator** privileges.
- Make sure your anti-virus software is not blocking the installation or configuration.
- You may **not** have an IIS web server installed on your system.

3.1.2. Types of Installations

The installation procedure will ask you which type of installation you want to do.



Attention: Before making these decisions, first learn about the possibilities of different database servers on [this page](#) in the chapter [Pre-Install IT Requirements](#).

- **Standard Installation**

- **Automation Engine Master, Device Manager or WebCenter OBGE.**

These installations also install the default supplied Microsoft SQL Express edition on the Automation Engine server.

Note: A **Device Manager** is a server software limited to communicating with CDI's or Kongsberg table devices. A **WebCenter OBGE** (On Board Graphics Engine) is a limited Automation Engine used to calculate the view files for an Esko WebCenter. This will typically be installed on the WebCenter Application Server.

- **Automation Engine Assistant.**

This installs an Automation Engine that you can (later) configure to be used as an Automation Engine Assistant. This option will *not* install a Microsoft SQL Express server.

- **Installation for use with an existing Microsoft SQL Server**

- **Automation Engine Master, Device Manager or WebCenter OBGE.**

These installations will use a remote SQL Server that is already available in the network. They will *not* install a Microsoft SQL Express server. For example: when you are installing an OBGE and you want it to use the SQL Server already used by your (full) WebCenter.



Attention: This type of installation includes an embedded mini database server engine. This embedded engine is not fit for production ; it is a temporary setup until you have chosen a different supported database engine.

3.1.3. How to Perform the Automation Engine 21.03 System Readiness Check

Before you install Automation Engine 21, a System Readiness Check is required. This checks whether the operating system is suited for installing and running this Esko product.

1. On the DVD, in the section **Software installation**, click the type of installation that fits your purpose (as explained in [Types of Installations](#) on page 8).
2. In the section **Installation**, under **Instructions**, click **Run the Automation Engine Readiness Check**.
3. At the end of the **Readiness Check**, read the resulting messages carefully.

4. If the **Readiness Check** resulted in any problem, correct it before proceeding.
5. Click **Exit**.
6. Proceed to install the [Esko License Server](#).

3.1.4. How to Install the Esko License Server

Use of the Automation Engine software is protected by licenses. These licenses are distributed as a product key file (in .HTML). To import the licenses into the Esko License Server, the product keys in the product key file must be activated using the **Activate Server Licenses** tool.

You need:

- A product key file for the Automation Engine 21 product components. If you do not have a product key file yet, contact [Esko Support](#).
- Internet access, to activate the licenses.
- An **Esko ID** in order to activate the licenses. Get one at <http://www.esko.com/licensing/CreateAccount>.

Follow these steps:

1. On the DVD, in the section **Installation**, under **Instructions**, click **Install the License Server Components**.
2. Install the Esko License Server by clicking **Install the Network License Manager**.
3. Follow the instructions of the installation wizard.
4. When the installation is finished, click **Network License manager > Network License Manager**.
5. **Local License Manager:** If you want to activate the license on your local computer (recommended in case of an Automation Engine Master), follow these steps:
 - a) In the **Esko Network License Manager**, click **Activate**.
 - b) Follow the instructions of the **Activate License Wizard**.
 - c) When asked how to activate the licenses, choose **on-line activation**.
 - d) When asked about the product keys, choose **I have a file containing one or more product keys**.
 - e) Click **Browse** to select the product key file.
 - f) When asked, fill in your **Account Name** and **Password**.
 - g) Click **Finish**.
The licensed products you can use are now visible in the Esko License Server.
 - h) Close the License Manager and click **Go back** in the top-right corner of the page to return to the **Installation** page.
6. **Remote License Manager:** If you are using a remote license manager (typical in case of an Automation Engine Assistant), you only need to indicate where it is. Follow these steps:
 - a) In the **Network License manager**, open the **Help** menu and click **License client configuration**.
 - b) In the License Client Configuration window, in the field "**computer name of the License server**" type in the host name of the license server and click **Apply**.
 - c) Click **Exit**.
7. Now continue by clicking on [Install the prerequisite components](#).

3.1.5. How to Install the Automation Engine Prerequisite Components

Depending on the products to be installed on this particular system, various components are required for installation. The installation wizard for these prerequisite components checks the licenses, lists the prerequisite components to install, requests confirmation for installation and then installs the required components.

The installation wizard installs the following components:

- **Microsoft Visual Studio Redistributables**
- **Esko CAD-X components** for Standard and Enterprise Editions.

Note: Do not install the CAD-X components when ArtiosCAD is already installed on that server.

- **Database Engine for the Automation Engine** components (if you choose a **Standard** Automation Engine Installation)

Follow these steps:

1. On the DVD, in the section **installation**, click **Install the Prerequisites Components**.
2. Follow the instructions of the installation wizard.
3. When you choose a **Standard** installation, when asked to enter a password for the SQL Server, click **Use Default** to use the default **sa** password. Or you can enter a **Password**, confirm it and click **Use Password** to use a different password, for example because of "Strong Password" requirements.

You can know more about Installation of Automation Engine in this [KB article](#)

Note: During the pre-installation of the Database Engine for Automation Engine, the Microsoft .NET Framework 4.6.1 will be installed. You may get a warning saying that the system needs to be rebooted, followed by a fatal error "The SQL Server instance is not installed". If this happens, reboot your server and install the prerequisites again.

4. The installation wizard will ask you to close all Esko applications. Click **Yes** when asked **Ready to continue?**
5. Follow the instructions of the installation wizard.
6. Click **Continue**. Click **Yes** in the **Installshield Wizard Complete** message window.
7. Depending on your activated licenses, the **Automation Engine Prerequisite Components Installation** process may ask you separately about the **CAD-X** component installation for both the Standard Edition component and the Enterprise Edition component. If the Automation Engine is installed on the Application server, In both cases, click **Yes** when asked **Ready to continue?**.
8. Follow the instructions of the installation wizard.
9. Click **Exit**.

You will be redirected to the installation page to continue with the next step.

3.1.6. How to Install Automation Engine 21.03

1. After running the **System Readiness Check** and installing the **License Server Components**, when all prerequisites are fulfilled, you can start the installation.
2. Click the **Install Automation Engine 21.03** link on the installation page.
The **Automation Engine 21.03 Software Installation** wizard will open up.
3. Follow the instructions of the installation wizard.
4. Read the **Software and Data license agreement** carefully and select **Yes, I accept the license agreement**.

5. When asked to select the products to install on this system, select **Automation Engine 21.03**.

The group **Common Components** cannot be deselected and will be installed on all systems.

6. Select the **Destination Folder** for the chosen products or accept the defaults.
7. Follow the instructions of the installation wizard.
8. At the end of the installation, click **Finish**.

The pre-installation task checks the password complexity rules and domain policies. If the default password for the **BGSYSTEM** user does not fulfill the requirements, a pop-up dialog requests a password. During installation, only a **BGSYSTEM** user is created. This user will be used as Automation Engine **System Account** (you can choose to change it later using the [Server Config tool on the AE server itself](#)). A clean installation ends with two empty local user groups: **BGUSERS** and **BGADMIN**. Add the **BGSYSTEM** user to the **BGADMIN** local user group.

Note: Learn more about [Users and Groups](#) in the separate chapter [Pre-Install IT Requirements](#).

After installation of Automation Engine, a shortcut named "**Automation Engine Client Apps**" is put on the desktop of the server computer.

Double-click this shortcut to open the Automation Engine **Client Apps** web page in your default browser.

This page describes the two types of client applications:

- Desktop client applications (Pilot or Shuttle): These need to be installed on each workstation from where you want to use Automation Engine.
- Browser based client applications: These run inside a browser and do not need to be installed. You may want to bookmark some specific pages.

3.1.7. How to Install Pilot or Shuttle

The Automation Engine client software is distributed via the standard browser client

Note: Before version 20, this was done via the **Server Admin web page**.

