

INSTALLATION AND INITIAL CONFIGURATION MANUAL

Table of contents

1. Introduction	4
1.1. Purpose of the manual	4
1.2. Intended audience	4
1.3. Symbols used	4
1.4. Contact Doxense®	5
1.5. Versions	5
2. Presentation of Watchdoc®	6
2.1. What is Watchdoc® ?	6
2.2. Technical and functional architecture layout	7
2.3. Key functions	8
2.4. Benefits	9
3. Prerequisites	10
3.1. Technical prerequisites	10
3.2. Software prerequisites	12
3.3. Licence prerequisites	14
3.4. Organizational prerequisites	15
4. Install the Watchdoc® Kernel and web site	17
4.1. Prerequisites checking	17
4.2. Unzipping archive	17
4.3. Launching the Watchdoc® installation	19
5. Install the Watchdoc® Kernel	26
5.1. Prerequisites checking	26
5.2. Unzipping archive	27
5.3. Launching the Watchdoc® installation	28
6. Install the Watchdoc® web site	33
6.1. Unzipping archive	33

6.2. Launching the Watchdoc® installation	35
7. Set the initial Watchdoc® configuration	41
7.1. Access the administration interface	41
8. Configuration	42
8.1. Configuring Watchdoc® Service section	42
8.2. Configuring the Organisation section	44
8.3. Configuring the Contact section	44
8.4. Configuring the Spool manager section	46
8.5. Configuring currency units	48
8.6. Configuring E-mail notifications	50
8.7. Configuring Windows Popup notifications	52
8.8. Configuring the Statistics Section	53
8.9. Quotas section	56
8.10. Declaring the user directory	57
8.11. Configuring default settings for all queues	60
9. Activate the licence key	63

Copyrights

© 2019. Doxense®. All rights reserved.

Watchdoc® and all product names or trademarks mentioned in this document are trademarks of their respective owners.

Reproduction in whole or part, by any means whatsoever is prohibited without prior authorisation. Any electronic copies, either by photocopy, photograph, film or any other means is an offense.

47, avenue de Flandre

Tel : +33(0)3.62.21.14.00

59290 Wasquehal - FRANCE

Fax : +33(0)3.62.21.14.01

contact@doxense.com

www.doxense.com

Update: 26 04 2019

1. INTRODUCTION

1.1. Purpose of the manual

This manual describes the procedure for installing the Watchdoc® V5.2 solution. This manual provides information on:

- installing the solution;
- configuring the solution;
- troubleshooting the solution in case of error.

1.2. Intended audience

This guide is intended for the technician tasked with installing the Watchdoc Solution®. This technician needs to control Administration of MS Windows Server® operating systems.

1.3. Symbols used

The terms followed by an figure are defined in the glossary.



Information : Reports important information required to fine tune the installation or configuration of the solution.



Tip: Reports any information that may be useful for a better understanding or knowledge of a notion or a function of the tool, or provides a specific case of use of this tool.

1.4. Contact Doxense®

Doxense's technical assistance service is reserved for certified, technical partners and can be contacted via [Connect](#), customer portal dedicated to partners.



For all other questions, please contact your Doxense® consultant or send us an email at contact@doxense.com

1.5. Versions

Date	Description
26/04/2019	correction of the 5.2 version update
28/01/2019	update for 5.2 version
18/06/2018	update for multiple directories warning
20/04/2017	update for 5.1 version
01/12/2017	MSWindows and MS SQL compatibility up-date
03/15/2016	graphic up-dated version
09/15/2015	first version

2. PRESENTATION OF WATCHDOC®

2.1. What is Watchdoc® ?

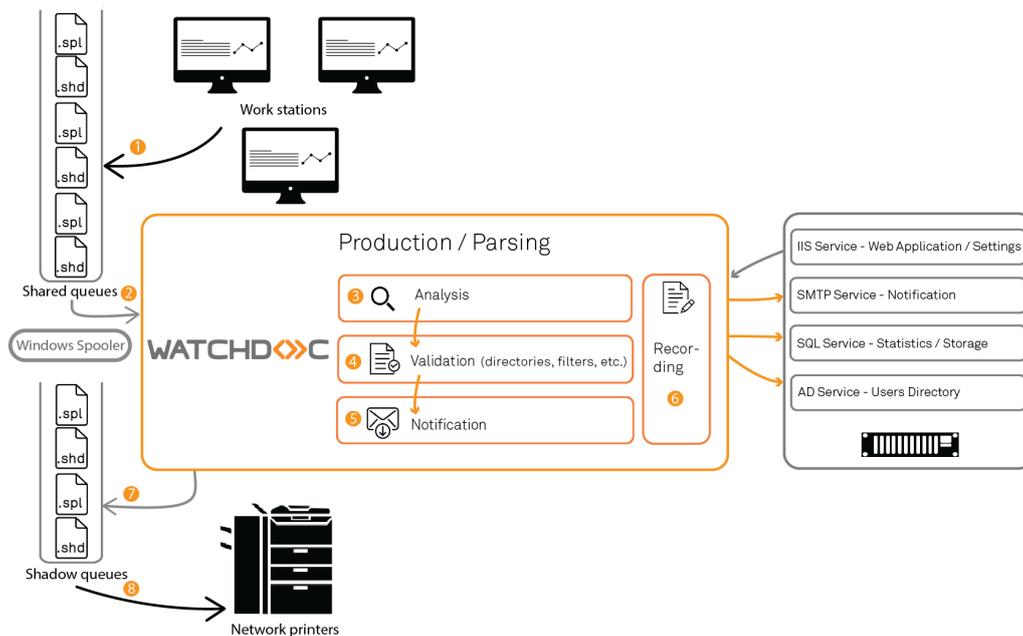
Watchdoc® is a solution for managing and optimising your printing needs, developed using the latest Microsoft® technologies so that you can apply an environmentally responsible printing policy.

Since version 5, Watchdoc® comes in three separate versions that meet specific requirements:

- Watchdoc Sentinel®: A solution for monitoring and ensuring the availability of printing resources;
- Watchdoc TakeAway®: A secure, on-demand print management solution;
- Watchdoc®: A solution that includes the features of the above two versions as well as many others like accounting and quota management. This version lets you use the following options:
 - WRS : Watchdoc for Reporting Services
 - WSC : Watchdoc Supervision Console
 - FIL : Local print queue¹
 - Paybox connector

¹The print queue belonging to a device that is not connected to the network. A Watchdoc agent installed locally on the device collects and returns the print data to Watchdoc.

2.2. Technical and functional architecture layout



1. Users send their jobs to the shared print queue on their usual print server. The only visible difference compared with printing that is not controlled by Watchdoc[®], is that the print queues on this server are "paused".
2. When the print job is submitted to the server by a workstation, the print spool is placed on hold in the server's print queue.
3. Watchdoc[®] analyses the print-job to extract essential data and scans the spool file to define its characteristics (black and white or colour, number of pages, etc.).
4. Watchdoc[®] compares the characteristics of the print-job and the user profile against the rules that have been set, to determine whether any specific actions need to be applied (blocking printing, notification email, etc.). By default, in accounting mode, the job is ready for immediate printing. In validation (Print-on-Demand) mode, the job is kept safe until the user releases it from the web interface or after they have identified themselves or badged onto the device.
5. If necessary, the user is informed by email that their job is waiting or that it has not been printed, if it does not meet the rules set out in the printing policy.
6. The printing activity is recorded in the statistical database.
7. Once the print-job is released, Watchdoc[®] moves it to the printer device's shadow print queue.
8. The print job is then printed by the device.

2.3. Key functions

- A real-time audit and detailed analysis of your single or multiple site printing activities (who prints what, on what device, when and at what cost).
- A 100% web interface that is accessible from every workstation.
- Redirecting printing to the most suitable device.
- Automatically releasing your print job to the printing location of your choice thanks to your badge or PIN¹ code: offering Watchdoc® on all the multi function device screens.
- Managing centrally the device installed base, even when the printing locations are geographically distant.
- Easily deploying a printing policy by setting rules (analysing demand, rerouting and deleting) and measuring the efficiency of this policy.
- Monitoring the overall spending on printing and copies with detailed data on the cost of paper and the energy cost of the devices.
- Saving the printouts and related statistics when data is no longer accessible (directories or databases).
- Managing quotas and invoicing on costs.
- Analytical feedback on printing performed on your local printers (parallel, USB, direct IP) and accurate counting of the printing performed on network devices.
- Managing guest accounts.
- Easy access to multi-function systems for all users not in the directory (outside contractors or guests), thanks to the database management that is independent of the Active Directory (AD), so that these users can now access all of the functions.

¹PIN (Personal Identification Number) is a code comprising of at least four digits. It is used, for example, on a mobile or smartphone with a SIM card. The term PIN is not exclusively used by mobile phones as a PIN is also used for banking and may refer to any Personal Identification Number comprising of four or more digits.

2.4. Benefits

- Reducing "printing" related costs.
- Protecting the environment by reducing the number of printouts.
- Improving the quality of service for users.
- Rationalising the installed base of devices.
- Optimising how consumables are managed.



3. PREREQUISITES

Before starting the installation and configuration process, check the following requirements.

3.1. Technical prerequisites

3.1.1. System prerequisites

Watchdoc® V5.2 analyses the print spool¹ files sent to the server to build and store print activity statistics, and to apply the rules defined in the Print policy.

Watchdoc® installation package has to be installed on a Windows Server and needs the 2 others servers which have following roles :

- web server (IIS),
- database server.



MS Windows® print server must be part of an Active Directory domain.

It is essential to check that the print server is correctly running before Watchdoc® installation.

The following operating systems are supported:

- MS Windows Server® 2008 R2 SP1 (64 bits) up to MS Windows Server® 2016;



All latest MS Window® updates must be installed before launching the package installation.

¹If any filter blocks the print out and the user is already known in the directory. Watchdoc® moves the analysed spools to the shadow file which then sends them to the device for printing which then sends them to the device for printing.

3.1.2. Controlled print devices

Watchdoc is able to control all network printing queues handled by the print server. Depending on the licence key details, the number of controlled queues may vary. The following print description languages can be analysed:

- PJP
- PCL : 5e et 6 (PCL-XL)
- HPGL2
- PostScript DSC (Document Structuring Conventions)
- ESC/P2
- EMF¹.



Documents preview and page selection features are only available with PCL6 and EMF languages.

Cutting features are only available with PCL6 language.

Redirecting printing jobs between printers is only possible

- when printers use the same print language ;
- with fully compatible spool files.

Some manufacturers add specific data in their spool files that may not be analysed by Watchdoc[®].



Windows Server 2012 introduces a new Print Driver architecture (Class 4 Drivers) which is not supported yet by Watchdoc.

¹Enhanced Metafile (or EMF) is a digital image format for Microsoft Windows systems and some printer drivers. It is an improvement of the WMF (Windows Metafile) image file with data encoded in 32 bits for improved quality.

3.1.3. Ports usages

Watchdoc® V5.2 uses the following ports:

- 5743,
- 5744
- 5753/5754 (TCP and UDP).



During installation, an exception for processes **Watchdoc.exe** and **WatchdocTelemetryServer.exe** is automatically added to Windows firewall rules.

3.2. Software prerequisites

3.2.1. IIS Web Server Role

User and administrator's interfaces are based on a Microsoft ASP application hosted by the IIS server. This service can be hosted by the same server or remotely. ASP extensions have to be activated.

This role is automatically installed and configured during Watchdoc® installation.

3.2.2. Antimalware, antivirus

The server antivirus or antimalware tools (like Windows Defender¹, Bit Defender®, Kaspersky®, Mac Afee®, for example), must exclude the spools directory and the Watchdoc® installation directory. If not, slowness occurs, generated by the security tool analysis.

3.2.3. Microsoft .NET Framework

Watchdoc® V5.2 uses Microsoft® .NETV4.6.2 technology. This Framework, available for free from the Microsoft® web site, is automatically installed if not present.



It is necessary to reboot the server after installing .Net framework.

¹Windows Defender Application Guard (Application Guard) is designed to help prevent old and newly emerging attacks to help keep employees productive. Using our unique hardware isolation approach, our goal is to destroy the playbook that attackers use by rendering current attack methods obsolete.

3.2.4. Database Server

Watchdoc[®] print activity statistics are stored in a relational database management system.

The Watchdoc[®] Express Installation package will install automatically a new instance of SQL Server Express Edition (Version 2012). But for a standard Watchdoc[®] installation, SQL Server Express Edition must be prior installed on the server.



Watchdoc[®] is compatible with the version MS SQL Server 2008[®] up to the version MS SQL Server 2016[®].



Watchdoc Reporting Services (WRS) is compatible with the version MS SQL Server 2008 R2[®] up to the version MS SQL Server 2014[®].

During installation, the MS Windows[®] account used for installation will be automatically added as an administrator account for the database.

No database administration tool is provided, but you can install SQL Server Management Studio:

For SQL Server 2012

<https://www.microsoft.com/en-us/download/details.aspx?id=29062>

Package to download:ENU\x64\SQLManagementStudio_x64_ENU.exe.

This tool requires .NET 3.x to be installed as a prerequisite.



When the database server SQL is remote (classical or remote modes), please check that the TCP/IP is activated in **SQL Server Configuration Manager**.



Also check that the **SQL Browser** service is started so that Watchdoc[®] may display the available servers and instances list.

3.2.5. Prerequisites check

The installation program (**Bootstrapper**) checks the prerequisites depending on the operating system. If not presents, the following software are installed:

- Visual C++ 2013 ;
- Internet Information Services / Serveur web role (IIS) ;
- Microsoft .NET Framework V4.6.2 (<https://www.microsoft.com/en-US/download/details.aspx?id=53344>)

The files needed for the automatic installation of prerequisite components are included in the installation package, and can be found in the **Redist** directory.

3.2.6. LDAP¹ Directory

Users' information is retrieved from the corporate Active Directory (LDAP).

Availability of the LDAP directory from the print server via the TCP 389 port (for LDAP protocol) or via TCP 636 port (for the SSL² protocol).has to be validated.

Supported directories are the following:

- Active Directory / ADAM
- Open LDAP³: schema validation needed.



Watchdoc can handle multiple users directories, provided that there are no homonyms between them.

3.3. Licence prerequisites

A licence key generated by Doxense.is required to activate Watchdoc[®]. To obtain this licence key, the following information has to be sent by email to Doxense support:

- Company Name

¹Lightweight Directory Access Protocol. This protocol is based on TCP/IP and was initially designed to allow querying and modifying directory services. It currently constitutes a standard for directory systems including various models: for data, naming, security and for replicating a functional model.

²Secure Sockets Layer. A protocol for securing exchanges over the Internet that became Transport Layer Security (TLS) in 2001.

³OpenLDAP is a free implementation of LDAP protocol maintained by the OpenLDAP project and distributed under the terms of the OpenLDAP Public Licence. Operating on a client/server mode, it comprises information of any kind, stored hierarchically.

- Watchdoc® version
 - Server name
 - **MAC**¹ address of the print server
 - Number of NPQs (Network Print Queues)
 - Number of LPQs (workstations with Local Print Queues to monitor)
 - Number and type of **WES**² (Watchdoc Embedded Solution) for copiers & MFP's or external solutions (WXS)
 - WRS option (Set of reports for SQL Server Reporting Services)
 - Paybox (Web payment interface) option
- ➔ Based on this information, Doxense® will give a licence key (file with a *.**wlk** extension)



The licence key is available for only a server. You will have to give this information for each server to configure.

3.4. Organizational prerequisites

3.4.1. Information

Before installing and configuring, check the following prerequisites:

- you have a licence key (file **.wlk**);
- you have the latest Watchdoc® installation pack version (downloaded from [Connect](#), l'extranet client dédié aux partenaires);
- you have the information about SQL database (SQL profile) if it exists yet ;
- you have the information about SMTP server if you want to enable email notifications.

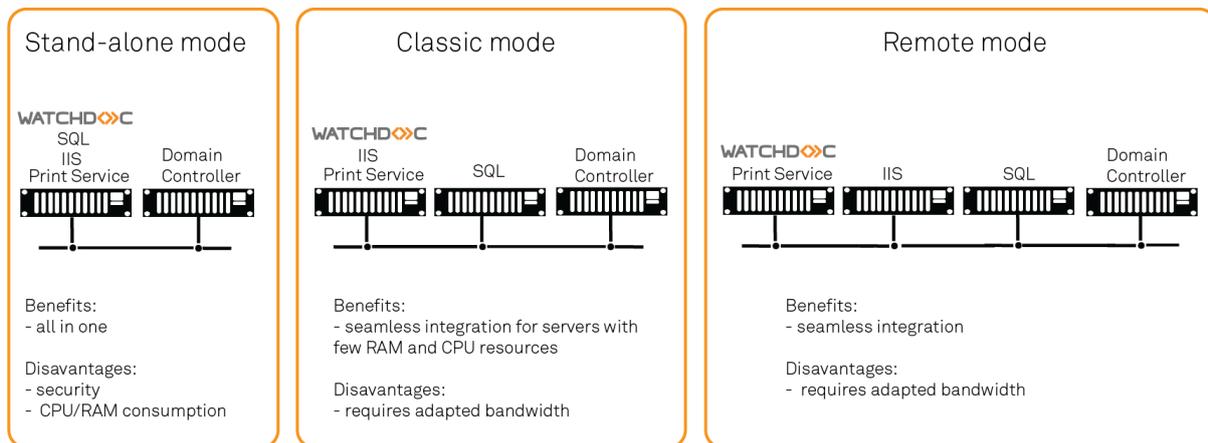
¹A Media Access Control (MAC) address, sometimes called a physical address, is a physical identifier stored in a network adapter or similar network interface. Unless it has been modified by the user, it is unique in the world.

