ABBYY° FineReader° Engine 9.0

SYSTEM ADMINISTRATOR'S GUIDE



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Introduction

Applications which use the ABBYY FineReader Engine 9.0 library can work locally on a workstation. For correct operation of applications, you need to activate a Standalone Runtime License. The ABBYY FineReader Engine distribution kit includes the Local License Manager utility which may be used for activation the license.

Distribution of applications which use the ABBYY FineReader Engine 9.0 library includes two steps:

- 1. Installing the application and the ABBYY FineReader Engine library on the local disk of a workstation;
- 2. Activation of a Standalone Runtime License on the workstation.

Installing the ABBYY FineReader Engine Library

After installing your application on a workstation, you should install the ABBYY FineReader Engine library. It may be installed in automatic or manual mode.

Workstation Requirement

- PC with Intel® Pentium®/Celeron®/Xeon[™], AMD K6/Athlon[™]/Duron[™]/Sempron[™] or compatible processor with a minimum clock speed of 200 MHz.
- Operating System: Microsoft® Windows® 7, Windows Vista®, Windows Server® 2008, Windows Server 2003, Windows XP, Windows 2000, and 64-bit versions of Windows 7, Windows Vista, Windows Server 2008, Windows Server 2003, Windows XP.
- Memory: 128 MB RAM plus an additional 110 MB for each recognition process.
- Hard disk space: 350 MB for library and 70 MB for program operation.
- 100% TWAIN-compatible scanner, digital camera, or fax modem
- Video card and monitor (min. resolution 800x600)
- Keyboard, mouse or other input device
- The following registry branches should be accessible from the workstation:
 - HKEY_CLASSES_ROOT full control access
 - o HKEY_LOCAL_MACHINE\Software\ABBYY full control access
 - o HKEY_CURRENT_USER\Software\ABBYY full control access
 - HKEY_CLASSES_ROOT\CLSID full control access
 - o HKEY CLASSES ROOT\TypeLib full control access for installation and activation only
- The following folders should be accessible from the workstation:
 - o Folder with ABBYY FineReader Engine binary files full control access
 - %TEMP% folder full control access
- The following components should be installed:
 - o Microsoft Internet Explorer 5.0 or higher
 - If your application uses any of the ABBYY FineReader Engine methods producing user interface elements (dialog boxes), namely Pattern Training, User Pattern, Dictionary dialog boxes, Windows Common Controls must have version 5.80 or later and Rich Edit Control must have version 3.0 or later.

Installing the Library in Automatic Mode

The runtime installation of the ABBYY FineReader Engine library in automatic mode can be performed only via the command line in silent mode. Run the setup.exe file from the installation CD-ROM with the command–line options described below.

Option	Default Value	Description
INSTALLDIR=" <destination patb="">"</destination>	C:\Program Files\ABBYY FineReader Engine 9.0	The path to the folder where the ABBYY FineReader Engine library will be installed.
PRTYPE= <protection type=""></protection>	Hardlock	The protection type. It may be <i>Hardlock</i> , <i>File</i> or <i>Server</i> . <i>Hardlock</i> and <i>File</i> for the hardware and software protection keys of the Standalone Runtime License, <i>Server</i> for the Network Runtime License.

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SN= <serial number=""></serial>		The ABBYY FineReader Engine 9.0 serial number
MODULES= <list library<br="" of="">modules></list>	ICR,CJK,PDF,ScanMan	The list of library modules that you want to install. This option is only used when installing ICR, CJK, PDF, and/or ScanMan modules*. The modules must be separated by a comma (,). For example, MODULES=ICR,CJK,PDF,ScanMan. If you do not want to install any of these modules, set this option to No.
/v		The start of the installation.
/q		Silent mode. Use the / qb option if you want a progress bar to be displayed during the installation. No other dialog boxes will be displayed.
SERVERNAME= <the dns="" name<br="">or IP address></the>		The DNS name or IP address of the computer where the ABBYY FineReader Engine 9.0 License Server is installed. This option is required if PRTYPE=Server. Otherwise, it is ignored.

* - Each library module determines the license modules which must be available in a Runtime License, and resource files which will be installed. The license modules and resource files corresponding to each library module are listed in the table below:

Library module	The license modules which must be available in a Runtime License	The resource files which will be installed
ICR	Index, Handprinted, OMR	The files which are marked in the ABBYY FineReader Engine Distribution Kit as required for recognition checkmarks and handprinted text.
СЈК	Chinese, Japanese and Korean	The files which are marked in the ABBYY FineReader Engine Distribution Kit as required for recognition of Chinese, Japanese and Korean languages.
PDF	Open PDF	The files which are listed in the ABBYY FineReader Engine Distribution Kit: PDF section.
ScanMan		The files which are marked in the ABBYY FineReader Engine Distribution Kit as required for scanning.

