



IMiS[®]/Scan & IMiS[®]/View
Manual

Version 10.4.2310

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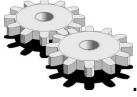
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Symbols Used in the Manual



..... Tips and Shortcuts



..... Instructions for Advanced Users

1 ABOUT THE MANUAL

This user manual describes the functionalities of the IMiS[®]/View and IMiS[®]/Scan software products. Most of the functionalities are the same for both products, which is why the descriptions have been combined into a single user manual.

1.1 About IMiS[®]/Scan and IMiS[®]/View products

IMiS[®]/View is a software product for viewing and digitally signing all of the important graphics file formats (TIFF, PDF, JPG, GIF, BMP etc.).

It enables the viewing of all image files which have been compressed using the standard CCITT G3/G4, LZW, JPEG, JPEG2000, JBIG and ZIP algorithms, and has been adapted for viewing multi-page documents.

IMiS[®]/Scan is a software product for scanning black-and-white, gray and color documents, and for viewing and digitally signing documents. It supports the standard scanning formats (multi-page TIFF and PDF) and the viewing of all the important graphics file formats (TIFF, PDF, JPG, GIF, BMP etc.). The online settings of the scanning profile (resolution, color depth, brightness, sharpness, patterning, two-page scanning) facilitate the efficient scanning of paper documents of various readabilities and quality levels.

IMiS[®]/Scan+ is a software product that, in addition to all the functionalities of IMiS[®]/Scan, also enables IP (image processing) filters to improve the processing of images (automatic alignment, rotation, noise reduction, automatic brightness adjustment, erasing empty pages, etc.) and the detection of documents in the process of scanning.

IMiS[®]/Scan++ is a software product that, in addition to all the functionalities of IMiS[®]/Scan+, also enables optical character recognition (OCR) and immediate conversion of scanned documents into a textual form.

1.2 Chapters solely for IMiS®/Scan users

In order for the user manual to be clearer, chapters are listed which contain merely the functionalities of IMiS®/Scan and are therefore not intended for IMiS®/View users.

The IMiS®/View application is the same as the IMiS®/Scan application but without scanner settings and the scanning option.

Chapters which are intended solely for IMiS®/Scan users are [Product setup](#) and [Scanning](#) and [Setting options – Scan](#).

1.3 New functionalities in this version

We have implemented the following new functionalities and improvements to the previous certified version 10.3.2210 of the IMiS®/Scan and IMiS®/View module:

Improvements:

- Improved display of scaled Pallette color images.
- The “Crop” operation works on rotated and mirrored pages.

2 GENERAL ON SCANNING DOCUMENTS

2.1 Methods of scanning documents

Scanning is the converting of documents in paper form into a digital data file for the purpose of viewing and saving to storage media. Paper documents can be captured using specialized scanners, multifunction devices or digital cameras.

A scanner is still the most suitable for capturing larger quantities of paper documents.

A scanner can be connected locally or via a computer network.

Based on our experience in scanning, it is recommended that you connect the scanner locally.

2.2 Connecting a scanner

In order to successfully convert paper documents into digital form, you need software in addition to hardware (scanner and computer).

In order for various scanners and the IMiS®/Scan software product to successfully scan paper documents, you must take into account the preset protocols or standards for connecting and transferring digital contents. The best-known standards are ISIS, TWAIN and WIA.

ISIS

ISIS (Image and Scanner Interface Specification) is an industrial scanner interface.

It was developed by Pixel Translations in 1990. Today this standard is owned by the OpenText Corporation, which sees to its development and use. Any scanner manufacturer may develop its own ISIS drivers, but must obtain a certificate of compatibility with the ISIS standard from OpenText. In doing so, it must pay a license fee to OpenText. In general, all production scanners use ISIS drivers.

TWAIN

TWAIN (Tool Without An Important Name) is a free scanning application programming interface. It was the first standard to enable the connecting of software to various scanners. The development of this standard is overseen by a consortium of large scanner manufacturers called TWAIN Working Group.

A downside to this standard is that the user interface is integrated into the TWAIN driver, which makes it harder to implement the driver. Another problem is the long waiting periods for innovations. Generally speaking, low-cost scanners use only the TWAIN driver.

WIA

WIA (Windows Imaging Architecture) is a driver and API, developed by Microsoft. It only works on the Windows operating system. The entire development of the driver is tied to Microsoft's objectives and does not really take into account the demands of scanner developers.

2.3 Scanning resolution and quality

Scanning works on the principle of detecting light reflected off paper or picture.

The entire surface of the sheet is divided into small pixels. Each pixel is determined by its position, brightness level and color (color scanning). Resolution is the number of pixels per unit of length.

It is usually written down as number of dots per inch (dpi).

A document which is divided into more pixels has better resolution and consequently its conversion into digital form is of higher quality. The scanning resolution is conditioned by the scanner technology. Scanners support a resolution from 100 to 1600 dpi. For the needs of archiving a non-image document, a resolution of 300 dpi is sufficient.

Scanning with a resolution of under 200 dpi may result in unreadable conversion of archived documents. Scanning with more than 300 dpi is sensible if the original text on paper is of poorer quality or when you wish to convert an image of a document into digital form with very high resolution.

2.4 File compression and size

When scanning, a dot on paper is being copied to a digital memory unit.

In the case of black-and-white copying this unit is 1 bit, while in the case of gray or color copying it can be a byte or bytes. The quantity of color or level of brightness which is captured with a scanner is called color depth. Greater color depth gives a broader range of various colors and consequently means greater memory usage. The first row in the table below gives an example of how color scanning can use up to 15 MB of memory.

Color depth	Black & white (1 bit)	Gray (8 bit)	Color (24 bit)
none	475 KB	5 MB	15 MB
CCITT G3	85 KB	x	x
CCITT G4 T6	45 KB	x	x
JBIG	36 KB	x	x
JBIG 2bit	x	84 KB	x
JBIG 3bit	x	165 KB	x
JBIG 4bit	x	420 KB	x
Packed bits	109 KB	5 MB	15 MB
LZW	75 KB	3.2 MB	x
ZIP	56 KB	3 MB	9 MB
Wang JPEG	x	315 KB	363 KB
Sequential JPEG	x	315 KB	360 KB
Progressive JPEG	x	310 KB	334 KB

Such quantities of obtained digital data may cause problems with the data transfer speed from the scanner to a computer or a lack of space on the storage medium.

For this reason, digital data is compressed. The above table shows which compression methods are suitable for each color depth. Generally speaking, compression methods are divided into "lossless" and "lossy".

Lossless Data Compression

The algorithms of methods in this group look for repeated strings in the digital document and shorten them without losing data. The quality of the scanned document prior to compression remains the same after the data is decompressed. The characteristic methods of this group are G4 T6, LZW and ZIP compressions.

Lossy Data Compression

A characteristic of the algorithm in this group is the removal of unimportant data from scanned documents and assigning similar pixels in the document to a common denominator (e.g.: it changes various shades of a blue sky into a single color for the entire range of blue shades).

Thus, the original digital image is modified and the display quality is reduced.

The decompressed image no longer matches the original. A representative of this group is JPEG compression. Repeated compressing and decompressing of an image may significantly affect the quality of a scanned document.

Black-and-white scanning is sufficient for the majority of documents, which is why we do not recommend scanning in gray or color. The majority of scanners intended for document capture uses advanced methods and filters for graphic processing, which ensures the optimum quality of scanned documents.

We recommend that you use lossless compressions for scanning text documents, and compressions from the JPEG family for image documents. For image documents which must preserve their source file you can likewise use the lossless compression method.

2.5 Recording of scanned documents

The recording of scanned documents to a storage medium is executed in preset file formats. There are different types of file formats; however, not all are suitable for a specific type of document.

In general, file formats are divided into single-page and multi-page. In addition to a digital record of the document, all formats store additional information about the document in their structure.

Single-page formats

Single-page formats are capable of recording only one page to a file. They are used for saving images and are suitable for the further processing of scanned images. The best-known formats in this group are BMP, PNG and JPEG.

BMP

BMP (Bitmap File Format) format enables the saving of digital images of random height and width in various resolutions and color depths. This format was developed by Microsoft to be used in its applications and the Windows operating system. The fact is that this format is well documented and patent-free, which is why it is present in all image processing programs. A flaw of this format is that it does not support data compression and therefore the files take up a lot of space on the storage medium. This format is not recommended for saving scanned documents.

JPEG

JPEG (Joint Photographic Expert Group) format was created in 1992 as an ISO standard for describing the procedure of compressing an image into a byte stream. A characteristic of this format is that the compression of the digital image affects the image display quality. The greater the compression level, the smaller the file and, consequently, poorer image quality when decompressed. The JPEG format gave rise to other versions of file formats for image recording: JBIG, JPEG 2000, sequential JPEG and progressive JPEG.

This format is recommended for saving digitized photographs and images which contain many shades of color.

Scanned text documents which contain sharp contrasts between adjacent pixels are not suitable for being saved in this format.

Multi-page formats

Multi-page formats enable the recording of multiple pages into a single file. The best-known representatives are the TIFF and PDF formats.

TIFF

TIFF (Tagged Image File Format) format began to be developed in 1986 for the purpose of standardizing the saving of scanned documents from various scanners. It aimed to provide high functionality of various scanners and simplicity in exchanging scanned documents among various applications. It was designed for use in "desktop publishing". The format's structure enables the recording of various metadata about the document, in addition to the compressed digital document. The structure of metadata can be preset and known to many applications or merely to those which enable the displaying of said information. The entire file is dissected into identifiers, with each identifier being either a digitally converted document or information about the document (compression method, document size, resolution, color depth etc.). This format is present in all applications that are used for capture.

Since 2009 the format has been owned by Adobe System, which sees to its upgrades and modifications.

PDF

PDF (Portable Document Format) format began to be developed in 1993 by Adobe System. Its purpose was to create a file format that would be portable between all file systems and applications. It was to represent a universal format for saving all kinds of computer-generated content. It was to be used for saving text products, images in vector or raster graphics and the other audio-video content. The PDF format enables the saving of a document in its entirety. Since its beginnings, the format has seen many upgrades and modifications. One version of the PDF format has become an ISO standard for the long-term archiving of computer-generated content (PDF/A). The PDF/A format guarantees the same content and appearance in various operating systems and applications.

3 TECHNICAL DOCUMENTATION

3.1 Table of valid compressions for different types of files

Not all file formats support all compression methods for all color depths.

IMiS®/Scan supports all the known image file formats, of which the most commonly used are TIFF, PDF, JPEG, GIF, PNG and BMP. However, it saves only in a multi-page image format, i.e. TIFF or PDF/A.

Table of valid compressions for saving files:

Color depth	Black & white (1 bit)	Gray (8 bit)	Color (24 bit)
None	TIFF	TIFF	TIFF
CCITT G3	TIFF, PDF/A		
CCITT G4 T6	TIFF, PDF/A		
JBIG	TIFF		
Packed bits	TIFF		
LZW	TIFF	TIFF	TIFF
ZIP	TIFF, PDF/A	TIFF, PDF/A	TIFF, PDF/A
Wang JPEG		TIFF	TIFF
Sequential JPEG		TIFF	TIFF
Progressive JPEG			TIFF

For rendering documents, we recommend black-and-white color depth using a CCITT Group 4 compression method. The file format can be TIFF or PDF/A, which both ensure long-term archiving. If you wish to capture colors in a document without losing the quality of the scanned image, choose the ZIP compression method and the PDF/A file format. Some of the older viewers of TIFF files do not support ZIP, JBIG and LZW compression methods; hence documents which have been compressed using these methods cannot be displayed.

3.2 Location for saving documents

A scanned document must be saved to a storage medium for later use and viewing.

IMiS®/Scan uses a file system for saving scanned documents.

The scanned document can be saved to a local disk, a network medium or external units (USB flash drive, external hard drive).

Prior to saving them, all scanned documents must be named manually and the correct save location must be chosen. A document saved in this manner can be viewed subsequently in other programs that display files recorded in one of the IMiS®/Scan file formats.

In this case the security level and access rights of individual users to these documents are set at the level of the Windows operating system rights.

IMiS®/Scan which is activated within another application provides the option of saving directly to the IMiS®/ARChive Server. The entire saving procedure is automated. The user does not have to worry about naming the scanned document and the save location. A document saved in this manner is not visible in the file system and can be accessed only by another application. Moreover, the level of security and access rights to these documents can be set in another application, independently of the user rights of the Windows operating system.

The rights to individual operations in IMiS®/Scan can also be set (e.g.: editing of already saved scanned documents is disabled in IMiS®/Scan).

3.3 Annotations in a document

Scanned documents in digital form can be subsequently added various visual notes or bookmarks. The most common are text and image stamps.

Despite the fact that they are saved to the same file as the scanned document, subsequent annotations are not a part of the scanned document and can be removed.

Should you wish for the annotations to be a part of the scanned document, you can merge them with the scanned document. Merging annotations with a document modifies the document, which is no longer the original scanned document, but a new version of the document.

3.4 Digital signing of a document

In addition to viewing scanned documents, many applications also enable their modification.

A slight change to the metadata of a scanned document gives us a new version of the document. Even if the change is not visible in the image of the scanned document, it can provide the user with different information about the very document (e.g. a change to the record of the author of the document may give wrong information about the original creator of the scanned document).

In order to avoid all changes to the scanned document, it must be digitally signed prior to saving. Before using an digital signature, you must obtain a digital certificate, with which you identify yourself in the digital world.

The digital certificate must be issued by a trusted public certification authority.

A digital signature links the digital certificate data with the contents of the scanned document.

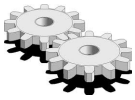
This creates a uniform string of data, which is added to the scanned document file.

The digital signature proves the authenticity and identity of the scanned document.

IMiS®/Scan enables the saving of digitally signed documents only in the TIFF and PDF file formats; only the signature in the PDF format is standardly supported in other PDF viewers as well. The recording and verification of an digital signature in a TIFF file is a procedure which is integrated into the IMiS® software product family.

When showing a signed document, the validity of the scanned document contents and digital certificate is verified. In the case of a digital certificate, the following is verified:

- expiration date of the certificate;
- whether the issuer has revoked the certificate;
- whether the contents of the certificate have remained unchanged.



Digital signing of documents is based on asymmetric cryptography.

Each user signs a document with his or her private key. This private key is known only to the user and is saved in his or her digital certificate.

The digital certificate is issued, together with the private key, by a trusted public certification authority.

The certificate contains data which uniquely describes the person who owns the certificate. It also contains a public key which is used to verify the authenticity of the signed document.

When a user signs a document, data about the digital certificate is also saved to the document, but without the private key. Only the public key is saved.

The recipient of the signed document uses the signer's public key to verify the validity of the document. A valid signature proves that the signer is in fact the person who has signed the document. During the verification process the validity of the signer's digital certificate is also verified.

The result of the verification of a digital signature is also displayed to the viewer of the signed scanned document visually.

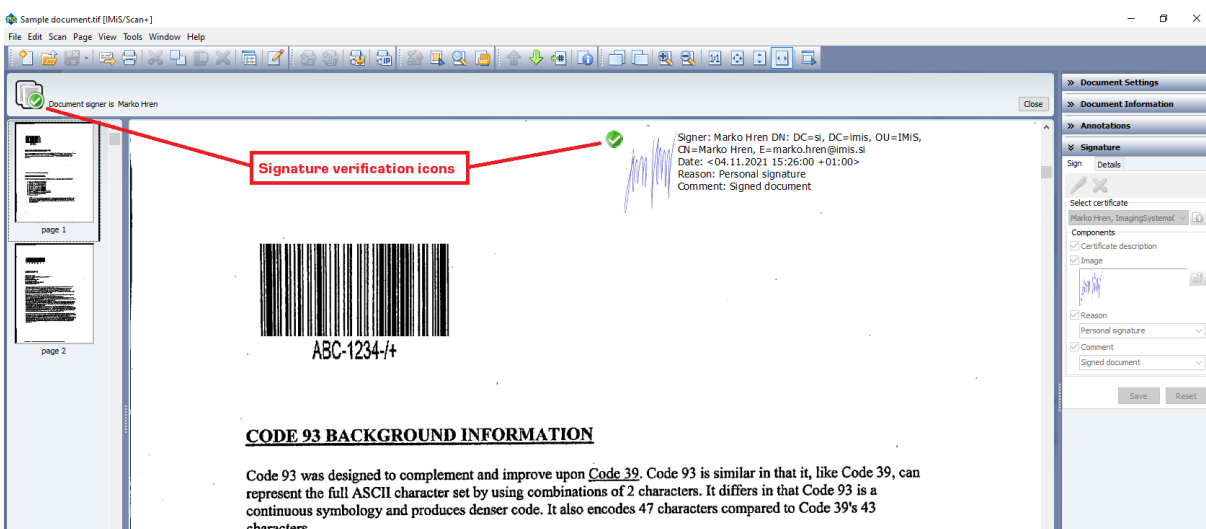


Image 1: Displayed result of verifying the digital signature

4 SYSTEM REQUIREMENTS

4.1 Hardware

Most of the computers that can be bought on the market today meet the requirements of the IMiS®/Scan application.

4.1.1 Minimum requirements

- Intel Core i3 6 Gen processor;
- 2GB RAM;
- 200MB unused disk capacity;
- network access using the TCP/IP protocol (IPv4 or IPv6);
- USB connection to the scanner. All ISIS-compatible scanners are supported.

4.1.2 Recommended requirements

- Intel Core i5 6th Gen processor or more recent;
- 4GB RAM or more;
- 1GB unused disk capacity;
- network access using the TCP/IP protocol (IPv4 or IPv6);
- USB 3.0 connection to the scanner. All ISIS-compatible scanners are supported.

4.2 Software – Operating system

The IMiS®/Scan application works on a 32-bit or 64-bit Windows operating system.

List of supported versions of Windows operating systems:

- Windows 11 2H22 or later;
- Windows 10 2H22 or later.

5 INSTALLATION

IMiS®/Scan installation can be performed with a setup wizard as administrative installation or "silent" installation. In any case, the displayed notifications and dialog boxes are in English.

5.1 Installation with the wizard

Below is a description of the IMiS®/Scan installation procedure using the wizard.

The installation can be performed by a user with administrator rights and in an environment, that meets at least the minimum installation requirements. The minimum requirements can be upgraded in accordance with the predicted needs. For more information see chapter Software – Operating System.

Installation commences when launching the installation package from the file system.

Example of the name of an installation package:

IMiS.Scan.10.4.2310.Full

The introductory dialog box appears:

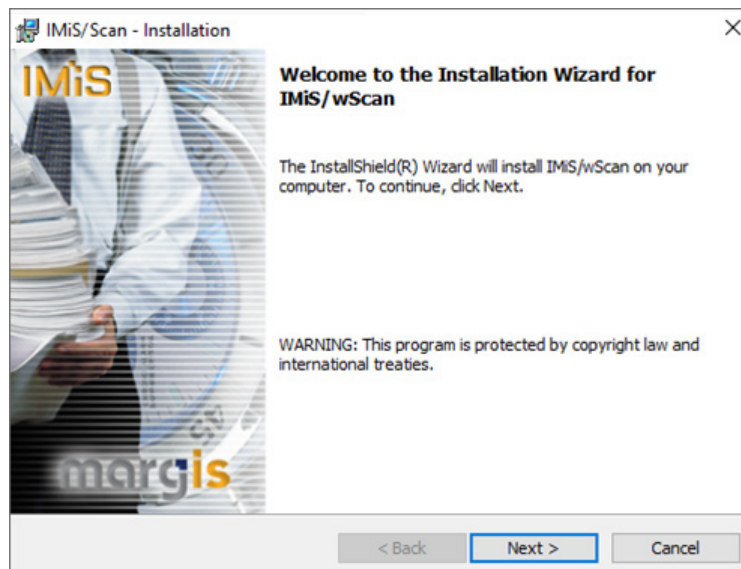


Image 2: Beginning the IMiS®/Scan installation procedure

At any point during the installation procedure you can abort the procedure by clicking on the "Cancel" button.

A dialog box appears in which you can either abort or continue the installation. All the files and settings installed in the Windows registry until then are deleted.

By clicking on the "Back" button, you return to the previous installation step.

By clicking on the "Next" button, you continue with the next step.

In the next step read the terms of the license agreement carefully. If you agree with them, select "I accept the terms in the license agreement" and thus fully accept the license terms. If you do not agree with the license terms, select "I do not accept terms in the license agreement" and by clicking on the "Cancel" button cancel the installation procedure.