²(Watchdoc Embedded Solution) WES is the name given to the Watchdoc® interface within the printing devices. There are interfaces that are specific to each third party device and hence as many WES versions as there are device manufacturers. These interfaces serve to manage printing from the device itself.

3.4.2. Installation modes

Watchdoc can be installed in three different installation modes:

- stand-alone mode;
- classic mode;
- remote mode.

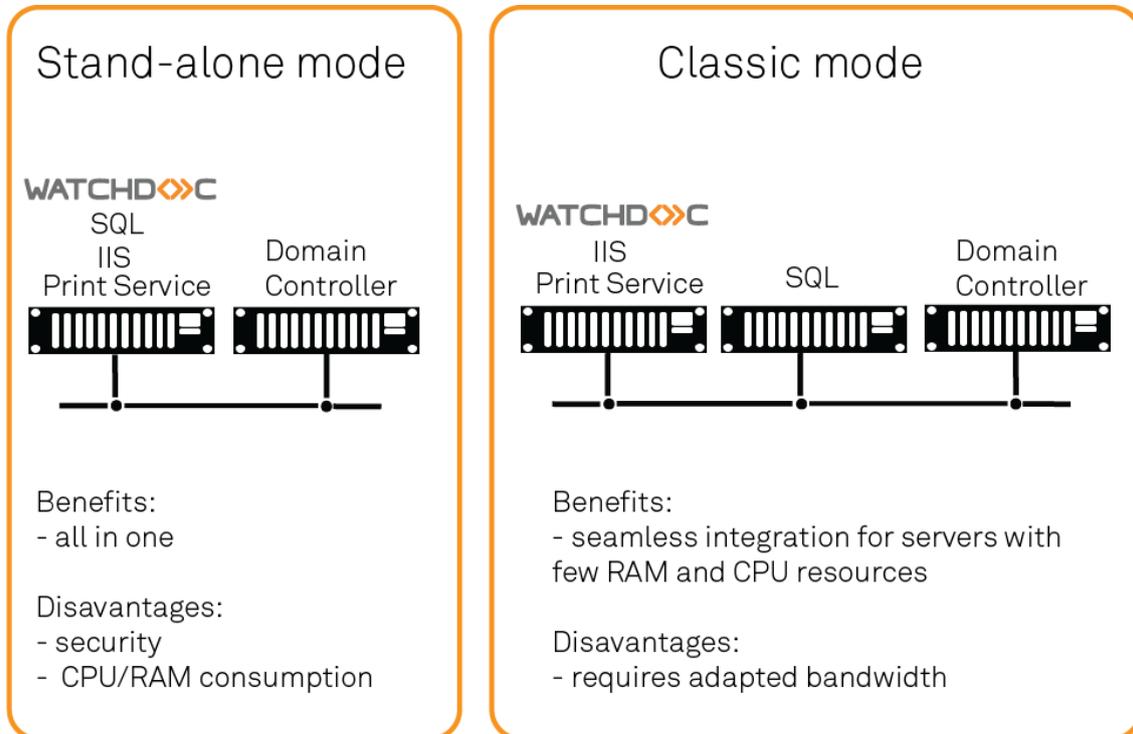


In **stand-alone mode** and in **classic mode**, the Watchdoc[®] core and the web site are installed onto the same server (cf. How to install Watchdoc in stand-alone or classic modes).

In **remote mode**, the Watchdoc[®] core and the web site are installed into two separate servers (cf. How to install the Watchdoc[®] core and How to install the Watchdoc[®] web site).

4. INSTALL THE WATCHDOC[®] KERNEL AND WEB SITE

In a **Stand-alone** or in a **Classical** mode, the Watchdoc[®] kernel and web site (IIS) features are hosted on the same server.



The Watchdoc[®] installation includes the following steps:

- checking the prerequisites;
- unzipping the downloaded setup archive;
- installing Watchdoc[®] (including the kernel and web site (IIS) components).

4.1. Prerequisites checking

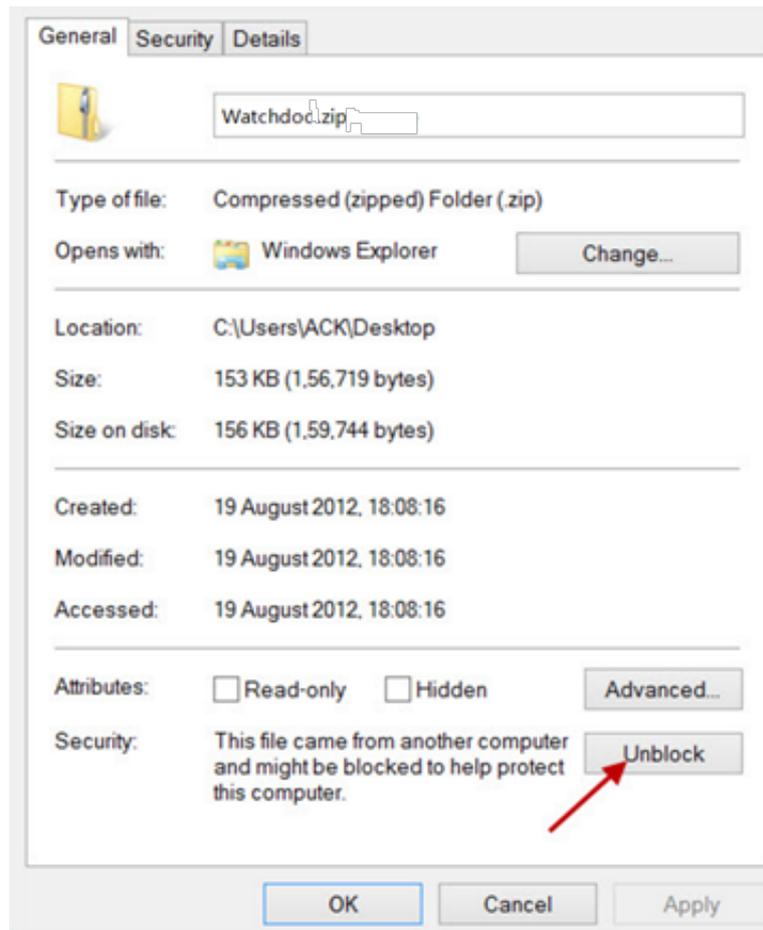
Before installing Watchdoc[®], you must firstly check the following prerequisites:

- the web server role is installed;
- the services server and the print server role are installed;
- Microsoft[®] .NET Framework V4.6.2 is installed;;
- the database system is installed.

4.2. Unzipping archive

The setup tool is stored in an archive file named **Watchdoc[...].zip**, which must be unzipped in a folder of the server:

1. in the server file tree, create a folder in the location where you want to save the Watchdoc® application;
2. Check that the .zip archive is not locked:
 - a. right-click on the file in the archive > **Properties**;
 - b. tick **Unlock** if the archive file is locked;
 - c. click on **OK** to confirm unblocking:

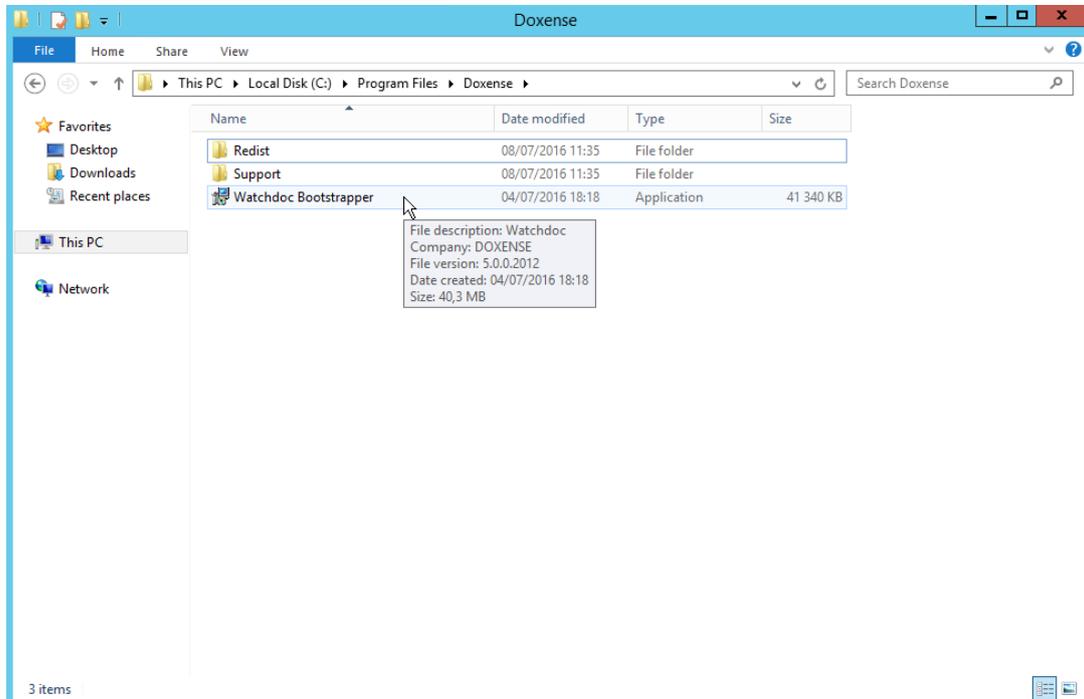


3. Unzip the **Watchdoc.zip** archive.

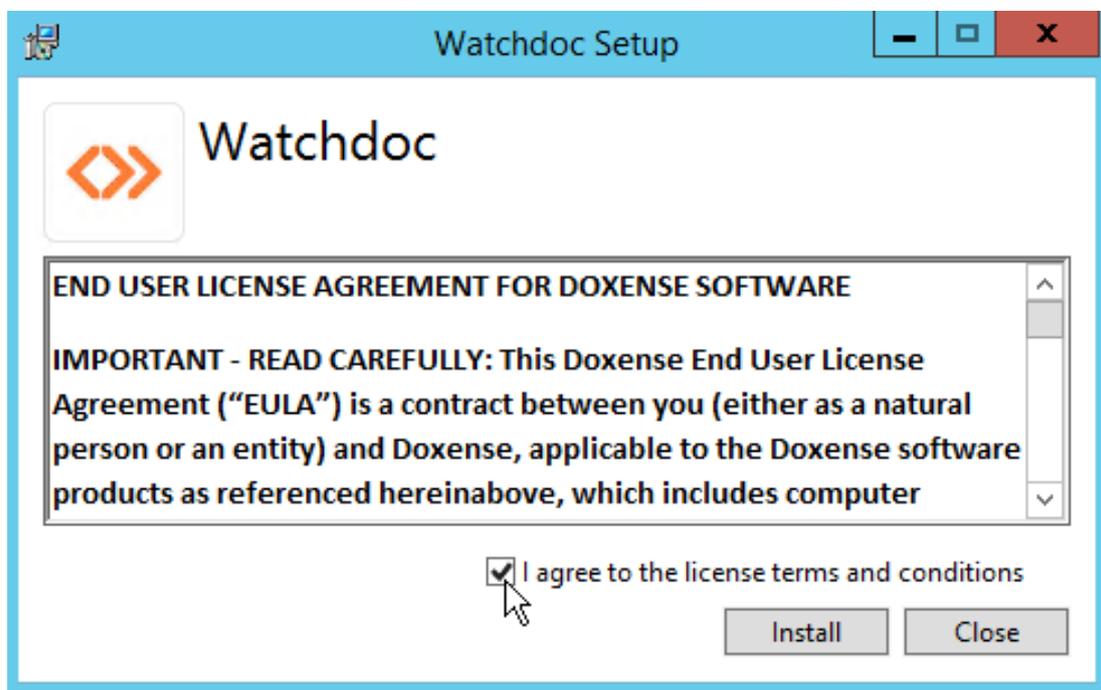
4.3. Launching the Watchdoc® installation

In the Watchdoc® Setup archive file,

1. click on the **Watchdoc Bootstrapper.exe** file:



2. accept the license agreement and click on **Install** :

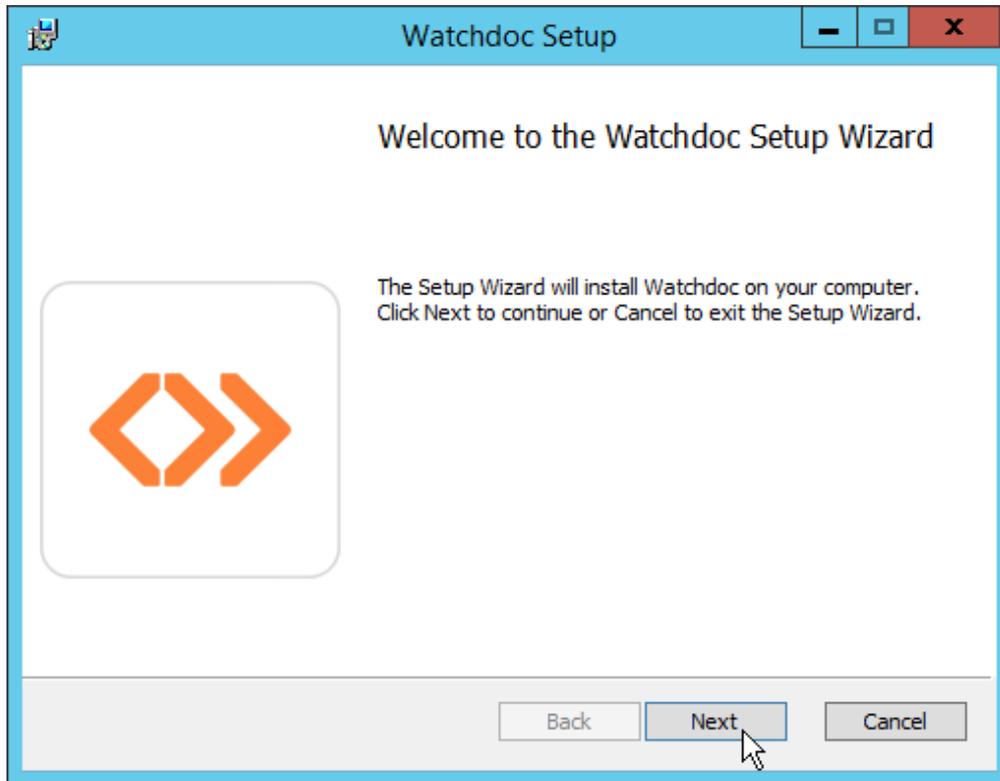


➔ the installation steps are displayed in the **Setup Progress** box;

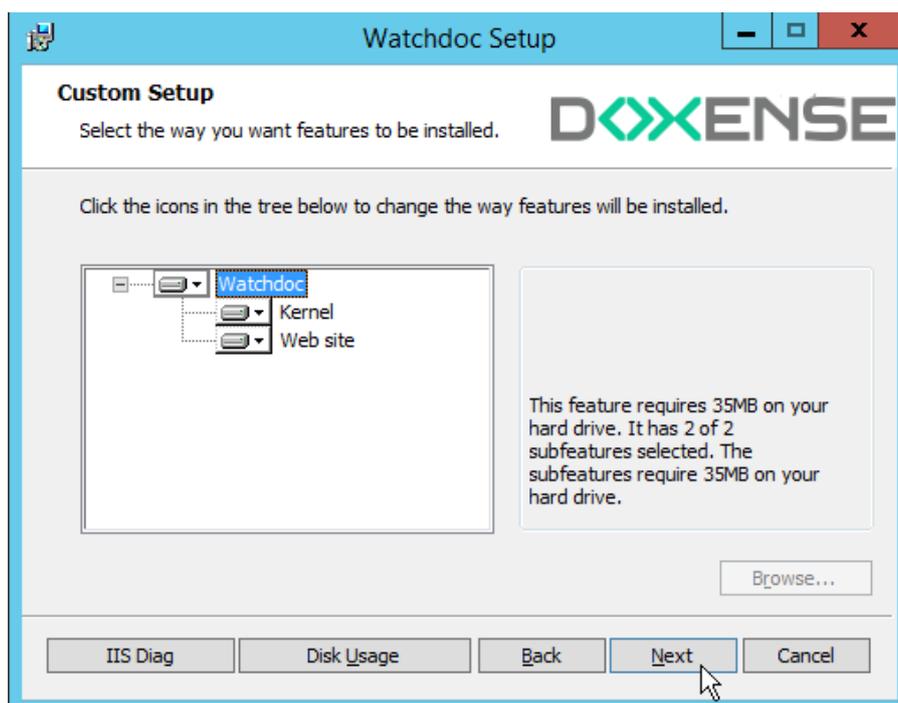
3. Click on **Restart** to restart the server.