Note: When you use silent mode, the /q option must precede the /v option, for example: setup.exe /q /v

For example

setup.exe /q /v MODULES=PDF,ICR SN=XXXX-XXXX-XXXX-XXXX

This command line will install (in silent mode) the PDF and ICR library modules into the C:\Program Files\ABBYY FineReader Engine 9.0 folder using the serial number XXXX-XXXX-XXXX-XXXX of the Standalone Runtime License. The hardware protection key will be used.

setup.exe /qb /v INSTALLDIR="C:\MyFolder" PRTYPE=File SN=XXXX-XXXX-XXXX-XXXX

This command line will install (in silent mode) all library modules into the C:\MyFolder folder using the serial number XXXX-XXXX-XXXX-XXXX of the Standalone Runtime License, a progress bar will be displayed, and the software protection key will be used.

Installing the Library in Manual Mode

To install the ABBYY FineReader Engine library in manual mode, please do the following:

• Copy files marked as "mandatory" in the table of the ABBYY FineReader Engine Distribution Kit section. They are system modules and main recognition databases.

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- Copy recognition databases for handprinted text, if you want to recognize handprinted text.
- Copy resource files for interface languages that will be used in your application.
- Copy dictionary support files for recognition languages that your application will support. If the recognition languages include languages with the Latin alphabet, make sure that you copy the Univers.amd and Univers.amm files.
- Copy and run the TrigrammsInstaller.exe file to create *.amt files and the {*}.amd files.
- Copy scanning modules, scanning-specific resources and Twain modules if your application will perform scanning via the ABBYY FineReader Engine interface.
- Copy Visual Components modules and corresponding specific resources, if your application uses ABBYY FineReader Engine Visual Components. Register VisualComponents.dll using regsvr32.exe.
- Copy the Local License Manager utility.

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Important! Never redistribute ABBYY FineReader Engine type library and files with API description (FREngine.tlb, FREngine.h, FREngine_i.c).

Activation of a Standalone Runtime License

General

The Standalone Runtime License is required if you want to run locally an application which uses ABBYY FineReader Engine 9.0 library on a single computer. This license supports a hardware or software protection key.

If you choose the hardware protection key, you have to bundle a hardware protection key with each of your application. Hardware protection keys can be purchased from ABBYY's authorized resellers. To be able to work with hardware protection key you need to include the installation of the Hardware Key drivers into your application's installation procedure. The Hardware Key drivers are supplied with ABBYY FineReader Engine 9.0 and may be distributed along with other ABBYY FineReader Engine 9.0 files allowed for distribution. The hardware protection key must be plugged into a USB port.

If you choose the software protection key, you need to provide a unique Runtime Serial Number with each copy of your application. The Runtime Serial Numbers can be purchased from ABBYY's authorized resellers. A special License Manager utility supplied by ABBYY as an integral part of ABBYY FineReader Engine 9.0 is used to the Runtime Serial Number activation.

For activation of a Standalone Runtime License you will need to use one of the variants described in the table below. The selection depends on the type of your protection key and the mode of the ABBYY FineReader Engine library installation.

Protection	Mode of Library Installation			
ксу	Automatic	Manual		
software	 Run the Local License Manager utility. Activate a license. 	 In the FREngine.ini file, specify the protection type: [Protection] ProtectionType=File Run the Local License Manager utility and activate a license. 		
hardware	Activation is not required	 Copy the ikeydrvr.exe file into the\USB Drivers subfolder of your application root folder in the case of a 32-bit system, or\USB Drivers\64 subfolder in the case of a 64-bit system. Install the Hardware Key driver (see Installing Hardware Key Drivers in the help for details). In the FREngine.ini file, specify the protection type: [Protection] ProtectionType=Hardlock 		

Local License Manager Utility

The Local License Manager utility (FREngineLM.exe) allows you to manage Developer's and Standalone Runtime licenses. In the ABBYY FineReader Engine 9.0 Local License Manager dialog box you can add, remove, activate, deactivate and view license properties. Several licenses can be added in this dialog box.

The Local License Manager utility (FREngineLM.exe) is installed together with the ABBYY FineReader Engine 9.0 Developer License. This utility is accessible through: Start>Programs>ABBYY FineReader Engine 9.0>License Manager or in the \Bin folder. This utility may be distributed along with other ABBYY FineReader Engine 9.0 files allowed for distribution and may be used for activation Standalone Runtime Licenses. The Local License Manager utility has an English User Interface only. Developers can either use the Local License Manager utility via command line to create their own registration utilities.

ABBYY FineReader Engine can also be activated from the command line.