Note: Whenever your Automation Engine server is updated, the Pilot or Shuttle will request an update. The automatic update mechanism alerts client users to update when hot-fixes and minor version updates (for example 18.1 to 18.1.1) are available. When the server had a major version upgrade (for example: 18.1 to 20, or 20 to 20.1), you need to re-install the client applications (and when ready, remove the old ones).

1. Open your web browser and go to `http://AEServername:9000/`, where AEServername is the name of the computer running the Automation Engine server software.
2. The first time you install one of the client applications, you will be asked to create an **Administrator** account.

» CREATE AN ADMINISTRATOR ACCOUNT

You need an Administrator account to access the Server Admin. Please fill in the details below to create an Administrator account and get started.

User name:

Full name:

Email address:

Password:

Confirm password:

Description:

CREATE

Once you have created the **administrator account**, you will be directed to either

- the tab "**Apps & Tools**" of the downloads page, where you can download Client Applications if you did install a Standard Automation Engine.
- or to the **Create Automation Engine Database** page if you did install an **Automation Engine Master for use with an existing Microsoft SQL Server**. This is where you then need to configure and create your Automation Engine databases.

In the **Create Automation Engine Database** window, select your **Microsoft SQL Server** and **Instance** name, type in the **sa** password and type in the **Database folder** and either

- click **create** to start the automatic creation and configuration of the databases,
- or, if you want to create and configure the databases manually, click **Continue using embedded databases**.

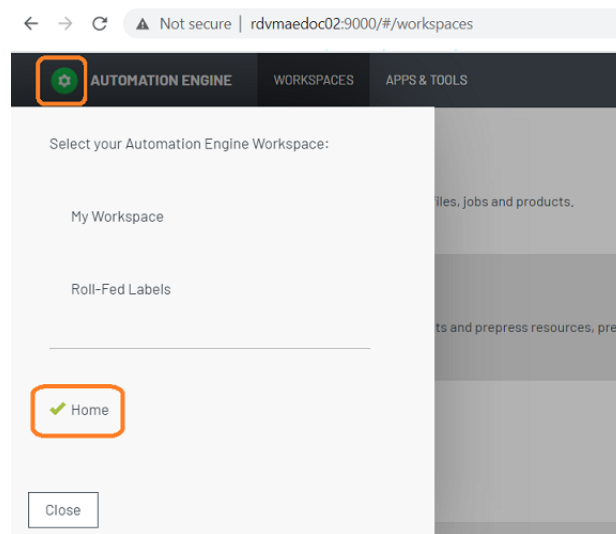


Attention: It is not supported to use Automation Engine with embedded databases in a production environment.

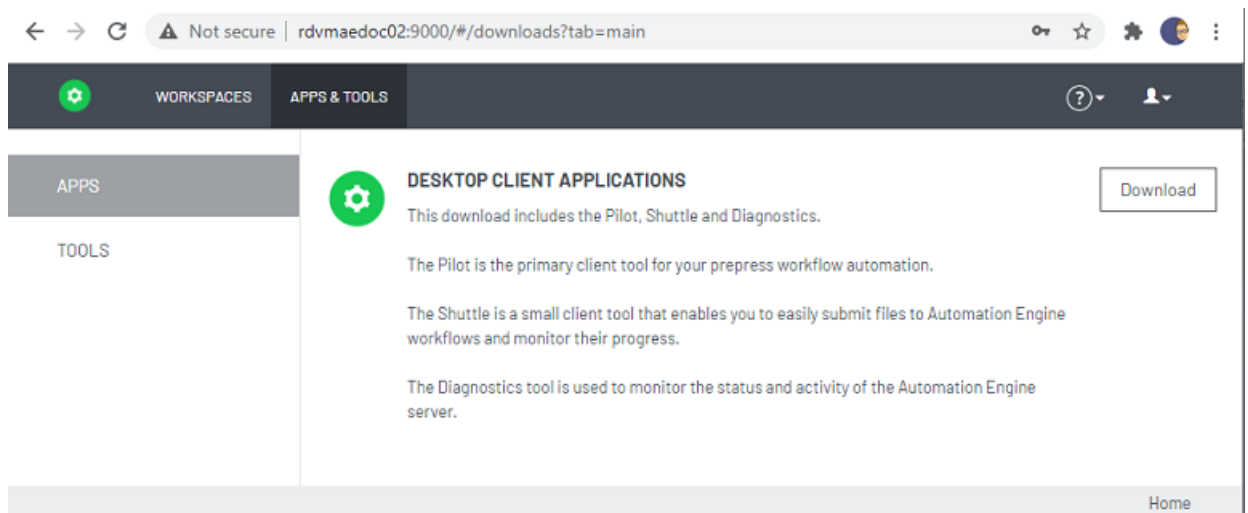
Learn more about creating databases for Automation Engine in [Creating a Database](#). Learn more about configuring an Automation Engine database in [Automation Engine Database](#).

After creation and configuration of the databases, you will be redirected to the **Main** page of the tab "**Client Apps**", where you can download the client applications.

3. In the browser client, go to its home page (click on the AE product icon and below the available client workspace(s), click **Home**).



4. In the tab **Apps**, click **Download** and save the executable somewhere on the client computer.



5. Start the installation by double-clicking the downloaded executable.
6. Follow the instructions of the installation wizard.
7. Read the **End User License Agreement** carefully, select **Yes, I accept the license agreement** and click **Next**.
8. Follow the instructions of the installation wizard.
9. At the end of the installation, click **Finish**.
10. Double-click the **Automation Engine Pilot** or **Shuttle** shortcut on the desktop.
This install of the client components also installed the Diagnostics tool (no desktop shortcut). Learn more in [Troubleshooting the Software](#).
11. Fill in the **User name**, **Password** and **Server Name**. You can here use the administrator account that you created earlier. Click **OK**.
The Pilot or Shuttle will start up.

Initial Configuration (Pilot)

After an initial installation of Automation Engine, you typically want to configure a minimal setup that includes:

- **Containers.** Define which existing or new data shares contain the data that Automation Engine will be able to work with.

Learn more in [Containers](#).

Note: An initial installation already creates an **ExampleJobContainer** on the disk where you installed the server software.

- **Users.** An initial installation creates a default user and user group.

Learn more in [Accounts Views](#).

- **Task Cleanup Rules:** This is needed to avoid that your tasks database becomes too large and then slows down your server.

Note: A new installation will also have created a default Task Cleanup rule. Learn more about changing or adding such rules in [Task Cleanup Rules](#).

- **Temporary data.**

Automation Engine creates a lot of temporary data on the folder defined by the Windows variable %BG_TMP.

The folder where this variable is set to should be a fast drive with >50 GB free space.

By default this is installed on the same drive as where the software is installed. In case that disk threatens to fill up, we advise to redirect that variable to another place. Learn how to do this in [this KB article](#).

3.1.8. How to Open a Browser Client

To open an Automation Engine browser client, open a web browser on your workstation and go to `http://servername:9000`, where `servername` is the name of the computer running the Automation Engine server software.

Configuring an Automation Engine browser client is shown in the eLearning module 'About Installation and Configuration' of the [course about the workspace 'Roll-Fed Labels' \(on the Esko Blended Learning platform\)](#). This eLearning module is a summary of what is described in [the chapter 'Post-Install Configuration'](#) in this manual.

Important: When your browser client is not using HTTPS in its communication with the AE server, the sign-in dialog will mention this and refer to [this KB article](#) that explains how to set up using HTTPS.

Initial Configuration (Browser Client)

After an initial installation of Automation Engine, you typically want to configure a minimal setup that includes:

- **Containers**

At first sign in to the browser client, you will be asked to define a **Data Container**. Define which existing or new data shares contain the data that Automation Engine will be able to work with.

Note: An initial installation already creates an **ExampleJobContainer** on the disk where you installed the server software.

- **Users**

At first sign in to the browser client, you will also be asked to create an administrator user.