➔ After restarting, the Watchdoc installation wizard is displayed.

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



In a stand-alone or a classic mode, the Watchdoc® **kernel** and **IIS (Web site)** features which must be installed on the same server, appear in the component list and are selected by default:





If the **WebSite** component is missing in the list, it's because the **IIS Web server role** has been incorrectly set. In this case, click the **IIS Diag** button to display the list of installed ISS components.

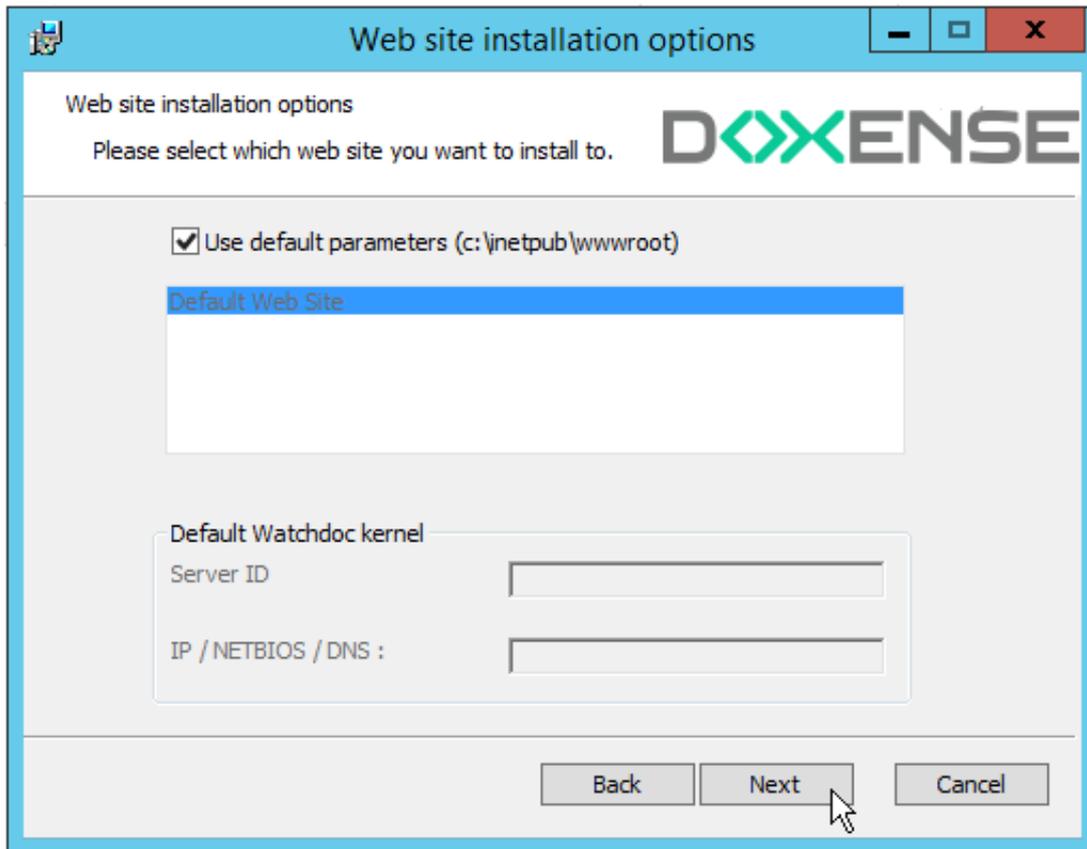
If a component is displayed in grey, it is missing. You should correct the problem before restarting the installation of the Watchdoc website.



4.3.1. Checking the web site (IIS) default configuration

1. In the features list, select **Web site**.

➔ The **Web site installation options** interface is displayed :



The **Use default parameters** check box allows you to use the default website (called **Default web site** and the **c:\inetpub\wwwroot** folder to store the files. You can uncheck the box and specify another web site you want to use .

2. click on **Next** to continue the installation.

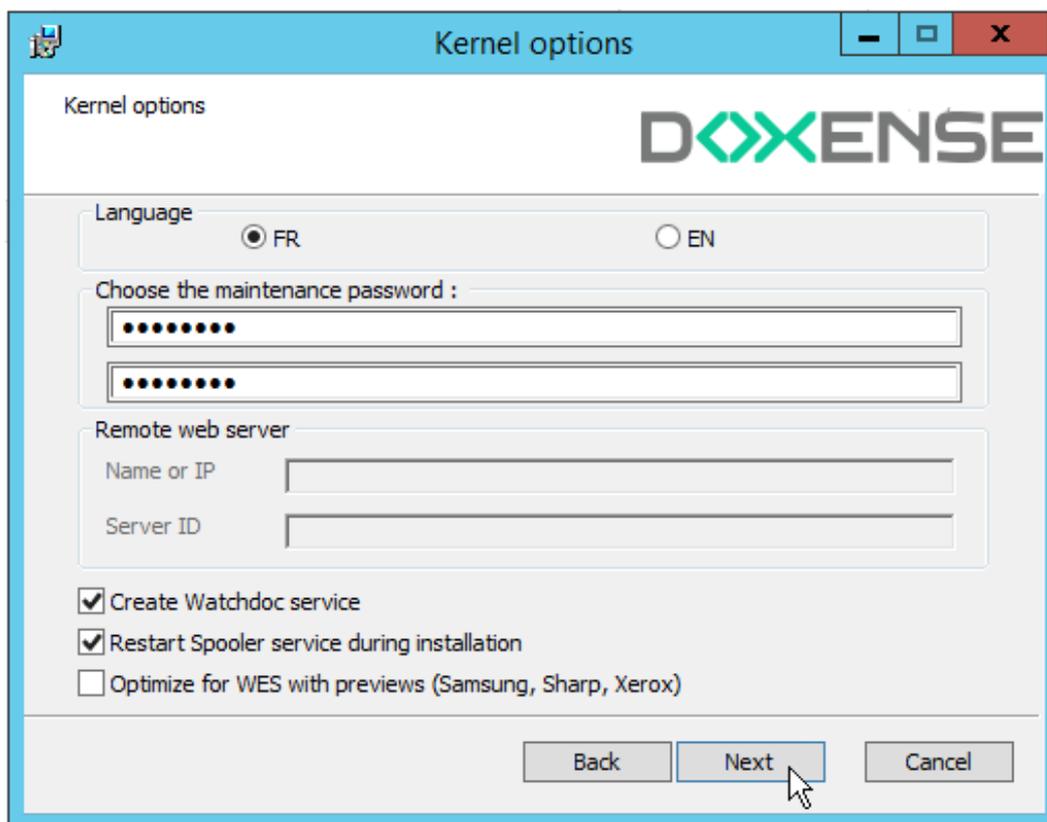
4.3.2. Configuring the Watchdoc kernel

In the **Kernel¹ Options** window that appears:

1. in the **Language** section , select the interfaces default language;
2. in the **Password** section, modify, if necessary, the administration password wich is **changeme** by default;

¹In our documentation, the term Kernel refers to the Watchdoc service tasked with managing non-website printing.

3. tick the box **Create Watchdoc Service** to install Watchdoc[®] with the default options. If it's a cluster installation, untick the box;
4. tick the box **Restart Spooler service during installation** to allow an automatic restart of the spooler service during installation. Untick the box if your want to restart the spooler service manually;
5. tick the box **Optimise for WES¹ with previews** if Watchdoc[®] is used with Samsung[®], Sharp[®] or Xerox[®] WES (Watchdoc[®] Embedded Solutions). When this box is ticked, Watchdoc[®] generates 20 thumbnails, displayed as soon as jobs arrive on the print server. In case the box is not checked, the thumbnails are generated at the request of the WES, which requires an additional delay at the time of the display.

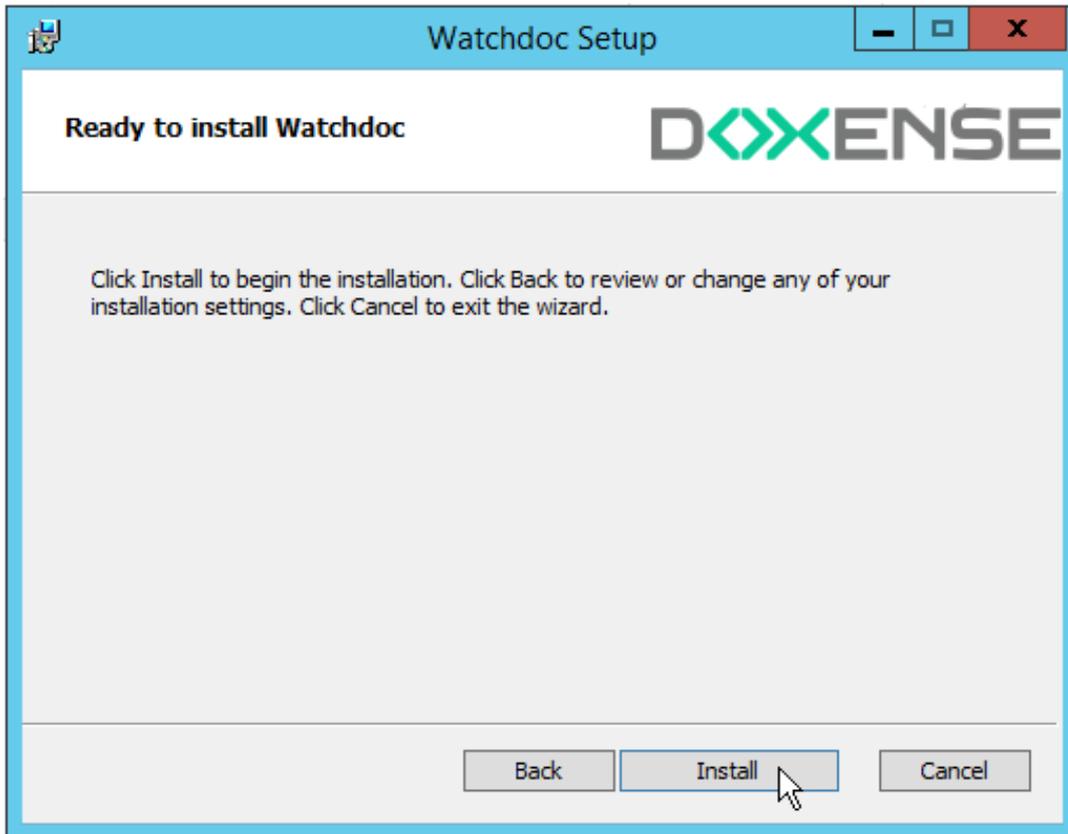


6. Click on **Next** to continue installation.

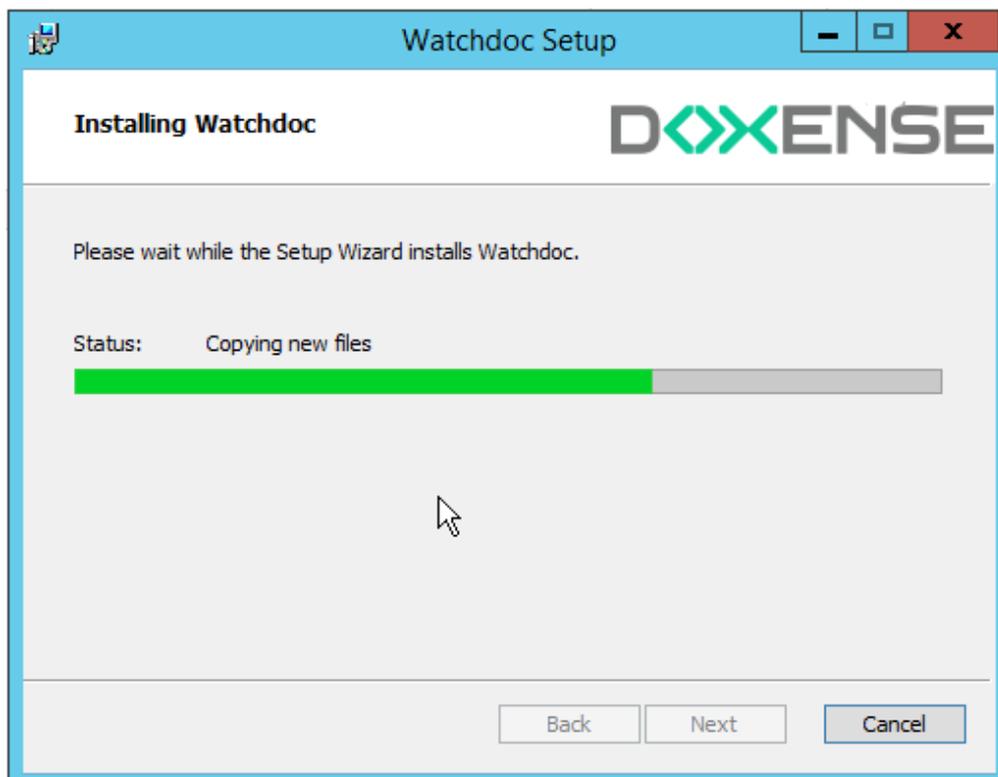
¹(Watchdoc Embedded Solution) WES is the name given to the Watchdoc[®] interface within the printing devices. There are interfaces that are specific to each third party device and hence as many WES versions as there are device manufacturers. These interfaces serve to manage printing from the device itself.

4.3.3. Finalize the Watchdoc® automatic installation

1. In the **Ready to install Watchdoc** window, click on **Install**:

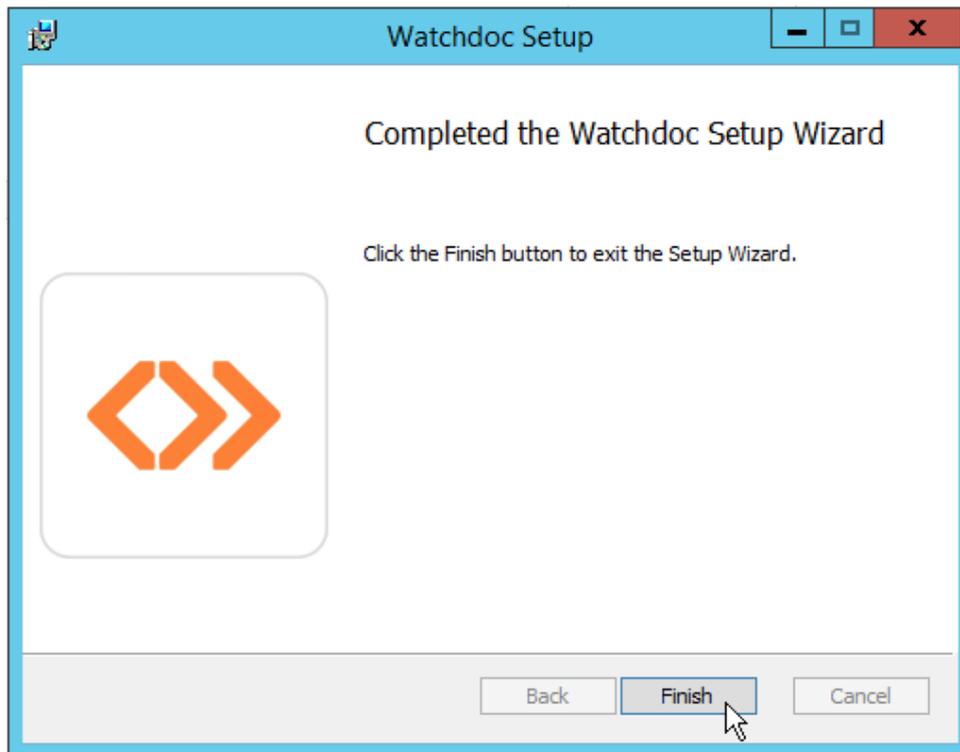


- The installation progress is displayed on the **Installing Watchdoc** window:



➔ The wizard displays a message at the end of the installation.

2. Click on **Finish** to exit the installation wizard.

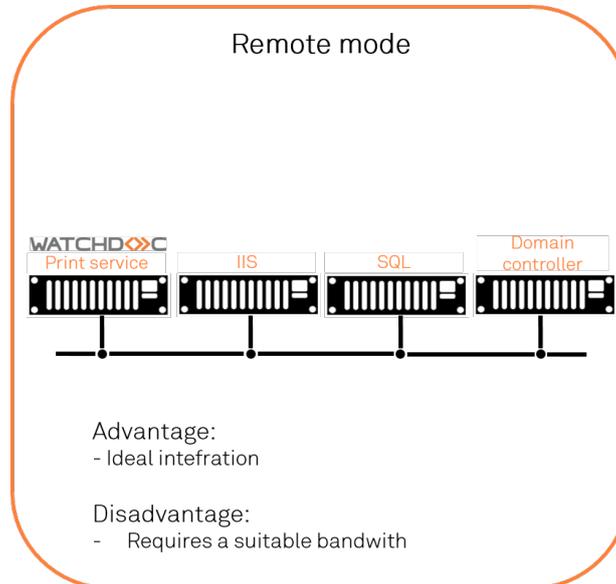


➔ The wizard displays a message informing you of the successful installation.

