

INSTALLATION MANUAL

UDM Runtime 11

Installing an OpenJDK 11 JavaVM on Windows



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Imprint

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Introduction

DN UDM Runtime 11 provides a Java runtime for DN tools, middleware, and application-related software layers, which cannot be operated via the Java runtime of the application. It is based on OpenJDK 11 and limited to Windows based operating systems as the DN WNLPOS (Linux) based operating systems already provides an OpenJDK based Java runtime.

The UDM Runtime 11 is not tested and released for operation with customer application.

The current product installer is based on Inno Setup¹, providing the default CLI parameter and options for silent and unattended installations.

¹ <http://www.innosetup.com/>

Installation

The UDM Runtime 11 product installer can run in interactive mode as well as in silent mode. It also provides the possibility of performing so-called unattended installations based on an initial master installation.

Product installer variants

The installer are available as 32-bit and 64-bit versions for Windows based operating systems and should be selected accordingly the process architecture of the used application. This means that e.g., when using a 32-bit application on a 64-bit operating system, the 32-bit UDM Runtime installer needs to be used.

The provided product installers follow the naming scheme:

- DN-UDM-Runtime-MAJOR.MINOR.BUILD-x64.exe
- DN-UDM-Runtime-MAJOR.MINOR.BUILD-x86.exe

Example: DN-UDM-Runtime-11.0.8.dn.0.27-x86.exe

Installation requirements

The conditions described in this chapter apply to the installation process only.

Note: The installation of UDM Runtime requires administrator permissions.

Supported operating systems

UDM Runtime 11 supports and is released for the following Windows based operating systems:

- Windows 10 IoT Enterprise (x86/x64)
- Windows 10 Professional (x86/x64)
- Windows 8.1 Industry Embedded (x86/x64)
- Windows 8.1 Professional (x86/x64)
- Windows POSReady 7 (x86/x64)
- Windows 7 Professional (x86/x64)

Interactive installation

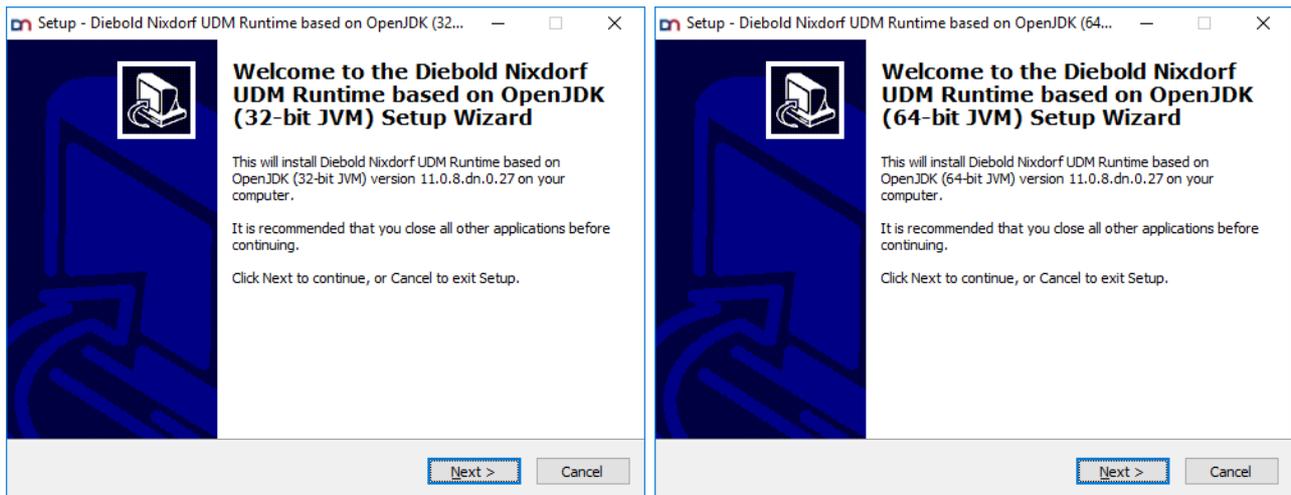
The product installer provides an interactive mode, which will guide the end user through the setup.

Example: Interactive installation

Note: The setup can be cancelled on each step by clicking the [Cancel] button. If the setup is already in the step of copying files, then the installation abort will roll back the changes done to the system. Before this step, nothing will have happened to your system. By clicking the [Back] button, you can go a step back in the setup if needed.