Note: The others can later be created via the menu **Admin > Users**.

- **Task Cleanup Rules**

The product preparation tasks that run on the server will be cleaned up automatically by default 'Task Cleanup rules'.

- **Temporary data.**

Automation Engine creates a lot of temporary data on the folder defined by the Windows variable %BG_TMP.

The folder where this variable is set to should be a fast drive with >50 GB free space.

By default this is installed on the same drive as where the software is installed. In case that disk threatens to fill up, we advise to redirect that variable to another place. Learn how to do this in [this KB article](#).

3.2. How to Create a full Backup of Automation Engine 21

You can create backups with the tools available in **Server Admin** section of the **Automation Engine Server Admin web page**.

These tools are documented in the page [Backup](#) of the chapter [Automation Engine Server Management](#).

3.3. How to Upgrade to Automation Engine 21

You need to upgrade to Automation Engine 21 in the following order:

1. [Create a backup of your current Automation Engine](#).
2. [Perform the System Readiness Check](#).
3. [Upgrade the License Manager](#).
4. [Upgrade the prerequisite components](#).
5. [Upgrade the Automation Engine software](#).

3.3.1. Before Upgrading to Automation Engine 21

Before you upgrade to Automation Engine 21, prepare the following:

- Check the document [Pre-Install IT Requirements](#), a separate chapter in [the Automation Engine complete manual](#).
- You will need the DVD "**Automation Engine 21 installation**".

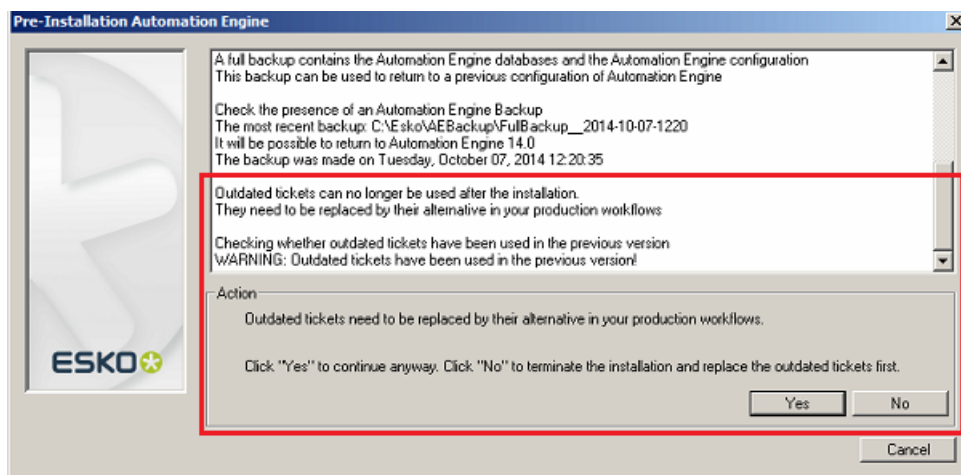
Note: If you downloaded the software from MySoftware.esko.com, you will need to mount the corresponding .iso file as virtual DVD.

- You must have a working version of **Automation Engine 16** or higher.
- Your computer must meet the minimum requirements for the installation, as described on www.esko.com/en/SystemRequirements.



Attention: Make sure to check that the version of SQL Server that your previous AE version was using as database server is still supported.

- You need a product key file for the upgrade (every new major version requires a new license set). If you do not have a product key file yet, contact [Esko Support](#).
- Use [Status Overview](#) to make sure no more users are connected or using the system.
- The upgrade will check if you are still using tasks that have become **Outdated** in the version that you are installing. If any are found, you will have the chance to abort the installation. Learn more about such tasks in [Outdated and Soon Outdated Tasks in this Version](#).



- Reboot the server before upgrading Automation Engine.

3.3.2. How to Create a Backup of your current Automation Engine - XXX CHECK

As an extra security measure, we advise to create a backup of your current version of Automation Engine before upgrading.

- When your current version is 14.0 or higher, make a backup as described in [Backup](#) (in the chapter [AE Server Management](#)).
- When your current version is 12.x,
 - first make a backup as described in [Backup](#),
 - then upgrade to either 14.x or 16.0,

- then again make a backup and then upgrade to 18.x
- When your version is 10 or lower, contact [Esko Customer Support](#).

3.3.3. How to Perform the Automation Engine 21 System Readiness Check

1. On the DVD, in the section **Installation**, under **Instructions**, click **Run the Automation Engine Readiness Check**.
Learn more in [How to Perform the Automation Engine 21.03 System Readiness Check](#) on page 8.
2. Proceed to install the **Esko License Server**. Click **Install the License Server Components**.

3.3.4. How to upgrade the Esko License Server Components

The Automation Engine 21 product is protected by (new) licenses. These licenses are distributed as a product key file (a .HTML file). To import these new licenses into the Esko License Server, you must first upgrade the Esko License Server components.

1. On the DVD, in the section **Installation**, click **Install the License Server Components**.
2. Follow the instructions of the installation wizard.
During the upgrade of the **Network License Manager**, the current Esko License Server will be stopped temporarily, during which the currently used licenses will be unavailable.
3. When the installation has finished, click **Load the new licenses**.
4. In the **Load new licenses** window, click **Activate Server Licenses**.
5. In the **Network License Manager**, click **Activate**.
6. Follow the instructions of the **Activate License Wizard**.
7. Select **on-line activation**.
8. Select **I have a file containing one or more product keys**.
9. Click **Browse** to select the product key file.
10. Fill in your **Account Name** and **Password**.
11. Click **Finish**.
The licenses for the upgraded products are now listed in the License Manager.
12. Close the License Manager and click **Go back** in the top-right corner of the page.
13. Click on **Continue with the installation of the prerequisite components** link.

3.3.5. How to Upgrade the Prerequisite Components

Follow these steps to upgrade the **Prerequisite Components**:

1. On the installation page, click **Install the prerequisite components**.
2. Follow the instructions of the installation wizard.
3. The installation wizard will ask you to close all Esko applications. Click **Yes** when asked **Ready to continue?**
4. Follow the instructions of the installation wizard.
5. Click **Continue**. Click **Yes** in the **Installshield Wizard Complete** message window.

6. **Automation Engine 21 Prerequisite Components Installation** window will ask you about **CAD-X** component installation, both 'Standard' and 'Enterprise'. Click **Yes** if ArtiosCAD is not installed.
7. Follow the instructions of the installation wizard
8. Click **Exit**.
You will be redirected to the installation page to continue with the next step.

3.3.6. How to Upgrade Automation Engine software

After the upgrade of the prerequisite components, your system is ready to upgrade to Automation Engine 21.

1. Click on the **Install the Esko Software 21 Automation Engine** link on the installation page.
The Automation Engine 21 Software Installation wizard will open up.
2. Follow the instructions of the installation wizard.
3. Read the **Software and Data license agreement** carefully and select **Yes, I accept the license agreement**.
4. When asked to select the products to install on this system, select **Automation Engine 21**.
The group **Common Components** cannot be deselected and will be installed on all systems.
5. Follow the instructions of the installation wizard.
6. Select the **Destination Folder** for the chosen products or accept the defaults.
7. During the pre-installation this question will appear "If you continue Automation Engine <number-of-the-new-version> will be installed but it may not be possible to return to <number-of-your-current-version>. Do you want to continue the installation anyway?". Answer **Yes**.
8. Follow the instructions of the installation wizard.
9. At the end of the installation, click **Finish**.
10. Now install Automation Engine Client Applications. Learn more in [How to Install Pilot or Shuttle](#) on page 11.

3.4. How to Upgrade onto a New Server Computer

These are the typical cases when you want to change the hardware (computer) of your Automation Engine server:

- You decided yourself that the server computer needs to be updated, usually for performance reasons.
- Your server computer no longer matches Esko's requirements for an Automation Engine server. A typical case is when the Windows OS is no longer supported.