➔ Installation is complete. You can proceed to the initial setup of Watchdoc® (see Set Watchdoc initial configuration).

5. INSTALL THE WATCHDOC® KERNEL

In a **Remote** mode, the Watchdoc® components kernel and web site (IIS) are hosted on different servers.



This chapter will inform you how to install the Watchdoc kernel on the print server

The Watchdoc® installation includes the following steps:

- checking the prerequisites;
- unzipping the downloaded setup archive;
- installing Watchdoc® (including the kernel and web site (IIS) components).

You will need to complete the operation by installing the Watchdoc® Website (see Installing the Watchdoc® Web Site)

5.1. Prerequisites checking

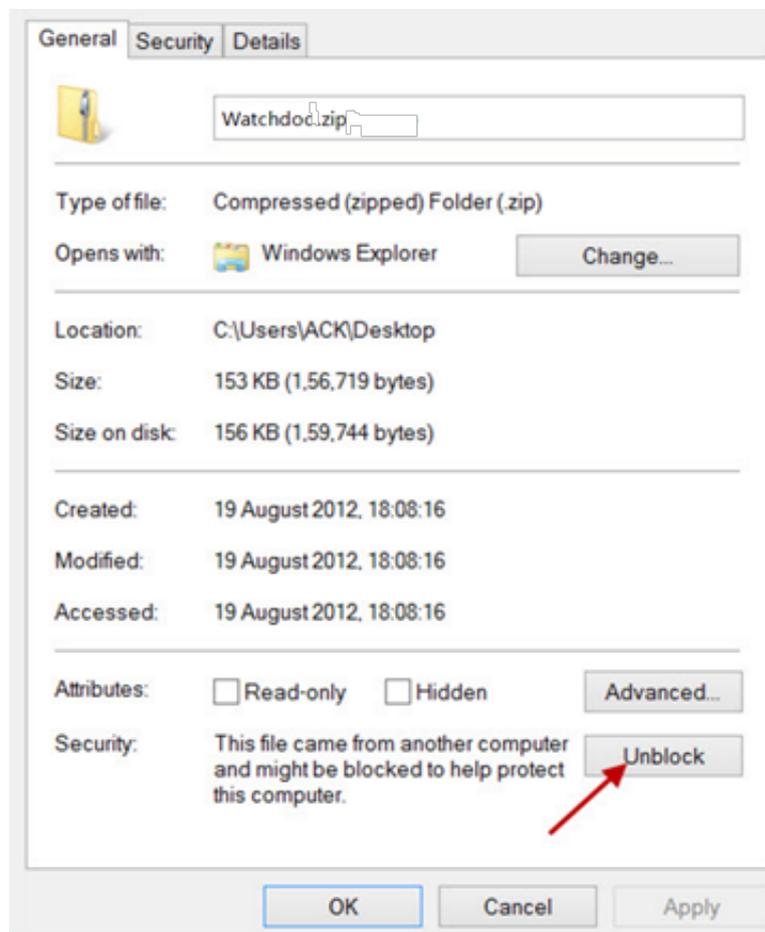
Before installing Watchdoc®, you must firstly check the following prerequisites:

- the web server role is installed;
- the services server and the print server role are installed;
- Microsoft® .NET Framework V4.6.2 is installed;
- the database system is installed.

5.2. Unzipping archive

The setup tool is stored in an archive file named **Watchdoc[...].zip**, which must be unzipped in a folder of the server:

1. in the server file tree, create a folder in the location where you want to save the Watchdoc® application;
2. Check that the .zip archive is not locked:
 - a. right-click on the file in the archive > **Properties**;
 - b. tick **Unlock** if the archive file is locked;
 - c. click on **OK** to confirm unblocking:

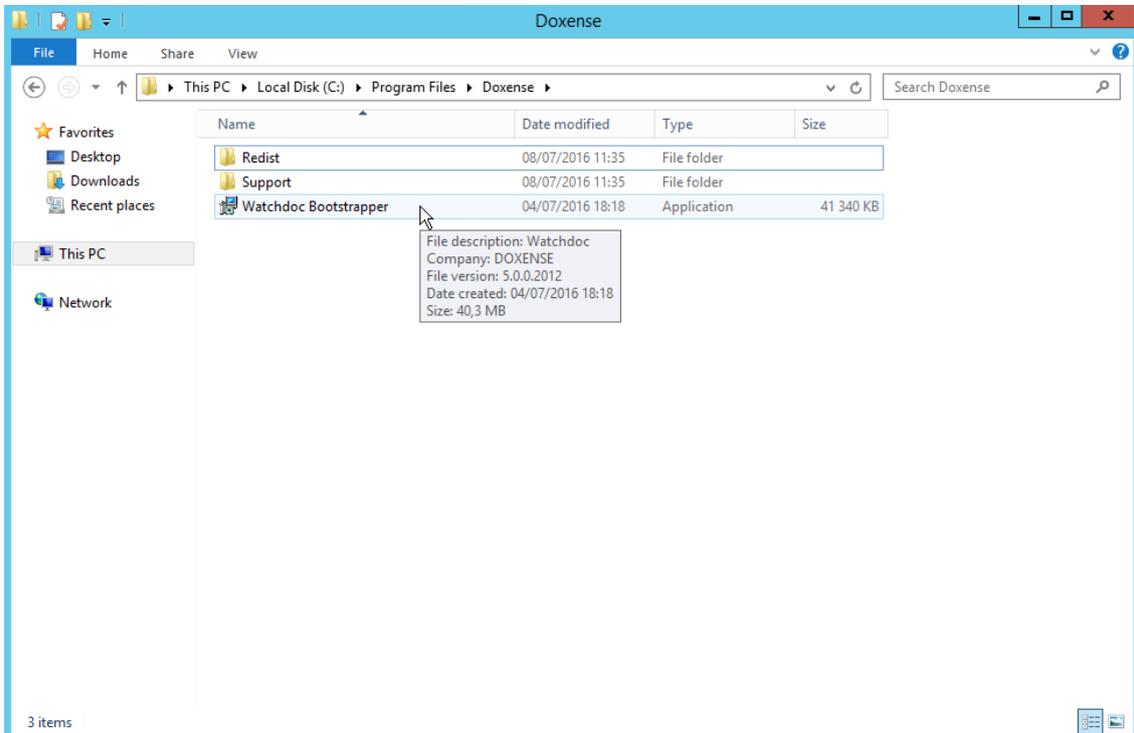


3. Unzip the **Watchdoc.zip** archive.

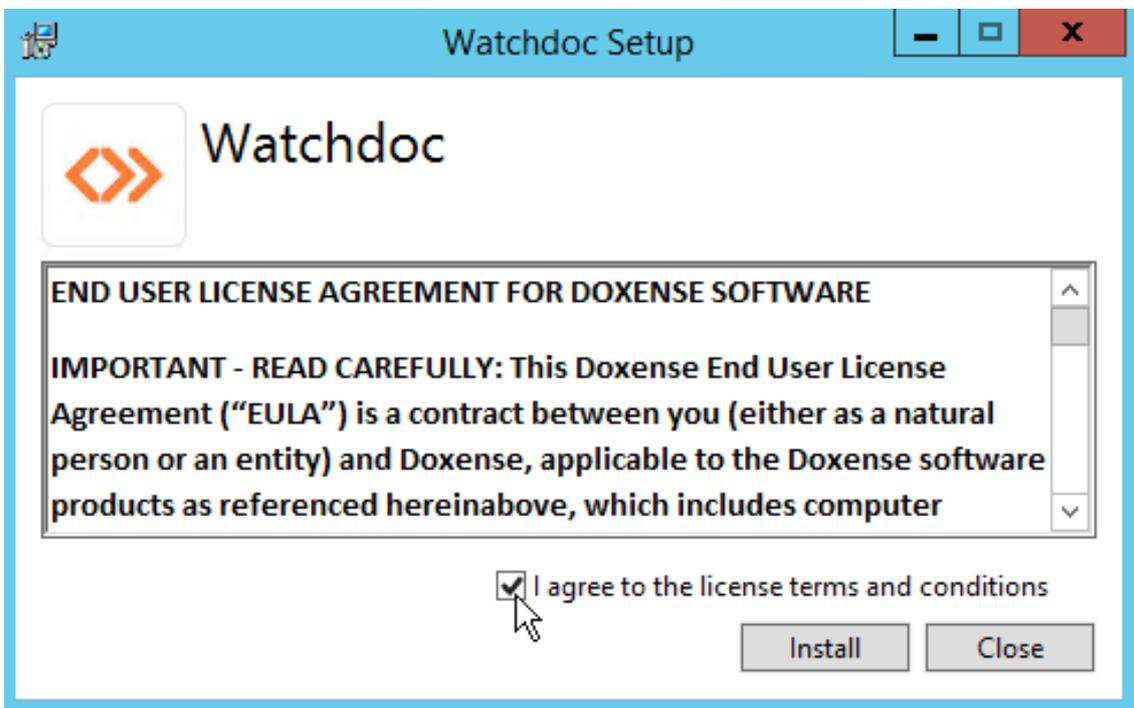
5.3. Launching the Watchdoc® installation

In the Watchdoc® Setup archive file,

1. click on the **Watchdoc Bootstrapper.exe** file:



2. accept the license agreement and click on **Install** :

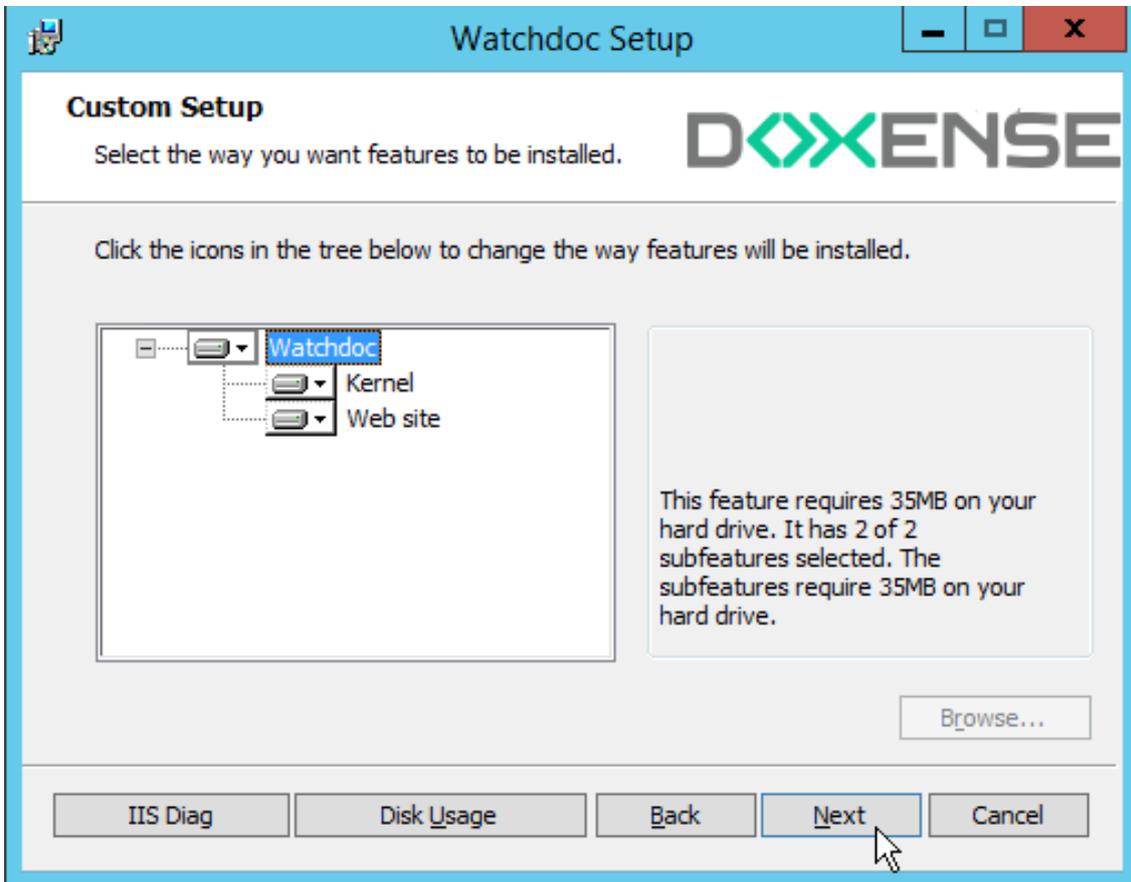


➔ the installation steps are displayed in the **Setup Progress** box;

3. Click on **Restart** to restart the server.

➔ After restarting, the Watchdoc installation wizard is displayed.

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



5.3.1. Configuring the Watchdoc kernel

1. You can change the default installation directory for the Watchdoc[®] kernel. To change it:
 - a. select **Kernel¹**;
 - b. click on **Browse** and select a new installation path. The **Disk Usage** button is used to check that there is enough space on the drive you have chosen to install Watchdoc[®].

➔ In the **Kernel options** windows that appears:

2. in the **Language** section , select the interfaces default language;
3. in the **Password** section, modify, if necessary, the administration password wich is **changeme** by default;
4. In the **Remote web server** section:
 - a. specify the **IP address** or **computer name** of the server that hosts the IIS web service;
 - b. in the **Server ID** field, specify the name of the server on which the kernel is installed

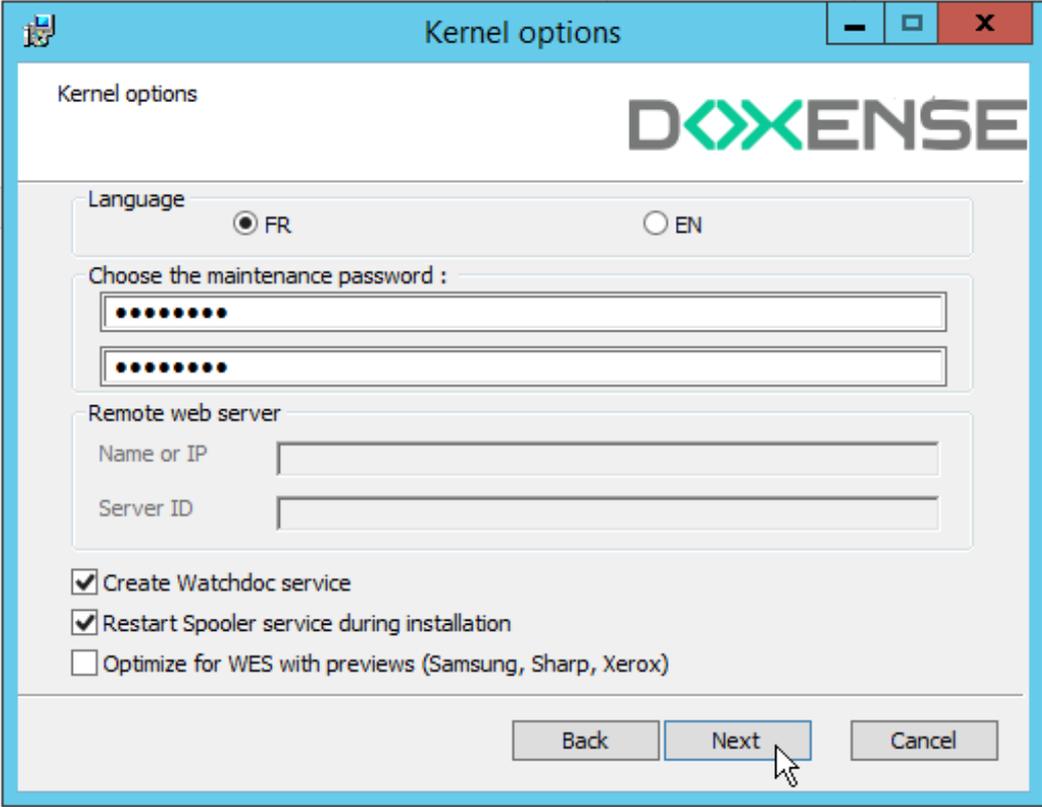


As a **Server ID**, it is recommended to use the hostname in order to facilitate the web access to the kernel server.