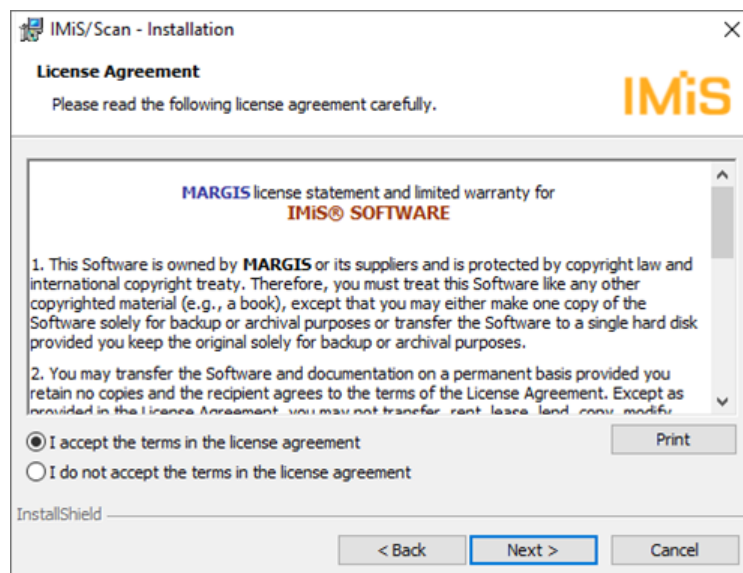
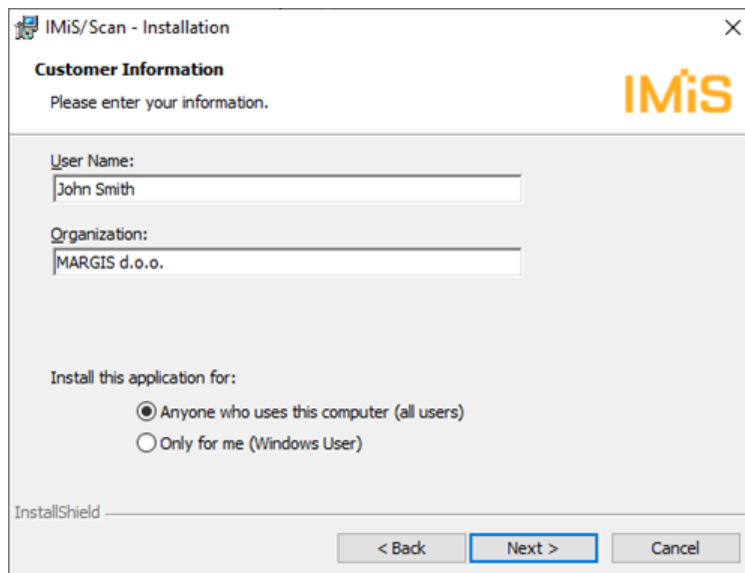


Image 3: Reviewing and accepting the license agreement

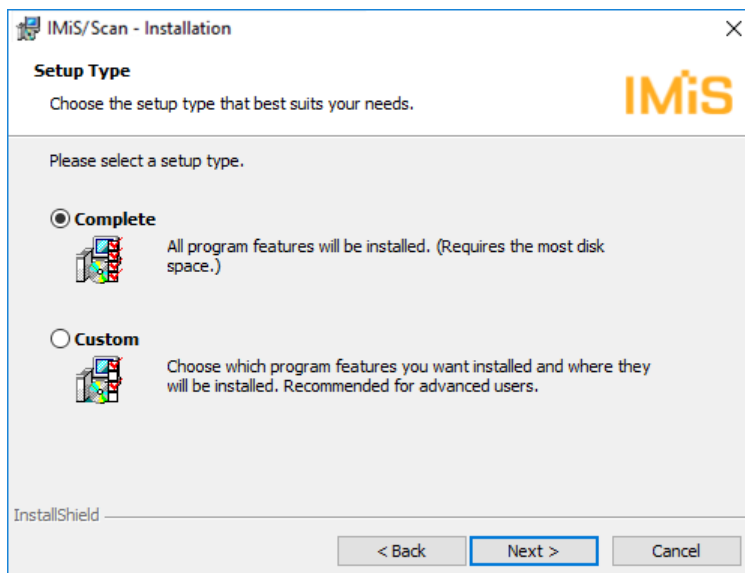
Continue by entering the username and organization. Select whether the application will be installed only for the current user ("Only for me") or for all users on this computer ("Anyone who uses this computer").



The image shows a Windows-style dialog box titled "IMiS/Scan - Installation". The main heading is "Customer Information" with the instruction "Please enter your information." and the IMiS logo in the top right. There are two text input fields: "User Name:" containing "John Smith" and "Organization:" containing "MARGIS d.o.o.". Below these is a section "Install this application for:" with two radio button options: "Anyone who uses this computer (all users)" (which is selected) and "Only for me (Windows User)". At the bottom, there are three buttons: "< Back", "Next >" (highlighted with a blue border), and "Cancel". The text "InstallShield" is visible in the bottom left corner.

Image 4: Customer information dialog box

In the next step select between full installation ("Complete") or user-customized installation ("Custom"). Full installation will install all the files in the installation package to the file system.



The image shows a Windows-style dialog box titled "IMiS/Scan - Installation". The main heading is "Setup Type" with the instruction "Choose the setup type that best suits your needs." and the IMiS logo in the top right. There are two radio button options: "Complete" (which is selected) and "Custom". The "Complete" option includes a small icon of a computer and the text "All program features will be installed. (Requires the most disk space.)". The "Custom" option includes a small icon of a computer and the text "Choose which program features you want installed and where they will be installed. Recommended for advanced users." At the bottom, there are three buttons: "< Back", "Next >" (highlighted with a blue border), and "Cancel". The text "InstallShield" is visible in the bottom left corner.

Image 5: Choice between complete and custom installation

If you have selected the user-customized installation, a dialog box will appear in which you select the IMiS®/Scan modules to be installed.

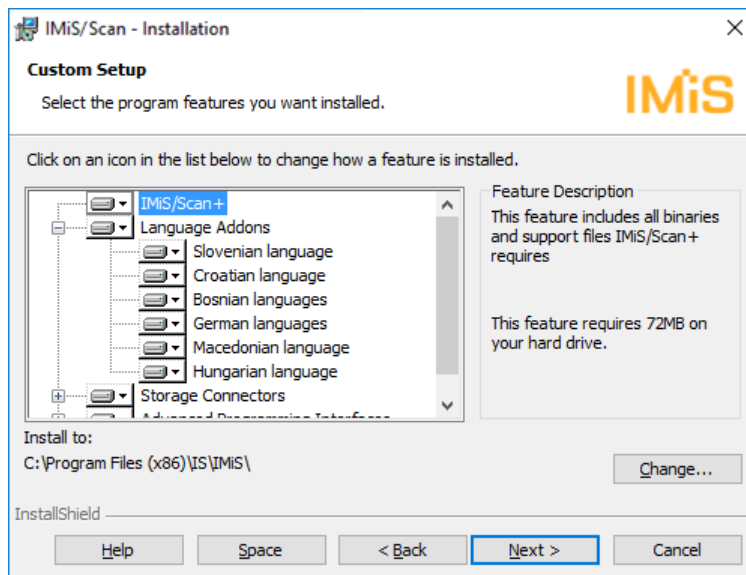


Image 6: Selecting the elements and location of IMiS®/Scan installation

By clicking on the "Change" button, you can customize the installation location for the IMiS®/Scan software product.

By clicking on the "Space" button, a dialog box appears containing a list of all disks, their sizes and free space on each disk. The disks that do not have enough free space for installation are marked.

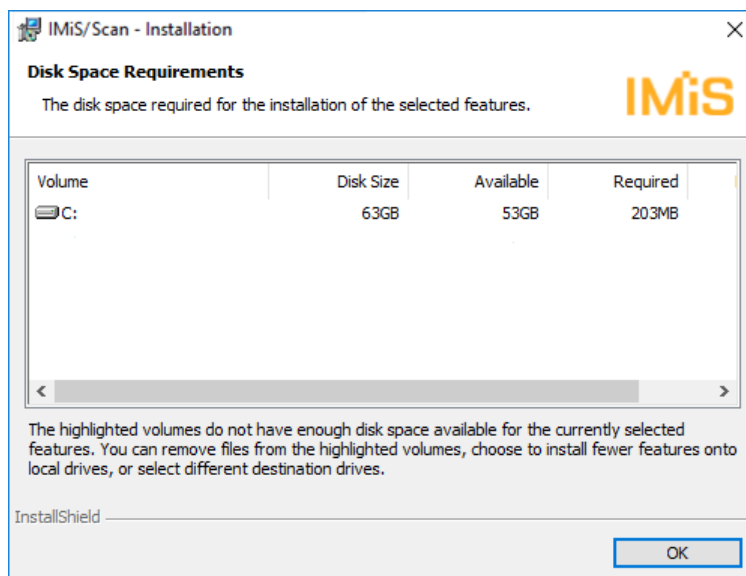


Image 7: Available disk space information

Under the "Language Add-ons" tree branch is a list of all languages into which the user interface of the IMiS®/Scan application has been translated. Translations into Slovenian, Croatian, Bosnian and German are available.

By removing these options, you lose the option of using the translated versions of IMiS®/Scan.

Under the "Storage Connectors" tree branch are modules for connecting to archive servers. If you do not install these modules, you will not have the option of saving and accessing these servers from the IMiS®/Scan application.

Modules are not installed only if IMiS®/Scan is being used as an independent application for scanning and the scanned documents are saved to a file system.

Under the "Advanced Programming Interfaces" tree branch is a list of options of connecting the IMiS®/Scan software product to other applications.

Installation is continued with the option of associating all TIFF files with the IMiS®/Scan application. This means that all files ending in ".tif" and ".tiff" are opened with the IMiS®/Scan software product.

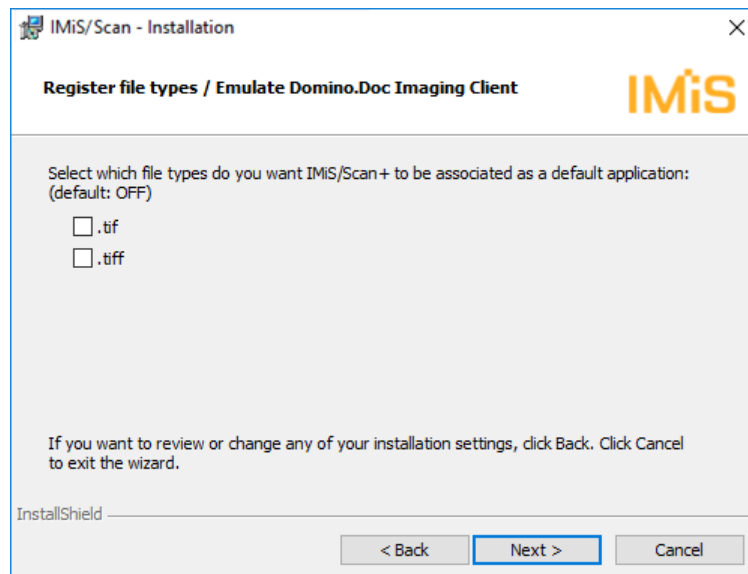


Image 8: Associating all TIFF files with the IMiS®/Scan

In the next step select the location of the scanner's initialization files, in which the settings of the selected scanner are stored.

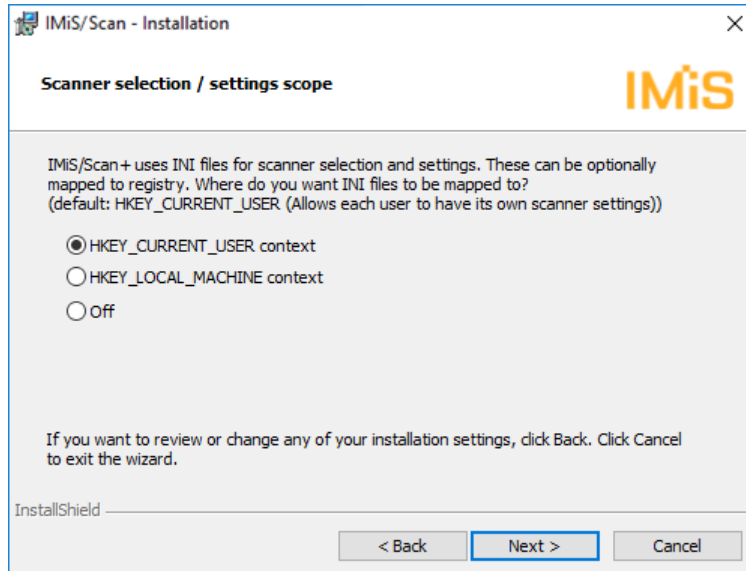


Image 9: Selecting the location of the scanner's initialization files

The initialization files can be saved to the Windows registry or to a file system.

You can choose between the following options:

- "HKEY_CURRENT_USER" enables every user to store his or her settings separately from other users. Changes to the scanner settings apply only to the current user.
- "HKEY_LOCAL_MACHINE" enables all users on this workstation to have the same scanner settings. Changes to the scanner settings apply to all users on this workstation. In order to change the scanning parameters, users must have additional rights.
- "Off" executes the installation of the initialization file to the file system. With this method the rights to individual initialization files can be set more thoroughly.

Example: Only one user on the workstation has the right to change scanner settings.

In the next step customize the displaying and adding of IMiS®/Scan shortcuts.

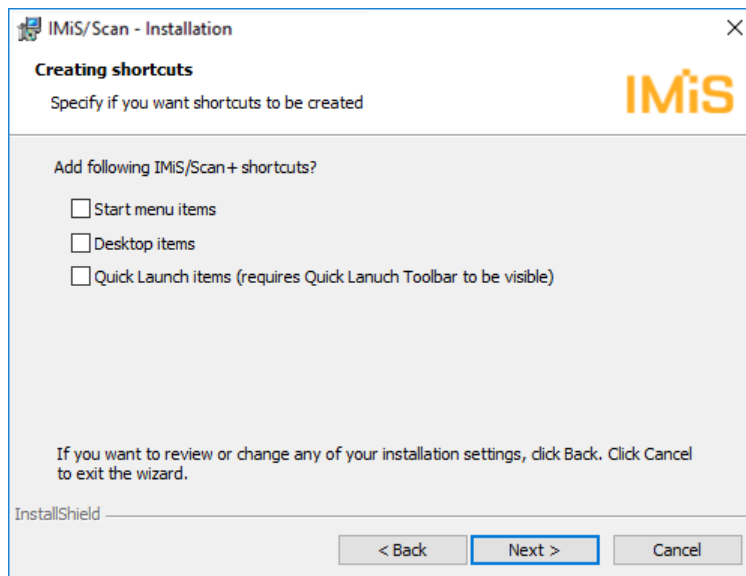


Image 10: Displaying and adding the IMiS®/Scan shortcuts

You can choose between the following options:

- "Start menu items" enables the display of the IMiS® icon in the "All Programs" menu;
- "Desktop items" installs the IMiS® icon on the desktop;
- "Quick Launch" displays the IMiS® icon in the quick launch taskbar.

The final step of the installation wizard is the confirmation of settings prior to installation by clicking on the "Install" button.

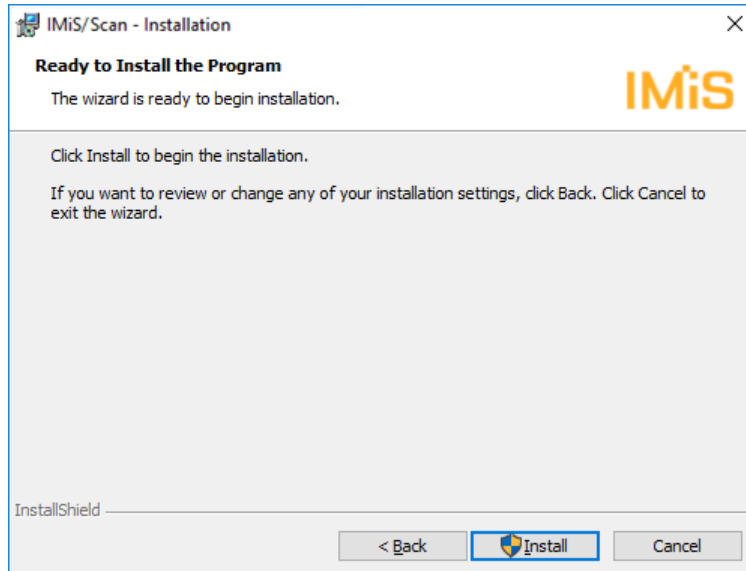


Image 11: Confirming settings prior to installation

The "User Account Control" dialog box appears, by clicking on the "Install" button. Clicking on the "Yes" button allows the user with administrative rights the installation.

The installation procedure for the IMiS®/Scan software product commences; the progress bar shows information about the transfer of files to the appropriate locations.

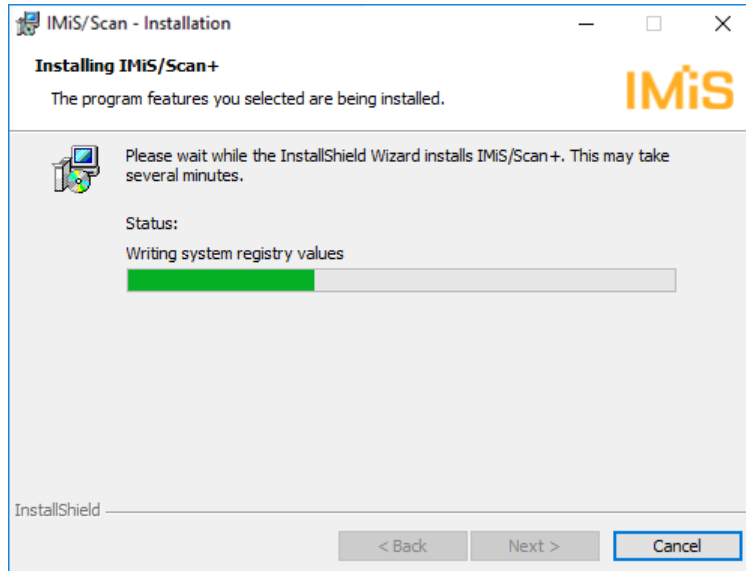


Image 12: The installation progress bar

Installation is complete when the last display box appears, which you close by clicking on the "Finish" button.

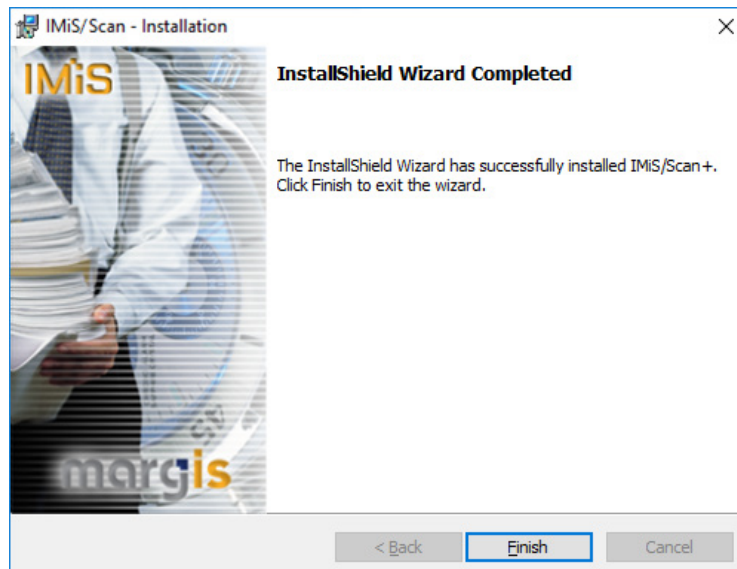
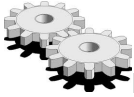


Image 13: Installation complete message

5.2 Administrative installation

For specific installations you need to manually specify the location of certain files and prepare appropriate records in the Windows registry.

