C01 – Software Installation

For most users, installation will just mean starting the setup program from the download directory, answer the questions asked by the setup procedure, and get the program up and running. However the combinations of operating systems, network installations and protection systems may make the installation procedure more complex. This chapter was written to be a technical reference and cover all combinations.

C01.1 • Definitions

Protections

- **Local protection:** A local protection can be either a **Flexlm license** or a **hard key** connected to either the parallel or USB port of the user computer. In case of Flexlm license, the license is dedicated to one machine and can not be installed on another computer. Concerning the hard key, the KAPPA software can only be executed on the computer where the key is plugged but the key can be plugged on any machine. A driver needs to be installed in order to check the key.
  WARNING: You need to have the administrator privileges to install these drivers. 95% of the reported failures to install these drivers come from insufficient privileges.
  WARNING: It is possible to connect a printer to the parallel key but some printers will make a short circuit of the parallel port when turned off. If the software does not find the key, turn the printer on or disconnect it.
- **Network protection** means that, at run time, the program checks the presence and the validity of a license over the network. Network protection is designed to provide several simultaneous users. The licenses are managed by a license server, which is not necessarily installed on the network file server. The protection is managed by software through a license file located on the machine running the licenses server.

Installations

- **A Local installation** means that the software is physically stored and executed from the user computer hard disk. The local installation is described in Section C01.2. Typically the protection used will be local, but may also be a network protection.
- **A Server installation** means that the software is physically stored and executed from the network server hard disk. The installation program creates the installation directory and copies the program in this directory. It also copies the elements in order to perform the Client installation. Such installation requires the READ and WRITE privileges in the target directory. The Server installation is complemented by one or several Client installations. The server installation is described in Section 3.
- **A Client installation** is made after the server installation. The user has to call the setup program created in the server installation directory. The installation program requires a local installation directory where the examples will be copied, and creates the Windows group and Windows program items. The default working directory is the local installation directory. For execution, the READ privilege on the server directory is required. The client installation is described in Section C01.2.

Typically a Server / Client(s) installation is protected by a network protection, but not necessarily. You may wish to make a server installation to ensure the coherence of the software version, then move individual keys around for execution. The advantage of such a solution is that the program can also be sent to the field on a local installation. Another handy solution is to combine network protection and individual protection. At execution time the software first checks that a local protection is present, then looks for a possible network protection. So, if the most frequent user is assigned a local protection key, such solution combines centralization and the possibility to send the individual copy to the field.

Major release and intermediate upgrade

As a KAPPA user, you will be dealing with two distinct types of product distributions: major releases and intermediate upgrades. A major release corresponds to a significant amount of improvements for a particular software, both in terms of technical content and software. Examples of major releases are Saphir v4.0, and Emeraude v2.42. Each release in turn has its own evolution, mirrored by a number of intermediate upgrades for minor additions and bug fixes. Upgrades are identified by two-digit numbers, appended on the release name, e.g. Ecrin v4.00.04 or Emeraude v2.42.03. Installing the first version of a given release is like installing a brand new product. Installing an upgrade of an already installed release will upgrade the installation and replace the previous contents.

C01.2 • Local / Client installation procedure

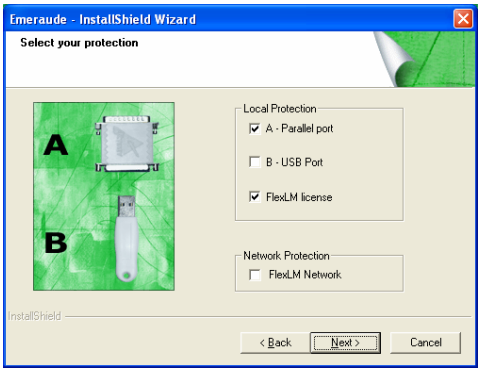
Please remove any previous software installations from your disk. This is not absolutely necessary but highly recommended.

The local or client installations proceed in a similar fashion, except that the latter one must be preceded by the server installation, see Section C01.3. For a local installation, the SETUP.EXE program is run. For a network client installation, the CLIENT_SETUP.EXE program is run from the Server installation folder.