5. Tick the box **Create Watchdoc Service** to install Watchdoc[®] with the default options. If it's a cluster installation, untick the box;
6. tick the box **Restart Spooler service during installation** to allow an automatic restart of the spooler service during installation. Untick the box if your want to restart the spooler service manually;

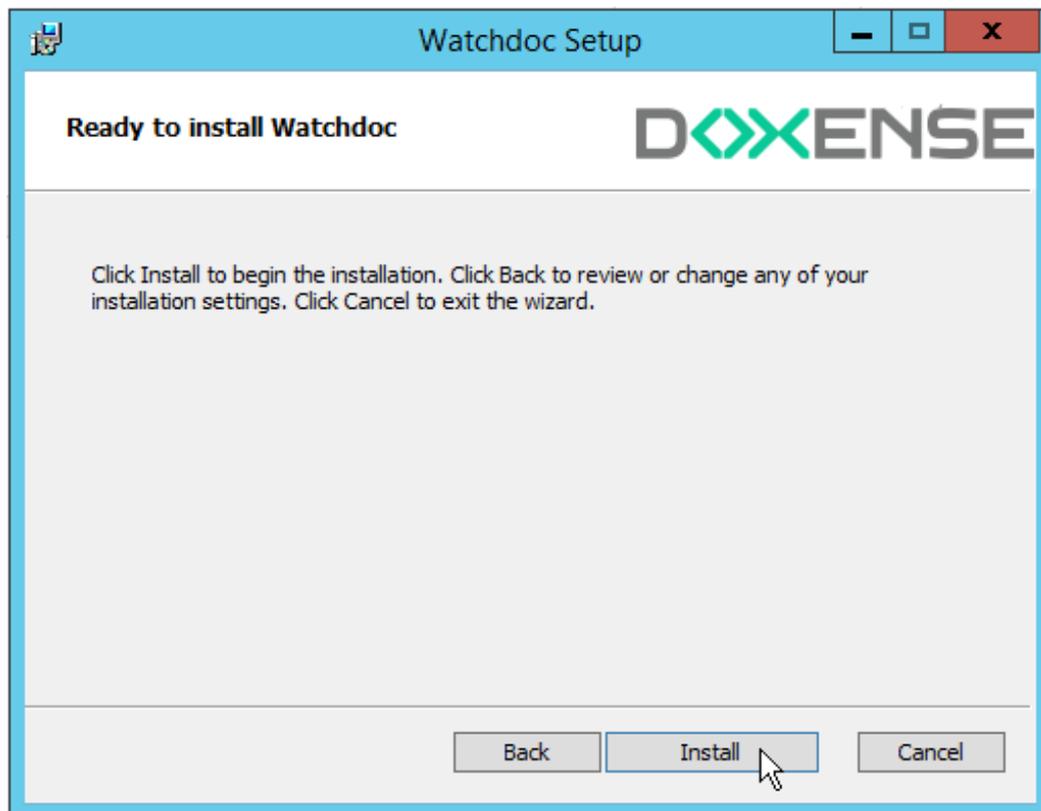
¹In our documentation, the term Kernel refers to the Watchdoc service tasked with managing non-website printing.

7. tick the box **Optimise for WES¹ with previews** if Watchdoc[®] is used with Samsung[®] , Sharp[®] or Xerox[®] WES (Watchdoc[®] Embedded Solutions). When this box is ticked, Watchdoc[®] generates 20 thumbnails, displayed as soon as jobs arrive on the print server. In case the box is not checked, the thumbnails are generated at the request of the WES, which requires an additional delay at the time of the display.
8. Click on **Next** to continue installation.



9. In the window **Ready to install Watchdoc**, click on **Install**.

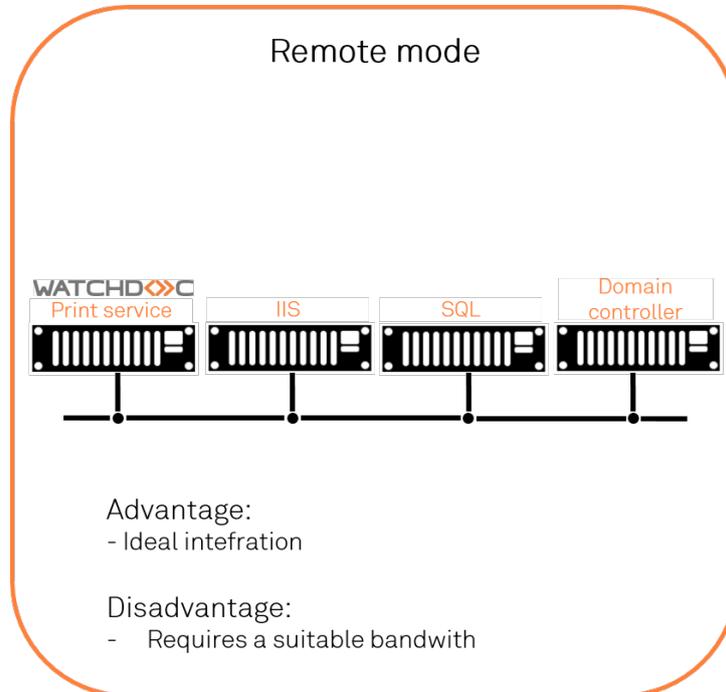
¹(Watchdoc Embedded Solution) WES is the name given to the Watchdoc[®] interface within the printing devices. There are interfaces that are specific to each third party device and hence as many WES versions as there are device manufacturers. These interfaces serve to manage printing from the device itself.



- ➔ The installation progress is displayed in the **Installing Watchdoc** window.
 - ➔ A message informs you of the end of the installation.
10. Click on **Finish** to exit the wizard.
- ➔ The wizard displays a message informing you of the successful installation.
 - If the **Watchdoc® web site** is not yet installed, install it on the dedicated website (see *Install the Watchdoc® web site* chapter).
 - If the **Watchdoc® web site** is already installed, the installation is finished. You can proceed to the initial configuration of Watchdoc®.

6. INSTALL THE WATCHDOC® WEB SITE

In a **remote** mode, the Watchdoc® components kernel and web site (IIS) are hosted on different servers.



This chapter will inform you how to install the Watchdoc web site on the dedicated server.

The Watchdoc® installation includes the following steps:

- checking the prerequisites;
- unzipping the downloaded setup archive;
- installing Watchdoc® (including the kernel and web site (IIS) components).

You will need to complete the operation by installing the Watchdoc® kernel (see *Install the Watchdoc® kernel* chapter)

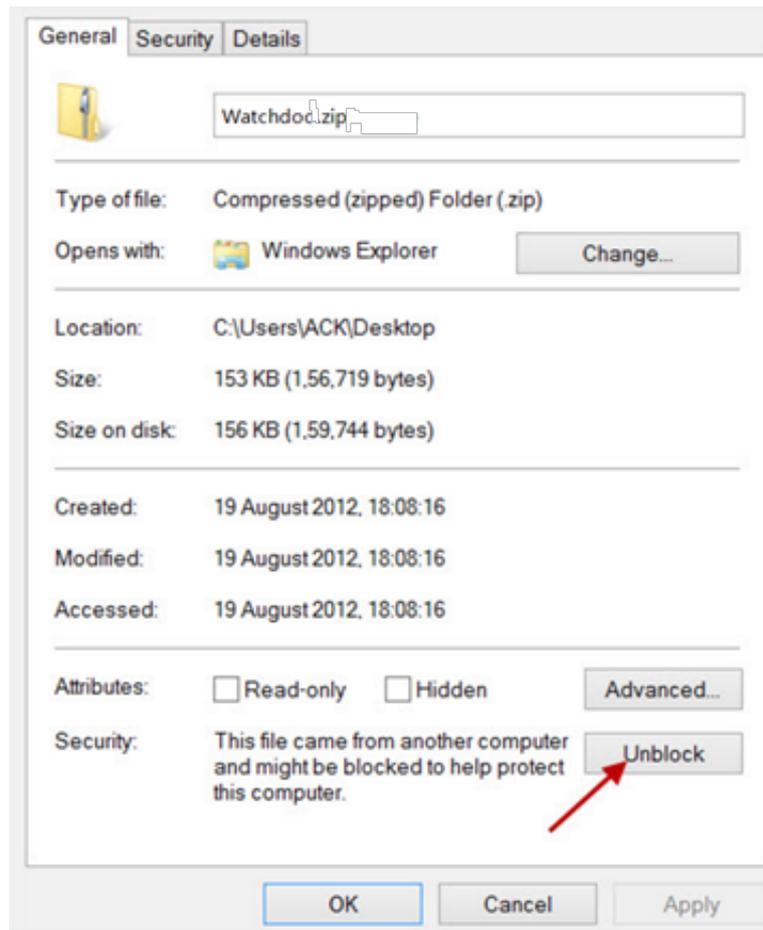


When you install the web site while the Watchdoc® kernel is not yet installed, it is normal that you receive error messages if you attempt to check the operation of the tool. Test the tool once the Watchdoc® kernel is installed

6.1. Unzipping archive

The setup tool is stored in an archive file named **Watchdoc[...].zip**, which must be unzipped in a folder of the server:

1. in the server file tree, create a folder in the location where you want to save the Watchdoc® application;
2. Check that the .zip archive is not locked:
 - a. right-click on the file in the archive > **Properties**;
 - b. tick **Unlock** if the archive file is locked;
 - c. click on **OK** to confirm unblocking:

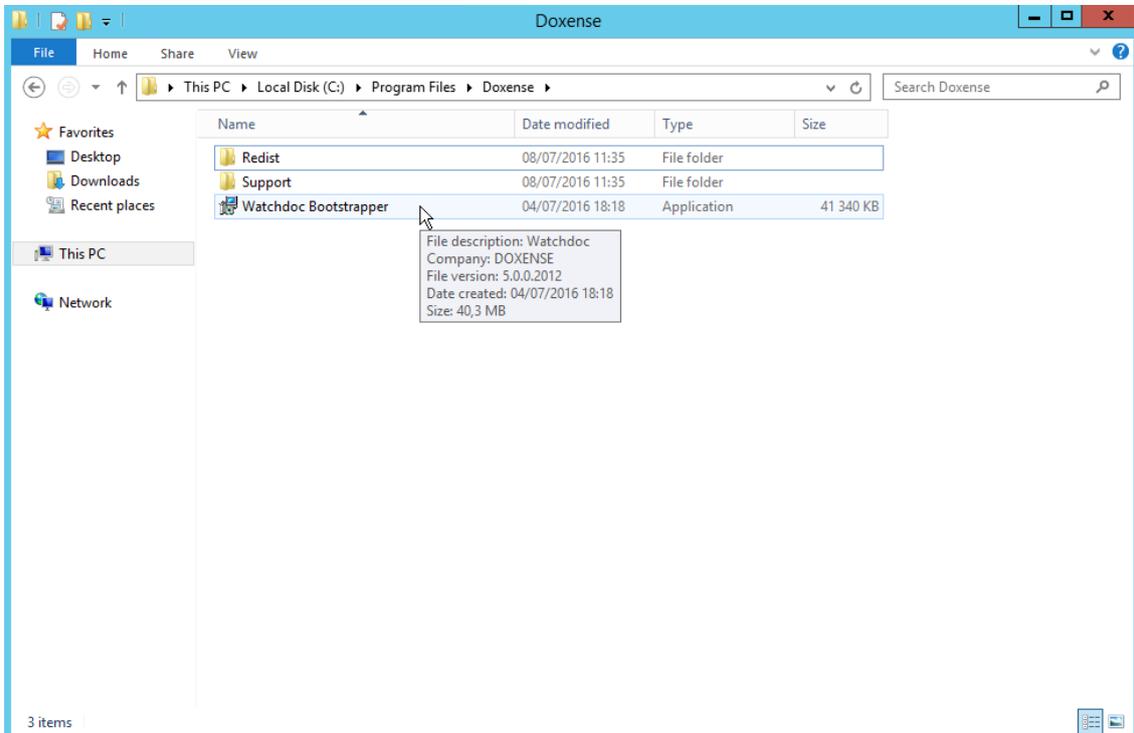


3. Unzip the **Watchdoc.zip** archive.

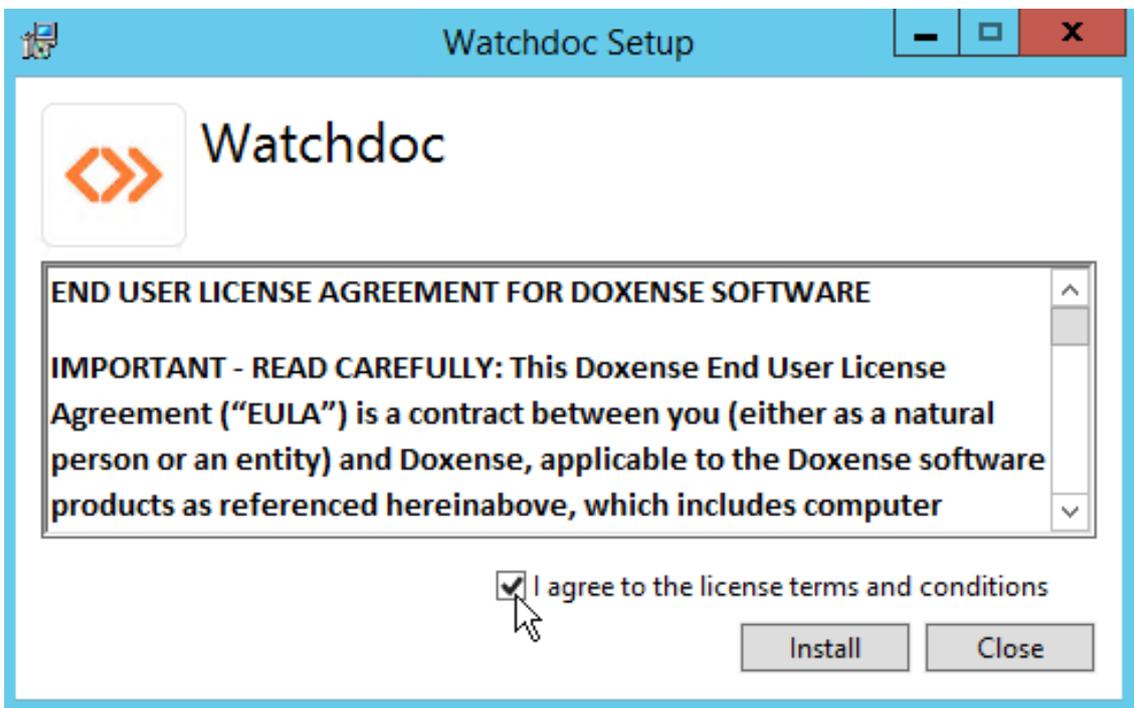
6.2. Launching the Watchdoc® installation

In the Watchdoc® Setup archive file,

1. click on the **Watchdoc Bootstrapper.exe** file:



2. accept the license agreement and click on **Install** :

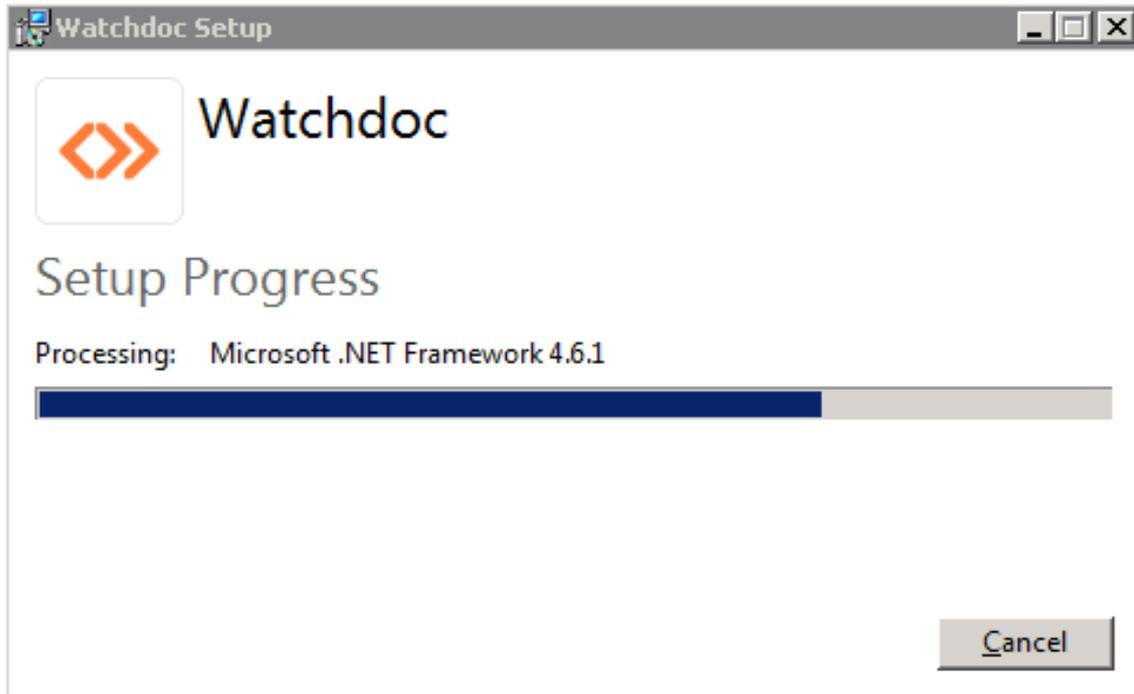


➔ the installation steps are displayed in the **Setup Progress** box;

3. Click on **Restart** to restart the server.

➔ After restarting, the Watchdoc installation wizard is displayed.