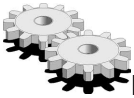


IMiS®/Scan uses the following default file folders for its installation:

- **"C:\Program files\IS\IMiS"** folder contains the executable file *imiscan.exe* with the corresponding language versions and the following utility libraries:
 - *imispdfa.dll*: module for working with the PDF file format;
 - *imislx.dll*: module for connecting to the HCL Notes client;
 - *IMiSW32ImagingClient.jar*: interface for JAVA applications;
 - *iarcli.dll*: module for connecting to IMiS®/ARChive Server;
 - *imisscan.<three-letter language code>*: library containing a translation in the language indicated by the three-letter code in the file extension.
- **"C:\Windows\System32"** folder contains the following utility libraries:
 - *imisapi.dll*: module for connecting IMiS®/Scan to another application via a C-API interface;
 - *imisjapi.dll*: module for connecting IMiS®/Scan to another application via a JAVA interface;
 - *imisl napi.dll*: module for connecting IMiS®/Scan to the HCL Notes application;
 - set of utility libraries for scanning and processing scanned documents (pix*.dll).
- **"C:\Windows\PixTran"** folder contains a driver for the installed scanner, modules for working with various image formats, modules for various compression methods, and drivers for converting between different file formats.

5.3 Silent installation

The IMiS®/Scan application can also be installed without user control. Installation is performed silently, without displaying the user interface. The installation is executed via the *msiexec.exe* utility program. This tool is a part of the Microsoft installation product and is used for performing various types of maintenance in applications that are installed in the Windows operating system.



For a full list of the supported functions of the *msiexec.exe* program, turn to the Microsoft article collection:

[http://msdn.microsoft.com/en-us/library/windows/desktop/aa367449\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/windows/desktop/aa367449(v=vs.85).aspx)

The utility program is executed from the command bar.

For a list of all parameters, turn to the Microsoft website:

[http://msdn.microsoft.com/en-us/library/windows/desktop/aa367988\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/windows/desktop/aa367988(v=vs.85).aspx).

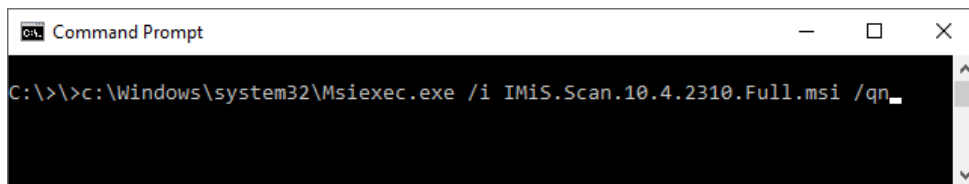
5.3.1 Installation procedure

Installation can take from ten seconds to two minutes, depending on the computer speed.

Example of a command bar for silent installation:

```
C:\Windows\system32\Msiexec.exe /i IMiS.Scan.10.4.2310.Full.msi /qn
```

Below is a command bar for the silent installation of IMiS®/Scan:



```
Command Prompt
C:\>>c:\Windows\system32\Msiexec.exe /i IMiS.Scan.10.4.2310.Full.msi /qn
```

Image 14: Command bar for the silent installation of IMiS®/Scan

The table below lists the various silent installation modes:

Command bar parameters	Description
/q, /qn	No user interface.
/qn+	No user interface with a modal window at the end of installation.
/qb	Basic user interface with a simple progress bar. The "/gb!" parameter is used to hide the "Cancel" button.
/qr	Simplified user interface without a modal window at the end of installation.
/qf	A full user interface with all the display boxes, a progress bar and error message at the end of installation.

Before launching the installation of the IMiS®/Scan application, you can specify various parameters that are specific to this installation. Add them to the end of the command bar using the syntax:

```
c:\windows\system32\msiexec.exe /i IMiS.Scan.10.4.2310.Full.msi /qn PARAMETER=VALUE
```


The table below describes the supported command bar parameters:

PARAMETER	Valid Values	Description
INSTALLDIR	<folder name>	This attribute contains the default destination folder for installation files. (Default value = "%PROGRAMFILES%\IS\IMiS\")
USERNAME	<username>	This attribute contains the username of the user performing the installation. (The default value is taken from system settings.)
COMPANYNAME	<company name>	This parameter adds the company name to the installation. (The default value is taken from system settings.)
REG_TIF	1	This parameter is used to inform the installation process to register the IMiS®/Scan application as the default viewer of .TIF files. (Default value=<not selected>)

PARAMETER	Valid Values	Description
REG_TIFF	1	This parameter is used to inform the installation process to register the IMiS®/Scan application as the default viewer of .TIFF files. (Default value=<not selected>)
SHORTCUT_START	1	This parameter is used to inform the installation process to create a shortcut in the "Programs" menu. (Default value=<not selected>)
SHORTCUT_QUICKLAUNCH	1	This parameter is used to inform the installation process to create a shortcut in the quick launch taskbar. (Default value=<not selected>)
SHORTCUT_DESKTOP	1	This parameter is used to inform the installation process to create a desktop shortcut. (Default value=<not selected>)
INI_MAPPINGS	1,2,3	This parameter is used to inform the installation process to copy INI files to the Windows registry. 1 - HKEY_CURRENT_USER 2 - HKEY_CURRENT_MACHINE 3 - OFF (uses INI files on the file system) (Default value=1)

5.4 Product upgrade


Prior to starting the upgrade, make sure that the IMiS®/Scan product is not currently active.

This can be done by checking if the IMiS® icon  is visible in the bottom right-hand corner of the taskbar. If the IMiS® icon is present, close all programs into which IMiS®/Scan has been integrated. This terminates the operation of IMiS®/Scan.

When a new IMiS®/Scan version is issued, individual users must perform an installation procedure for the new version. This procedure is carried out with the Installation Wizard and matches the procedure for product installation. During the upgrade procedure, the previous version of the product is automatically uninstalled.

All user settings and created documents are preserved. This is followed by the installation procedure for the new version.

5.5 Product removal

Prior to starting the removal, make sure that the IMiS®/Scan application is not currently active. This can be done by checking if the IMiS® icon  is visible in the bottom right-hand corner of the taskbar. If the IMiS® icon is present, close all programs into which IMiS®/Scan has been integrated. This terminates the operation of IMiS®/Scan.

The IMiS®/Scan product is removed from the computer by selecting the button “Start”, and finding the program “Control Panel” and the option “Programs and Features”.

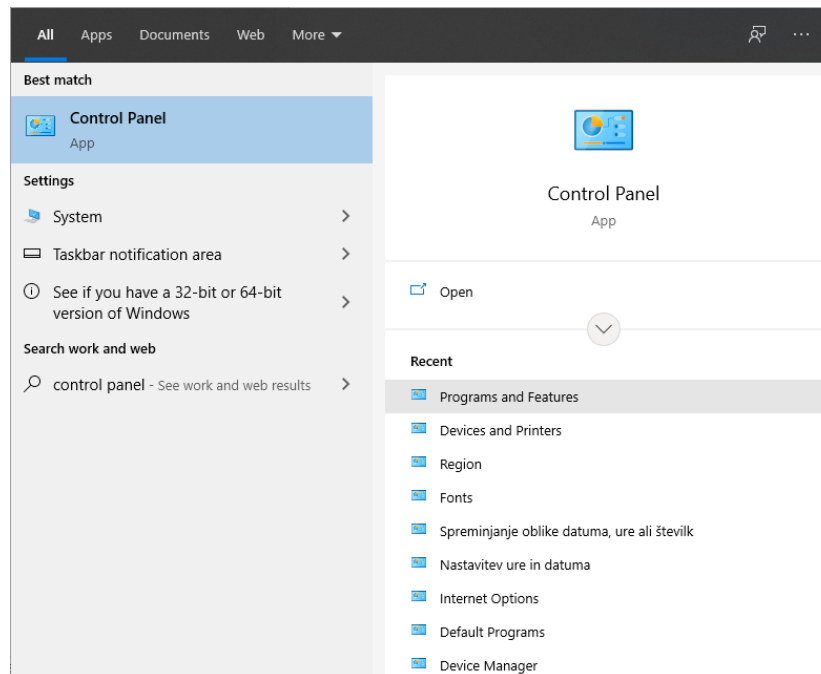


Image 15: Selecting the "Programs and Features"

By clicking on the "Uninstall" button, the "Uninstall Wizard" is launched. The removal procedure removes all files and settings created by the installation package. User settings and created documents are not deleted.

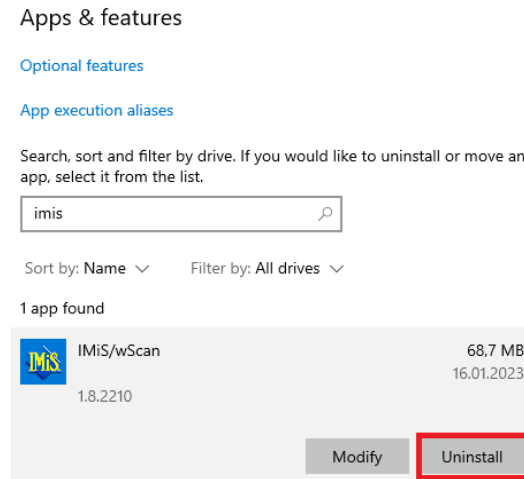
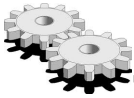


Image 16: Removing IMiS®/Scan

5.5.1 Manual product removal



"Manual" removal of all settings and files is also possible. Make sure that no other application for scanning or viewing images is installed on the computer which uses the same additional components as IMiS®/Scan.

The removal procedure goes as follows:

- make sure that IMiS®/Scan is not running;
- delete the `\Program Files\IS\IMiS` folder and all the files and subfolders of this folder;
- in the `\Windows` folder delete the files: `imis.ini` and `setscan.ini`. depending on the settings during installation, these files may not exist;
- remove the following files from the `\Windows\System32` folder: `imisapi.dll`, `imisl napi`, `odma32.dll` and `imisjapi.dll`. Depending on the settings during installation, some of these files may not exist;
- in the `\Windows\Prefetch` folder remove all files starting with `imis`.

The procedures described below are intended for the removal of additional components. The same components may be used by another application, so be careful.

Example: Capture Perfect 3.0.

The procedure for removing components goes as follows:

- remove the `\Program Files\Pixtran` folder and all the files in this folder;
- remove the `\Program Files\Common files\Pixtran` folder and all the files in this folder;
- remove the `\Windows\Pixtran` folder and all the files in this folder;
- in the `\Windows\System32` folder remove all files starting with `pix`.

Below are instructions for removing keys from the Windows registry. Open the "Registry" program, find the following keys and remove them:

- `HKEY_LOCAL_MACHINE\SOFTWARE\IS;`
- `HKEY_LOCAL_MACHINE\SOFTWARE\Pixel Translations;`
- `HKEY_LOCAL_MACHINE\SOFTWARE\Classes\IMiSClient.IMiSDocument;`
- `HKEY_LOCAL_MACHINE\SOFTWARE\Classes\IMiScom.IMiSDocument;`
- `HKEY_LOCAL_MACHINE\SOFTWARE\Classes\CLSID\{0E3DB9FB-1E76-4754-B585-0E50F4E7B4A9};`
- `HKEY_LOCAL_MACHINE\SOFTWARE\Classes\CLSID\{A7A7620F-010A-46D1-94D4-78CC3BB09AA5};`
- `HKEY_CLASSES_ROOT\CLSID\{20BD3A45-79BE-42C4-A4C8-369D7C41B830};`
- `HKEY_CLASSES_ROOT\CLSID\{20BD3A45-79BE-42C4-A4C8-369D7C41B831};`
- `HKEY_CLASSES_ROOT\IMiSClient.IMiSSession;`
- `HKEY_CLASSES_ROOT\IMiScom.IMiSSession;`
- `HKEY_CURRENT_USER\Software\IS;`
- `HKEY_CURRENT_USER\Software\Pixel Translations;`
- `HKEY_LOCAL_MACHINE\SOFTWARE\Classes\.tif\OpenWithList\imisscan.exe;`
- `HKEY_LOCAL_MACHINE\SOFTWARE\Classes\.tiff\OpenWithList\imisscan.exe;`
- `HKEY_LOCAL_MACHINE\SOFTWARE\Classes\.tif\OpenWithList\imisview.exe;`
- `HKEY_LOCAL_MACHINE\SOFTWARE\Classes\.tiff\OpenWithList\imisview.exe.`

A list of records whose contents must be changed:

- In the *HKEY_LOCAL_MACHINE\SOFTWARE\Classes\.tif* key replace the default value with the one written under the *HKEY_LOCAL_MACHINE\SOFTWARE\Classes\.tif\UndoClasses* key.
- In the *HKEY_LOCAL_MACHINE\SOFTWARE\Classes\.tif* key replace the default value with the one written under the *HKEY_LOCAL_MACHINE\SOFTWARE\Classes\.tif\UndoClasses* key.
- Under the *HKEY_LOCAL_MACHINE\SOFTWARE\Classes\.tif\OpenWithProgids* key, remove the *IMiS.Document* value.
- Under the *HKEY_LOCAL_MACHINE\SOFTWARE\Classes\.tif\OpenWithProgids* key, remove the *IMiS.Document* value.

6 PRODUCT MANAGEMENT

IMiS®/Scan can be managed by a root user or a user with limited rights. Changes to certain settings are not saved for a user with limited rights but remain the same as specified during the installation of IMiS®/Scan.

6.1 Launching the product

The IMiS®/Scan software product can be launched independently or as part of an application, to which it is connected via an API or COM interface. All IMiS®/Scan functionalities become available only when connected to another application.

6.1.1 IMiS®/Scan as an independent product


It is launched by clicking on the desktop icon or via the "Start" menu. Unless turned off in the settings, a splash screen appears briefly at start-up, containing information about the product version. The taskbar displays the IMiS® icon .



Image 17: The information about the product version

When launching IMiS®/Scan, the program checks whether another IMiS®/Scan instance is already running. If it is, the last instance launched is automatically aborted.

During the launching of the application, the following is executed:

- The default or last selected user profile, which is recorded in the *Active Profile* field in the Windows registry under the *HKEY_CURRENT_USER\Software\IS\IMiS\IMiSScan* key, is set. In the event that neither the default nor the last selected profile has been set, the installed default settings are used. For more information see chapter Setting the User Profile.
- The scanner driver is loaded. Its name is read from the *setscan.ini* settings file. The appropriate scanner driver is loaded from the *<Windows path>\PixTran* folder. Scanner settings are read from the Windows registry, namely from the *ScannerState* field in the *<path>\IMiS\IMiSScan\<profile name>* key. The driver is checked if working properly.
- The existence of a library for working with the PDF file format (*imispdfa.dll*) is checked.

During launch a user may encounter the errors described in chapter Launch Problems.

6.1.2 Integration of IMiS®/Scan into another application

The functionality of the IMiS®/Scan product can be integrated into any Windows or JAVA application.

Note: The application that integrates IMiS®/Scan via a JAVA interface must be run on a Windows OS.

Integration via a C-API solution is performed by invoking the supported functions in the *imisapi.dll* library. For this purpose, the *imisapi.dll* library must be installed in the *C:\Windows\System32* or *C:\Windows\SysWOW64* system folder.

Example of a code in a HCL Notes script:

```

C-API
...
DeclareFunctionIMiSScanPagesLib"IMiSapi.dll" (ByvalStoreTypeAsLong, ByvalStoreInfoAsString,
ObjIdAsString) AsLong
...
result& = IMiSScanPages(CIng(IMiSObjectSty&),StoreInfo,IMiSObjectID$)
If result& = 61523Then
  'in case of an error in the primary protocol, try another
  If StoreInfo2 <> ""Then
    result& = IMiSScanPages(IMiSObjectSty&,StoreInfo,IMiSObjectID$)
  EndIf
EndIf
...

```

Integration via a COM interface is performed by creating registered IMiS® COM objects and using their methods. Registration of IMiS® COM objects is performed during IMiS®/Scan installation.

Example of a code in VB script:

```

COM
...
SetIMiSApp =CreateObject("IMiSClient.Application")

'Connect to IMiS/Arc server
SetIMiSStorage = IMiSApp.OpenIMiSArcStorage("dev-iarc.imis.si", 16810, "Documents")

'Create new IMiS document
Set IMiSObj = IMiSStorage.CreateDocument

IMiSObj.Rights = -1

'Open IMiS window for modal scanning
Rez = IMiSObj.Scan(True)
...

```

Integration via a JAVA interface is performed by creating IMiS® JAVA objects that are implemented into the *IMiSW32ImagingClient.jar* Java library. A reference to this library must be included in the application into which IMiS®/Scan is being integrated.

JAVA

```
...
IMiSSession session = IMiSSession.getInstance();

//Connect to IMiS/Arc server
IMiSStorage arcStore = session.OpenIMiSARCStorage("192.168.92.2", 16810, "Documents");

'Create new IMiS document
IMiSDocument document = arcStore.getDocument();

document.setRights(IMiSDocument.RIGHTS_ALL);

'Open IMiS window for modal scanning
document.scan();
...
```

Below is an example of an integration of the IMiS®/Scan product into the HCL Notes application. The integration is performed partially using the C-API solution and a COM interface.

Note: For easier integration of IMiS®/Scan into HCL Notes the company Imaging Systems Inc. has created its own Notes interface. By installing the interface in your HCL Notes application, you can access the functionalities of IMiS®/Scan.

Example: Basic window in the HCL Notes application, into which IMiS®/Scan has been integrated.

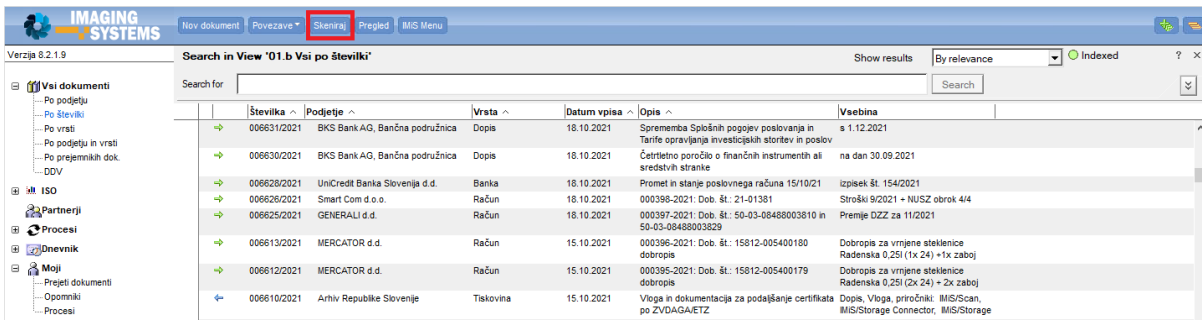



Image 18: Integracija IMiS®/Scan z aplikacijo

6.2 Scanner selection

Prior to using a scanner, you must install the suitable drivers. In the taskbar, right-click above the IMiS® icon () and select "Select scanner" from the menu.

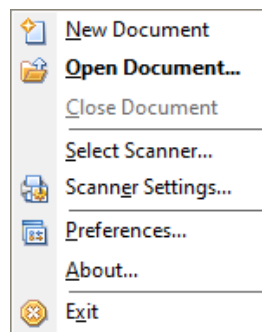


Image 19: Selecting the "Select scanner" command

A dialog box for selecting a scanner appears ("Scanner Selection"). Selection of a scanner is tied to the scanner driver, which is why all the notifications and the user interface are in English.

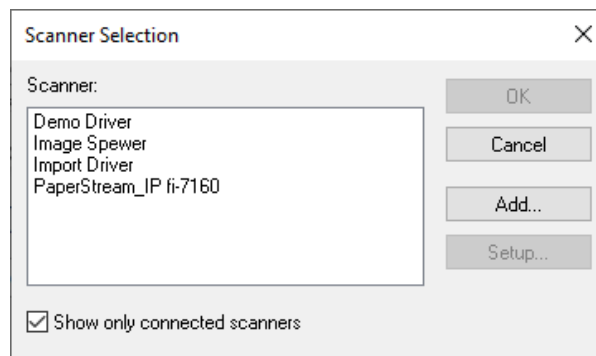


Image 20: Selection of a scanner driver

Select the desired scanner from the dialog box, which becomes the default scanner until you select another.

By clicking on the "Cancel" button, the settings are canceled and the box closes.

If the desired scanner is not on the list, clicking on the "Add" button will open a window in which you can search for the driver location in the file system.