The installation program starts. To run the software with a protection hard key, drivers have to be installed and they are normally installed automatically. *In some instances, you may have to install the driver manually, see Section* C01.4 and C01.5 *for parallel key and Section* C01.6 *for USB key.*

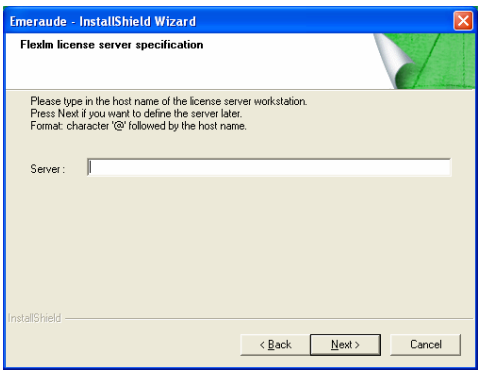
If you are using a USB key, you should wait until the end of the installation to connect the key.

A welcome screen and a license agreement screen are displayed. Click on “Next” to continue. The next dialog requests the type of protection: select your option.



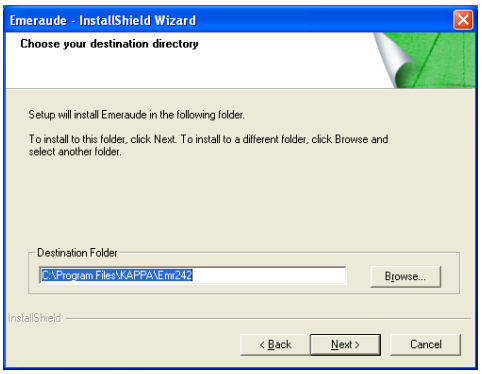
Protection type

If the FlexLM network protection has been chosen, the following dialog is displayed and the user is asked for the host name of the FlexLM license workstation in the following format: “@hostname”, or “port@hostname”. If unknown at the time of the installation, the server may be specified later using the KeyUtil facility.



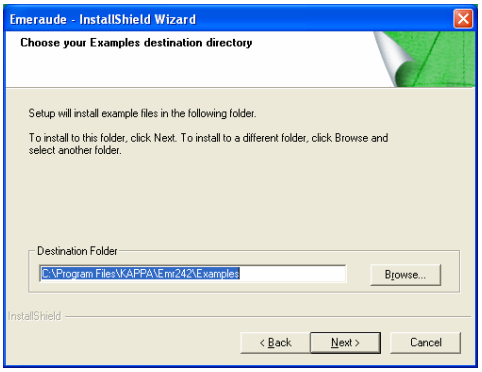
FlexLM Server Name

With a local installation, the next dialog requires the name of the installation directory. The default target is C:\Program Files\KAPPA\XXXZZZZ, where XXX are the first 3 letters of the software name (eg SAP for Saphir) and ZZZZ is the release identifier, e.g. “242” for v2.42.



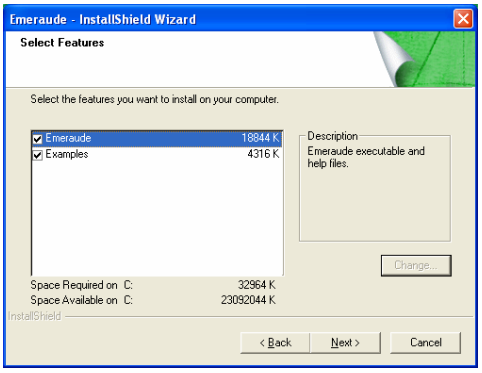
Installation directory

For both local and client installations, the next dialog requires the name of the “Examples” directory (by default a subdirectory of the installation directory) where the example files will be automatically placed.



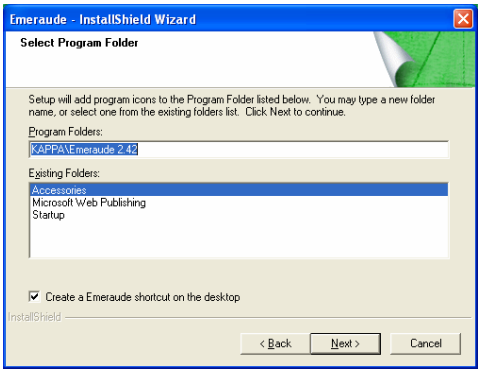
Installation directory

The next dialog requires the list of programs to install (Emeraude, Examples). At least one item must be selected before the installation can proceed.