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

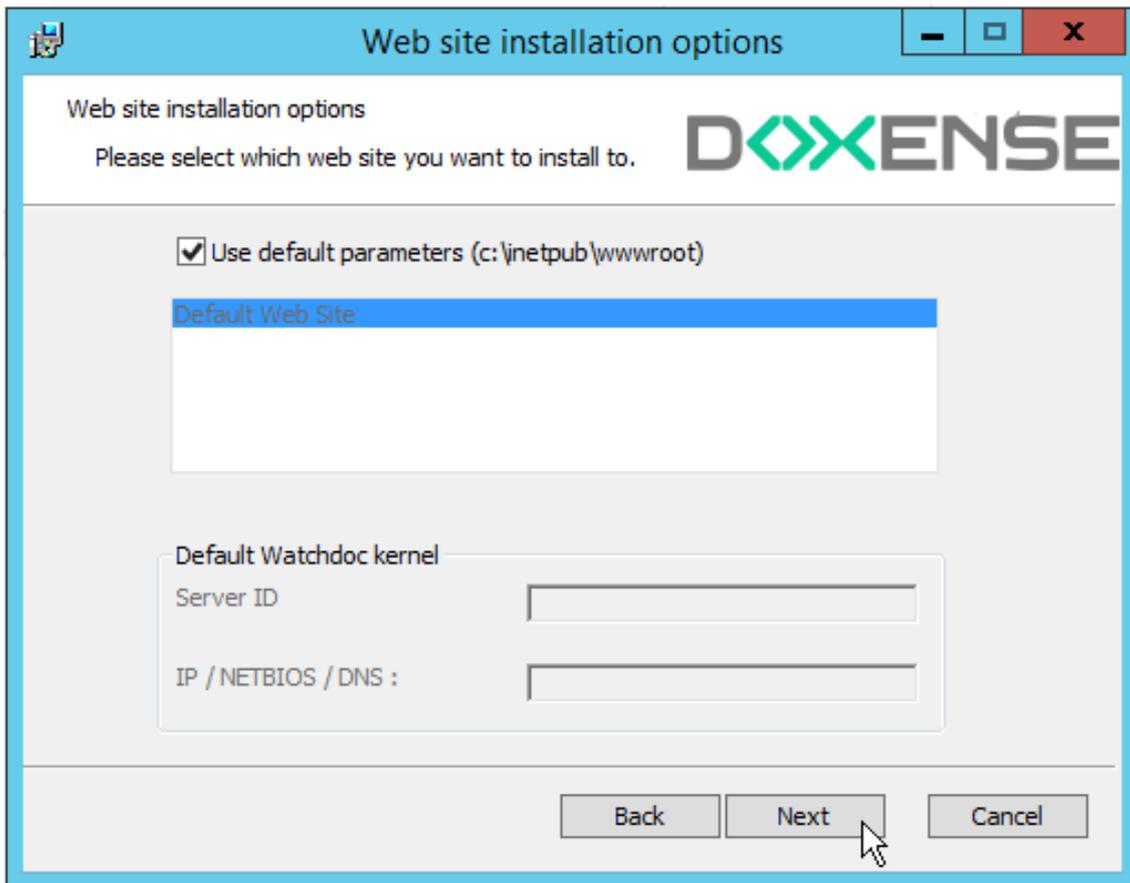


6.2.1. Checking the web site (IIS) default configuration

To install the Watchdoc[®] web site:

1. In the features list, select **Web site**.

➔ The Web site installation options interface is displayed :



The **Use default parameters** check box allows you to use the default website (called **Default web site** and the **c:\inetpub\wwwroot** folder to store the files. You can uncheck the box and specify another web site you want to use .

2. click on **Next** to continue the installation.

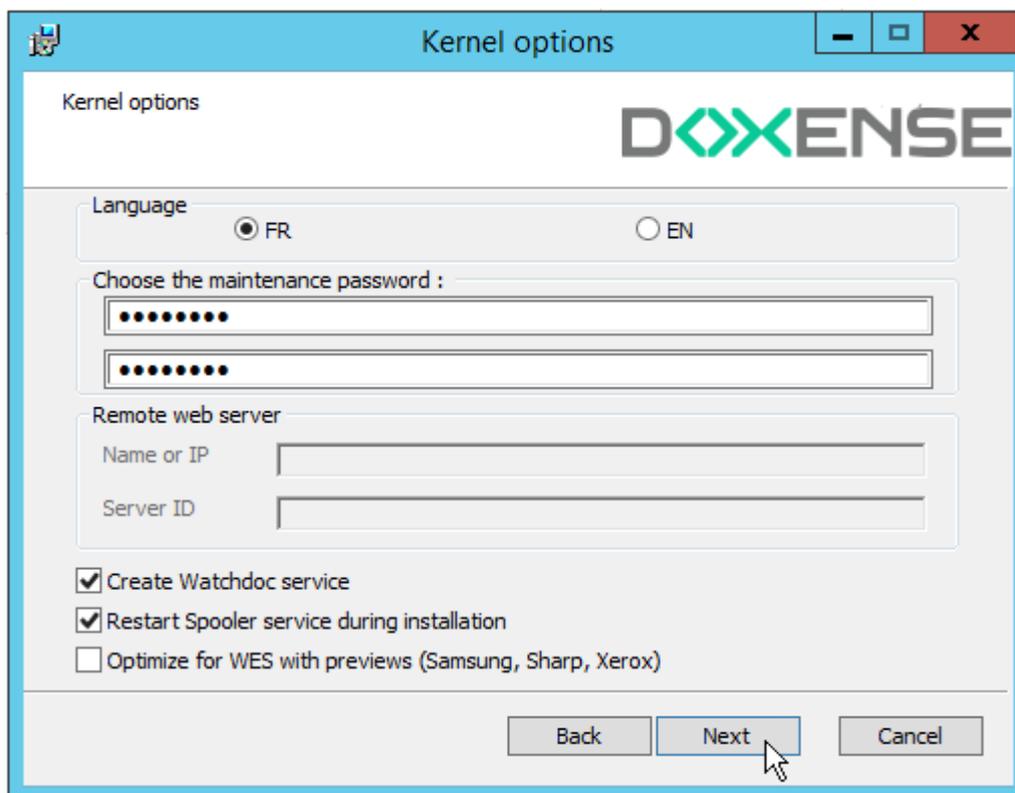
6.2.2. Configuring the Watchdoc kernel

In the **Kernel¹ Options** window that appears:

1. in the **Language** section , select the interfaces default language;

¹In our documentation, the term Kernel refers to the Watchdoc service tasked with managing non-website printing.

- in the **Password** section, modify, if necessary, the administration password which is **changeme** by default;
- tick the box **Create Watchdoc Service** to install Watchdoc[®] with the default options. If it's a cluster installation, untick the box;
- tick the box **Restart Spooler service during installation** to allow an automatic restart of the spooler service during installation. Untick the box if you want to restart the spooler service manually;
- tick the box **Optimise for WES¹ with previews** if Watchdoc[®] is used with Samsung[®], Sharp[®] or Xerox[®] WES (Watchdoc[®] Embedded Solutions). When this box is ticked, Watchdoc[®] generates 20 thumbnails, displayed as soon as jobs arrive on the print server. In case the box is not checked, the thumbnails are generated at the request of the WES, which requires an additional delay at the time of the display.

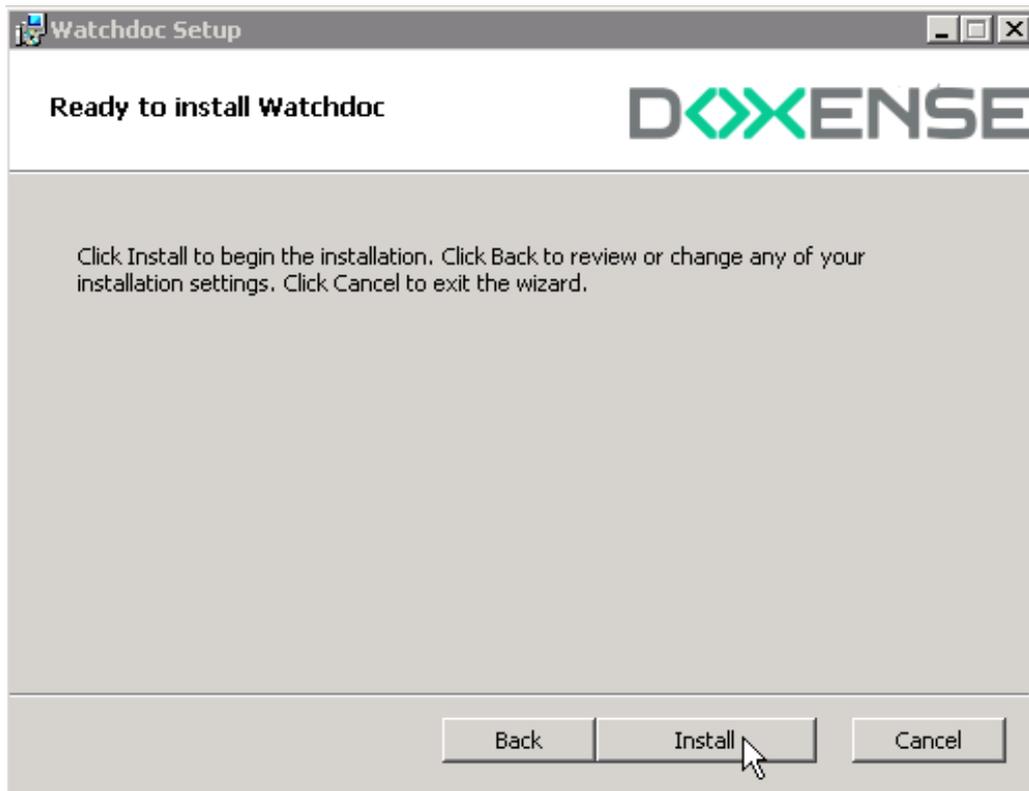


- Click on **Next** to continue installation.

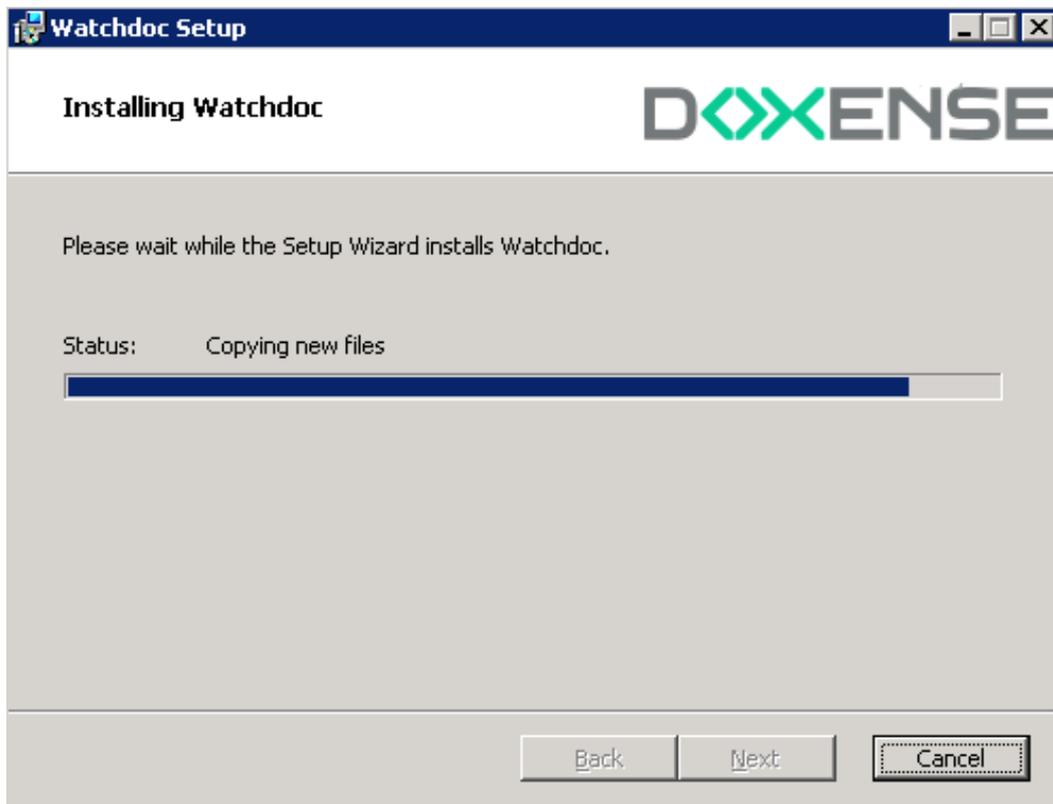
¹(Watchdoc Embedded Solution) WES is the name given to the Watchdoc[®] interface within the printing devices. There are interfaces that are specific to each third party device and hence as many WES versions as there are device manufacturers. These interfaces serve to manage printing from the device itself.

6.2.3. Finalize the Watchdoc® automatic installation

1. In the **Ready to install Watchdoc** window, click on **Install**:



- The installation progress is displayed on the **Installing Watchdoc** window:



- ➔ The wizard displays a message at the end of the installation.
- 2. Click on **Finish** to exit the installation wizard.
- ➔ The wizard displays a message informing you of the successful installation.
- ➔ Installation is complete. You can proceed to the initial setup of Watchdoc® (see Set Watchdoc initial configuration).

7. SET THE INITIAL WATCHDOC® CONFIGURATION

7.1. Access the administration interface



When Watchdoc® is installed, the shortcut  to the administration interface is created on the web server (IIS) desktop.

From the web server (IIS) desktop in Watchdoc®:

1. Click on the shortcut  **Watchdoc Administration.**
2. Authenticate yourself in the Watchdoc® web interface by entering the password set up in the options during installation (**changeme** by default) (refer to *Installing Watchdoc® in Standalone or Classic mode*),
3. Click on .

WATCHDOC

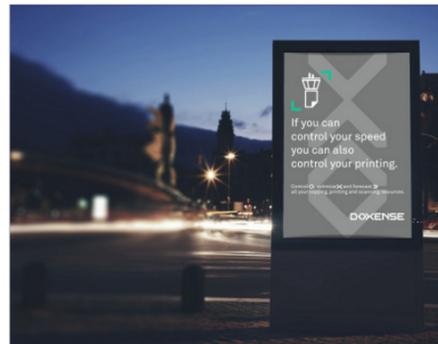
DEMO > Login
CELINE.doxense.local (5.0.0.2063)

 Access in maintenance mode

In case of an identification problem, you can use the maintenance password (restricted to the system administrator).

Password 

DOXENSE



➔ You will access the Main menu in the Watchdoc® administration interface®.

8. CONFIGURATION

8.1. Configuring Watchdoc® Service section

8.1.1. Watchdoc® Identification

Watchdoc Service

Identification	Server ID	ALGIZ
	Server Name	ALGIZ
	Description	ALGIZ
	Location	
Server DNS	<input checked="" type="radio"/> Use default name:ALGIZ	
	<input type="radio"/> DNS name	
Super-User	<input type="checkbox"/> Prohibit the super user access from the network	
	<input checked="" type="checkbox"/> Password:	*****
Encryption	<input checked="" type="checkbox"/> Enable the configuration file password encryption mechanism	
	<input checked="" type="checkbox"/> AES Algorithm used for the encryption	

- **Server ID:** specify the DNS name or the IP address of the server where the Watchdoc® kernel is hosted;
- **Server name:** specify the friendly server name which will be displayed in the interfaces and in the statistical reports. For example: "Print server 2th floor London", "Print server Site B, Sales Service",...
- **Description:** if necessary, complete the name with more information about the server.
- **Location:** state the precise location of the device assigned to the queue. This information facilitates the use of the queue.

8.1.2. Watchdoc® Service > DNS Server subsection

Click on one of the radio buttons to set the name assigned to the server. This name will be used in the access path to the administration website or to the user website.

- **Default name:** the name defined in the previous section will be assigned to the Watchdoc® server;

DNS Name:

- **DNS name:** If the server name changes, enter the DNS name assigned to the print server. This name is used in emails possibly sent to users of the service.



By default, Watchdoc® uses the server's NetBios name, but in cases where some stations (connected to the server) cannot properly resolve names, we recommend specifying a full DNS name, e.g. "server.domain.com" or the IP address (e.g. 192.168.x.y).



In a Cluster type installation, specify the print cluster name and not the name of one of the physical nodes..

8.1.3. Watchdoc® > Super User subsection

The **Super-User** is an administrator with permission to access the administration interface in maintenance mode and consequently allowed to change the entire Watchdoc® configuration.

In this section you can:

- **Prohibit the super user access from the network:** Tick the box if, as a precaution, you wish to reserve access to the administration site from the Print Server only, i.e. from url "http://localhost/Watchdoc/admin/".
- **Password:** This is the password that allows access to the administration interface as the **Super-User**. By default, the password used is the one defined when Watchdoc® was installed. If you wish to change it, enter a new password into this field.