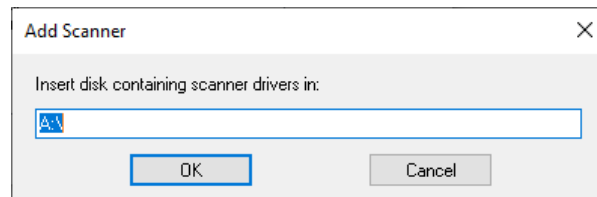
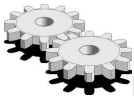


Image 21: Selecting the scanner driver location



By clicking on the "Setup" button, you open a window in which you can set the advanced scanner options. The appearance and content of the window are adjusted to an individual selected scanner, which is why the display may differ from the example provided.

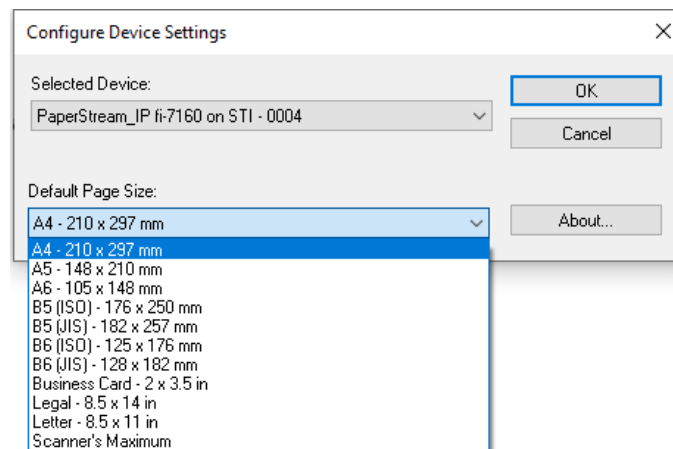


Image 22: Scanner setup



"Scanner Selection..." is also accessible in the "Scan" menu in the IMiS®/Scan user window.

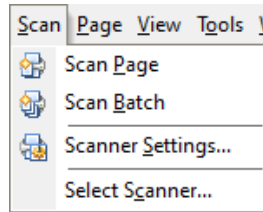
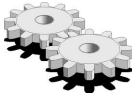


Image 23: Selecting the "Select Scanner" command from the "Scan" menu




The scanner selection is recorded in the *setscan.ini* file, *Scanner* section and *Driver* field.

You can only select one scanner, which remains active until you select another from the list or remove the current one from the settings.

6.3 Product setup

6.3.1 Setting the scanner via a dialog box

After selecting the scanner, set it up. In the taskbar, right-click above the IMiS® icon () and select "Scanner Settings" from the menu.

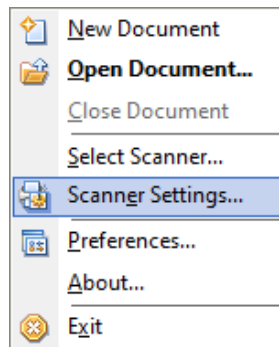


Image 24: Selecting the "Scanner Settings" command

In the "Scanner settings" dialog box you can select various options:

- paper size
- resolution
- brightness
- ...

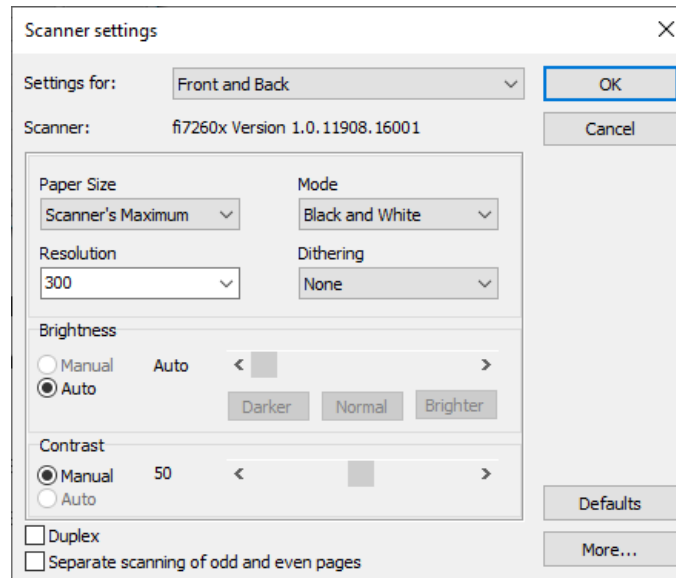


Image 25: Setting parameters in the "Scanner settings" dialog box

By clicking on the "OK" button, all settings are saved and the dialog box closes.

By clicking on the "Cancel" button, the dialog box closes and all the currently changed settings are discarded.

By clicking on the "Defaults" button, you restore the default scanner values.

By clicking on the "More ..." button, a dialog box appears showing the scanner manufacturer settings. The appearance and content of the window are adjusted to an individual selected scanner and may differ from the ones shown here.

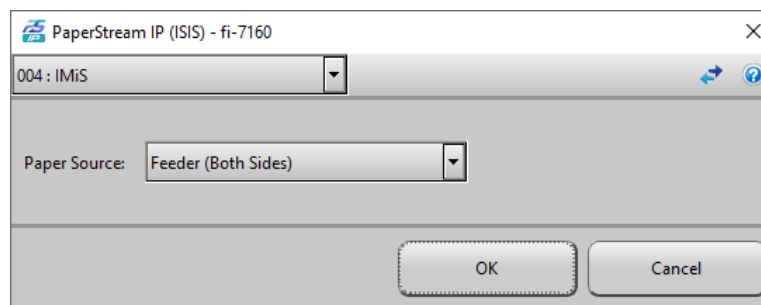


Image 26: The scanner manufacturer settings



Changing individual values in the *ScannerState* field is not recommended, as it is intended solely for storing all scanner settings. The special record format may be modified in newer versions. If you wish to change an individual scanner setting, you can do so by changing the settings in the application.



Scanner settings are stored in the Windows registry in the *ScannerState* field in the key of the currently selected profile.

Location example:

HKEY_CURRENT_USER\Software\IS\IMiS\IMiSScan\<profile name>\ScannerState.

6.3.1.1 Description of individual scanner settings

The values of individual settings change depending on the selected scanner.

Paper size

Under the “Paper Size” setting select the size and format of scanning. The most often scanned paper format is "A4" or "Letter". In the case of several different paper sizes in one document you can select "Scanner's Maximum". This creates a lot of empty space in the scanned document.

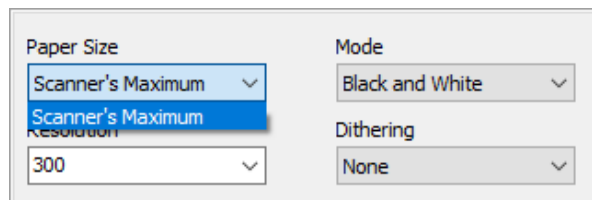


Image 27: Selecting the scanning size and format

Mode

Under the “Mode” setting, select the scanning mode. Documents can be scanned in "Black and White", "256-Level Gray" or "24-Bit Color" mode.

The "24-Bit Color" mode option will not be shown if the scanner does not support color scanning. Select the desired mode from the drop-down menu.

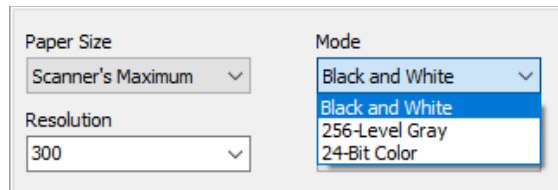


Image 28: Selecting the scanning mode

Note: Mode selection has a great impact on the size of the scanned document file.

Resolution

Under the “Resolution” setting select the desired scanning resolution from the drop-down menu. Only the resolutions supported by the selected scanner are shown.

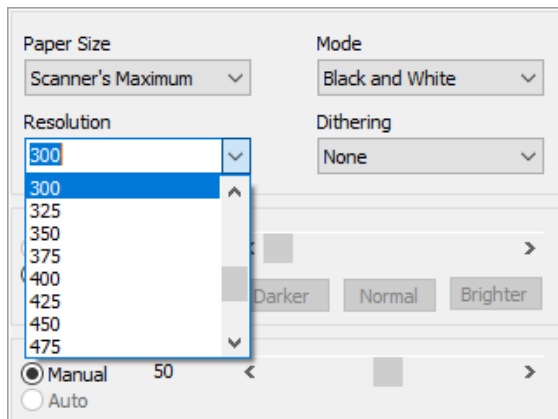


Image 29: Selecting the scanning resolution

Note: Selecting high resolution has a great impact on the size of the scanned document file.

For more information see chapter Scanning Resolution and Quality.

Patterning

Under the “Dithering” setting select the dithering mode, where you can replace the color or gray with a suitable pattern of pixels of a lower color depth. The values in the drop-down menu depend on an individual scanner.

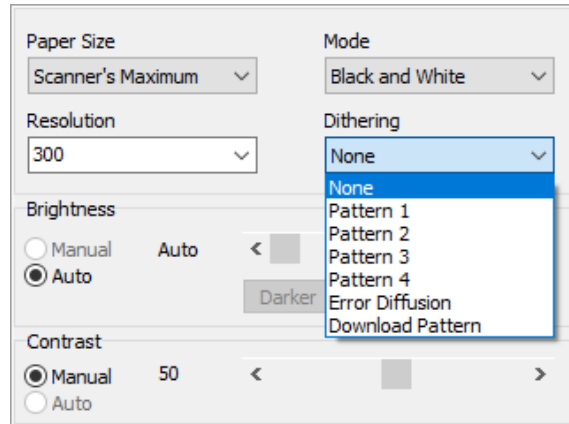


Image 30: Selecting the patterning

Example: Gray can be patterned as a chessboard of small black and white squares.

Brightness

Under the “Brightness” setting adjust the sensitivity of the scanner to non-white dots on the sheet. Greater brightness scans an image with fewer black or color dots. Reducing the brightness gives the scanned document a more "smudged" look. That is because the non-white dots are emphasized.

Sharpness

By setting the sharpness of a scanned document, you increase/decrease the difference between a light and dark dot. For better scanning of documents with poorer quality the correct ratio between brightness and sharpness is especially important.

Example: A darker document is scanned with smaller brightness, whereas brightness is increased for a lighter document.

Two-sided scanning (Duplex)

If the scanner enables two-sided scanning, you can select the option "Two-sided scanning". When scanning individual sheets of paper, it will scan both pages. IMiS®/Scan performs two-sided scanning of sheets only if you apply "Scan multiple pages" in the "Scan" menu. When performing two-sided scanning, it is recommended that you use the "Remove empty pages" setting, which is not enabled by all scanners.

Separate scanning of odd and even pages

IMiS®/Scan also enables two-sided scanning on one-sided scanners. Select the option "Separate scanning of odd and even pages". First scan the odd pages of the document, then turn the document around and scan the even pages. IMiS®/Scan will automatically insert the pages into the correct spot in the document.

6.3.2 Setting options

The IMiS®/Scan software product enables many customizations.

In the taskbar, right-click above the IMiS® icon () and select "Preferences..." from the menu.

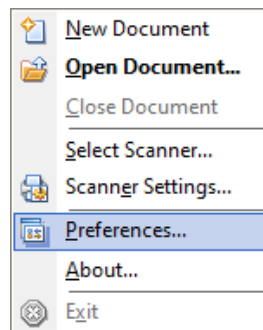


Image 31: Selecting the "Preferences" command

A dialog box appears showing all the settings, arranged into categories.

By clicking on the "OK" button, you save the settings to their subkeys and fields in the Windows registry.

By clicking on the "Cancel" button, all the currently changed settings are discarded.

When reopening the settings, the user is shown by default the category which he or she opened when last checking the settings.



The setting "Preferences..." is also accessible via the "Tools" menu.

6.3.2.1 Setting options – General

When opening the "Preferences..." dialog box for the first time, the "General" category appears. This group contains the settings that influence the display and operation of the IMiS®/Scan application.

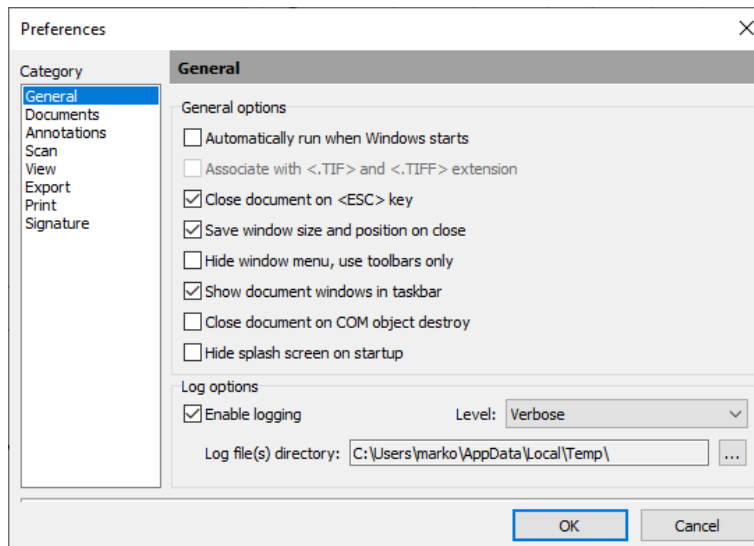


Image 32: Setting parameters in the "General" category

In the "General" group the following settings options are available:

Automatically run when Windows starts

Activating the option "Automatically run when Windows starts" sets that the IMiS®/Scan application is launched automatically at the next Windows operating system startup and is present until you close it manually.

Associate with <.TIF> and <.TIFF> extension

Activating the option "Associate with <.TIF> and <.TIFF> extension" sets that all files ending in TIF or TIFF will be opened by the IMiS®/Scan application.

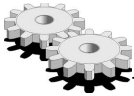
Close document on <ESC> key

Activating the option “Close document on <ESC> key” sets that the document opened in IMiS®/Scan can also be closed by pressing the <ESC> key.

If the document has been changed, a dialog box appears with the option of saving the changes.

Save window size and position on close

Activating the option “Save window size and position on close” sets that on exiting the currently open user window, the size and position of the IMiS®/Scan window are saved. The next time you open the document, the user window will appear in the same spot and in the same size.



The size and position of the user window are saved in binary value to the Windows registry in the *Image Window* field, in the *<path>\IMiS* subkey.

Hide window menu, use toolbars only

Activating the option “Hide windows menu, use toolbars only” enables a larger view of the document image in the user window. Afterwards IMiS®/Scan is used solely with the commands in the taskbar with the menu hidden.


The menu reappears when you disable this option. In the taskbar, right-click above the IMiS® icon () and select "Preferences..." from the menu.



Image 33: Hiding window menu in the "General" category

Show document windows in taskbar

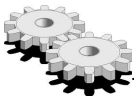
Activating the option “Show document windows in taskbar” sets that a button appears in the taskbar for each document open in IMiS®/Scan.

Close document on COM object destroy

Activating the option “Close document on COM object destroy” sets that a document, which is shown in IMiS®/Scan and opened via Windows COM technology, is automatically closed when the COM object to which this document was connected is destroyed.

Hide splash screen on startup

Activating the option “Hide splash screen on startup” disables displaying of the splash screen when launching the IMiS®/Scan application is disabled.



The settings are saved in binary form to the Windows registry in the *Preferences* field in the *<path>\IMiS* subkey.

Enable logging

In the "Log options" group you can specify the path of the text file in which you wish to log the operation of IMiS®/Scan. Select the operations level to log in the "Level" drop-down menu.

You can choose between the logging of critical errors only and the detailed logging of operation.

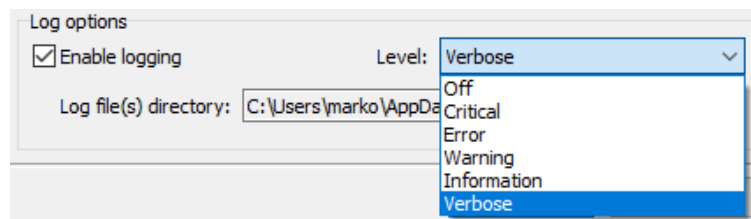
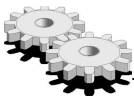


Image 34: Selecting the operations level in the "General" category



The name of the logging file is *imis.log*. The option "Enable operations log" is recorded in the Windows registry in the *LogEnable* binary field in the *<path>\IMiS\IMiSScan* subkey.

In this subkey the logging level is entered in the *LogLevel* text field. The directory in which the log is saved is recorded in the Windows registry in the *LogDir* text field in the *<path>\IMiS\IMiSScan* subkey.

The *<path>\IMiS\IMiSScan* subkey also contains the *LogSize* numeric field, which records the size of an individual log file. The default file size is 1Mb. When this size is exceeded, all the log files are rotated. The rotation cycle is recorded in the same subkey in the *LogCount* numeric field.

The default rotation value is 10.

6.3.2.2 Setting options – Documents

The "Documents" category from the "Preferences" dialog box is used when selecting the file format for new documents and when selecting the settings for printing newly-added pages. New pages can be created by scanning a document or by selecting "Paste" via the clipboard. The contents in the clipboard are saved in the format selected in the settings.

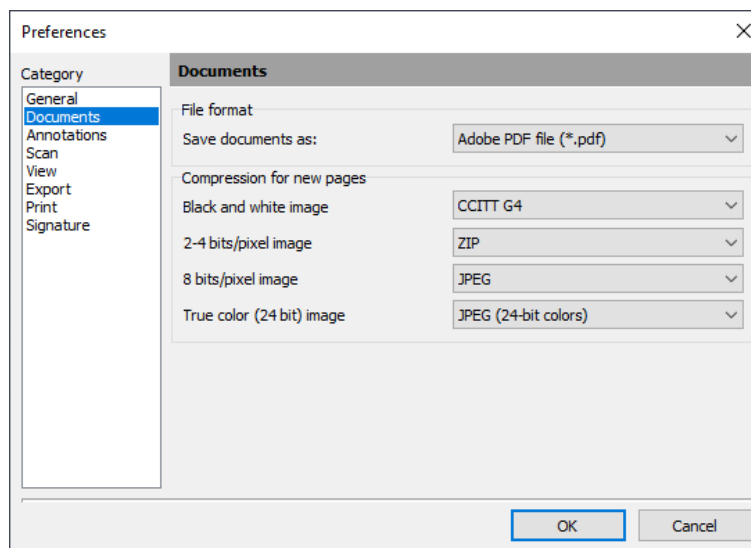


Image 35: Setting parameters in the "Documents" category

In the "File format" group you can select a format for saving documents:

- "Multi-page TIFF file (*.tif)" for creating multi-page TIFF documents.
- "Adobe PDF file (*.pdf)" for creating image documents in the PDF/A-1b standard.

In the "Compression for new pages" group select the compression method for each type of color image. The compression modes available depend on the selected format for saving.

By changing the format, you also change the compression mode for new pages.

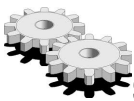


When scanning black-and-white documents with the IMiS®/Scan application, it is recommended that you select the saving of TIFF files with G4 compression. For the scanning of color documents, it is recommended that you use a Wang-compatible JPEG format.



For simpler transfer of scanned documents between applications and operating systems it is recommended that you select the saving in PDF file format with the default compression method settings. See also chapter [File compression and size](#).

***Warning:** Changing the saving mode does not affect the currently open documents, but only those which will be created after the "Options" dialog box is closed.*



Settings are recorded in binary form in the currently selected profile in the Windows registry in the *Preferences* field in the `<path>\IMiS\IMiSScan\<profile name>` subkey.

6.3.2.3 Setting options – Annotations

The "Annotations" category from the "Preferences" dialog box contains certain settings for bookmarks in TIFF documents.

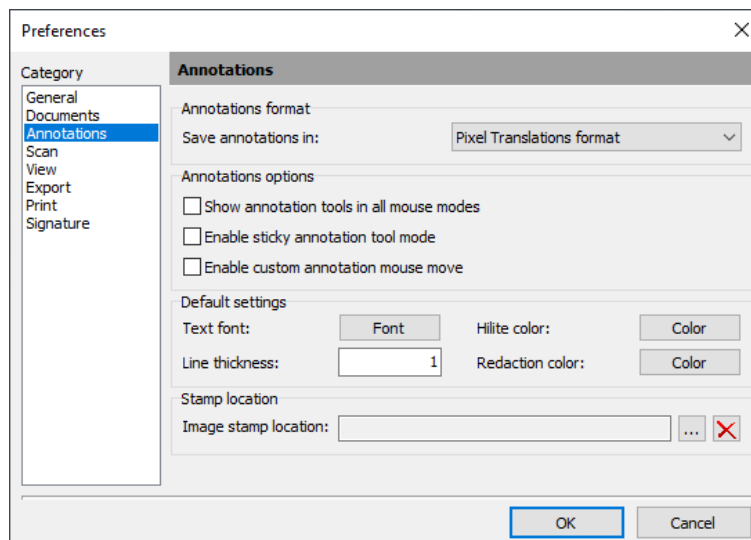


Image 36: Setting parameters in the "Annotations" category

In the "Annotations format" group select one of the formats for saving annotations:

- "Pixel Translations format" is compatible with viewers that use image viewing tools by EMC (e.g. QuickScan).
- "Wang compatible format" is compatible with the "Imaging for Windows" viewer.