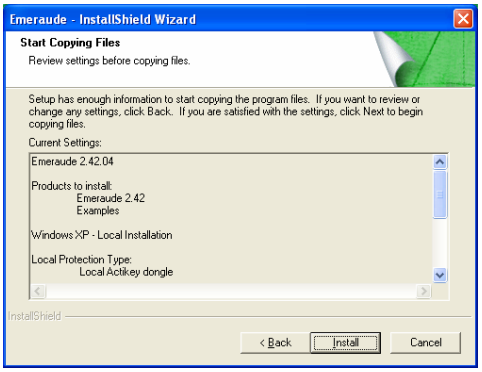
Components selection

The setup program will also check that enough space is available on the installation disk and then will request information on the program folder to be created in the Windows manager. A shortcut can also be created on the desktop.



Information for the Windows manager

The next dialog summarizes the installation options. It is possible to correct these options by using the “Back” button of the installation dialogs.

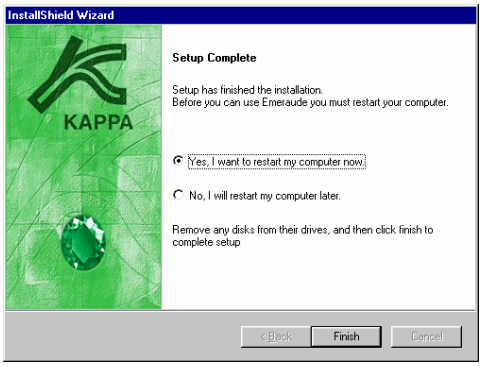


Installation option summary

After user confirmation the installation is executed. Necessary files are copied and decompressed.

For local protection under Windows 95, 98, Me, 2000 and XP, the setup program offers to display the README file, and the program is ready to execute.

For local protection under Windows NT, 2000 and XP, a key driver installation has been performed automatically. For NT4, the driver installation is effective only after a restart.



Warning to enable the protection drivers in NT

If you selected a hard key and the key driver installation failed, it will be necessary to install the key driver manually, *see Section* C01.4 and C01.5 *for parallel key and Section* C01.6 *for USB key.*

In the case of network protection, it is necessary to start a network license server. The license server is provided in a separate toolkit and can be downloaded on the KAPPA web site.

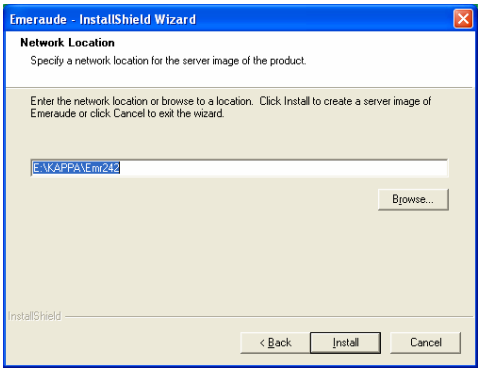
C01.3 • Server installation procedure

Please remove any previous software installations from your disk. This is not absolutely necessary but highly recommended.

You need to execute the NETWORK_SETUP.EXE program.

Make sure you have the READ and WRITE privilege in the installation directories (for execution only, the READ privilege will be required). If this is not the case, the installation procedure will issue an error message when attempting to create the installation directory, and will request another installation directory.

With a server installation, the default directory is W:\KAPPA\EcrZZZ where W is the first available drive starting from F.



Server installation

The setup program copies all the necessary files for the client installation to the selected target.
The network installation is over. The next step is to execute the client installation on each machine where the program needs to be installed, see Section C01.2 above.

The setup needs to know the directory where the executed programs are installed on the network. These programs should reside on the network installation directory; i.e. the parent directory where the setup program is stored. If it is not the case, the setup program will request in a specific dialog the directory where the programs can be found.

C01.4 • Key driver installation under Windows NT4 Workstation

A specific key driver has to be started on a local machine under Windows NT4 Workstation if the protection is a local Actikey dongle.