8.1.4. Watchdoc® > Encryption subsection

The **Encryption** section new in version 5.2, allows to encrypt the passwords in the Watchdoc® solution configuration file (config.xml). This option thus offers enable the tool's securisation by making unreadable the administration passwords.

In this section :

- **Enable Encryption:** Check the box if you want to encrypt the passwords of the configuration file using the 258-bit AES algorithm (by default).

8.2. Configuring the Organisation section

Organisation

Working Hours	8h-20h
Week-end	Saturday / Sunday

Use this section to set the times and the days when the Watchdoc[®] service can operate: :

- **Working Hours:** enter the working hours for the organisation that uses Watchdoc[®] e.g. "8:30-18:30". If the organization is always open, enter "0-24". This criteria is used as an indication only, in the "During working hours" filter and in the business reports.
- **Week-end:** From the list, choose the days when the organization that uses Watchdoc[®] does not work. Select **No day off** if the organization never closes. This criteria is used as an indication only, in the "During working hours" filter and in the business reports..

8.3. Configuring the Contact section

Contact

Administrator	Name	John Denver
	E-Mail	jdenver@myenterprise.com
	Phone	01743 243 675
	Message	Technical support: Monday to Friday, 8:30 am to 6:00 pm.

From this section, state the contact information for the Watchdoc[®] contact to be reached should an issue arise during printing. This data appears in the e-mails or notifications sent to administrators and users:

- **Name:** Enter the contact name;
- **E-Mail:** Enter the contact's e-mail address.
- **Phone:** Enter the contact's phone number.
- **Message:** Enter any additional information that may help users (technical support working hours or the address of a website where users may find user documentation on the Watchdoc[®] service, for example)..



The information from the **Contact** section will be sent by e-mail to users should an issue arise and if notifications are enabled and properly configured.

8.4. Configuring the Spool manager section

Use this section to specify the parameters used by the administrator interface to communicate with the Watchdoc[®] kernel.

Spool manager

Print Server	<input checked="" type="radio"/> Connect with local service (autonomous mode)
	<input type="radio"/> DNS name <input type="text"/>
Spool path	<input checked="" type="radio"/> Use the default spool path
	<input type="radio"/> Path <input type="text"/>
EMF	→ Default configuration for the advanced printing features (EMF)
	<input checked="" type="radio"/> Keep the configuration defined by the printer driver.
	<input type="radio"/> Enable the advanced printing features (EMF).
	<input type="radio"/> Disable the advanced printing features (RAW).
CSR	→ Default configuration for the Client Side Rendering mode (CSR)
	<input checked="" type="radio"/> Keep the configuration defined by the printer driver.
	<input type="radio"/> Use Client Side Rendering when possible (CSR enabled).
	<input type="radio"/> Use Server Side Rendering when possible (CSR disabled).
Filtering	<input checked="" type="checkbox"/> Automatic deletion of empty jobs
Failsafe	<input checked="" type="checkbox"/> Print anyway the documents with errors
Synch.	<input checked="" type="checkbox"/> Synchronise the configuration on all Shadow printers when the service starts
	<input checked="" type="checkbox"/> Synchronise the configuration of the Shadow printer when a monitored queue is restarted
	<input checked="" type="checkbox"/> Synchronise the configuration of the Shadow printer when the Shared configuration changes
	<input checked="" type="checkbox"/> Synchronise the description and location fields between Watchdoc and the Print Spooler

8.4.1. Print server subsection

Use this subsection to specify how the server will work:

- **Connect with local service:** Choose this button if Watchdoc[®] is installed in standalone mode (see Installation Manual, Installation and configuration requirements). If Watchdoc[®] is installed in Remote or Cluster mode, untick the box and enter the DNS name of the print server.
- **DNS Name:** if Watchdoc[®] is installed in Remote or Cluster mode, enter the DNS name for the Print Server that the Watchdoc[®] kernel is installed on (see Installation Manual, Installation and configuration requirements).



Restart the server after changing the settings for this subsection.

8.4.2. **Spool¹ directory subsection.**

Use this section to specify the folder where the **spools²** are saved.

- **Use the default spool path:** Choose this button to let Watchdoc[®] automatically detect where the spool files are saved (files with .shd and .spl extensions).
- **Path:** Opt for this choice if you do not want to use the default folder and specify the access path to the folder where the spool files are saved.



By default, the spool files are stored in C:\Windows\System32\spool\PRINTERS



In Cluster mode, the path to the cluster's shared spooler directory must be stated.

8.4.3. **EMF³ subsection.**

From this section, you can enable or disable the advanced print functions (**EMF⁴**) for MS Windows[®].

In the initial configuration, we recommend that you retain the default settings.

8.4.4. **CSR subsection**

Enable or disable the **Client Side Rendering** (CSR) mode.

In the initial configuration, we recommend that you retain the default settings. .

¹If any filter blocks the print out and the user is already known in the directory. Watchdoc[®] moves the analysed spools to the shadow file which then sends them to the device for printing which then sends them to the device for printing.

²If any filter blocks the print out and the user is already known in the directory. Watchdoc[®] moves the analysed spools to the shadow file which then sends them to the device for printing which then sends them to the device for printing.

³Enhanced Metafile (or EMF) is a digital image format for Microsoft Windows systems and some printer drivers. It is an improvement of the WMF (Windows Metafile) image file with data encoded in 32 bits for improved quality.

⁴Enhanced Metafile (or EMF) is a digital image format for Microsoft Windows systems and some printer drivers. It is an improvement of the WMF (Windows Metafile) image file with data encoded in 32 bits for improved quality.

8.4.5. Filtering subsection.

- **Automatic deletion of empty jobs:** Tick the box to let Watchdoc[®] automatically delete print jobs that do not comprise any data.



Some print drivers systematically send a blank document called "Low level local document" before every print job. The filtering function proposed by Watchdoc[®] lets you automatically detect and delete these spurious print jobs.

8.4.6. Failsafe subsection

- **Print anyway the documents with errors:** This box is ticked by default and lets Watchdoc[®] print all print jobs, even where the spool files have errors that inhibit interpreting the metadata.



To avoid blocking a number of print jobs, we recommend keeping this box ticked by default..

8.4.7. Synch. subsection

Keep the following boxes ticked by default:

- Synchronise the configuration of the Shadow printer when a monitored queue is restarted.
 - Synchronise the configuration of the Shadow printer when the Shared configuration changes.
 - Synchronise the Shadow printer when the shared configuration is modified.
 - Synchronise the description and location fields between Watchdoc[®] and the Print Spooler.
- ➔ Click on **Next** to confirm the configuration.

8.5. Configuring currency units

This section serves to configure the data on the costs to be billed for printing.

8.5.1. Cost per page section

- **Profiles:** Choose the format used for displaying print operating costs (e.g. cost of supplies, cost of printing per page). You have a choice between a number of preset formats or the ability to setup your own format. This display format is applied to the

- Watchdoc[®] interfaces that provide cost information (especially statistics and reports).
- **Formula:** If you selected the **Custom profile**, option, specify the number of digits to use and the currency to display. The format that you set is applied to the value of Pi in this example.

Currency units

Cost per page Display format used for cost per page and total operating costs:

Profiles

- 0,12 € - Euro (2 digits)
- 0,1234 € - Euro (4 digits)
- \$0.12 - Dollars (2 digits)
- £0.12 - Pounds (2 digits)
- 0,12 FCFA - CFA Franc (2 digits)
- 123 XPF - Franc pacifique
- 0.12 ₴ - Ukrainian hryvnia (2 digits)
- 0,12 dirham - Moroccan dirham (2 digits)
- 0.12 ریال - Iranian rial (2 digits)
- Custom profile...

Formula 100 x Pi @ digits + **Euros (€, EUR)** = 314.1593€

Billing Display format used for payment and billing (€):

Profiles

- 123 - No units
- 123p - Page quotas
- 123,45 € - Euro
- 1,23 € - Euro Cents
- \$123.45 - Dollars
- £123.45 - Pound sterling
- 123,45 FCFA - CFA Franc
- 123,45 XPF - Franc pacifique (XPF)
- 123,45 dirham - Moroccan Dirham
- 123.45 ₴ - Ukrainian hryvnia
- 123.45 ریال - Iranian rial (IRR)
- Custom profile...

Formula 100 x Pi x @ digits + **Euros (€, EUR)** = 314.16€

Warning, if you use a coefficient other than 1, the cost per page and the billing price will not be interchangeable.



The **Cost per page** section is only used for statistical and cost control purposes, unlike the **Billing** section where the costs set are actually billed to the user.



The cost per page is defined after calculating the cost of equipment, software and supplies used for printing functions (the purchase and maintenance cost of print devices, the cost of paper, cartridges, electricity, etc).

8.5.2. Billing section

- **Profiles:** Choose the format for displaying the payments or billing charges applied to printing. You have a choice between a number of preset formats or the ability to setup your own format. This display format is applied in the Watchdoc[®] interfaces that provide information on the price of printing (especially in the user interfaces).



From the Profiles, opt for choice **123 - No units** if printing is free.

- **Formula:** If you selected the **Custom profile** option, specify a coefficient to apply, the number of digits to use and the currency to display. The format that you set is applied to the value of Pi in this example.

8.6. Configuring E-mail notifications

This section serves to configure the data on e-mail notification during printing. This function is used to send messages to Watchdoc® users or administrators via an SMTP¹ server.



Before enabling e-mail notifications, make sure that you have the information on the SMTP server that this function relies on.

E-Mails

Notifications	<input checked="" type="checkbox"/> Allow e-mail notifications for administrators and users
SMTP Server	Hostname: <input type="text" value="10.10.0.10"/>
	TLS/SSL: <input type="checkbox"/> Connect to SMTP server using TLS/SSL
	Port: <input type="text" value=""/> (empty or 0 for default)
	<input type="checkbox"/> Identification is required by the SMTP Server
	Login: <input type="text"/>
Password: <input type="text"/>	
E-Mails	Prefix: <input type="text" value="[Watchdoc]"/>
	Service Address: <input type="text" value="WatchdocAdmin@myenterprise.org"/>
	Reply address: <input type="text" value="jdenver@myenterprise.org"/>
Recipients	<small>To send specific notifications to some other people, enter their email addresses (separated by a semicolon). If the field is empty, the administrator of the queue, the queue group or the site will be notified.</small>
	Support: <input type="text" value="jdenver@myenterprise.org"/>
	Supplies: <input type="text" value="dblack@myenterprise.org"/>
	Quotas: <input type="text" value="ssmith@myenterprise.org"/>

8.6.1. Notifications subsection

- **Allow e-mail notifications for administrators and users:** Tick the box if you want Watchdoc® to notify administrators and users by e-mail. If you activate this function, fill-in the following sections.

¹Simple Network Management Protocol (SNMP) is an Internet-standard protocol for collecting and organising information about managed devices on IP networks and for modifying that information to change device behaviour. Devices that typically support SNMP include routers, switches, servers, workstations, printers, modem racks and more. SNMP is widely used in network management for network monitoring. SNMP exposes management data in the form of variables on the managed systems organised in a management information base which describes the system status and configuration.

8.6.2. SMTP server subsection

- **Hostname:** Use this field to enter the IP address of the SMTP server used by Watchdoc[®] to send e-mail messages to users;
- **TLS¹/SSL²:** Tick the box if the SMTP imposes the use of Transport Layer Security (TLS³) or Secure Sockets Layer (SSL⁴) for security purposes.
- **Port :** Specify the port used to access the SMTP server.
- **Identification is required by the SMTP Server:** Tick the box if it is only possible to access the SMTP server after authentication. In this case, specify:
 - **Login:** The user account allowed access to the server;
 - **Password:** The user password for the account allowed access to the server.

8.6.3. E-mail subsection

- **Prefix:** Use this field to enter a prefix that will be displayed in the e-mail header line. The prefix lets the user quickly identify the origin of the e-mail and then apply filters to e-mail messages like this one.
- **Service address:** Use this field to enter the e-mail address of a service or recipient in charge of print management. This address must be a valid one.
- **Reply Address:** If necessary, use this field to enter the e-mail address that user replies are sent to.

¹Transport Layer Security security protocol. Protocol for securing exchanges over the Internet. It replaced the SSL protocol in 2001. SSL and TLS are encryption protocols that fully guarantee communication security for all of the e-mails exchanged. These systems are widely used to guarantee communication security over the internet.

²Secure Sockets Layer. A protocol for securing exchanges over the Internet that became Transport Layer Security (TLS) in 2001.

³Transport Layer Security security protocol. Protocol for securing exchanges over the Internet. It replaced the SSL protocol in 2001. SSL and TLS are encryption protocols that fully guarantee communication security for all of the e-mails exchanged. These systems are widely used to guarantee communication security over the internet.

⁴Secure Sockets Layer. A protocol for securing exchanges over the Internet that became Transport Layer Security (TLS) in 2001.



The **Service Address** is required and must be valid. It is used especially to receive automatic reply messages like receipt acknowledgements and error messages (Mailer Daemon) or user replies. If you wish to see replies generated by users distinguished from automatic error messages, we recommend that you specify a **Reply address**, and address that remains optional.

8.6.4. Recipients subsection

Use this section to enter the e-mail addresses of the persons who are authorised to intervene in case of technical issues detected by the system, such as a device shut-down or an alert triggered when low consumables are detected, for example.

- **Support:** Use this field to enter the e-mail address of the person tasked with the technical management of devices and who can therefore take action should a failure or problem arise.
- **Supplies:** Use this field to enter the e-mail address of the person tasked with handling device consumables and who can therefore intervene as soon as it becomes necessary to resupply the devices with ink cartridges or paper.
- **Quotas :** Use this e-mail address field to enter the address of the person tasked with managing the print quotas (or Virtual Wallets).

8.7. Configuring Windows Popup notifications

Use this section to configure the information relating to notifications managed by the MS Windows[®] MSG.exe service.

- **Notifications Case:** Tick the box to enable sending alert messages using the Remote Desktop Services (RDS) protocol via the MS Windows[®] MSG.exe command tool. If you tick the box, fill-in the following field:
 - **Proxy server :** The address of the server where the Watchdoc[®] Notification server is located (as a general rule, it is installed on the IIS web server).

- **Default target¹:** Use this field to enter the name of the station where the "administrator" notifications will be sent.
- **Name of service:** Use this field to enter the name that will be displayed as the sender of the message sent to the client station. It may, for example, use: "Watchdoc, print manager" for easy message identification.

Windows Popup Notifier

Notifications Allow sending popup notifications using the "Remote Desktop Services" protocol (using MSG.exe)

Proxy Server
Ex: "https://127.0.0.1:5751/services/msgq"

 *Windows popup notification is not compatible with Windows 2000 workstations! Starting from Windows XP SP2, it is necessary to allow remote RPC by setting the registry value 'AllowRemoteRPC to 1 under "HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Terminal Server".*

Default target

Name of Service



MSG.exe is a native on-line command tool in MS Windows[®] operating systems used to send messages to one or more network users with an active Windows session.

MSG. exe has replaced Net Send since the release of MS Vista[®].

To use this service, you need to enable the MS Windows[®] Display messages on client stations service (disabled by default on MS XP[®] stations).



Windows popup notifications are not compatible with MS Windows[®] 2000. From MS Windows[®] XP SP2, you need to allow RPC calls by setting the 'AllowRemoteRPC' value to 1 in the customer station register key "HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Terminal Server".

This key can be deployed by GPO on user stations.

8.8. Configuring the Statistics Section

This section groups information relating to the database that collects printing statistics.

8.8.1. Connection subsection

- **Type:** From the list, select the type of database installed on your network infrastructure to collect statistics on the use of the Watchdoc[®] service.

¹The target directory is a directory where an Alias/Proxy directory undertakes searches to complete any information that it holds. For example, an Alias/Proxy directory containing the correspondence between a badge number and a login will complete the information relating to users, from their login, by searching the directory and therefore being designated as the target for the Alias/Proxy directory.

- **SQL Serveur:** Use this field to enter the database location path. If you do not know where the database is located, click on the  button. This function scans the network and returns the list of SQL servers installed on it. From this list, select the SQL server designated for Watchdoc® statistics.
- **Login:** Use this field to enter the name of the user empowered to manage the database. For greater security, we recommend creating an account that is specific to the statistics database.
- **Password:** Use this field to enter the password assigned to the user name.
- **Database:** Use this field to enter the name of the database used. By default, the name is **Watchdocstats**.
- **Path:** This setting is only activated where an SQLite type directory is used. The information displayed is the path to (data) file where the SQLite database is created by default.



Watchdoc currently supports:

- Microsoft SQL Server 2000/2005/2008, SQL.
- Microsoft SQL Desktop Engine,
- SQL Server 2005/2008 Express,
- PostgreSQL 8.x,
- SQLite 3.x
- MySQL.