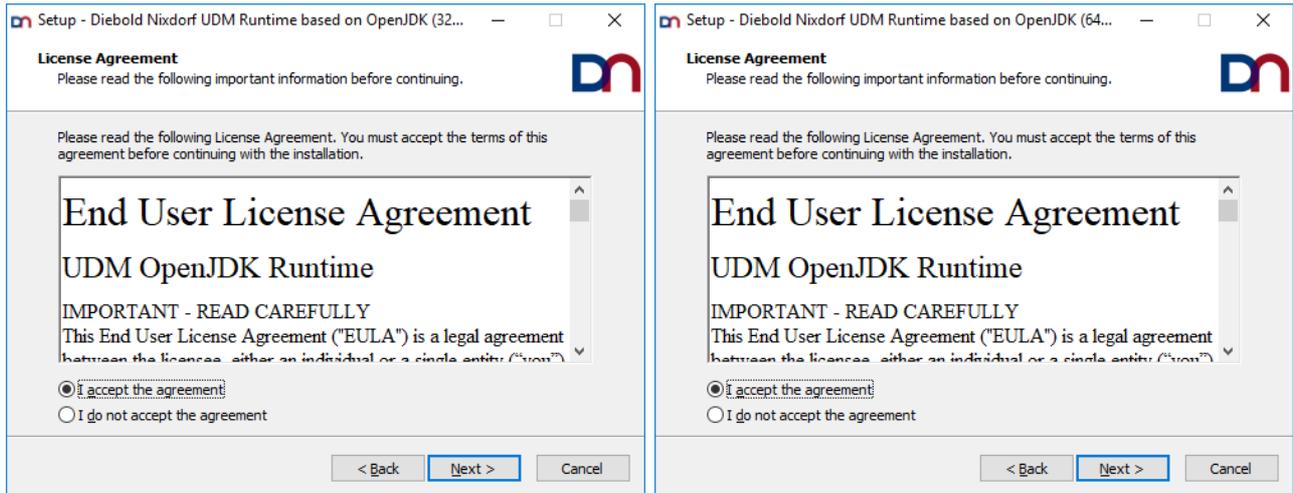
After launching the UDM Runtime 11 installer, one of the following welcome screens will appear

Dialog: Welcome to Setup Wizard



- Click the [Next] button to go on with the setup.

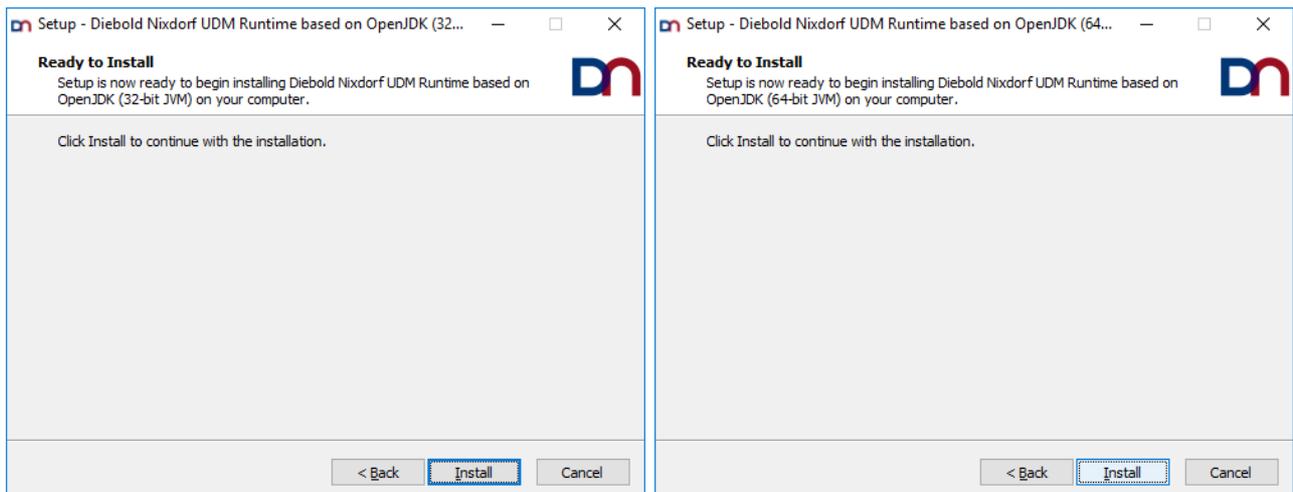
Dialog: License Agreement



- Choose [I accept the agreement] after reading.
- Click the [Next] button.