For example: Automation Engine 16 server is no longer supported on Windows 2003 or Windows 2008 RTM 32/64bit. If your server runs Windows 2003 or Windows 2008 RTM 32/64bit, the hardware will also be too old by now to use it for such a vital production tool. This means you will most probably not change the OS on that old server but install Automation Engine on a new computer with a recent Windows OS. For a list of supported OS, see <http://www.esko.com/systemrequirements>.



Attention:

- Since Automation Engine 18, Windows 2008 R2 is no longer supported for new installations. However, it will still support Windows 2008 R2 for upgrades.
- A next version of Automation Engine will not support Windows 2008 R2 anymore.

Note: Your new server computer can have a different name than the old server computer.

To move your Automation Engine server configuration to a new server, follow these main steps:

1. Install Automation Engine on the new server

First you install Automation Engine on this 'virgin' new server. Follow the standard procedure as described in [How to Install Automation Engine 21](#) on page 7.

2. Backup your old server configuration, using the backup tool from your old Automation Engine server software

To get the configuration of your old server onto your new one, use the backup tool that is offered in the **Automation Engine Server Web Page** of the old server (go to `http://<name-of-your-OLD-server>:9999/` and sign in).

3. Restore that backup on your new Automation Engine server.

To do this, use the **Restore** function as documented in [Restore](#).

3.5. How to Repair an Automation Engine Server

You typically need to repair a system when software program files got deleted or became corrupt. For example a virus can cause such damage.

Note: Only Automation Engine components of the same version as the one on the DVD can be repaired/re-installed.

To repair the Automation Engine server software, proceed as follows:

1. Open the **Automation Engine Software Installation** window:
 - If you insert the distribution DVD into the DVD drive, or mount the corresponding .iso file, the window appears automatically.
 - If you unpacked a downloaded .iso file, or if the window doesn't open automatically, double-click `setup.exe` in the root folder.
2. Select the installation language.
3. Click **Proceed to the installation**.
4. Click **Repair / re-install Automation Engine** and **Choose** which component you want to repair.

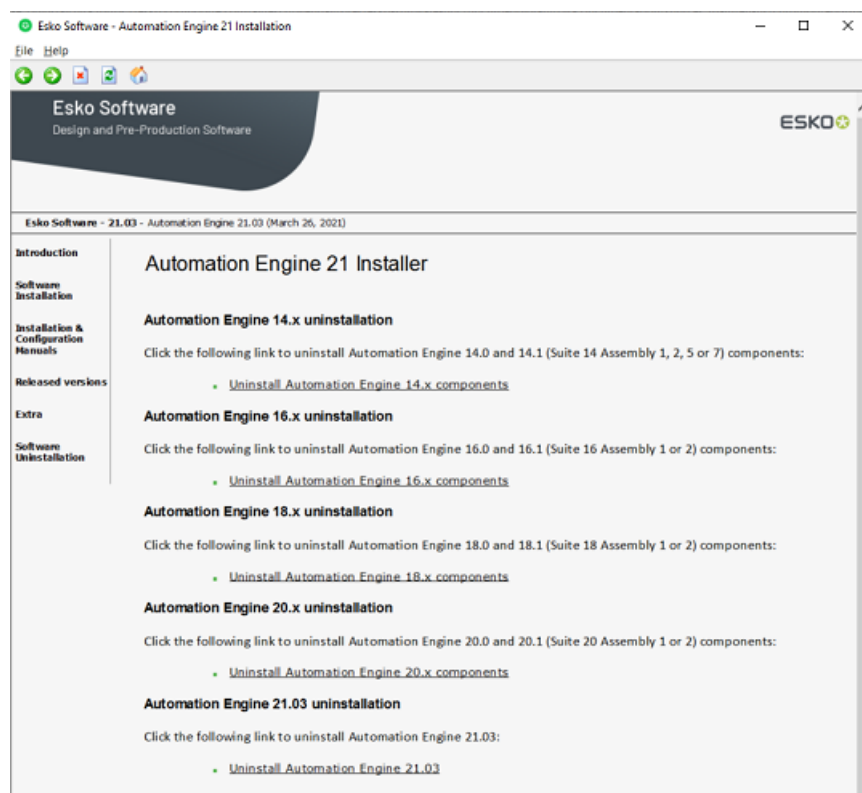
3.6. How to Uninstall Automation Engine server software

When you uninstall a version of Automation Engine, only that Automation Engine server software and the configuration of that version is removed. Also the "**DeskPackContainer**" is removed.

Resource files like color data, fonts or curves are not touched.

You can choose to uninstall the current version or an older version.

Note: Although technically not required, it is a good standard practice to make a [backup](#) of your current configuration before doing an uninstallation.



3.7. How to Install the Configuration Manager

The **Configuration Manager** tool collects a lot of data regarding software versions, hot-fixes, OS etc. This information can be useful for Esko customer support. It can also alert you on expiring licenses.

Only install the **Configuration Manager** if there is no **Configuration Manager** active on your network yet. **There can only be one Configuration Manager** active on the network.

How to install the **Configuration Manager** is described in its own (installation) manual. Find it on <http://help.esko.com/products/Configuration%20Manager>.

4. Post-Install Configuration

Some configuration steps are done when first signing in to the browser client. Others need to happen on the DFE.

4.1. Configuration when First Using the Browser Client

The Automation Engine installer creates a shortcut on the desktop. Start the QuickStart browser client using this shortcut.

When starting the browser client the first time on a new system, you will be asked to decide some easy configuration steps:

1. Create an administrator user

Note: You will be able to create other users later, via the normal tool in the **'Admin'** menu.

When done, login with that user and continue:

2. Configure a data container

A next page invites you to set the data container.

By default a data container called **'ExampleJobContainer'** is used. This is a shared folder created during the Automation Engine installation and is located on the same disk as where the Automation Engine software was installed.

In case you want to use a different shared folder, select this shared folder from the drop-down list. The default data container can always be changed (via the 'Admin' menu) but already created products and production jobs will not be moved.

3. A next page asks you to configure presses and their resources. It refers to this document. See the next pages.

4.2. Digital Press Configuration and Migration of Resources

4.2.1. Connecting a Press driven by an Esko DFE (incl. HP L&P Print Server)



Attention: On this page, "Esko DFE" means a DFE made by Esko, including the "L&P Print Server" as it is offered by HP Indigo.

An Esko DFE already used color strategies, Dynamic Marks and step&repeat templates. In an Automation Engine QuickStart setup, you need to make sure that these files are now visible and controlled by the Automation Engine server:

1. Color Strategies

You need to redirect the color strategies on the Esko DFE to the AE server. You then also need to copy these color strategy files from the DFE to the AE server.

a. On the Esko DFE, redirect the Color resources to Automation Engine

- On the Esko DFE, start up the DFE Configuration tool.
- Go to **Start > Programs > > Esko > HP SmartStream Print Server > HP SmartStream Configuration**.
- Go to the **Data** tab.
- At the bottom, you will find '**Resources search path**'. Choose '**Configure**'
- Choose '**On another computer**' and fill in the name of your Automation Engine server.
- Click **OK** (2x).

b. Copy Color Strategies from a DFE (Esko DFE or Production Pro) to Automation Engine.

To copy Color Strategies from a DFE to the AE server, proceed as follows:

a. STEP 1

- On the DFE or Production Pro, start **Color Engine Pilot** 13.4 or higher.
- Go to **File > Preferences > > Database**.
- **Location of Color Engine Database** : select "**On remote computer**".
- Fill in the name of the **DFE** that you want to copy the color strategies from.
- Click **OK**.
- It might be required to restart the Color Engine Pilot at this point.
- Now go to the list of Color Strategies (**Library > Color Strategies**).
- Select the Color Strategies you would like to copy.
- Once all the Strategies are selected, right-click "**Export**".
- Make sure the button "**archive as one file**" is switched on.
- Use the "**Browse**" button and choose a directory to export the .FP file to.
- Click "**Export**".