This driver is automatically initialized during the installation process. If the automatic driver installation fails, please follow the procedure below:

1. Log in with the administrator privilege.
2. Copy the CNRMO330.SYS file to the directory \WINNT\SYSTEM32\DRIVERS.
3. Execute the install.exe program located in the KAPPA installation directory. Accept the default installation address and press the “install” button.
4. Restart Windows NT4.
5. Check in KeyUtil that the driver is correctly installed.

All needed files are located in the KAPPA installation directory.

C01.5 • Manual parallel key driver installation under Windows 2000 and XP

A specific key driver has to be started on a local machine if the protection is a local parallel port dongle. This driver is automatically initialized during the installation process. If the automatic driver installation fails, or if you installed without requesting parallel hard key, please follow the procedure below:

1. Log in with the administrator privilege.
2. Run the install.exe program under the directory:
   C:\Program Files\KAPPA\Protection\Actikey Driver W2000 & XP.
3. Click on the “Install” button.
4. Check under the KeyUtil “View by Protection” page that the driver is correctly installed. Click on the “Actikey Driver” button and then on the “Tools” button, if the driver is successfully installed, the “Install” button is missing.

C01.6 • Installation of the USB key driver under Windows 2000 and XP

Important warning: the USB keys are not supported by the Windows 95 and NT systems.

If you have checked the USB protection at installation time or if you already have a previous USB driver installed on your computer, the driver will be automatically installed or updated.

You may have to execute a manual installation only if the automatic installation failed, or if you had not specified the USB protection when you installed Emeraude. An “Actikey Driver USB” directory is automatically created during the software installation under “C:\Program Files\KAPPA\Protection”.

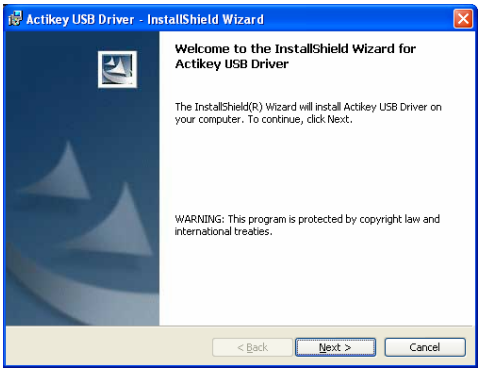
To manually install or update the driver you need to have the administrator privilege in order to execute the Windows Installer Package 

. Note that if a previous USB driver is detected when running the .msi file, a warning message is displayed informing you that another USB driver version is already installed on the machine.

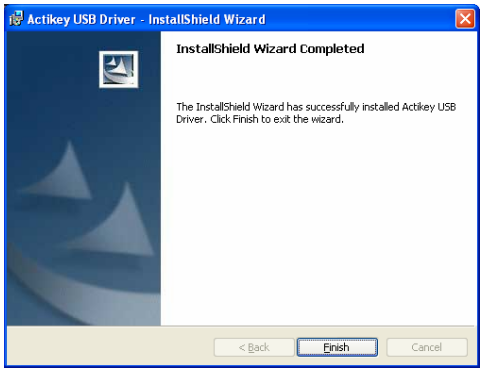


In order to successfully install the latest version of the USB driver, please delete the previous one. Go in Start/Settings/Control Panel/"Add or remove Programs" and remove the "Actickey USB driver" program.

Once removed, run the Windows Installer Package. The InstallShield Wizard pops up, click on "Next" to continue the installation (left below). Once the installation is completed, click on "Finish" (right below).



Actikey USB driver Installation



Actikey USB driver Installation complete

After the installation is complete, you can connect your USB key and launch Emeraude.

You can check in the KeyUtil facility that the key is detected by selecting the USB protection and by clicking on the "Check" button in the "View by Protection" page.

C01.7 • View / edit the protection settings in KeyUtil

KeyUtil is a utility program designed to monitor the KAPPA protection system.
The KeyUtil.exe file is located in C:\Program Files\KAPPA\Emr242.

It is used:

- To set protection flags.
- To read the active protection settings.
- To reset or extend a local protection key (with KAPPA assistance).
- To define the FlexLM license server.

Please consult the online help of KeyUtil.