ABBYY FineReader Engine 9.0 Local License Manager dialog box

V	ABBYY Fine	Reader Engine S	0.0 Local Lice	nse Manager						
	Build: 9.0.1.472									
	Serial number	License type	Status	Volume limit	Volume remains	Units	Period	Protection		
	FEDC-9011	Custom Developer	Activated	10000	10000	Pages	Month	File		
	Properties	Add new	Activate	Deactivat	e Update.					
									Refresh	Close

The following information about your ABBYY FineReader Engine 9.0 license is available in the ABBYY FineReader Engine 9.0 Local License Manager dialog box:

Column	Description
Serial	The ABBYY FineReader Engine 9.0 serial number.
number	
License type	The license type. For Developer's licenses the type of the license or the type of the emulated license is displayed depending on the license status.
Status	 • Not activated – The license is not activated.
	 Activated – The license is activated and the program can be used on the current computer. Emulated – The Developer's license is used in the Emulation mode. Expired – The license is expired. Exhausted – No more units can be processed during the current period. Blocked: time rollbacked at – The license is blocked because of the system date was changed.
	 Blocked: VM is not allowed – The license is blocked as the license with a software protection key cannot be used on virtual machine. Note: ABBYY FineReader Engine 9.0 with either Developer's or Standalone license can be used on virtual machine only if this license has a hardware protection key. When the license is being used on a virtual machine neither any other virtual machine nor host computer has access to this license.
Volume limit	The total number of units that can be processed under the license.
Volume remains	The remaining number of units that can be processed under the license.
Units	The volume units.
Period	The time limitation for use of the current volume: Hour Day Week Month Year
Protection	The protection type:

•	File – software protection key; Hardlock – hardware protection key.
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Buttons

• Properties...

Opens the License properties dialog box where you can view the license properties or select emulation mode for Developer's license.

• Add new...

Opens the **Enter serial numbers** dialog box. You can enter the serial number of the license or several serial numbers manually or from a *.txt file.

Enter Serial Numbers	
Enter the license serial number or several numbers sequentially. several serial numbers from a text file.	You can also load
Add a new serial number:	
	Add
	Add from file
Added serial numbers:	
	Remove
OK	Cancel

• Activate...

Starts the License Activation Wizard for ABBYY FineReader Engine 9.0.

• Deactivate

Starts the License Deactivation Wizard for ABBYY FineReader Engine 9.0.

Note: For not activated licenses this button is displayed as the **Remove** button and allows you to remove the license that has not been activated yet.

- **Update...** Starts the License Update Wizard for ABBYY FineReader Engine 9.0.
- **Refresh** Updates the license list.

Changing the Type of the Protection Key

If you want to change a software protection key to a hardware protection key, you must install the USB key driver from the ABBYY FineReader Engine 9.0 installation CD-ROM (**ABBYY FineReader Engine 9.0\USB Drivers\Ikeydrvr.exe** in the case of a 32 bit system, or **ABBYY FineReader Engine 9.0\USB Drivers\64\Ikeydrvr.exe** in the case of a 64 bit system)

License Properties Dialog Box of the Local License Manager

This dialog box displays the license properties. To open this dialog box, click the **License properties...** button of the Local License Manager utility.

Lic	ense Properti	es		
Cur	rrent mode:	 Developer 	ORuntime Emulated	Change Emulation
	icense properties			
	Description	า		<u>^</u>
	License type Protection type Serial number Status		Trial Developer File FEDT- xxxx-xxxx-x Activated	xxx-xxxx
	Limitations	5		
	Expiration date CPU core limit Volume limit Volume remains		30.09.2008 2 10000 pages 9943 pages	
	Languages	6		
	Standard (OCR/ Additional (OC Arabic Chinese, Japa FineReader X	ICR) E R) anese, Korean IX	All languages Not available Available Available	
	Hebrew Thai User OCR Langu	lages	Available Available Available	
	Supported	Fonts		
	OCR CMC-7 E13B Matrix Normal OCR A OCR B Typeuriter		Available Available Available Available Available Available	
				Copy to Clipboard
				OK Cancel

This dialog box provides information about your license and the mode of using the Developer's License (Developer/Runtime Emulated).

The following information about your ABBYY FineReader Engine 9.0 license is available:

- License type;
- Type of protection (software or hardware protection key);
- ABBYY FineReader Engine 9.0 serial number;
- Status;
- Expiration date for your ABBYY FineReader Engine 9.0 license;
- CPU core limit (the number of CPU core which can be used for recognition.);
- Volume limitation (maximum number of pages or characters that can be processed within the current period);
- Remaining number of pages or characters that can still be processed by the end of the current period;
- List of features that are allowed by your license (text types, export formats, additional modules, etc.).

License Activation

ABBYY is concerned about software piracy and takes measures to protect its intellectual property rights. Software piracy is detrimental both to software manufacturers and end users. When buying a legal software copy, users can be sure that

they obtain a quality product without any changes or alterations introduced by a third party. Illegal products are never safe.