This results in an .FP file (containing all your Color Strategies) on the selected location.

b. STEP 2

Now import the Color Strategies on the Automation Engine:

- Open the **Color Engine Pilot** (on the Esko DFE or the HP Production Pro)
- Go to **File > Preferences > Database**.

- **Location of Color Engine Database:** Select **"On remote computer"**.
- Fill in the name of the Automation Engine server that you want to copy the color strategies to.
- Click **OK**.
- Go to **File > Import** and select the .FP file you created in step 1.
- Click on **"Open"**. All the exported color strategies are now listed in the **"Import"** Window.
- Click **"Import all"** to import the color strategies.

The selected Color Strategies are now available on both the DFE and Automation Engine and the Color Strategy **Check** can be used on these strategies. Learn about this check in the [eLearning course on the workspace "Roll fed labels"](#) in the module 'Color Strategy'.

2. Dynamic marks

Any dynamic mark sets present on the DFE must also be made available to the AE server.

Copy the dmK file in the bg_data_marks share on the DFE onto the same share on the AE server(`\\<dfeserver>\bg_data_marks_v010\DynamicMarks` to `\\<aeserver>\bg_data_marks_v010\DynamicMarks`).

Note: These mark sets can contain DFE variables. Learn which of those are supported in '[Can I still use my Dynamic Mark Sets that use Esko DFE variables?](#) on page 36'.

3. SRT templates

SRT templates used by the DFE reside on the share `\\<dfeserver>\bg_data_custom_v010\powerlayout\DFE`.

These SRT files have to be imported into the die database of the AE server. This is done by using the tool in the browser menu **Admin > Dies** (one by one).

Note: In case you have a large number of SRT templates, bulk import of SRT files can be done using the Pilot interface: copy the SRT files to the `ExampleJobContainer` of the AE server and then run the task **"Import Die"** on these files. When you don't know the Pilot interface, ask Esko support for help.

4. Add the DFE press to the AE QuickStart configuration

In the browser client, add presses via **Admin > Presses**. Learn more in the [eLearning course on the workspace "Roll fed labels"](#) in the module on 'Presses'.

4.2.2. Connecting a Press driven by an HP Production Pro

1. Configuration of Color Strategies

The HP Production Pro should be configured to use the color resources from the AE server. This requires an intervention of an HP service engineer.

In case you already created color strategies on the Production Pro, use the same procedure [as described above](#) to copy strategies from the Production Pro to the AE server.

2. Add the HP Production Pro press to the AE QuickStart configuration

In the browser client, add presses via **Admin > Presses**. Learn more in the [eLearning course on the workspace "Roll fed labels"](#) in the module on 'Presses'.

4.3. Known Limitations

- **In Dynamic Marks, DFE specific fields are not supported**

When using DMK sets or SRT templates which contain dynamic marks, the DFE specific text-fields are not supported in this workspace.

- **Non printing inks**

When you add non-printing inks to the configuration of this workspace (**Admin > System > Non-Printing Inks**), you then also need to add these ink names to the list of technical inks on the DFE (both when Esko DFE and when HP Production Pro). This is especially necessary when you work with VDP jobs (both when pre-expanded or template based VDP jobs).

5. Details of the Product's Preparation workflow

This page adds some details to the information mentioned in the module '**Product Preparation Workflow**' as part of the [eLearning course on the workspace "Roll fed labels"](#).

5.1. Preparation Workflow for Digital Printing

Preflight to Check EPM

This Pitstop preflight uses the profile 'HP EPM Basic Check.ppp'.

The product file will not be considered 'EPM ready' when the check finds any of these items:

- Text inside the trim box with a point size of 6 pt or lower.
- Lines inside the trim box with a stroke width of less than 1 pt.
- Filled objects inside the trim box that are smaller than 1 pt.
- Areas inside the media box with a total area coverage (TAC) of CMYK colors equal or higher than 280%.
- black gradients or black images.
- rich black objects (fill or stroke with 100% K and C between 20% and 60%, M between 0% and 60%, Y between 0% and 60%).

If the input file is a multipage file (a pre-expanded VDP file), then only the first page is checked.

Preflight to Check Objects

This Pitstop preflight uses the profile 'AEQS4L_Basic_Profile.ppp'. This profile is based on the [GWG profiles](#).

This is what this check does:

- It logs as an **error**:
 - When it finds an empty crop box (GWG 2012 4.04).
 - When blending color space is defined and is different from 'Device CMYK' (GWG 2012 4.26).
 - When the color space of luminosity soft mask blending is different from 'Device CMYK' or 'Device Gray' (GWG 2012 4.26).
 - When it finds an image (grayscale or color) with a resolution less or equal than 199 ppi (GWG 2012 4.27).
 - When it finds a 1-bit image with a resolution less or equal to 549 ppi.
 - When the document is damaged.
 - When the document uses any security.
 - When the document is empty.
 - When there is text inside the trim box that uses any fonts that are not embedded.
 - When the document contains annotations of the type 'Movie', 'sound' and '3D', 'TrapNet', 'File Attachment', 'Screen' or 'Watermark'.

- It logs as a **warning**:
 - When checking page rotation flags (GWG 2012 4.05) and it finds a rotation different from 0 degrees.
 - When it finds text objects inside the trim box that use the font 'Courier' (GWG 2012 4.15).
 - When it finds an image (grayscale or color) with a resolution less or equal than 239 ppi (GWG 2012 4.27).
 - When it finds a 1-bit image with a resolution less or equal than 799 ppi (GWG 2012 4.28).
 - When the document contains any annotations of the type 'Text note', 'Markup' or 'Hyperlinks'.

The preflight report is saved in the product's 'Data Zone', in a subfolder 'Reports'. Learn more about these folders in [Where is Data Stored?](#) on page 39.

Note: The system keeps only 1 preflight report. When the prepare workflow is started multiple times, this report is overwritten each time.

To-Do to Check the Preflight Report (if needed)

How the workflow continues depends on the result of the preflight:

- No warnings or errors: The workflow sets the product status to **Preflight OK** and continues the workflow (if requested, by making the proof).
- Warnings and/or errors: The workflow sets the product status to **Preflight Not OK** and starts the step **'Wait for Action (Checkpoint)'**, which shows up in the browser client as a **'To Do'** item.

The user opens the To Do item and reads if the preflight resulted in warnings or errors. He checks the report and then chooses to click on:

- **Preflight OK.** The workflow continues. The users decides that this product file is good enough to produce.
- **Preflight NOT OK.** The workflow stops here. The user decides that this product file needs to be changed, that a new PDF is needed.

Proof Report

Learn more about this proof in the page [Customizing the Proof Report](#) on page 30.

To-Do to Check the Proof (if needed)

After the workflow created the proof file (using the step 'ReportMaker'), it (again) starts a **'Wait for Action (Checkpoint)'** step, which shows up in the browser client as a **'To Do'** item.

- The user can there check the proof file and then choose to click on:
 - **Proof OK.** The workflow continues. The products status is set to **'Proof OK'**. This means that the proof PDF can now be sent to the customer to get their approval.
 - **Proof NOT OK.** The products status is set to **'Proof Not OK'** and the workflow stops.

5.2. Preparation Workflow for Flexo Printing

This preparation for flexo does not check for EPM. It does include a step to execute trapping.

Note: The main workflow principles are described in the page [Preparation Workflow for Digital Printing](#) on page 26. We here mainly illustrate the profiles that are used in the Preflight steps.

Note: When the public parameter 'Preflight' is set to 'YES', both the preflight steps are done. Else, none of them is done.

Preflight to check the PDF file's integrity

The end status will be

- **Preflight OK** when there are no preflight errors (no messages or just warnings)
- **Preflight Error** when there are preflight errors.

The preflight report is named [file]_PreflightReport.pdf

This Pitstop preflight is done using the profile:

'MISINTEGRATION_CheckIncomingPDFIntegrity.ppp' (same profile as used in the standard MIS integrations).