The settings are saved in binary form in the Windows registry in the *Preferences* field in the *<path>\IMiS* subkey.

In the "Annotations options" group the following settings options are available:

Show annotation tools in all mouse modes

Activating the option "Show annotation tools in all mouse modes" sets that the annotations group is shown in the user window in all operation modes, i.e. even when the annotations mode is not turned on.

Enable sticky annotation tool move

Activating the option "Enable sticky annotation tool mode" sets that the currently selected annotation remains active even after being placed in the document and can be used by the user several times.



The annotation can also be preserved by clicking on the "Preserve" button, which is located in the "Annotations" group in the user window.

Enable custom annotation mouse mode

Activating the option "Enable custom annotation mouse move" enables easier placement of annotations in a document. When this setting is selected, the user annotation is placed on the mouse cursor and can thus be placed in the desired spot in the document. Otherwise the user annotation is placed in the spot of its creation.

All of the above-mentioned settings are saved in binary form in the Windows registry in the *Preferences* field in the *<path>\IMiS* subkey.

The "Default Settings" group is used for setting the default values of annotation tools.

Text font

Under the "Text font" setting, define the default font for text annotations.

Hilite color

Under the "Hilite color" setting, define the default color of the annotation tool for highlighting text.

Redaction color

Under the "Redaction color" setting, define the default color of the annotation tool for redaction, which covers the selected part of the text.

Line thickness

Under the "Line thickness" setting, define the thickness of the lines of annotation tools ("Arrow", "Line", "Rectangle", "Ellipse" and "Broken Line").



These values can also be changed in the user window in the "Annotations" group or when placing an annotation in a document.

The settings are saved in binary form in the Windows registry in the *DefaultAnnot* field in the *<path>\IMiS* subkey.

In the "Stamp location" group you can specify the location of the default stamp.

IMiS®/Scan only enables stamps saved in BMP format. The path to the image is saved in the Windows registry in the *StampPath* field in the *<path>\IMiS* subkey.

6.3.2.4 Setting options – Scan

The "Scan" category from the "Preferences" dialog box enables the setting of the operation of IMiS®/Scan during scanning.

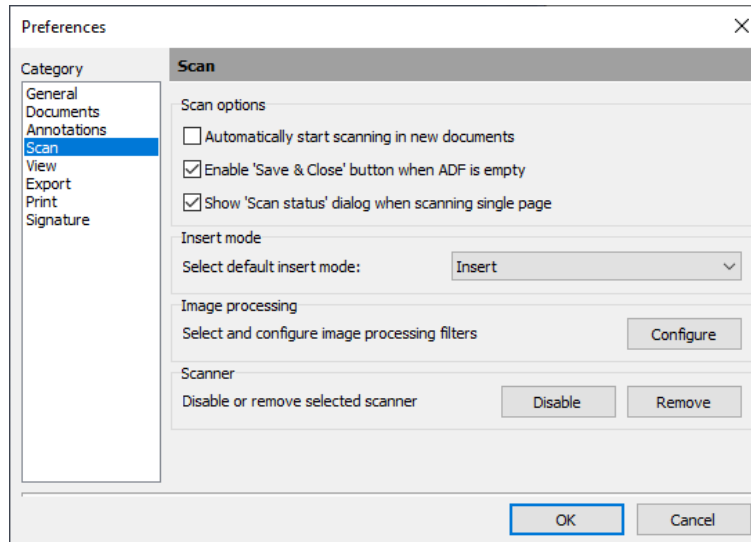


Image 37: Setting parameters in the "Scan" category

In the "Scan options" group the following options are available:

Automatically start scanning in new documents

By activating the option "Automatically start scanning in new documents", IMiS®/Scan automatically begins the scanning procedure when a new user window is created. Scanning does not commence if the scanner has not been selected or connected.

Enable "Save & close" button when ADF is empty

Activating the option "Enable 'Save & Close' button when ADF is empty" enables the display of the "Save and close" button in the "Scan status" dialog box, thus speeding up the scanning procedure. By clicking on the "Save and close" button in the dialog box, you enable a faster scanning procedure, since it facilitates the saving and closing of a scanned document.

This option is recommended for the mass capture of documents.

Show "Scan status" dialog when scanning single page

In the case of default settings, the "Scan" dialog box appears only when scanning multiple pages. By selecting the option "Show 'Scan status' dialog when scanning single page", you activate the box for the scanning of individual pages too.

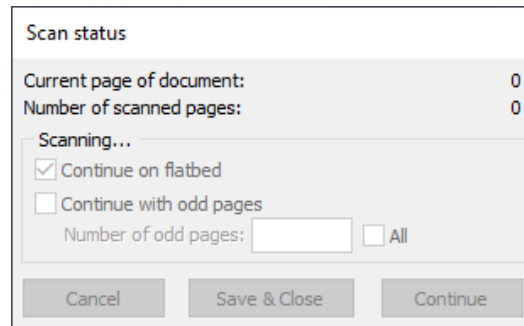
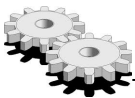


Image 38: Scanning of individual pages dialog box

In the "Insert mode" group you can set the default mode of inserting new pages into a document. The two options are:

- "Insert" a new scanned page after the previous one.
- "Overwrite". Current page and all of the scanned pages below the mouse cursor are overwritten with new one.



The setting is saved in binary form in the Windows registry in the *Preferences* field in the `<path>\IMiS` subkey.

By clicking on the "Configure" button, you can select and configure the image processing filters in the "Image processing" group. This setting is present only in the IMiS®/Scan+ client version.

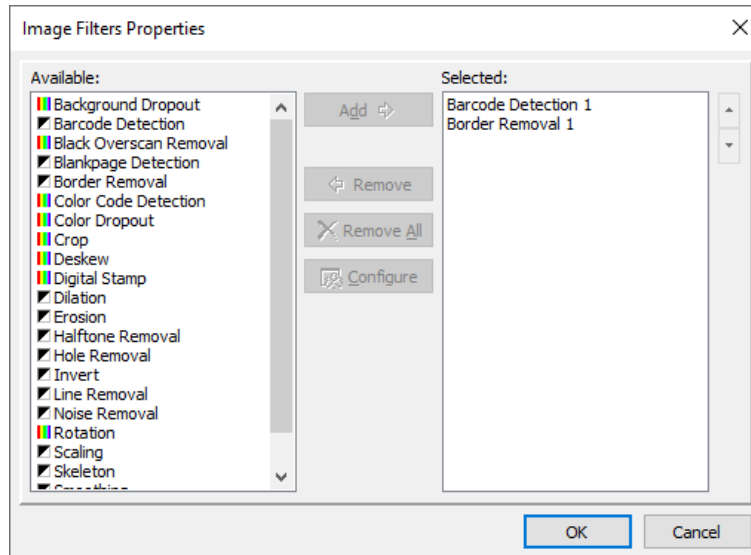


Image 39: Setting the image processing filters in the "Scan" category

Clicking the "Disable" button in the "Scanner" group disables the use of the scanner or deactivates it. This functionality is intended primarily for laptop users who occasionally work from home. After deactivating the scanner, the driver dialogs are not displayed while using the application because the scanner is not present. When returning to work, they will have the option of reactivating the scanner by clicking the button "Enable", which replaces the button "Disable" on deactivation.

If a scanner is not connected to the workstation, you can remove the driver record from IMiS®/Scan in the "Scanner" group by clicking on the "Remove" button. If the driver record is removed, the scanner must be reselected and reconfigured.

Example: Scanner repair. If you do not remove the driver record, the user receives frequent notifications that the scanner is not connected, which can be disrupting.

Remove the Driver field from the Setscan.ini file in the Scanner section.

The same procedure is performed in the mapped file in the Windows registry.

6.3.2.5 Setting options – View

In the "View" category set the default values for document display.

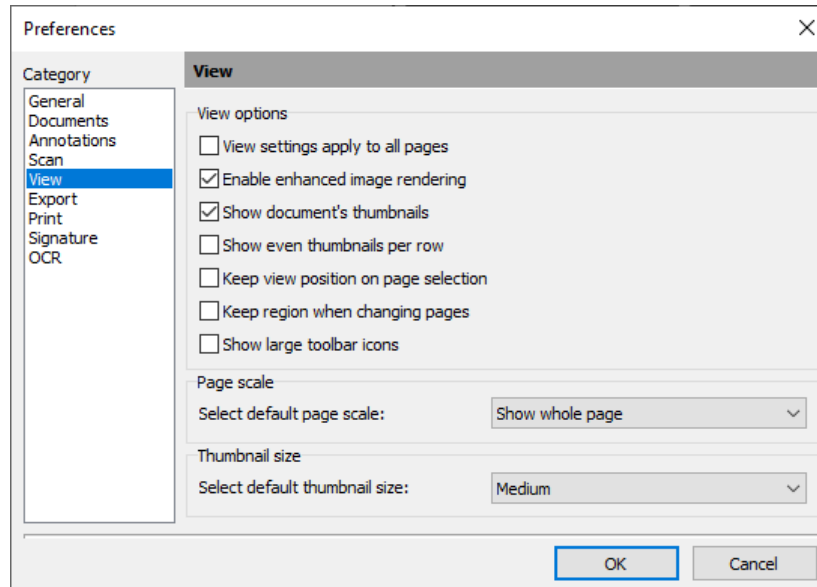


Image 40: Setting parameters in the "View" category

In the "View options" group you can set:

View settings apply to all pages

Activating the option "View settings apply to all pages" sets that the actions (rotation, scale, and showing of grays) which are carried out on the current page are carried out on all other pages as well.



You can also turn on/off the setting for all pages in the user window menu, in the "View" menu by clicking "Apply to all". This applies only to the currently open window.

For a newly-opened user window the default setting once again applies.

Enable enhanced image rendering

Activating the option "Enable enhanced image rendering" enables an enhanced image display. Scanned documents are easier to read when black-and-white scanned documents, content is converted into shades of gray. In the case of gray and color scanned documents it uses the smoothing algorithm for an enhanced display.



This setting can also be enabled or disabled with the command “Enhance” in the “View” menu or via the popup menu on the document page. The selection applies only to the currently open window. For a newly opened user window the default setting once again applies.

Show document´s thumbnails

In the user window this option is used for turning the showing of document thumbnails on/off. By clicking on the selected thumbnail, you move to the viewing of the selected page.

Show even thumbnail per row

Activating the option “Show even thumbnails per row” shows an even number of thumbnails in the left part of the central window.



Selecting this option is recommended when viewing two-sided scanned documents.

Keep view position on page selection

Activating the option “Keep view position on page selection” sets that the view for the selected document pages is always the same (e.g. always shows the bottom part of the page).

Keep region when changing pages

Activating the option “Keep region when changing pages” preserves a specific area on the page even when switching pages.

Example: In the case of manual object recognition (OCR), when data is always located in the same section of the page. For more information see chapter Area Selection.

Show large toolbar icons

By activating the option “Show large toolbar icons”, larger icons are shown instead of the default icons in the toolbar.

Example: On screens with a resolution of over 1024x768 icons in the user window look smaller. Hence it is recommended that you select this option.

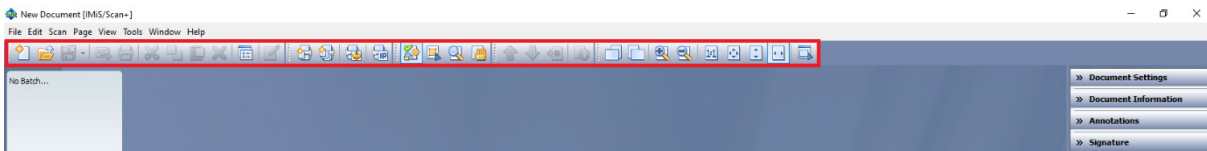


Image 41: Showing large toolbar icons

The selected settings take effect as soon as they are confirmed in the dialog box.

In the "Page scale" group you can select among different page display sizes in the user window:

- "View actual size": one pixel in the scanned document is shown with one pixel on the screen.
- "Show whole page": the entire page of the document is reduced/enlarged so that the entire page of the document is visible in the user window and the entire image viewing area is filled.
- "Fit to window height": the entire page of the document is reduced/enlarged so that the entire height of the image viewing area in the user window is filled.
- "Fit to window width": the entire page of the document is reduced/enlarged so that the entire width of the image viewing area in the user window is filled.

The most common choices are: "Show whole page" or "Fit to window width".

In the "Thumbnail size" group you can select among different sizes of document thumbnails:

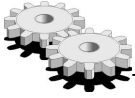
- "Tiny"
- "Small"
- "Medium" (default)
- "Large".

The change in settings will take effect only in a newly-opened user window.

To change the thumbnail size in the currently opened user window you can select the "Tools" menu in the user window menu and then the desired size in the "Thumbnail size" submenu.



Right-click on the page thumbnails. A menu appears in which you can select the desired thumbnail size in the "Thumbnail size" submenu. For more information see chapter Thumbnails.



The settings in the "View" category are saved in binary form in the Windows registry in the *Preferences* field in the *<path>\IMiS* subkey.

6.3.2.6 Setting options – Export

In the "Export" category set the default values for:

- sending a document by email;
- exporting a document to a file system;
- cases when IMiS®/Scan is activated via another application and the export document functionality is used.

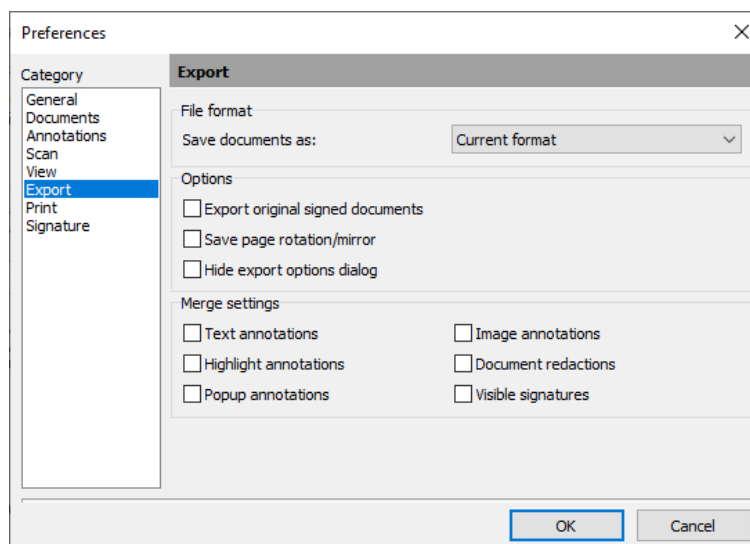
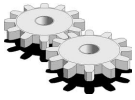


Image 42: Setting parameters in the "Export" category

In the "File format" group, set the file format in which the copy of the document will be exported. Available options are:

- "Current format". The document can be kept in its existing format.
- "Multipage TIFF file (*.tif)".
- "Adobe PDF file (*.pdf)".

If the selected format differs from the existing one, conversion to the selected format is performed prior to exporting.

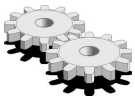


The value of the selected format of saving is saved in hexadecimal form in the Windows registry in the *ExportFormat* field in the *<path>\IMiS* subkey. The value for the existing format is -1, for the TIFF format the value is 3000 (hexadecimally), and for the PDF format 150000 (hexadecimally).

The following settings can be selected in the "Options" group:

Export original signed documents

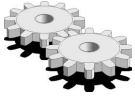
With the option "Export original signed documents" set whether digitally signed documents are exported as copies or as a signed original. Based on the merge settings, the copy of the document will contain merged annotations or an digital signature.



The setting is saved in binary form in the Windows registry in the *ExportOriginal* field in the *<path>\IMiS* subkey.

Save page rotation/mirror

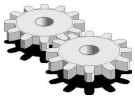
By activating the option “Save page rotation/mirror”, rotated/mirrored pages are saved on export.



The setting is saved in binary form in the Windows registry in the *ExportRotation* field in the *<path>\IMiS* subkey.

Hide export options dialog

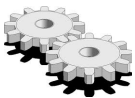
With the option “Hide export options dialog” select whether a dialog box should appear before exporting a document. If you do not wish the dialog box to appear, the default settings are applied. If the hide function is not activated, you can still change the default settings prior to export.



The setting is saved in binary form in the Windows registry in the *Preferences* field in the *<path>\IMiS* subkey.

In the "Merge settings" group select which annotations you wish to merge during export. Annotations which are not marked to be merged are removed from the document in the document copy. Available options are:

- "Text annotations".
- "Highlight annotations".
- "Popup annotations".
- "Image annotations".
- "Document redactions".
- "Visible signatures".



The settings are saved in binary form in the Windows registry in the *Preferences* field in the *<path>\IMiS* subkey.

6.3.2.7 Setting options – Printing

In the "Print" category set the default values for document printing.

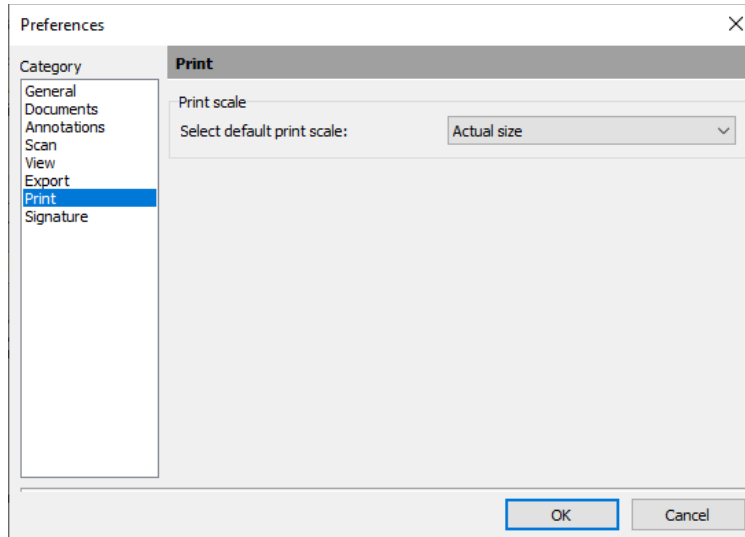
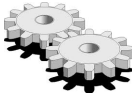


Image 43: Setting parameters in the "Print" category

In the "Print scale" group you can select one of the following options from the drop-down menu:

- "Actual size": adjusts the image size so that one centimeter in the image equals one centimeter in the printout. The scanned document is printed in the same format as it was scanned. If this option is selected, the document is not enlarged or reduced during printing. In the event that the scanned document format is bigger than the paper the document will be printed on, only a part of the scanned document is printed.
- "Fit to paper": adjusts the image so that it fills as much of the paper surface as possible. A default option, which is useful when the scanned document format differs from the format of the paper on which you will be printing the scanned document. This option makes sure that the scanned document fills the entire printed page.
- "Actual pixels": the printer prints a pixel for every pixel in the image. This printing mode ensures that the document resolution is preserved on paper. During printing, individual pixels of the image are not interpolated. Documents scanned in a resolution smaller than the printer resolution (600 dpi) will be reduced on paper, otherwise they will be enlarged. This option is most useful for printing photographs, since the image quality is preserved.



The settings are saved in binary form in the Windows registry in the *Preferences* field in the `<path>\IMiS` subkey.

6.3.2.8 Setting options – Signature

In the "Signature" category set the default values for digital signing of documents.