For ABBYY FineReader Engine 9.0, a special protection technology is used to protect ABBYY products from illegal copying and distribution. This technology effectively excludes unauthorized use of ABBYY products by persons who have not signed a License Agreement with the software copyright owner.

If your License Agreement allows you to install your copy of the software only on one PC, any additional installations of the same copy on other PCs will constitute a breach of the License Agreement as well as of the copyright law of the Russian Federation. The activation technology controls the number of copies and prevents installing one licensed copy on an unlimited number of workstations. At the same time, the number of installations and activations on one and the same PC is not limited in any way whatsoever. The program will not operate unless you activate it.

How is activation carried out?

Activation takes very little time and is carried out with the help of an **Activation Wizard**. This wizard is built into the Local License Manager utility. The **Activation Wizard** has a friendly interface and is used for sending the necessary activation information to ABBYY. The same wizard is used for entering Activation File (*.frelf file) you receive from ABBYY during activation.

Activation information is sent as a code (**Installation ID**) which is generated on the basis of information about the computer on which the program is being installed. No personal information about the user or computer is used for generating this code and this code cannot be used for identifying the user.

Activation methods:

• Via the Internet

Activation is carried out automatically and takes only a few seconds. An Internet connection is required for this type of activation.

• By e-mail

The user needs to send an e-mail message generated by the program and containing information required for activation. To ensure a quick reply from the mail robot, do not alter the information in the message body or Subject field.

In the case of activation via the Internet, the whole process is carried out automatically.

In the case of activation by e-mail, the user needs to enter the Activation File received from ABBYY in the corresponding fields of the **Activation Wizard**.

Once the activation is complete, the program can be used on the current computer without any restrictions.

Reactivation

ABBYY FineReader Engine 9.0 can be reinstalled on one and the same computer an unlimited number of times without reactivation. However, if you make major upgrades, format your hard drive, or reinstall the operating system, an additional activation may be required.

Deactivation

ABBYY FineReader Engine 9.0 license can be deactivated. The deactivated license can be then activated on another computer. The number of allowed deactivations can be restricted by your license.

Deactivation takes very little time and is carried out with the help of a Deactivation Wizard. This wizard is built into the Local License Manager utility. During the deactivation the Activation File (*.frelf file) which you receive from ABBYY during activation is deleted. Any copy of this file cannot be used for activation again.

The deactivation can be performed only via the Internet. Deactivation is carried out automatically and takes only a few seconds. An Internet connection is required. Once the deactivation is complete, the license can be activated on another computer.

License update

If you have purchased additional modules or an additional amount of pages for ABBYY FineReader Engine 9.0 and your license does not allow you to use them, you need to update the license. The license update process is similar to the activation process. The update process is carried out with the help of the **Update Wizard** and can be performed via the Internet or by e-mail. Once the update is complete, the newest functionality of the program can be used.

Managing Licenses via the Command Line

The **Local License Manager** utility (FREngineLM.exe) is installed together with the ABBYY FineReader Engine 9.0 Developer License. The current version of the Local License Manager allows you to activate Developer's or Standalone Runtime License from the command line. The following command line parameters are supported:

Parameter	Action
/SilentActivation	Use this parameter to activate the license that corresponds to the serial number specified after /SN. If the /SN parameter is not used, the current license will be activated.
/SN= <serial number=""></serial>	Use this parameter to specify the serial number of the license to be activated. Specify the serial number in one of the following formats: FEXX-XXXX-XXXX-XXXX-XXXX.

/SaveActivationEMailToFile= <file name></file 	Use this parameter to save to file the text of the message generated by the program and containing the information required for activation of the number specified in the /SN= parameter or, if this parameter is not specified, the serial number is taken from the .ini file.
/LoadActivationFile= <file name=""></file>	Activates the serial number by loading the Activation File.

When launched from the command line, the Local License Manager may return the following return codes:

Return code	Description
0	No errors.
1	Invalid serial number.
2	The serial number has been already activated.
3	Unable to activate the serial number via the Internet. Try to activate it by e-mail.
4	The serial number cannot be activated. The number of activations for this serial number is exhausted.
5	The license cannot be activated because hardware protection is used for your copy of the program. The license with hardware protection needs no activation
6	The specified file has not been found or is unavailable.
7	Unknown file format.
10	Unable to find the resource modules.
11	Unable to save to file the text of the activation request.
12	Unknown command line parameter.
13	The parameters in the command line are incompatible.
14	The Local License Manager is already run. Only one instance of the Local License Manager can be run simultaneously.
15	A deactivated license cannot be activated by e-mail.
16	Failed to activate the license.

Technical Support

If you have any questions about how to install and use ABBYY FineReader Engine 9.0 to which you cannot find answers in this System Administrator's Guide, please contact the ABBYY technical support service or our partners. For contact information, please refer to the "Support" section at **www.abbyy.com** or to ABBYY FineReader Engine 9.0 help.