- This profile logs as an error:
 - if the document contains embedded PostScript fragments (error)
 - if the document contains pre-separated pages (error)
 - if a page is empty (error)
 - if there is more than 1 page (error)
 - if fonts are not embedded (error)
 - if OPI images are used (error)
 - if the document contains JavaScript, actions or form fields (error)
 - for an empty crop box (GWG 2012 4.04) (error)
 - if blending color space is defined and is different from 'Device CMYK' (GWG 2012 4.26) (error)
 - if luminosity soft mask blending color space is different from 'Device CMYK' or 'Device Gray' (GWG 2012 4.26) (error)
- This profile logs as a warning:
 - if a page scaling factor is set (warning)
 - for page rotation flags (GWG 2012 4.05), if rotation is different from 0 degrees (warning)

Preflight to check the printability (Flexo)

The end status will be

- **Prepress Preflight OK** when there are no preflight errors (no messages or just warnings)
- **Prepress Preflight Error** when there are preflight errors.

The preflight report is named [file]_PrintingPreflightReport.pdf

This Pitstop preflight is done using the profile:
'MISINTEGRATION_CheckFlexoRequirements.ppp' (same profile as used in the standard MIS integrations).

- This profile logs as an error:
 - when a page is empty (error)
 - when there is more than 1 page (error)
 - when there are more than the maximum number of separations (public parameter) (error)
 - when it finds an empty crop box (GWG 2012 4.04) (error)
 - when it finds overprint white text (GWG 2012 4.09) (error)
 - when it finds overprint white paths (GWG 2012 4.10) (error)
 - when it finds ambiguous spot colors (GWG 2012 4.21) (error)
 - when ICC profile versions is higher than 2 (GWG 2012 4.24) (error)
 - when classic delivery method (no (calibrated) RGB, ICC, LAB, calibrate gray based colors (GWG 2012 4.25) otherwise logged as error
 - when blending color space is defined and is different from 'Device CMYK' (GWG 2012 4.26) (error)
 - when luminosity soft mask blending color space is different from 'Device CMYK' or 'Device Gray' (GWG 2012 4.26) (error)
 - when it detects an image (grayscale and color) resolution less or equal than 199 ppi (error). If resolution is less or equal than 239 ppi (GWG 2012 4.27) (warning)
 - when it detects that the resolution of 1bit images is less or equal to 549 ppi (error). If resolution is less or equal than 799 ppi (GWG 2012 4.28) (warning)
 - when it detects single image page images with a resolution less then 450 ppi (error). If resolution is less than 1200 ppi (GWG 2013 4.29) (warning)
- This profile logs as a warning:
 - when it detects page rotation flags (GWG 2012 4.05) with a rotation is different from 0 degrees (warning)
 - when it detects grayscale objects in overprint (GWG 2012 4.08) (warning)
 - when it detects overprint 100% black text (GWG 2012 4.11) (warning)
 - when it detects ink coverage inside the trim box that is higher than 320% (ignoring objects smaller than 15mm) (warning)
 - when it detects overprint 100% black text defined in deviceGray (GWG 2012 4.12) (warning)
 - when it detects overprint thin (stroke width < 2 pt) black lines (GWG 2012 4.13) (warning)
 - when it detects overprint thin (stroke width < 2pt) black lines defined in deviceGray (GWG 2102 4.14) (warning)
 - when it detects text objects inside the trim box which use the font 'Courier' (GWG 2012 4.15), if such text objects are found (warning)
 - when it detects rich black text (K 85%, TAC 280%) is used (GWG 2012 4.16) (warning)
 - when it detects small text (< 5 pt for 1 colorant, < 14 pt for multiple colorants) (GWG 2012 4.17) (warning)
 - when it detects effective line width (< 0.3 pt for 1 colorant, < 1.5 pt for multiple colorants) (GWG 2012 4.18) (warning)
 - checks the spot color naming (GWG 2012 4.20) (warning)
 - when it detects alternate layer configurations (optional content) (GWG 2012 4.30) (warning).

6. Customization

6.1. Customizing the Proof Report

The product preparation workflow allows to generate a proofing PDF file. Such a proof file consists of a preview of the product with some technical information. It also contains a second page showing the separations.

Note: The language used in this template is the one you have selected as option in the tab **Prepare** of that product.

You can change how that proof file looks by replacing some parts of the proof template file. That template file is installed during the installation of Automation Engine.

How to change the Proof template

The PDF files for proofing are using a proofing template supplied by Esko (technically: ReportMaker template). This template PDF refers to 3 separate PDF files that fill different areas of this template.


These external PDF files reside on the folder

```
\\<Name-of-AE-Server>\ExampleJobContainer\Digital Label Production\Resources\ReportMaker  
\Parts
```

These PDF files correspond to the areas numbered 1, 2 and 3 in the picture below:


| | | | |
|----------------|---------------------|--------------------|------------------------|
| Date | 25-Apr-18 | Customer | Happy Fruits bvba |
| Product | 20170505 | Contact | Michael Jackson |
| ProductID | 20170505 | Customer Reference | Lemon juice label 2018 |
| Order Material | Self-adhesive white | Dimensions | 73.00 x 70.00 mm |

Winding



Inks

- Black
- 122
- Cutting



Scale: 100.0 %

ESKO*

KORTRIJKSESTEENWEG 1095
9052 GENT, BELGIUM

Important: We advise that this artwork is checked carefully for layout, spelling and text. Please check thoroughly. It is the responsibility of the client to check these points and accept fully liability. Do not sign approval if there are changes to be made, another proof will be supplied.

Important: This is a PDF Proof, the colours are not accurate. When PANTONE COLORS are used, the colours must be matched with the official PANTONE guide.

1

2

3

Name

Date

Signature

APPROVED

Simply replace each of these separate PDF files with your own content.

- Area 1 consists of 'Header .pdf'. You could put your own company's logo here for example.
- Area 2 consists of 'Disclaimer .pdf'. Your company probably has its own specific text that you want your customers to sign off on.
- Area 3 consists of the PDF file representing the selected roll winding. There are 8 different windings, represented by 8 PDF files ('Winding_1.pdf' to 'Winding_8.pdf'). You or your customer might be used to a different style of these icons.



Attention: When replacing any of these 3 Esko supplied PDF files by your own version, make sure you respect the dimensions of the original PDF file. Otherwise they will no longer nicely fit in the default template.

About the default proof template

This template resides on the folder

```
\\<name-of-AE-server>\ExampleJobContainer\Digital Label Production\Resources\ReportMaker\
```

This template should **not** be changed as it gets replaced by the default template that comes with an Automation Engine installation after each update.

If a different template is required, skilled users or Esko staff can create one using Esko PackEdge but it should be given a different name. They will also need to use the Automation Engine Pilot to create a customized version of the 'prepare' workflow, so that it refers to that new template.

Units and Language

The unit used in the dimensions (artwork info & dimension lines) and the language of the report are those as set in **the Product's Settings > Tab 'Prepare' > Proof**.

The proof template has all the language specific texts present in dedicated layers (1 per language). The chosen language decides which layer is kept (during the workflow step "**Optimize PDF document**").

6.2. Customizing Workflows

Customizing a Product's Preparation Workflow

In the 'Prepare' tab you can save variants of the workflows that are offered by default.

When you want to customise a workflow further than that, this then needs to be done by Esko staff, as a paid service.

For any such request, please contact [Esko Solution Services](#).

Customizing a Production Job's Output Workflow

The production job types that have no live connection to a digital press, end in sending files to another component.

In their tab 'Output' you select the matching 'output' workflow, which is by default a simple copy of those files. And you there also specify their destination.

When you want to customise that output workflow, for example to have those PDF files also RIP'ed and submitted to a DFS of an Esko CDI, then this also needs to be done by Esko staff, as a paid service.

For any such request, please contact [Esko Solution Services](#).