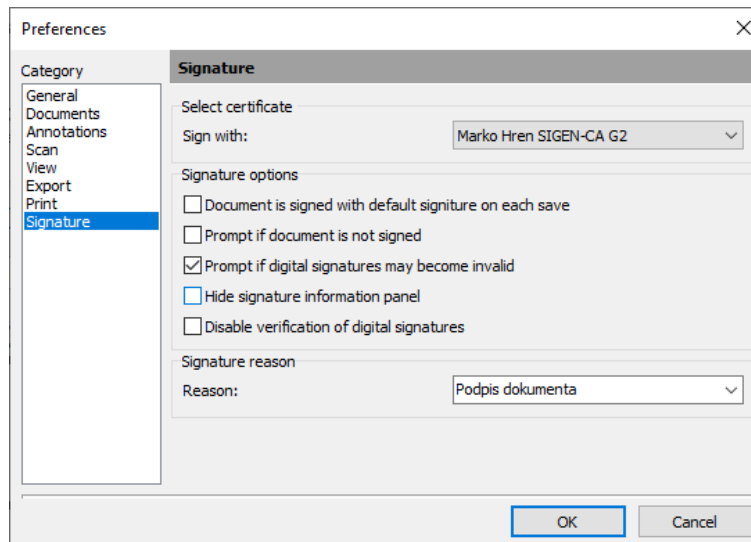


Image 44: Setting parameters in the "Signature" category

In the "Select certificate" group first select the digital certificate with which you will be signing documents. Select the appropriate digital certificate from the drop-down menu.

In the "Signature options" group choose among the options:

Document is signed with default signature on each save

With the option "Document is signed with default signature on each save" set the automatic signing of every document when saving it.

Prompt if document is not signed

Activating the option "Prompt if document is not signed" sets a reminder to warn you when saving a document which has not been digitally signed.

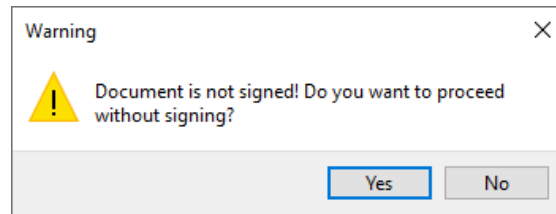


Image 45: Warning when a document has not been signed

Prompt if digital signatures may become invalid

Activating the option “Prompt if digital signatures may become invalid” sets a reminder to warn you of an invalid signature when editing an existing digitally signed document. Should you wish to edit an existing digitally signed document and could invalidate the existing digital signatures by doing so, a notification appears.

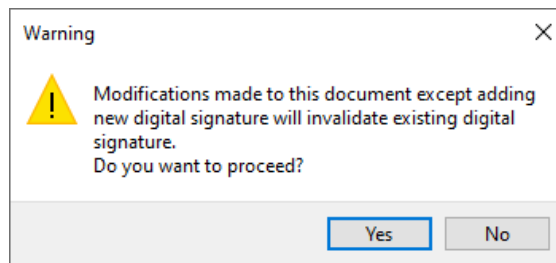


Image 46: Warning when digital signatures may become invalid

Hide signature information pane

Activating the option “Hide signature information panel” sets that the pane containing the digital signature status is not visible.



Image 47: Hiding the information pane

In the "Signature reason" group prepare the most common reasons for signatures in advance. The signature reason is added to the digital signature and is recorded into the document together with the digital certificate. The entered reason can be removed by selecting the reason and pressing the "Ctrl+Delete" key combination.

6.4 Product shutdown

The IMiS®/Scan software product can be shut down in two ways:

- from the “File” menu by selecting the "Exit" option.

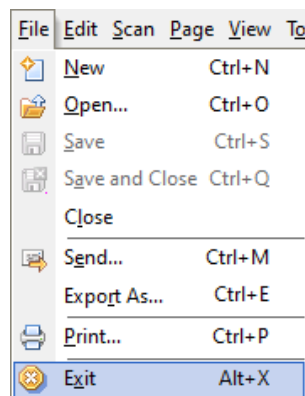


Image 48: Selecting IMiS®/Scan shut down from the menu in the command bar

- in the "Tools" menu, right-click above the IMiS® icon () and select "Exit" from the menu.

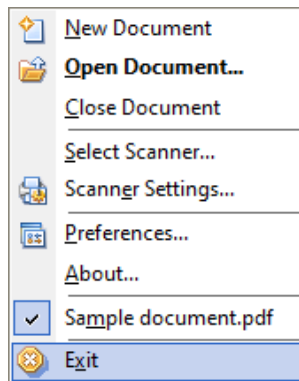


Image 49: Selecting IMiS®/Scan shut down from the menu in the toolbar

IMiS®/Scan can be closed from the "Tools" menu only if it was launched as an independent application. Otherwise the "Exit" option is not enabled and is controlled by the application to which IMiS®/Scan is connected.



Regardless of the way IMiS®/Scan was launched, it can be closed by right-clicking the IMiS® icon in the taskbar, which invokes the menu, and then pressing the "Alt+F4" keys.

7 DOCUMENT MANAGEMENT

7.1 New document

With IMiS®/Scan you can create a new document in several ways, depending on how IMiS®/Scan has been activated.

Creating a new document from the toolbar menu

By clicking the "New document" option, which is located in the toolbar menu.

For more information see chapter [Launching the product](#).

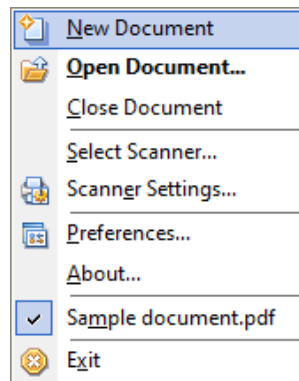
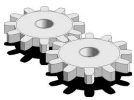


Image 50: Creating a new document from the "Tools" menu

In this case the user has the right to execute any action in IMiS®/Scan.

The document is saved to the file system.



When a temporary file cannot be created, the error message appears:

"Error <DOCIO_UNKNOWN> when opening document"

Creating a new document when IMiS®/Scan is part of another application


The first step in creating a new document depends on the application into which IMiS®/Scan is integrated. It is usually the "Scan" button.

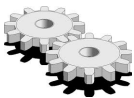
The rights to execute various actions in IMiS®/Scan can be restricted and controlled via the application into which IMiS®/Scan is integrated. The document is saved to the IMiS®/ARChive Server.



You can also open a new document from the currently open user window by clicking the "New" option in the "File" menu.



If the IMiS®/Scan user window is already open, you can click the "New" icon  in the toolbar to open a new document.



When creating a new document on IMiS®/ARChive Server, these two notifications may appear:

- DOCIO_ENGSTAR: the *iarcio.dll* library in the `<Windows path>\System32` folder does not exist or an error has occurred when loading the library.
- DOCIO_NOCONNECT: connection to the archive server is not possible or an error has occurred when establishing a server session. A more detailed description of the cause of the error can be found in the *iarcio.txt* file.

In the case of an error or incorrect transfer of the save location parameters, the following error message appears: "Incorrect document location information". The user window closes and IMiS®/Scan returns the DOCIO_ENGSTART error.

The user reopens the IMiS®/Scan window and repeats the scanning. If the scanning is again unsuccessful, it is recommended that you send a request to support@imis.eu, describing the error.

7.2 Description of a user window for creating a new document

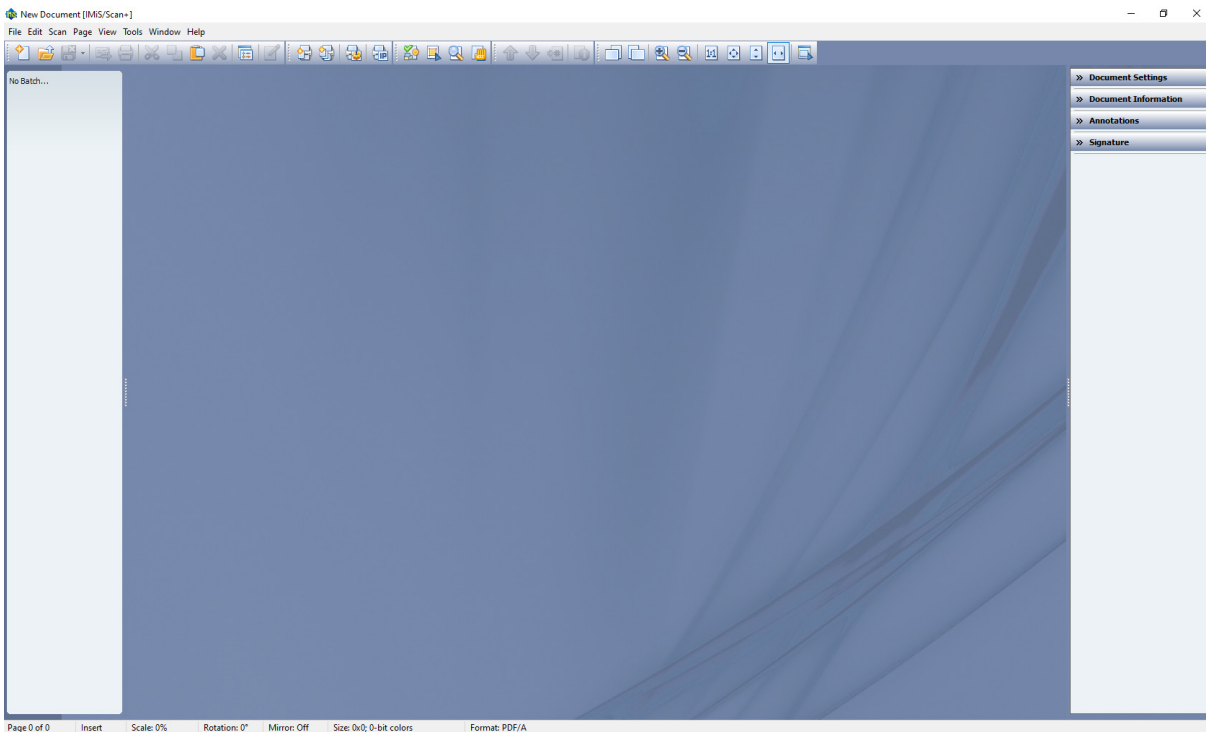


Image 51: Creating a new document

In the case of default settings, the user window of a new document is divided into:

- Title bar containing the name of the scanned document. Until the document has been saved, it is entitled "New document". On the right side of the title bar are three standard buttons for window management (exit the program, hide the window and maximize/minimize the window).
- A toolbar in which you can activate the desired command with one click on the appropriate button. The icons on the buttons symbolize the meaning of an individual button. If you hold the mouse cursor above an individual icon for a few seconds, a tooltip appears, describing the tool. The toolbar can be hidden, which gives you more room for viewing documents.

For more information see chapter [Toolbar](#).

A menu with all the options. Some of the menu options have their own keyboard shortcut with the combination of "Ctrl key and the underlined letter in the menu name".

For more information see chapter [Setting Options – General](#).

Example: To create a new document press "Ctrl+n". The menu can be hidden in the dialog box in the "General" category.

- The left part of the central window is intended for viewing all document pages. Using the thumbnails of pages, you can quickly browse through the document, select pages, arrange the order etc. This part of the window can also be hidden. For more information see chapter [Thumbnails](#).
- The central part of the window is intended for displaying the currently selected document page.
- The right part of the central window is hidden by default. This pane contains various IMiS®/Scan settings and actions, divided into categories, and shows the more important information about the current page. The right pane is shown by clicking the left split bar, with which you can also widen or narrow the right pane.
- The status bar in the bottom of the screen shows additional information: current page, writing mode, writing format, scale. For more information see chapter [Description of the User Window of an Existing Document](#).

7.3 Adding pages

New document pages are created by:

- scanning them;
- pasting them to the current document from the clipboard.

Pages are inserted in two ways:

- "Insert": inserts new pages before or after the current page, depending on the position of the mouse cursor. For more information see chapter [Thumbnails](#).
- "Overwrite": overwrites old pages with new ones from the currently selected page onwards.

The current insertion mode is visible in the status bar.

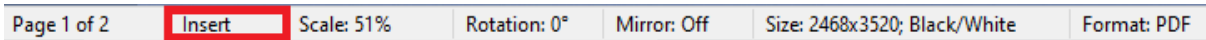


Image 52: Viewing insertion mode

The page insertion mode can be changed in the "Page" menu by selecting the "Insert mode" and "Insert" submenu or by pressing the "Insert" key. The thus changed settings only apply to the current user window.

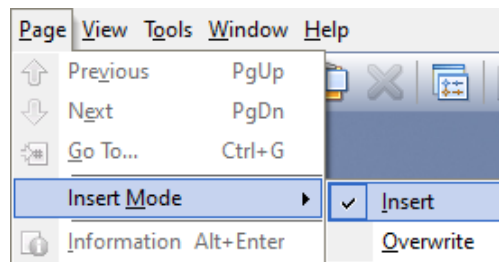


Image 53: Selecting the "Insert" command from the "Insert mode" submenu

If you wish to change the default setting for the insertion mode, you can do so in the dialog box under the "Scan" category. For more information see chapter [Setting options – Scan](#).

Before adding new pages into a blank document, select the file format for saving the document. This setting is selected in the right pane in the "Document Settings" category by clicking on the "Basic" tab in the "File format" group. If the right pane is not visible, open it by clicking on the right split bar. You can choose between the PDF or TIFF file format.

For more information see chapter [File compression and size](#).



You cannot change the file format of already scanned documents. The installed default setting is the TIFF format.

7.3.1 Scanning

Scanning is performed with a connected scanner. Before using IMiS®/Scan for the first time, you must select the scanner in the "Scan/Select Scanner" menu. The same procedure is performed when replacing the scanner. For more information see chapter [Scanner selection](#). Scanner settings are checked and changed in the dialog box.

For more information see chapter [Setting a scanner via dialog box](#).

7.3.1.1 Basic scanner setup

If the right pane is not visible in the user window, you can open it by clicking on the split bar in the right window margin. By clicking on the "Document Settings" group, the scanning settings appear.

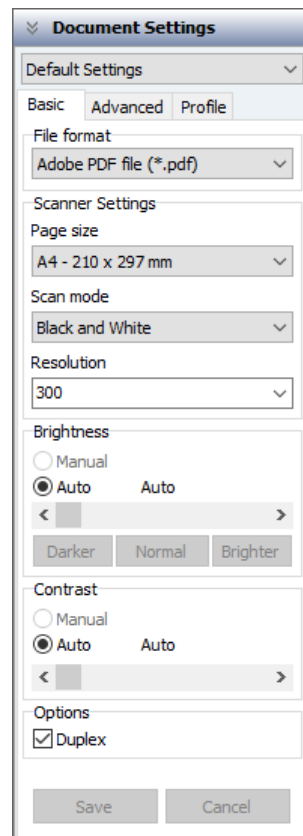



Image 54: Selecting the settings in the right pane "Document settings"



The showing of desired settings is enabled with the "Scanner settings" option in the "Scan" menu.



The showing of the desired settings is enabled by clicking on the "Change the scanner settings" toolbar icon. 



For documents which do not contain images we recommend scanning in black-and-white mode with a resolution of 300 dpi. For more information see chapter [Scanning resolution and quality](#).



If the scanned document is poorly readable, we recommend that you repeat the scan with changed brightness and sharpness settings. If even these settings do not result in a satisfactory quality of scanned documents, scan the document in gray mode.

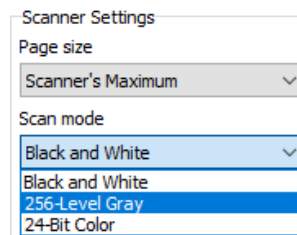


Image 55: Setting the quality of scanned documents

7.3.1.2 Advanced scanner setup

In addition to the basic scanning settings, the tab "Advanced" contains other scanner settings: compression methods based on the color depth of scanning, separate scanning of odd and even pages, patterns, internal blank page removal and the "More scanner options" button.

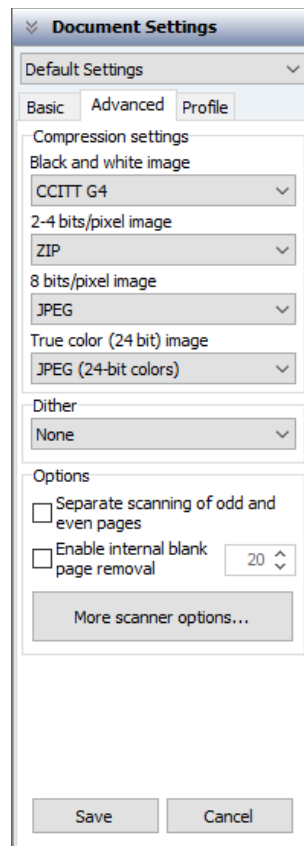
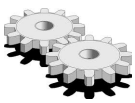


Image 56: Selecting advanced scanning settings in the tab "Advanced"

Compression settings

In the "Advanced" tab in the "Compression settings" group you have the option of selecting the compression mode for scanned documents when saving them. Compression significantly reduces the quantity of data to be saved. Different methods are available for each color depth, depending on the file format. For more information see chapter [Setting options – Document](#).



By clicking on the "Save" button, the settings are saved in the Windows registry in the *Preferences* field in the `<path>\IMiS\IMiSScan\<profile name>` subkey.

Dither

By opening the menu, you can select the pattern from the menu and replace the color or gray with a suitable pattern of pixels of a lower color depth.

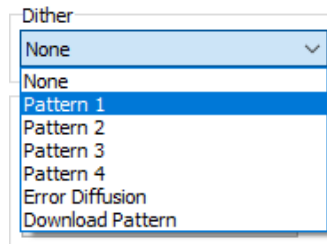


Image 57: Setting pattern

Options

Selecting the option "Separate scanning of odd and even pages", you first scan the odd pages of the document, then turn the document around and scan the even pages.

By selecting the option "Enable internal blank page removal", we activate the mechanism for the detection and removal of blank pages at the application level. This feature comes in handy when the scanner does not natively enable the blank page removal feature.

The user can influence blank page detection through the setting "Threshold". The threshold value is 10 by default. Increasing this value captures a wider range of pages considered blank, while decreasing this value reduces the range.

The recommended setup values for the threshold for blank black-and-white A4 pages with a resolution of 300dpi with suitable scanner settings are:

- Pristine white: 0-10
- Dirty white: 10-20
- Very dirty white: 20-40.

When defining the setup values of the blank page detection threshold, it helps to first scan a sample of different blank pages. In the log file that is located in the directory “%TEMP%” by default the user looks for the entries “<IPUtils.IsBlank>” with the calculated values of the blank page detection algorithm. Based on these, the user selects the appropriate value.

```
11.10.22 12:31:04.334 11820:22140 IMiS/Scan++ <TPixEzImgForm.PixEzImgForm.ezPageViewScanBatchControl> Entering method with no parameters.
11.10.22 12:31:04.364 11820:22140 IMiS/Scan++ <IPUtils.IsBlank> Standard deviation of image pixel values: 144,051418982447
11.10.22 12:31:04.364 11820:22140 IMiS/Scan++ <TPixEzImgForm.PixEzImgForm.ezPageViewScanBatchControl> Leaving method with result(s) <ScanCancel=0>.
```

Image 58: Example of the value of the blank page detection algorithm for a non-blank page

```
11.10.22 12:31:00.551 11820:22140 IMiS/Scan++ <TPixEzImgForm.PixEzImgForm.ezPageViewScanBatchControl> Entering method with no parameters.
11.10.22 12:31:00.583 11820:22140 IMiS/Scan++ <IPUtils.IsBlank> Standard deviation of image pixel values: 11,0988048750531
11.10.22 12:31:00.583 11820:22140 IMiS/Scan++ <TPixEzImgForm.PixEzImgForm.ezPageViewScanBatchControl> Leaving method with result(s) <ScanCancel=0>.
```

Image 59: Example of the value of the blank page detection algorithm for a blank page

By clicking the "More scanner options" button, a new dialog box appears containing advanced scanner settings. Not all scanners support this functionality. The values that are available in the settings depend on the type of scanner.

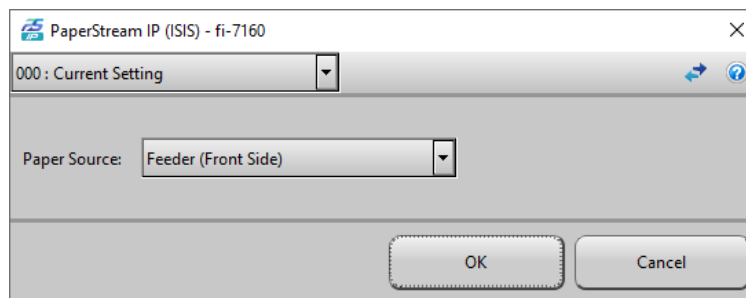
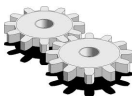


Image 60: Advanced scanner settings

If you wish to keep the changed settings for your next scan, click on the "Save" button.