Dialog: Ready to Install

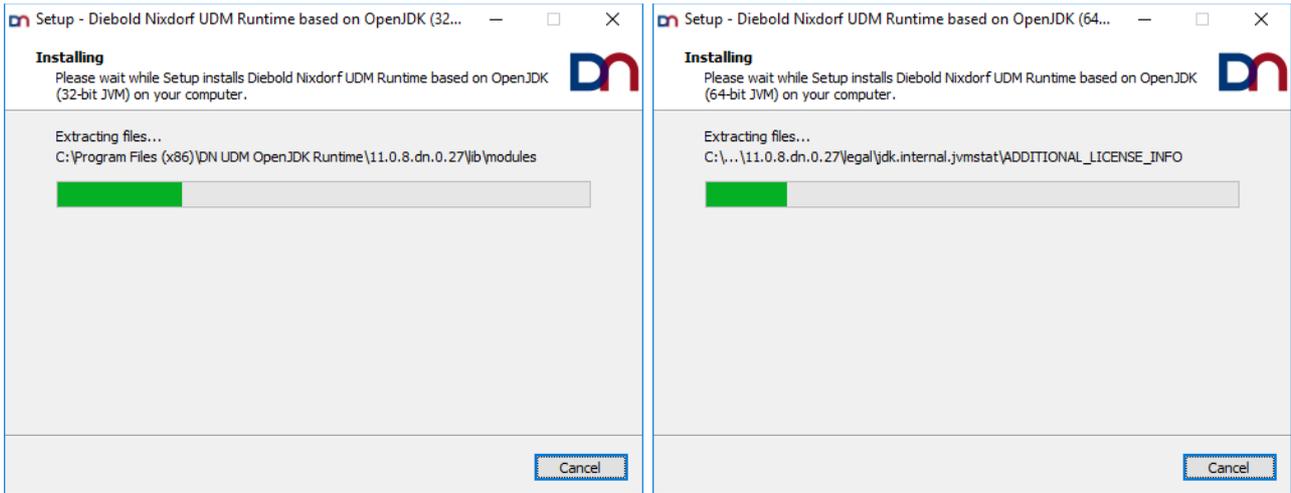
The installer is ready to proceed with the installation and provides an installation summary.



- Click the [Install] button.

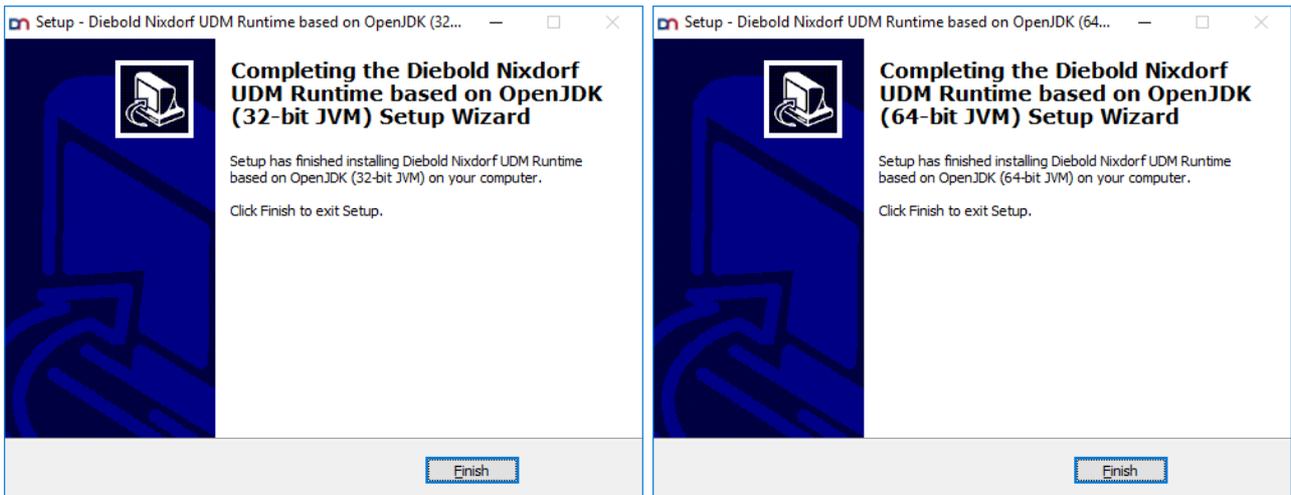
Dialog: Installing

This dialog shows you the current installation step and the overall progress of the installation. Please wait until the installer finishes this step, except you want to cancel the installation (click the [Cancel] button if so).



Dialog: Completing the Setup

If no error had been encountered and everything had been finished successfully, you are going to see a last dialog, informing you that the installation is complete and providing the possibility to perform prepared post installation actions.



- Click [Finish] to end the installation.

Silent installation

A silent installation of UDM Runtime 11 is possible. For this, the product installer must be called with the */SILENT* parameter via the command line.

During a silent installation, the wizard and other background windows are not displayed. However, a window showing the progress of the installation is displayed.

If this window is not to be displayed, you should use the completely silent installation mode with the */VERYSILENT* parameter.

Unattended installation

As with silent installation, an unattended installation with command line parameters is also possible.