Note: You may have purchased those services already together with the QuickStart application. They this customisation may be done soon after the initial installation.

Note: Output workflows that you created using the Pilot client, need a special tag to make them appear in the browser interface of QuickStart:

- For the type 'Digital to PDF', the tag needs to contain `QuickStart Digital Output`.
- For the type 'Flexo to PDF', the tag needs to contain `QuickStart Flexo Output`.

7. Frequently Asked Questions

7.1. Can I use the Browser Client from Outside my Network?

No.

The (browser) client computer must be in the same LAN as the Automation Engine server.

7.2. What about using HTTPS ?

HTTPS is the preferred way of connection.

When your browser client is not using HTTPS in its communication with the AE server, the log in dialog will mention this and refer to [this KB article](#) that explains how this can be done.

The screenshot shows a login window titled "LOG IN". It contains two input fields: "User Name" and "Password". Below these fields is a green "Log In" button. Underneath the button, there is a link: "Don't have an account yet? Ask your administrator." At the bottom of the window, there is a red-bordered box containing a security warning. The warning starts with a lock icon and the text "Your connection is not secure." followed by "Please consider switching to HTTPS to ensure all communication is encrypted." and a link "Click here to learn how you can enable this."

7.3. Which File Formats can I use for a Product?

You can create a Product from these file formats:

- *.PDF
- *.AI Adobe Illustrator when PDF compatible



Attention: When you use the Esko plugin '**Borders**' to set the PDF TrimBox/MediaBox in Adobe Illustrator, Automation Engine will ignore these settings. To make sure that these Trim Boxes / Media Boxes will be used, you need to export the file to 'Normalized PDF'.

- Esko Normalized PDF when self-contained (no external images or other files).

7.4. What about Multipage Files?

Can I use Multipage Files?

When you use a multipage PDF to make a product, the system automatically assumes that this is file for a VDP workflow and decides that this product is a VDP product. A pop-up message tells you so.

This means that, apart from that VDP case, you can not use multipage PDFs to make products.

Note: In the Viewer, you can compare different pages of a multipage file. Learn about comparing in this Viewer tool by checking the [WebCenter Online Help](#) (**Complete Manual > WebCenter Viewers > HTML5 Viewer > Compare Documents**).

7.5. Are there More Ways to use the Search Filter?

Yes. There are more advanced ways than those described in the [eLearning modules](#).

Important: This page assumes that you have seen the parts 'Sorting and Filtering' in the eLearning modules about the Products gallery and about the Production Jobs gallery.

We there show that you can type in a value and that you can select a category to restrict the search to only that category. The selected category is then also added to the text in the search field. And we show the example where we manually add a combination of categories and values.

Rules and Possibilities when Typing in Filters yourself

We here repeat the main rules and add some extra possibilities and examples:

- In the search field, categories always need to be followed by a ': '. For example: '**state:run**'.
- When the name of a category contains spaces, you must put it in between quotes. For example: "**order material**".
 - Alternatively, some categories can also be written without spaces. For example: for "**due date**", you can also write **duedate**.
 - For "**production job name**", or "**product name**", you can even simply write **name**.
- To have an exact match with the word behind the category, you must place a '=' right after the ': '. For example: "**production job name**":=**blond**". This will find the job '**blond**' but not the job '**blond_2018**'.

- You can type the name of a category in English or in its translated version.
- When the product or job setting contains 'word1' immediately followed by 'word2', you can enter **"word1 word2"** or **category:"word1 word2"** .
- When these 2 words do not appear next to each other or are not even in a same category, you can enter **word1 word2** or **category:word1 category:word2**. For example: **60 fruitco** or **name:60 customername:fruitco** .
- When the category name is not recognized, it is treated as regular text.
- When you search for a word that ends with a ' : ', put it between quotes to avoid that it is treated as a category.
- The search field is not case-sensitive.

More Ways to Filter on Date

As shown in the eLearning modules, you can filter on the creation date of products and on the creation or due date of production jobs.

- What you enter in the search field must comply with one of these three formats:
 - day, month and year
 - day, month, year and time in minutes and seconds
 - month
- The text of the date also depends on the language that you have chosen in **User > My Preferences**.
- Examples of supported dates:
 - English:
 - 08/28/2017
 - 8/28/2017
 - "August 28, 2017"
 - "Aug 28, 2017"
 - "August 28, 2017 4:25 PM"
 - "Aug 28, 2017 4:25 PM"
 - "Monday, August 28, 2017 4:25 PM"
 - "Mon, Aug 28, 2017 4:25 PM"
 - August
 - Aug
 - French:
 - 28/08/2017
 - 28/8/2017
 - "28 août 2017"
 - "28 août 2017"
 - "28 août 2017 16:46"
 - "28 août 2017 16:46"
 - "lundi 28 août 2017 16:46"
 - "lun. 28 août 2017 16:46"
 - août
 - German:
 - 28.08.2017
 - 28.8.2017

- "28. August 2017"
- "28. Aug. 2017"
- "28. August 2017 16:48"
- "28. Aug. 2017 16:48"
- "Montag, 28. August 2017 16:48"
- "Mo., 28. Aug. 2017 16:48"
- August
- Aug.
- All date formats that contain spaces need to be put between quotes.
- Partial date formats are not accepted.
- Entering a date in one of the above formats without specifying a category will also search for the date in all non-date settings of the product or job (as plain text).
- Next to dates, you can also use the words '**yesterday**', '**today**' and '**tomorrow**'.
- When filtering based on a month, only products or jobs with a creation or due date within that month of this year will be found.
- You can combine filtering on dates with filtering on other types of settings.

7.6. Can I Print a Product that is 'Not Ready For Production'?

Yes you can.

As explained in the eLearning module about Product Status, a product will be 'Ready for Production' when it has its file been 'Approved'.

This product status is only information. You can still produce it. But when starting the production job with this product, you will be asked if you are sure if you want to print it.

7.7. Can I still use my Dynamic Mark Sets that use Esko DFE variables?

Summary

A dynamic mark set can contain dynamic text marks that refer to variables on the Esko DFE.

When launched from this workspace 'Roll-fed Labels', being added to the S&R task in the production workflow, most of the DFE variables (press name, printing inks, color strategy...) are supported, with the exception these:

- '**Screen name**' is not supported. AE has no access to screening info.
- '**Substrate name, Printing Ink Names (long and short) and Color Strategy Name**' are only supported in case the Press Material or Color Strategy are explicitly selected in the UI of this workspace (not when only chosen as 'from Press Ticket').
- '**Step and repeat template name**' is only supported with template dies, in which case it will represent the name of the SRT file it was based on.

Table of DFE variables supported in a Dynamic Mark set selected in the workspace 'Roll-fed Labels'