By clicking on the "Cancel" button, all changes are discarded. The settings remain at their previous values. For more information see chapter [Description of individual scanner settings](#).

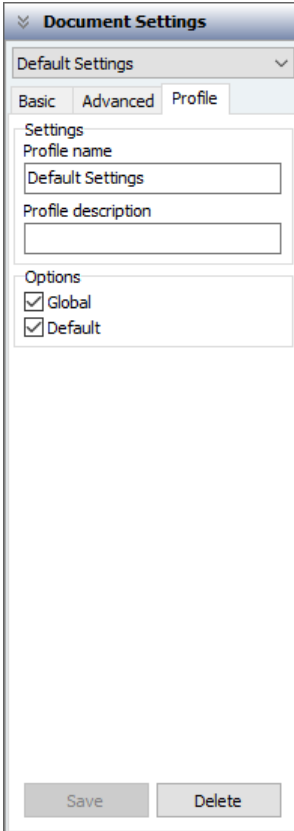


The settings are saved in the Windows registry in the *ScannerState* value in the *<path>\IMiS\IMiSScan\<profile name>* subkey.

7.3.1.3 Setting the user profile

For different types of documents, such as black-and-white, color, various paper sizes and the like, you need optimum scanner settings.

Every time you change the document type you have to change at least three different settings, on average. In order to avoid the constant changing of values, you can arrange the settings into groups and save them to the profile. Profile settings are located in the right pane under the "Document Settings" category in the "Profile" tab.

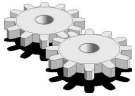


The screenshot shows a dialog box titled "Document Settings" with a dropdown menu set to "Default Settings". Below the title bar are three tabs: "Basic", "Advanced", and "Profile", with "Profile" selected. The "Profile" tab contains two sections: "Settings" and "Options". The "Settings" section has a "Profile name" field with the text "Default Settings" and a "Profile description" field which is empty. The "Options" section has two checked checkboxes: "Global" and "Default". At the bottom of the dialog are "Save" and "Delete" buttons.

Image 61: Setting the user profile

Settings

When installed, IMiS®/Scan contains only one profile with the default values. The default profile can be changed or a new one can be added. By entering a new name in the "Profile name" field, you create a new profile.



The profile is saved in the Windows registry as the *<path>\IMiS\IMiSScan\<profile name>* key.

A longer profile description is entered in the "Profile Description" field, which is saved in the Windows registry in the *ProfileDescription* field in the *<path>\IMiS\IMiSScan\<profile name>* subkey.

Options

In the "Options" group you can choose between two statuses:

- "Global": By confirming this option, you enable the profile to be visible to all users on this computer. The entire profile is recorded in the Windows registry in the *HKEY_LOCAL_MACHINE\Software\IS\IMiS\IMiSScan\<profile name>* key.

You must have the rights for writing in this key.

- "Default": By selecting this setting, you mark the current profile as default. Only one profile can be the default one. When saving it, the value is recorded in binary form in the Windows registry in the *DefaultProfile* field in the *<path>\IMiS\IMiSScan\<profile name>* subkey.

Prior to this, the previous default profile is stripped of its "Default" status. The "Default" status takes effect when launching the IMiS®/Scan application.

By clicking on the "Save" button, all settings are saved in the Windows registry in the above-mentioned fields and keys.

If you wish to remove an entire profile from IMiS®/Scan, click on the "Delete" button.

If you have only one profile in IMiS®/Scan, the "Delete" button will be disabled, since one profile must be set at all times.

7.3.1.3.1 Selecting a user profile

The profile you have prepared can be selected from the drop-down menu under the "Document Settings" category in the right pane. When changing the profile, all settings in this category change to the values of the saved profile. The name of the newly-selected profile is saved in the Windows registry in the *Active Profile* field in the `HKEY_CURRENT_USER\Software\IS\IMiS\IMiSScan` key. The name of the last-selected profile is applied when launching the IMiS®/Scan application.

For more information see chapter [Launching the product](#).

7.3.1.4 Scanning procedure

Depending on the scanning mode, only one page can be captured in a document or all the pages which are placed on the scanner feeder simultaneously.

7.3.1.4.1 Scanning single page

By clicking the option "Scan page" in the "Scan" menu, you begin the process of capturing one page.

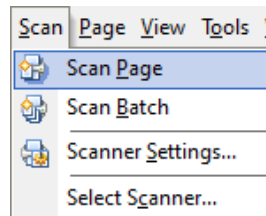



Image 62: Selecting "Scan page" command from the menu



The scanning of one page is started by clicking on the "Scan page" icon  in the toolbar. A sheet of paper can be inserted into the automatic feeder or placed onto the scanner flatbed. If the paper is placed onto the automatic feeder, the scanner will pull it in using its sensor and capture only one page of the paper, even if the two-sided scanning setting is turned on.

For more information see chapter [Setting the scanner via a dialog box](#).

In the event that several sheets of paper are placed onto the feeder, only one page is scanned and the scanner automatically prepares a new sheet of paper for scanning. The procedure of scanning one page can be repeated, or scanning can be finished.

7.3.1.4.2 Scanning multiple pages

By clicking on the "Scan batch" option in the "Scan" menu, you begin the process of capturing multiple pages.

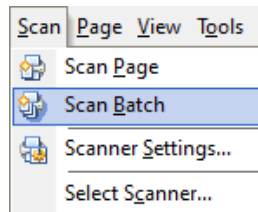



Image 63: Selecting "Scan batch" command from the menu



The scanning of multiple pages is started by clicking on the "Scan batch" icon  in the toolbar. The scanner starts feeding paper only when paper is loaded into the automatic feeder. For each scanned sheet of paper, an image is created in the document. When selecting two-sided scanning, two images are created in the document for each scanned sheet of paper. For more information see chapter [Setting the scanner via a dialog box](#).

The presence of the scanner is automatically checked prior to initiating the scanning procedure. If communication with the scanner is not possible or the scanner driver is not loaded, an error message appears.

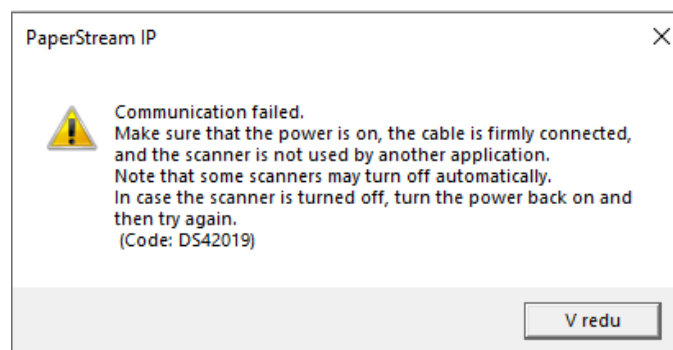


Image 64: Scanner communication failure

When this error appears, it is recommended that you reselect the scanner and check the scanner status when it is turned on, turned off, connected to the computer and the like.

When scanning, the "Scan" status window appears. When scanning single page, this window appears only if this option is turned on in the settings.

For more information see chapter [Setting options – Scan](#).

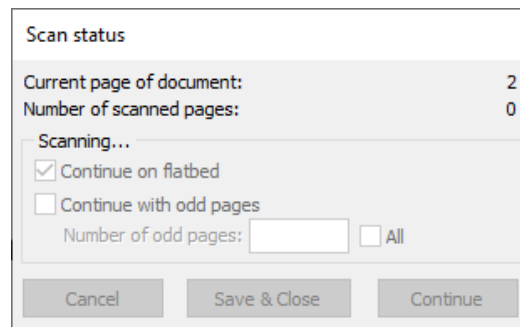


Image 65: Showing the scan status

The "Scan" status window shows the current status of paper feeding.

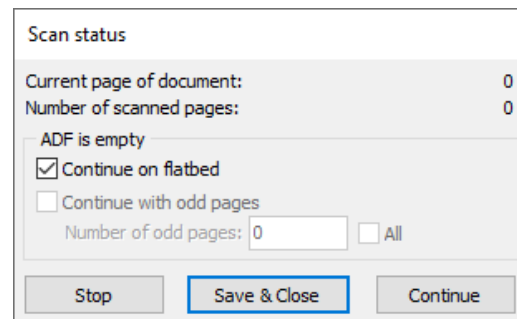


Image 66: Showing the status after canceling the scan

After finishing the scanning of all sheets in the feeder, scanning stops with a notification in the status window: "ADF is empty". You can resume scanning by inserting new documents for scanning in the feeder or by placing a new document for scanning onto the flatbed.

Before doing so, you must select the "Continue on flatbed" option. The scanning procedure is continued by clicking on the "Continue" button. Scanning can be stopped by clicking on the "Stop" button.

During scanning the scanner may pull the paper from the feeder incorrectly. In this case the paper in the scanner gets "crumpled" and scanning is stopped with the notification:

"Paper jammed in scanner".

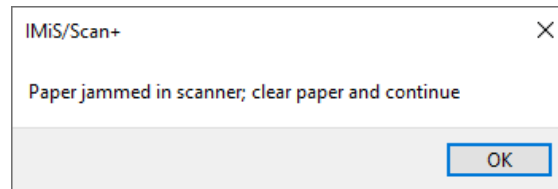


Image 67: "Paper jammed in scanner" notification

The paper must be physically removed from the scanner and the scanning procedure restarted. Sometimes it is also necessary to restart the scanner and IMiS®/Scan. Make sure that the paper does not have any folded edges and is placed straight between the guides. For "crumpled" paper we recommend scanning on the flatbed.

If you have selected the "Enable Save & Close button when ADF is empty" option in the "Scan" category in the "Preferences" dialog box, then after scanning all the sheets from the feeder the "Save and Close" button appears.

By clicking it, you can quickly and easily save and close the scanned document.

For more information see chapter [Setting options – Scan](#) and [Saving and closing a document](#).

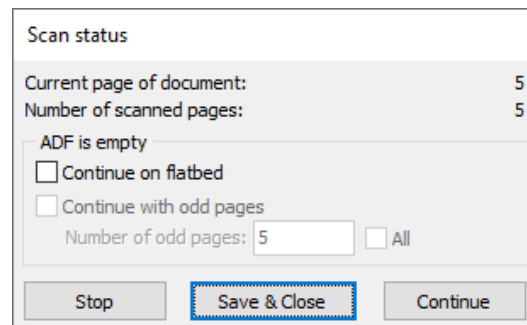


Image 68: Selecting "Save & Close" command

7.3.2 Copying to the Clipboard

Individual pages in the document can be copied to the clipboard by clicking the "Copy" option, located in the "Edit" menu.

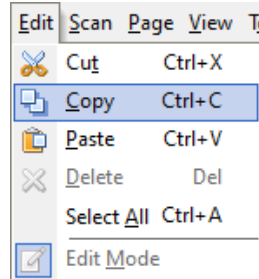



Image 69: Selecting "Copy" command from the "Edit" menu




You can also copy pages to the clipboard by clicking on the "Copy" icon  in the toolbar. An alternative option is via the "Tools" menu in the right thumbnail pane, where you select "Copy", or with the "Ctrl+C" or "Ctrl+Insert" key combination.

If only a single page is copied to the clipboard, this page can be pasted to any other application which enables the editing of image files (e.g. MS Paint, PhotoShop, etc.).

If you wish to remove the selected pages from the document after copying them, select "Cut", which is located in the "Edit" menu.



The cutting of pages to the clipboard can be performed by clicking the "Cut" icon  in the toolbar. An alternative option is via the "Tools" menu in the right thumbnail pane, where you select "Cut", or with the "Ctrl+X" or "Shift+Delete" key combination.

7.3.3 Pasting from the Clipboard

Contents can be added to a document via the clipboard from other applications as well or within the IMiS®/Scan application from one document into another. The "Paste" option is located in the "Edit" menu.

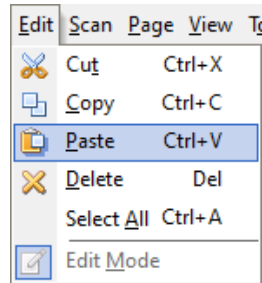



Image 70: Selecting "Paste" command from the "Edit" menu



The adding of images from the clipboard is performed by clicking the "Paste" icon  in the toolbar. An alternative option is via the "Tools" menu in the right thumbnail pane, where you select "Paste", or with the "Ctrl+V" or "Shift+Insert" key combination.

7.3.3.1 Adding contents from other Windows applications

If a Windows application enables the copying of images to the clipboard, these images can be added to a document open in the IMiS®/Scan application. You can add only one image or page at a time. Before you can add content with the "Paste" option, you need to copy it to the clipboard using the "Copy" option. For more information see chapter [Table of valid compressions for different types of files](#).

***Warning:** Transferring images via the clipboard affects the quality of the newly created image in IMiS®/Scan. For 24-bit image color depths we recommend the ZIP compression mode setting. This compression mode does not affect the image quality.*

If the clipboard does not contain an image or contains other content, an error message appears when transferring it to IMiS®/Scan.

7.4 Scrolling through a document

A document may have several pages. The thumbnail pane is used for scrolling through the pages. By clicking on the selected thumbnail, an image of that page appears in the central part. You can switch pages by clicking on the "Next" and "Previous" options in the "Page" menu.

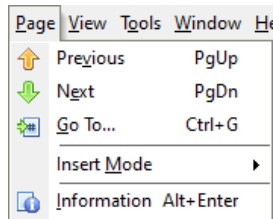


Image 71: Selecting "Previous" or "Next" command from the "Page" menu



"Page Down" or "Page Up" keys.



You jump to a specific page by clicking on the "Select page" option. A dialog box appears in which you enter the desired page number.



"Ctrl+G" key combination.

You can continuously scroll through a document by holding the up or down arrow keys.

7.4.1 Thumbnails

Thumbnails in the right pane can be hidden with a setting in the "Tools" menu by selecting the "Thumbnails" option.

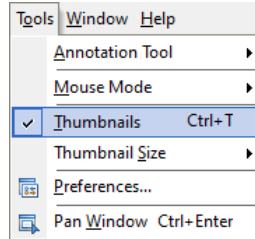


Image 72: Selecting "Thumbnails" command from the "Tools" menu



Thumbnails are hidden by right-clicking on the thumbnail pane; when the "Tools" menu appears, select the "Thumbnails" option.



"Ctrl+T" key combination.

Note: The same method is used to display them again.

The size of the thumbnails is selected in the "Thumbnail size" drop-down menu in the "Tools" menu.

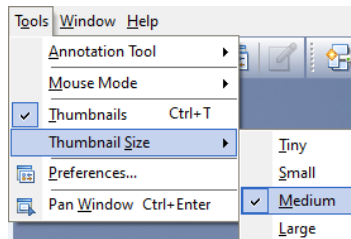


Image 73: Selecting "Thumbnail Size" command from the "Tools" menu



By right-clicking on the thumbnail pane, the "Tools" menu appears. Click on the "Thumbnail size" drop-down menu and select the desired thumbnail size.

This size setting applies only to the current user window; you can set the thumbnail size for all new user windows in the settings. For more information see chapter [Setting options – View](#).

7.5 Deleting pages

The document has to be in edit mode. Mark the page(s) in the thumbnail pane that you wish to remove from the document and select "Delete" in the "Edit" menu.

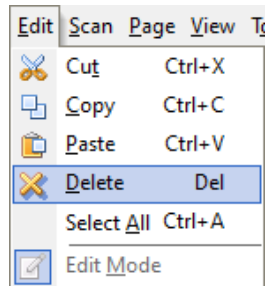


Image 74: Selecting "Delete" command from the "Edit" menu

The following dialog box appears:

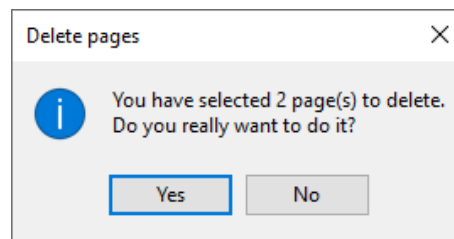



Image 75: Deleting page(s) notification

By clicking on the "Yes" button, the selected page(s) will be removed from the document.

If the document has only one page, the page cannot be deleted.

Warning: If the document has only one page, the page cannot be deleted.



Pages can be deleted by clicking on the "Delete" icon  in the toolbar or with the "Del" key.

7.6 Moving pages

You can arrange the pages within a document in a random order. Select the page(s) you wish to move and drag & drop them to the desired location. In order to do so, the document has to be in edit mode.

While moving the document pages, the mouse cursor on the page changes to 

The following dialog box appears:

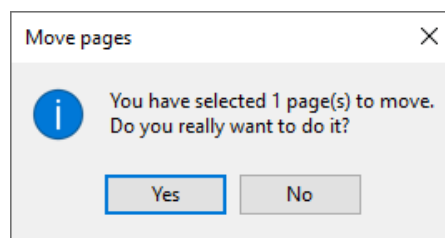



Image 76: Moving page(s) notification

By clicking on the "Yes" button, the selected page(s) will be moved to the newly selected location.

If the page cannot be moved, the mouse cursor on the page changes to  when trying to move it.




When moving pages, pay attention to the cursor position on the page. If the cursor flickers before a page when dropping a page, this means that you will insert the page before this one; if not, the page will be inserted after it.

7.7 Opening a document

The IMiS®/Scan application can be used for viewing all of the most commonly used image file formats such as TIFF, PDF, BMP, JPEG, GIF etc.

For more information see chapter [Recording of scanned documents](#).

By right-clicking on the IMiS® icon  in the taskbar, you can open an existing document. The "Tools" menu appears, from which you select "Open document"

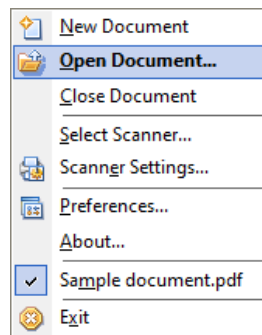



Image 77: Opening a document from the "Tools" menu



Double-click on the IMiS icon .

In an open IMiS®/Scan user window you can open a document in the "File" menu by clicking on the "Open" option.

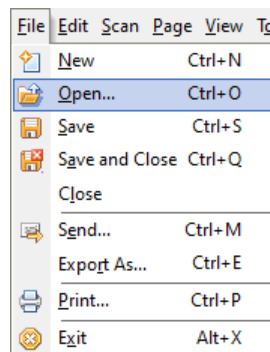


Image 78: Selecting "Open" command from the "File" menu

A dialog box appears, showing all the image files located in the currently selected folder. Find and select the desired file and confirm the selection by clicking on the "Open" button.



In the toolbar click on the "Open existing document" icon .



In Windows Explorer double-click on the desired file. If a file extension is associated with the IMiS®/Scan application, the file will automatically open in the IMiS®/Scan application.



Drag the desired file from Windows Explorer to the open IMiS®/Scan user window. The file opens in a newly opened IMiS®/Scan window.

A document can also be opened via an application programming interface from third-party applications; in this case the documents are saved on IMiS®/ARChive Server.

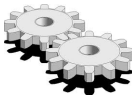
7.7.1 Procedure of opening an existing document

The procedure is started by opening a new user window in which the selected document appears. While opening the document, the user window displays a notification window stating that the document is being prepared for reading.

While this notification is being displayed, the following procedures are executed:

- The original document is copied to a temporary file.
- If the document contains an digital signature, its validity is verified.
- If the document contains redactions and the user does not have editing rights for the document, all of the redactions are merged with the document.
- Based on the user rights for this document, certain commands, and actions in IMiS®/Scan are disabled.

The scanned document is shown in reading mode and cannot be changed nor pages added. The title bar of the user window and the "Tools" menu show the name of the document.




In the event that the document cannot be found on IMiS®/ARCHIVE Server, the following notification appears: "Error <DOCIO_FILENOTFOUND> when opening document."

If the document is not located in the file system, the following notification appears: "Error <DOCIO_INVALIDPARAM>when opening document."

7.8 Description of the user window of an existing document

The user window of an open document enables only those actions and commands that do not modify the document contents. You can switch to edit mode by clicking on the "Enable mode" option in the "Edit" menu. By doing so, you can add new pages, remove existing pages, change the page order or add annotations to documents.



The edit mode can also be accessed by clicking on the "Enable edit mode" icon  in the toolbar.