Database configuration

This allows you to setup the statistics and quota databases

Statistics

Connection	Type	Microsoft SQL Server
SQL Server		localhost\WATCHDOC
Login		sa
Password		*****
Database		watchdocstats
Path		%data%

Management **! Please check or create the database**

8.8.2. Operations subsection:

- **Create a new database...** button : click on this button when installing Watchdoc® for the first time to create the statistics database.

DOC-WATCHDOC > Database creati...

Database creation

Database

Options Reuse an existing database (only create tables)

Identification Use the account sa
 Use another account:

Login

Password

Path Use MSSQL default data folder
 Use the following data folder:

! Specify an absolute path for remote servers!

- **Check the database...** : click on this button when reinstalling Watchdoc® and if the statistics database is already installed.

8.9. Quotas section

This section groups information relating to the database that collects data for virtual wallets.

8.9.1. Activation subsection

- **Activate Quotas database:** Tick this box if you wish to use virtual wallets to pay for print jobs.

8.9.2. Connection subsection

- **Type:** From the list, select the type of database installed on your network infrastructure to collect data on the use of the Watchdoc® service.
- **SQL server:** Use this field to enter the database location path. If you do not know where the database is located, click on the  button. This function scans the network and returns the list of SQL servers installed on it. From this list, select the SQL server designated for Watchdoc® statistics.
- **Login:** : Use this field to enter the name of the user empowered to manage the database. For greater security, we recommend creating an account that is specific to the virtual wallet database.
- **Password:** Use this field to enter the password assigned to the user name ;
- **Database:** Use this field to enter the name of the database used. By default, the name is Watchdocpmv **Watchdocpmv**.
- **Path :** This setting is only activated where an SQLite type directory is used. The information displayed is the path to (data) file where the SQLite database is created by default.

Quotas

Enabled Enable quotas database

Connection

Type: Microsoft SQL Server

SQL Server: localhost\WATCHDOC

Login: sa

Password: [REDACTED]

Database: watchdocpmv

Path: %data%

Management Please check or create the database

Create a new database...

Check the database...

8.9.3. Operations subsection

- **Create a new database...** button: click on this button when installing Watchdoc® for the first time to create the virtual wallets database.
 - **Check the database...** button: Click on this button when reinstalling Watchdoc® and if the virtual wallet database is already installed.
- ➔ Click on **Validate** to save this initial configuration.

8.10. Declaring the user directory

Watchdoc® requires installing a directory. This directory may have been installed before Watchdoc® was first setup. In this case, ignore this setup by clicking on **Next**.

8.10.1. Configuration and Authorisation section

Watchdoc® uses a directory where users are registered. This directory is specific to the organisation's network architecture.

- **Windows Domain:** By default, if the server is already a member of the domain, Watchdoc® automatically detects domain information and displays it in this field. If no information appears, enter the name of the Windows® domain that the Watchdoc® server belongs to.



Important: For a primary Active Directory, the name of the Windows domain must be the same as the name of the NT domain (DN).

- **Type of domain:** From the list, choose the type of directory domain.



The **Windows NT (SAM)** type cannot be used when the domain controller¹ is an MS Windows NT 4.0 system or when the server is not assigned to any domain.

The **MS Active Directory (LDAP²)** type is used in cases where the domain is controlled by an MS Windows 2000 or higher server.

You can also use a **Novell, OpenLDAP** or generic **LDAP v3** server



Il est également possible d'utiliser un serveur **Novell, OpenLDAP** ou générique **LDAP v3**.

- **Description :** By default, if the server is already a member of the domain, Watchdoc[®] automatically detects the description data entered and displays it in this field. Where necessary, you can change this description.



If you do not have a secondary domain controller, we recommend not indicating a specific **LDAP** server. Hence, if a directory fails, the domain controller can use another one.

- **Port :** If you filled-in the **Server** field, then use this field to specify the port used to access this server. By default, port 389 is used.
- If the domain is an **LDAP³** type, the next field must be filled-in:
 - **DN:** Use this field to specify the server Default Naming Context.
- **Use the following login account:** Tick the box if the directory requires authentication. In this case, specify the access account using the (Login / Password) combination entered in the following fields:
 - **Login:** the name of the user allowed access to the directory ;

¹Domain Controller (or DC). The domain controller is a server that handles the interactions between the users and the domain, storing data relative to these interactions, including the process for opening the session, authentication and searching the directory. It generally serves to provide the Active Directory service to user and computers on the network.

²Lightweight Directory Access Protocol. This protocol is based on TCP/IP and was initially designed to allow querying and modifying directory services. It currently constitutes a standard for directory systems including various models: for data, naming, security and for replicating a functional model.

³Lightweight Directory Access Protocol. This protocol is based on TCP/IP and was initially designed to allow querying and modifying directory services. It currently constitutes a standard for directory systems including various models: for data, naming, security and for replicating a functional model.

- o **Password:** The password assigned to the user allowed access to the directory.



If the account used is not located under "CN=Users,", then it is essential to detail the DN in full (e.g. "CN=account_readonly, OU=test, DC=..., DC=...").



User directory declaration
This allows you to setup the user directory

User directory



If you have already created a directory in a previous session, please ignore this step

Configuration and authorisation

Windows Domain	<input type="text" value="DOC"/>
Type of domain	Microsoft Active Directory (LDAP) <input type="button" value="v"/>
Description	<input type="text" value="Directory of domain users DOC"/>
DN	<input type="text" value="DC=DOC,DC=local"/> <small>DN of the root directory. Ex: DC=domain,DC=ca,DC=uk</small>
Server	<input type="text"/> <small>Name or IP of the LDAP server (optional)</small>
Port	<input type="text"/> <small>Server port (optional, 389 by default)</small>
<input checked="" type="checkbox"/> Use the following login account:	
Login	<input type="text" value="sa"/>
Password	<input type="password" value="*****"/>

Cache Cache the requests in memory for a period of time.

8.10.2. Cache section Cache

- **Cache:** Tick the box to save the requests to a server cache memory file. This function may be useful to save Watchdoc® from having to access the directory, hence improving its performance, as well as if the directory is unavailable for a time.



Click on the  button to declare the directory.

8.11. Configuring default settings for all queues

The values that are set by default using this interface apply to all of the network files declared in Watchdoc®. You are still free to refine the configuration of each file.

8.11.1. Restrictions section

- **Lifetime:** Specify the duration in seconds, minutes, hours or days, that a document on hold may remain on the Print Server. To be sure to get their print outs, the user must release or archive their work before this lifetime expires. After this lifetime, the action applied to work that has not been released is set by the next setting.
- **Expiration:** From the drop down list, choose the action applied automatically to the work that has not been released before the end of the set lifetime.

Restrictions ▲ Top / Bottom ▼

Expiration	<input checked="" type="checkbox"/>	Automatically delete the document ▼
Lifetime	<input checked="" type="checkbox"/>	4 hour(s) ▼ <small>Maximum lifetime of a document on hold</small>

8.11.2. Archive section

Temporary subsection: Short term storage on the server. Allowing short term storage may be useful if a device fails, for example.

- **Allow temporary archives:** Tick the box to allow systematically temporarily archiving all print work, whether printed out or not. The storage duration for this type of archive is defined below. When this box is ticked, the user interface comprises a "My archives" tab comprising the archived work. The user may delete or reprint the document or assign it permanent archive status.
- **Quick reprint:** Tick the box to allow a quick reprint of archived documents. When this box is ticked, the user interface comprises a "Print document" button in the list of archived work.

- Specify the duration in minutes, hours, days, months or years for retaining the archive on the server..

Permanent subsection: Long term storage on the server.

- **Allow permanent archives:** Tick the box to allow Watchdoc® to retain work on the server, whether or not it is printed.
- **Print audit:** Tick the box to allow systematically retaining print work on the server for analysis purposes. When this box is ticked, users cannot delete their archives.
- Specify the duration in minutes, hours, days, months or years for retaining the archive on the server. Value 0 allows permanent archival that never expires.
- **Lifetime:** :Specify the duration in seconds, minutes, hours or days, that a document on hold may remain on the Print Server. To be sure to get their print outs, the user must release or archive their work before this lifetime expires. After this lifetime, the action applied to work that has not been released is set by the next setting.
- **Expiry:** From the drop down list, choose the action applied automatically to the work that has not been released before the end of the set lifetime.



Permanent archival assumes two prerequisites:

- Gaining permission from Watchdoc® users to retain their work, as the user does not have the option of deleting their work.
- Having enough storage space to match the estimated volume of print-outs to retain.

Archiving

▲ Top / Bottom ▼

Temporary	Short term storage on the server
	<input checked="" type="checkbox"/> Authorise temporary archive
	<input type="checkbox"/> Fast reprint
	<input type="text" value="1"/> <input type="button" value="↓"/> day(s) <input type="button" value="↑"/>
Permanent	Long term storage on the server
	<input type="checkbox"/> Authorise permanent archives
	<input type="checkbox"/> Printing audit
	<input type="text" value="0"/> <input type="button" value="↓"/> month(s) <input type="button" value="↑"/> (0 -> no expiration)

8.11.3. Automatic Configuration section

- **WES¹**: Tick the box to allow Watchdoc[®] to automatically create preset WES instances and directories. The settings for the WES profiles and that of the directories may be refined later on.



When the box is ticked, the assistant automatically creates all of the types of directories that exist in Watchdoc[®] :

- **USERS** directory: An LDAP3 type directory
- **CARDS** directory: A directory where the correspondence between badge numbers and **LDAP²** directory user IDs are setup.
- **GUESTS** directory: An SQL type directory used to register "Guest" users not found in the organisation's LDAP directory.
- **META** directory: A container directory grouping all of the other directories.



The WES profile is only created automatically if the Watchdoc[®] license supplied by Doxense[®] comprises a WES. This assumes that when the license was applied for, you stated the one or more WES that you wish to enable.

- **Guest users**: Tick the box to allow Watchdoc[®] to create a Guest directory that will show users not listed in one of the network directories.

Automatic configuration

WES	<input checked="" type="checkbox"/>	Create automatically directories and WES profiles (if possible)
Guest users	<input checked="" type="checkbox"/>	Automatically create the configuration to support guest users

- ➔ Once this configuration is complete, Watchdoc[®] initial installation is finished.

¹(Watchdoc Embedded Solution) WES is the name given to the Watchdoc[®] interface within the printing devices. There are interfaces that are specific to each third party device and hence as many WES versions as there are device manufacturers. These interfaces serve to manage printing from the device itself.

²Lightweight Directory Access Protocol. This protocol is based on TCP/IP and was initially designed to allow querying and modifying directory services. It currently constitutes a standard for directory systems including various models: for data, naming, security and for replicating a functional model.

9. ACTIVATE THE LICENCE KEY

The programs available into [Connect](#), customer portal dedicated to partners., install a demo version valid for 40 days.

If you have acquired a Watchdoc[®] license to use it beyond the demo period, you must activate it. This license is based on a certificate provided as a file with the extension **.wlk**.

In order to activate Watchdoc[®], it must be configured with a license key generated by Doxense. The license key, is sent to you as a file (with **.wlk** extension) by mail, after reception of your order. Save it to a folder in your workspace.

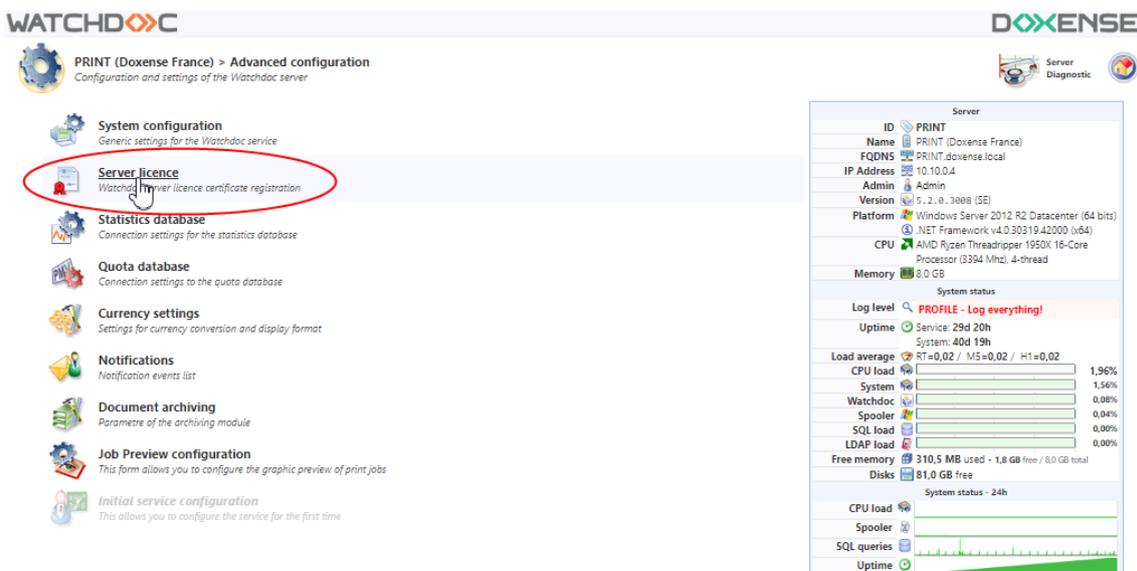
To activate the license certificate:

1. from the Watchdoc[®] main menu, click on **Advanced configuration**:

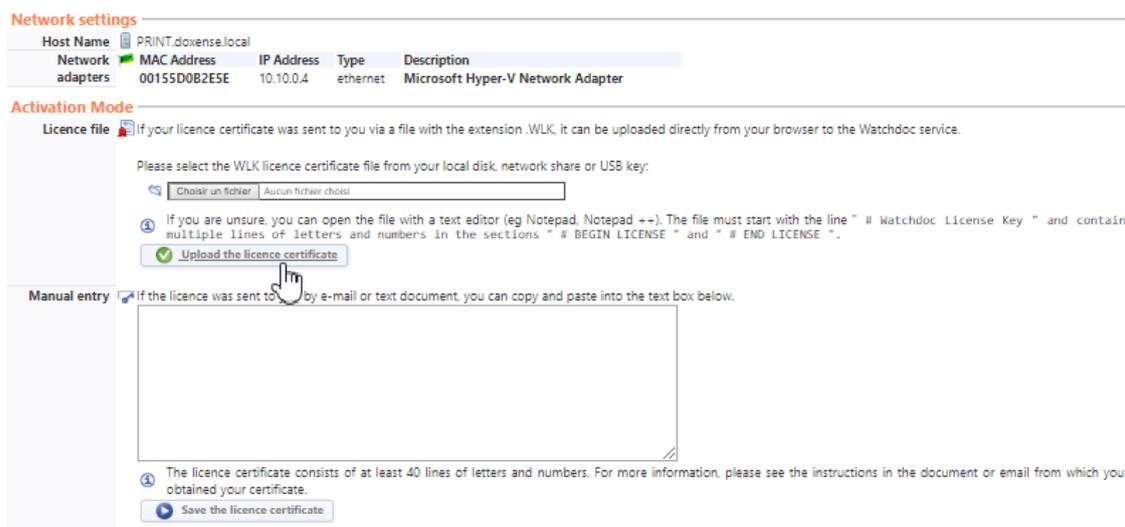
The screenshot shows the Watchdoc main menu interface. The top bar includes the Watchdoc logo on the left and the Doxense logo on the right. Below the logos, the text reads 'PRINT (Doxense France) > Main menu' and 'PRINT.doxense.local (10.10.0.4) | v5.2.0.3008'. There are two circular icons on the right side of the top bar. The main menu is divided into four columns: 'Production', 'Analysis', 'Management', and 'Configuration'. The 'Advanced configuration' option in the 'Configuration' column is circled in red. The options are as follows:

- Production**
 - Printing queues, queue groups & pools: List of the printing queues controlled by Watchdoc
 - Documents on hold: List of documents held in the queue
 - User quotas: List of user quotas
 - Archives: Documents archived by the users
- Analysis**
 - Printing history: Printing history of all the printing queues
 - Statistics: Statistics of all the printing queues
 - Reports: Prints made during a certain period
 - Failures & Alerts: List of failures on queues and documents
- Management**
 - Pricings: List of available pricings
 - Filters: List of available filters
 - Quota Templates: Management of the quota templates and management rules
 - Roles & Services: List of available roles and services
 - Authorisation access: Management of access control and administration profiles
- Configuration**
 - Printers & devices: List of devices defined in the system
 - Web & WES templates: User interfaces
 - User directories: List of all defined user directories
 - Data sources: This forms allows you to configure a data source
 - Advanced configuration**: Configuration and settings of the Watchdoc server

2. In the Advanced configuration interface, click on **Server License**:



3. in the **Server Licence** interface, section **Activation Mode**> **Licence file** section, click on the button **Upload the licence certificate** ;
4. in the selection area, browse your workspace to select the certificate file:



5. After the certificate file is selected, click the **Upload the licence certificate** button to activate the license !  **Upload the licence certificate**

➔ You access the **Main menu** of the **Watchdoc@initial configuration** interface.