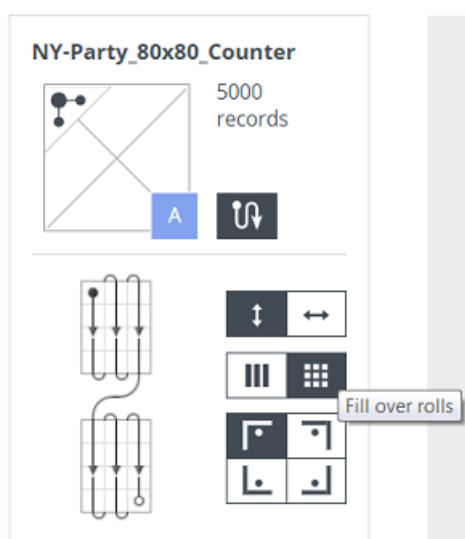
| Category | Field | Info |
|-----------|----------------------------|---|
| Document | File name | Comma separated list of the URLs of the input graphics. URLs can contain hex-encoded (%XY) characters. |
| | File date | Modification date of the input graphic(s). |
| | File time | Modification time of the input graphic(s). |
| | File date and time | Modification date & time of the input graphic(s). |
| | File Trim Box | Trim Box of the input graphic(s). |
| | File Media Box | Media Box of the input graphic(s). |
| Color | Input ink names | List of ink definitions of the input graphics. |
| | Input ink names (short) | List of ink short definitions of the input graphics. |
| | Printing ink names | List of names of the printing inks (ink set + extra output inks). Only works if color strategy was selected in the workspace 'Roll-fed Labels' (not from the press ticket). |
| | Printing ink names (short) | List of names of the printing inks. Only works if color strategy was selected in the workspace 'Roll-fed Labels' (not from the press ticket). |
| | Color strategy name | Only works if the color strategy was selected in the workspace 'Roll-fed Labels' (not from the press ticket). |
| Print Job | Print job name | Name of the production job in the workspace 'Roll-fed Labels'. |
| | Print job date | Generated by the S&R task (current date/time). |
| | Print job time | Generated by the S&R task (current date/time). |
| | Print job date and time | Generated by the S&R task (current date/time). |
| | Press name | Name of the selected press. |
| | Substrate name | Only works if the press medium was selected in workspace 'Roll-fed Labels' (not from the press ticket). |
| | Job comment | Typically a message for the press operator. |
| | SRT template name | The name of the SRT template or the name of the numeric die. The S&R task already has this parameter in its ticket. |

7.8. VDP Block Distribution = Fill over Rolls

In an Esko DFE, I can use 'Block Distribution'. Where can I do that in this workspace?

Users of an Esko DFE, when working with VDP jobs, can use a method of distributing the variations called 'Block Distribution'.

Here, in the workspace 'Roll-fed labels', this function is named **'Fill over Rolls'**.



Note: In this workspace 'Roll-fed Labels', the term 'blocks' is used for other (non-digital) use cases.

Learn more in one of the eLearning modules on **Variable Data Printing**.

In the eLearning module '**VDP - VDT file and Counter**', rolls are defined in the tab '**Production Settings**' and distribution of the variants (flow and fill) is defined in the tab '**Printing Sequence**'.

Of course, this function is valid for all 3 types of VDP Products.

7.9. Can I Change the Proof Template?

Yes, you can.

This is described in the page [Customizing the Proof Report](#) on page 30.

7.10. Can I Use Domain Users?

Yes you can.

You need to set this up on the Automation Engine server using Windows User Management tools.

A domain user can be used when you add it to the Windows users group '*BGusers*' or '*BGadmin*'.

To see these domain users appear in the browser interface (**Admin > Users**), just wait 15 minutes, or restart the '*bgmd*' service.

Note: Domain users with the same user name as the local user can exist.

7.11. Where is Data Stored?

The interface of your browser client offers all the tools to access and view the relevant production data. Below extra information is therefore for users that need a more advanced knowledge of where this product and job data is stored. These are typically Esko staff or users who were already familiar with the 'Pilot' client interface.

Where is the Data stored of a Product?

- The files that you upload to create a product are stored on the Automation Engine server, decided by a rule-based logic called the **Smart Product Location**.

Note: For those that know the 'Pilot' client, this setup can be found at **Pilot > Configure > Products > Smart Product Location**.

- When no rules were configured in that tool, the product files are stored in the 'ExampleJobContainer'. This is a shared folder on the Automation Engine server that was created automatically when Automation Engine was installed.

Product files are then stored according this file path:

```
\ExampleJobContainer\Products\<ProductCustomerID>\<ProductName>
```

This folder structure is created automatically when you upload a PDF file for that product (for the first time).

Note: If, for some reason, the folder 'ExampleJobContainer' does not exist, the files will be stored in a randomly chosen shared folder (= 'Container'), following that same file path:

```
\<OtherSharedFolder>\Products\<ProductCustomerID>\<ProductName>
```

Note: New products that were saved but for which no file was uploaded yet will not show a product folder.

- This folder <ProductName> contains the PDF that you upload for this product. When you upload other file(s) later on, they are also put there. Files with a same name will be overwritten.

Subfolders are created automatically for each type of data:

- \Proofs:** The proof PDF file is located here. When a preparation workflow is run more than once, proof files will be overwritten.
- \Reports:** The Preflight report PDF is located here. When a preparation workflow is run more than once, preflight report files will also be overwritten.
- \Uploads:** Product files for which a preparation workflow was started are copied here. To make sure they are not overwritten, a prefix is added to their name with the date and time you started the workflow.

Note: The files in these 3 subfolders are visualized in the tab **'Data'** of a product's settings. The data **categories** match these folder names.

Note: This product folder and its subfolders are also referred to as the **Product Data Zone**.



Attention: When you use the browser interface to remove a product, users of the Pilot client will notice that its complete Product Data Zone is deleted!

Where is the Data stored of a Production Job?

The data related to a production job is stored according the same logic as described above for products.

The moment a job is saved for the first time, a folder is created under

```
\ExampleJobContainer\Jobs\<ProductionJobName>
```

(unless otherwise configured in the tool 'Smart Job Location').

Users of the Pilot client can see this folder as a blue 'Job'. The production workflow runs in this job context.

All data created during the production workflow is stored in this folder, in a subfolder `\temp`. Such 'temp' folders are hidden in the Pilot client, but they will be visualized when for example, on one of the tasks in the workflow, you ask to '**Go to Output File**'.

This folder contains:

- the Step&Repeat PDFs. One for each form of layout (`<jobname>_sr_1.pdf` etc..)
- the JDF file to communicate with the DFE (`printrun_***.jdf`)
- XML files describing the product PDFs (location, technical inks to ignore)
- PDF of each station (product PDF or empty station version of that product).

When you use the browser interface to remove a production job, users of the Pilot client will see that the job is removed from the list of active jobs but that all its data are still kept (the blue folder becomes yellow).

Where are the Dies stored?

In this workspace, you can create a new die by importing a template step & repeat file (.SRT or .PDF). Learn more in eLearning module '**Dies**' as part of the [course on Roll fed Labels](#).

The system reads this file, adds the resulting die to its database, uploads the imported file to the AE server on:

```
\Esko\BG_DATA_CUSTOM_V010\powerlayout\ae
```

7.12. Can I Remove an Order Material that is in Use in a Job?

When you remove an order material, products that used that order material will from then on have this setting on **<none>**.

The same thing happens for production jobs: this setting (which it gets from its products) also changes to **<none>**. This is not a real problem as you can still start its production workflow.

Note: Mind that the material that needs to be communicated to the DFE is not the order material but the press material. The order material is only really used as a filter when adding products to a job.

Follow these steps to get a different order material in a production job:

1. Update the products of that production job with another order material.
2. In the production job:
 - a. remove those product(s),
 - b. then (re-)add those updated product(s) (and re-set the quantity and printing sequence).

7.13. What happens when I make Changes to a Product that is Used in a Production Job?

Can I change attributes of a Product that is used a Production Job?

Yes you can. However, the moment a product is added to a production job, its settings like customer ID and order material are *copied* into that job. These values are not references.

Important: This means that changing the order material and/or customer of a product *after* the product has been added to a production job does *not update* the value of the order material and/or the customer of a production job.

What happens if I Rename a Product After it was already Added to a Production Job?

Renaming a product while it was added to one or more production jobs is not a problem. The jobs can be produced successfully. The job has a reference to its products. It will pick the products it was intended to use.



Attention: When a print mark is asked to put the product name on the layout PDF, this could be the old product's name (depending on the time the changes are made).

7.14. Can my Browser be in Dark Mode?

In a user's **Preferences**, I can choose the **Color Theme** (light or dark mode).

The default setting is '**Let browser decide theme**'. What does this setting mean?

When this choice is selected, the user interface of this AE workspace will be displayed in light mode unless the browser itself has a general setting regarding its color theme. In that case the workspace will be in dark mode.

- Example: The browser Safari 12.1 on macOS Mojave (10.14) will, with this setting, appear in the dark color theme when the macOS is set to 'Appearance Dark' in the system preferences.