To do this, a supervised installation on a system must be executed with the parameter `/SAVEINF="pathToFile"` in the first step. The following installation must be carried out with all necessary specifications and settings. These settings and changes to the setup are stored in the specified file.

With this file, the product installer, and the setup parameters `/LOADINF="pathToFile"` as well as `/SILENT` or `/VERYSILENT`, this recorded installation can now be run automatically, still, and unattended on other systems.

Update installation

An already installed UDM Runtime 11 may be updated with a newer version if the major version number between installed version and update does not differ.

Upgrade installation

There is no upgrade mechanism for older UDM Runtime installations like UDM Default Runtime 1 available. Therefore, it is recommended to remove all preceding UDM Runtime versions before the installation of UDM Runtime 11.

Uninstallation

The product uninstaller will remove all components, previously installed by the product installer, even if the profile has been changed by subsequent installation attempts. See Inno Setup documentation² for details.

Interactive uninstallation

There are two possibilities offered to run the uninstallation of the product interactively:

- direct call of the uninstaller *unins000.exe* located under the directory *<UDM Runtime installation-directory>\Uninstall-DN UDM OpenJDK Runtime*
- or use the Windows system tool with *Control Panel > Add or Remove Programs*

Note: It is recommended not to call the uninstaller directly from the Windows Explorer, as the uninstallation log will not be created (see chapter *Uninstallation log* for more details).

Silent uninstallation

Like for the installation, it is also possible to execute the uninstaller silently by applying the command line argument */SILENT* or */VERYSILENT*.

Example:

```
"C:\Program Files\DN UDM OpenJDK Runtime\11.0.8.dn.0.27\Uninstall-DN UDM  
OpenJDK Runtime\unins000.exe" /LOG="C:\temp\uninstall_UDM.log" /SILENT
```

Note: Unlike the installation, the uninstallation log is not activated by default, and therefore, it is recommended to call the uninstaller with the */LOG="PathToLogFile"* switch also (see chapter *Uninstallation log* for more details).

² <http://www.innosetup.com/ishelp/>

Logging

Installation log

The logging for the installation process is always activated. If the installer is not called with the parameter `/LOG="filename"`, the setup logging file will be stored in the `%TMP%` directory³ with a unique filename based on the current date according to the pattern *Setup Log yyyy-mm-dd #<number>.txt*.

Example:

Setup Log 2020-10-16 #002.txt

Uninstallation log

The logging feature for the uninstallation process cannot be generally activated as it is for the installation process. Therefore, and to activate logging for the uninstallation process, the parameter `/LOG="filename"` must be appended to the uninstaller call.

The uninstallation logging has the following limitations:

- If the uninstaller is called directly (and without giving the `/LOG` option), then no uninstallation log is created.
- The uninstaller cannot append a counter to the log file name as the installer can. Therefore, only one uninstallation log per defined name is possible. If the product has been installed/uninstalled multiple times, the uninstallation log will always be re-written.

Note: We recommend using the product version number as well as the date and/or the time within the log file name (e.g., `/LOG=%TMP%/Uninstall_<UDM Runtime>-<Version>.<Build>.%DATE%.log`).

³ defined as system and/or user environment variable

Command line parameters

Below you will find a short list of the most important command line parameters supported by the product installer derived from the Inno Setup installer runtime.

This list is non-exhaustive and shows only the important command switches. For a complete list, please refer to the Inno Setup official help⁴.

`/SILENT`

The setup will run silent without displaying the wizard and the background window. However, the installation progress window is shown as well as error messages during the installation.

`/VERYSILENT`

The setup will run silent without displaying the wizard, the background window, and the progress windows. Only error messages during the installation are shown.

`/LOADINF="filename"`

The installer will load the settings from the specified file after having checked the command line. This file can be prepared using the `/SAVEINF=` parameter as explained below.

`/SAVEINF="pathToFile"`

The installer will save the installation settings to the specified file. Do not forget to use quotes if the filename contains spaces and always use the absolute path to the file.

`/LOG`

The installer will create a log file in the user's *TEMP* directory detailing file installation and [Run] actions taken during the installation process. This can be a helpful debugging aid. For example, if you suspect a file is not being replaced when you believe it should be (or vice versa), the log file will tell you if the file was really skipped, and why.

The log file will be created with a unique name based on the current date. (It will not overwrite or append to existing files.)

The information contained in the log file is technical in nature and therefore not intended to be understandable by end user. Nor is it designed to be machine-parse able. The format of the file is subject to change without notice.

`/LOG="filename"`

Same as `/LOG`, except it allows specifying a fixed path/filename to be used as log file. If a file with the specified name already exists, it will be overwritten and if the file cannot be created, the installer will abort with an error message.

⁴ http://unattended.sourceforge.net/InnoSetup_Switches_ExitCodes.html