7.8.1 Status bar

The status bar of a user window contains information about the current page, page insertion method, scale, rotation, flip, page size in pixels, color depth and file format of a new or open document. For more information see chapter [Document details](#).

Page 1 of 3	Insert	Scale: 51%	Rotation: 0°	Mirror: Off	Size: 2464x3512; Black/White	Format: TIFF
-------------	--------	------------	--------------	-------------	------------------------------	--------------

Image 79: Viewing status bar

7.8.2 Document details

In addition to an image of the page, each page in a document also contains metadata about the scanned document.

In order to display this data, click on the "Document information" category in the right pane. It can also be displayed by clicking on the "Information" option in the "Page" menu.

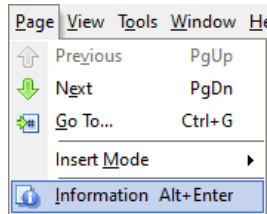



Image 80: Selecting "Information" command from the "Page" menu



By clicking on the "Show page Information" icon  or the "Alt+Enter" key combination, document details are displayed.

Document Information	
Page name	N/A
Page width	2464
Page length	3512
H. resolution	299 dots per i...
V. resolution	299 dots per i...
Samples per pixel	1
Bits per sample	1
Page orientation	Portrait
Compression	CCITT Group ...
Compressed size	20.537 bytes
Software	Pixel Translati...
Created on	N/A
Created by	N/A
Host computer	N/A
Modified on	N/A
Page count	3
Page scanned	0
Scanner	PaperStream_...
Signed	False

Image 81: Selecting the right pane "Document information"

The following page details are displayed:

- Page name.
- Page width and length in pixels.
- Horizontal and vertical resolution in dots per inch (dpi).
- Number of patterns per pixel and number of bits per pattern, which determine the image color depth.
- Image orientation: portrait, landscape, rotate or flip.
- The compression mode shows the name of the used compression mode.
For more information see chapter [Scanning resolution and quality](#).
- Compressed image size when using the previous compression method.
- Software: name of the application which created the page or document.
- Date created: date and hour when the page or document was created.
- Author of the page or document.
- The name of the computer on which the page or document was created.
This detail is available only for TIFF file formats.
- Date modified: shows the date and hour of the last modification to the document.
- The attributes which do not exist are labeled "Not available".
- "Signed": shows whether the document has been signed or not.
For more information see chapter [Digital signing of a document](#).

In the case of the PDF file format these details refer to the entire document, since the PDF format does not enable the saving of metadata for individual pages.


7.8.3 Toolbar

Commands are executed in IMiS®/Scan via the menu, the toolbar, "Tools" menu, right pane or keyboard. The toolbar is intended for the use of the most frequently used commands of the IMiS®/Scan application.

The commands are combined into five toolbar groups: standard, scan, tools, page, view.



Image 82: The toolbar

Each group can be moved or hidden randomly. It can be moved by dragging its handle  to the desired location. By right-clicking above the toolbar or menu, the "Tools" menu appears, in which you select the bar you wish to hide or show.

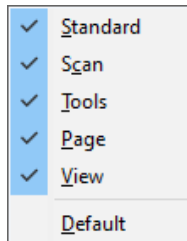


Image 83: Selecting the bar to hide or show

By clicking on the "Default" option, all the bars are shown and placed in the default location.

7.9 Sending a document by email

A currently open document is sent by email by clicking on the "Send" option in the "File" menu.

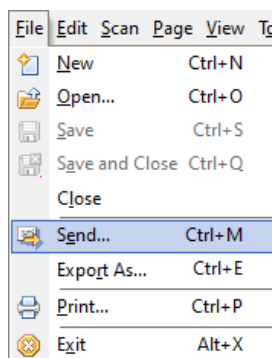



Image 84: Selecting "Send" command from the "File" menu



The sending action can also be executed by clicking on the "Send active document by mail" icon  or by using the "Ctrl+M" key combination.

By clicking on the "Send" option, a dialog box appears, in which you can set the options before exporting the document.

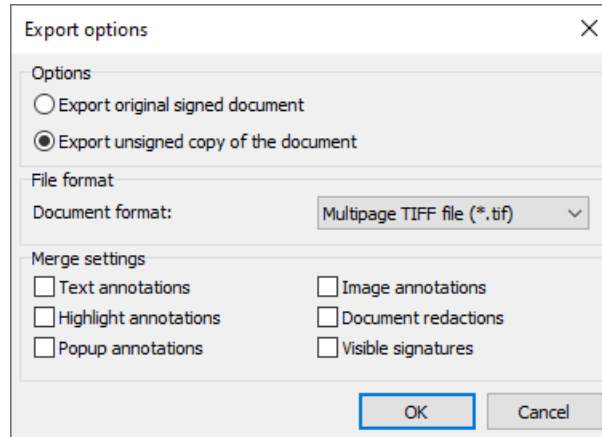


Image 85: Setting parameters in the "Export options" dialog box

If you have selected "Hide export options dialog" in the "Export" category, this dialog box will not appear. The default export settings will apply. For more information see chapter [Setting options – Export](#).

The options shown in the dialog box depend on the document contents. If the document does not contain a digital signature, the "Options" group is not available.

The document can be sent by email in another image format. You can choose between the Multiple TIFF and Adobe PDF file formats. The same goes for the "Merge settings" group, which does not appear if the document does not contain annotations.

When selecting the sending of a document copy, you can select which types of annotations will be merged with the document. The unselected annotation types will not be transferred to the copy.

The "Settings" group appears only if one of the pages has been rotated/ mirrored.

After confirming the settings, the default email client creates a new email to which this document is attached. The email must be completed by adding the email address of the recipient.

Warning: Color annotations on a black-and-white page, which are set to be "merged" when sent, are changed to a shade of gray.

7.10 Exporting a document to a file system

A currently open document can be sent by email by clicking on the "Export as" option in the "File" menu.

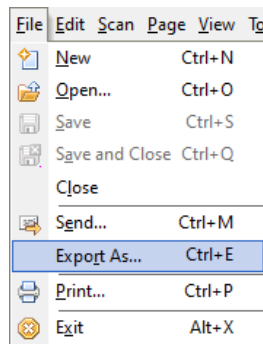


Image 86: Selecting "Export as" command from the "File" menu



By using the "Ctrl+E" key combination.

By clicking on the "Export as" option, a dialog box for saving files appears. Enter the name of the new document and select the file format. You can choose between the Multiple TIFF and Adobe PDF file format. For more information see chapter [File compression and size](#).

By clicking on the "Save" button, a dialog box appears with the option of selecting additional export settings. For more information see chapter [Sending a document by email](#).

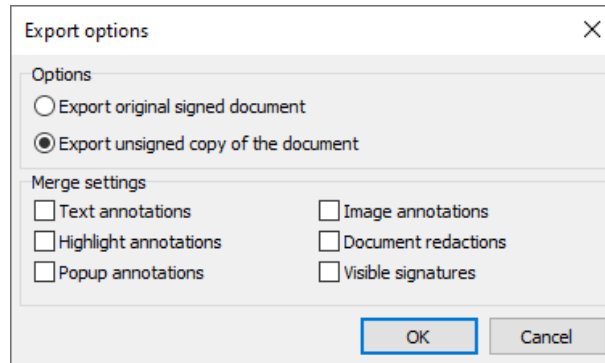


Image 87: Setting parameters in the "Export options" dialog box

After confirming the settings, a new file with the previously entered name is created in the selected file location.

Warning: Color annotations on a black-and-white page, which are set to be "merged" when saved, are changed to a shade of gray.

7.11 Printing a document

A document is printed by clicking on the "Print" option in the "File" menu.

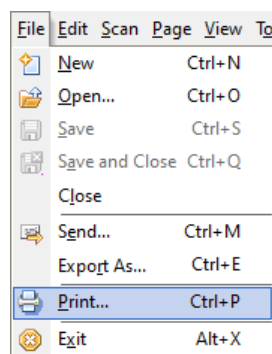


Image 88: Selecting "Print" command from the "File" menu

A dialog box for printing appears, in which you select the printer and the pages to be printed.

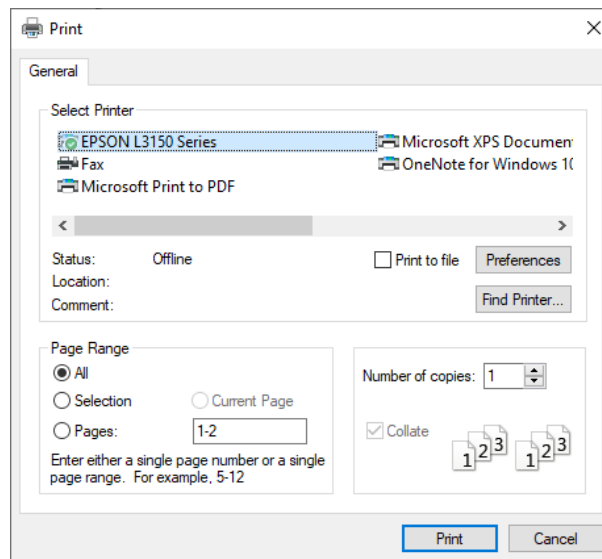



Image 89: Setting parameters in the "Print" dialog box

In the box, set the parameters of the currently selected printer. By clicking on the "Print" button, you send the document or selected pages to print.



By clicking on the "Print" icon  in the toolbar, the default printer starts the printing procedure, without showing the dialog box for printing.

7.12 Inverting colors

This functionality enables changing the document image into a negative. In the case of scanned documents with poorer quality this can improve the readability of the contents. The inverting of colors is turned on with the "Invert" command in the "View" menu.

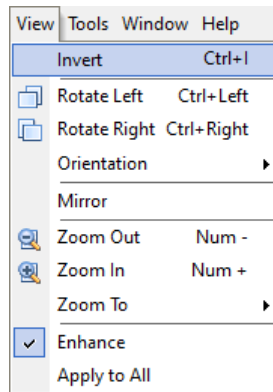


Image 90: Selecting "Print" command from the "View" menu

7.13 Rotating and mirroring pages

Every page in the document can be rotated to the left or right by 90°. You can also select the rotation of a document by 90°, 180° or 270° to the right. Rotating to the left or right is performed by clicking on the "Rotate left" or "Rotate right" options in the "Orientation" menu and the "View" menu.

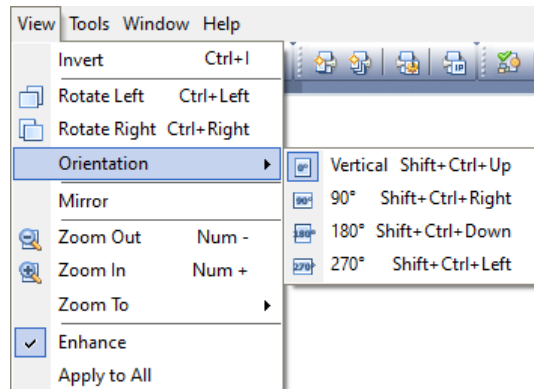




Image 91: Selecting "Orientation" command from the "View" menu



In the toolbar select the "Rotate left"  or "Rotate right"  icon.



With the "Ctrl + Left arrow key" or "Ctrl + Right arrow key" key combination.

An image is mirrored by clicking on the "Mirror" option in the "View" menu.

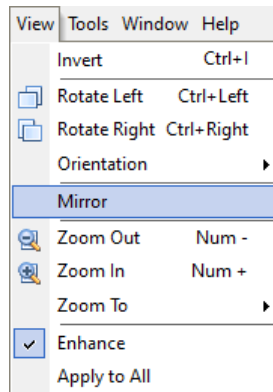


Image 92: Selecting "Mirror" command from the "View" menu

If you wish to permanently save this new page orientation, save the document, which must be in edit mode.

Note: Saving a document with changed page orientation means that the contents of the scanned document are modified and therefore the document no longer matches the original one.

7.14 Page zooming

Pages which are too big or too small can be zoomed in/zoomed out to the desired zoom level. Pages are zoomed by zoom percentages or in accordance with the size of the user window. The zoom percentage is changed by clicking on the "Zoom Out" or "Zoom In" option in the "View" menu.

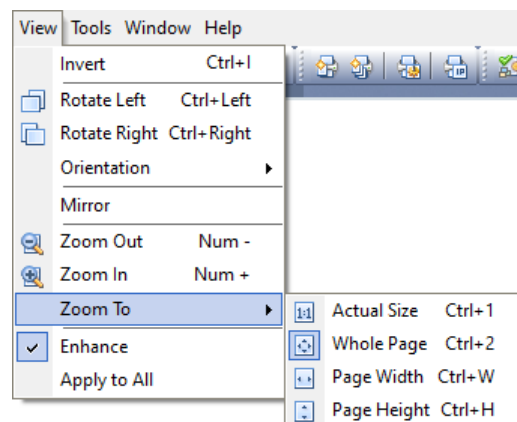




Image 93: Selecting "Zoom Out/In" command from the "View" menu



In the toolbar select the "Zoom Out"  or "Zoom In" icon .







With the "+" or "-" keys on the numeric keypad.



With the "Ctrl key and by simultaneously moving the scroll wheel".

Zoom selection is performed in accordance with the size of the user window by clicking on the "Zoom" option in the "View" menu. For more information see chapter [Setting options – View](#).



By clicking on the toolbar icons: "Actual size" , "Show whole page" , "Page width"  or "Page height" .

The zooming of a specific area of the image is achieved by clicking on the "Zoom" option in the "Mouse mode" submenu in the "Tools" menu.

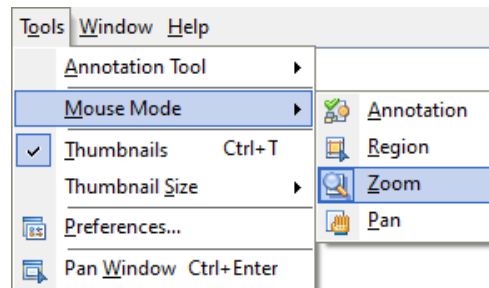




Image 94: Selecting "Zoom" command from the "Tools" menu

The mouse cursor changes to a magnifying glass  and you mark the area you wish to zoom by dragging it. The zoomed area can be changed back with the above-mentioned options, e.g. the "+" or "-" keys.

7.15 Viewing a page

More detailed viewing of the contents of a scanned document is easier if the page view has been enlarged; the arrow keys are used for scrolling through the page. You can also change the operation mode to "View", which changes the mouse cursor to a hand . By holding the left mouse button and moving the mouse, you scroll through the page. You can find the "View" operation mode by clicking on the "Pan" option in the "Mouse mode" submenu in the "Tools" menu.

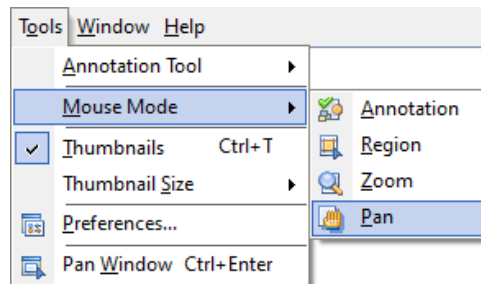



Image 95: Selecting "Pan" command from the "Tools" menu



The "Pan" option can also be activated from the toolbar by selecting the "Pan mouse mode" icon. 

7.16 Region selection

Region selection is used when you wish to mark a section of a page or contents in a document. In the "Tools" menu, select the "Mouse mode" submenu and the "Region" option within it. Then place the cursor on the section of the document you wish to mark. Mark the desired region by left-clicking and dragging.

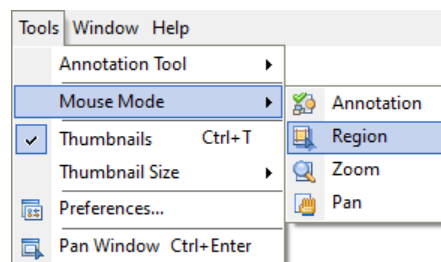


Image 96: Selecting "Region" command from the "Tools" menu



In the toolbar select the "Region mouse mode" icon.

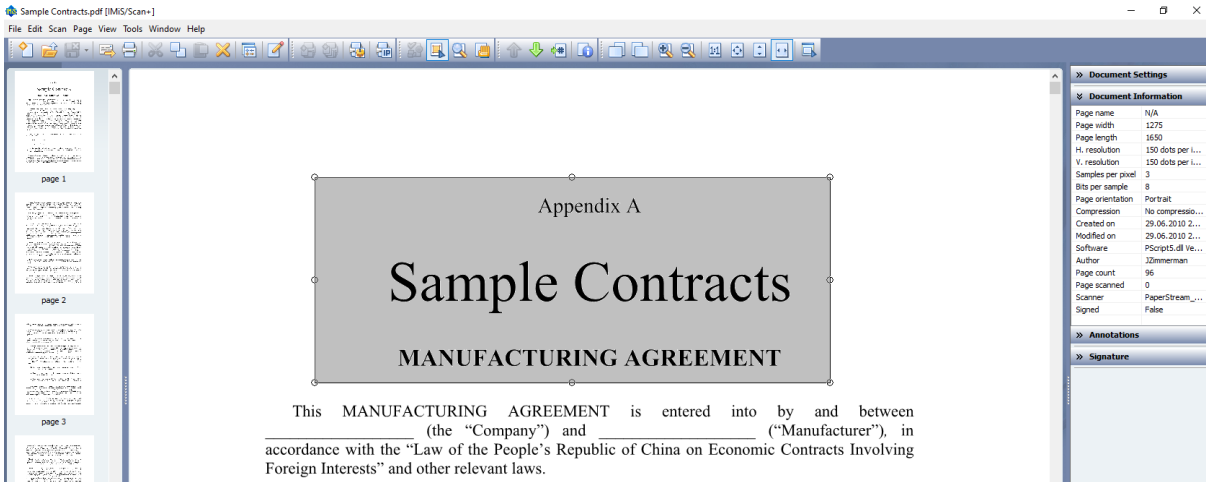



Image 97: Selecting the region in the document

By clicking and holding the left mouse button in the selected region, you can move this region across the page.


After the region has been placed in the desired location, you can use the "Copy" or "Paste" function.

Copy selection to clipboard

You copy a part of an image by clicking on the "Copy selection to clipboard" icon .

Insert clipboard contents

The contents in the clipboard can be inserted into the currently open document or into a new document as a new page. They are inserted by clicking on the "Insert clipboard contents" icon

 in the toolbar.

Cropping a part of an image

Use the cropping of a part of an image when you wish to keep only the contents marked with this region and not the entire page. By right-clicking on the selected region, the "Tools" menu appears. Cropping is performed by right clicking on the "Crop" option.

By doing so, the current page is deleted and replaced with the contents of the selected area.

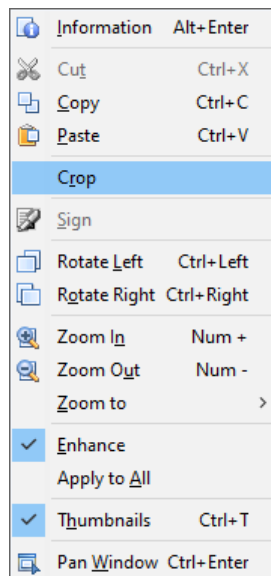


Image 98: Selecting "Crop" command from the "Tools" menu

7.17 Saving and closing a document

After finishing the scan or modification of an existing document, this document can be saved by clicking on the "Save and Close" option in the "File" menu.

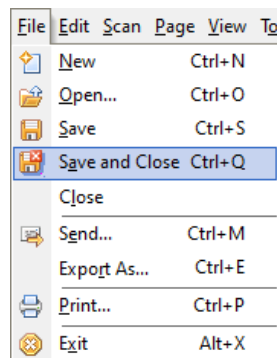




Image 99: Selecting "Save and close" command from the "File" menu



By clicking on the "Save and Close" icon  in the toolbar or with the "Ctrl+Q" key combination. After saving is complete, the IMiS®/Scan user window closes.

If you wish to save a document without closing it, select "Save".



By clicking on the arrow by "Save and Close" icon  in the toolbar, the "Save" icon appears. Click on it.



With the "Ctrl+S" key combination.

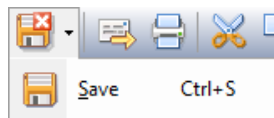


Image 100: Selecting "Save and Close" icon in the toolbar

If the document has not yet been named, a window for saving files opens, in which you specify the name of the document and the folder to which it will be saved. After clicking on the "Save" button, the document is saved.

Note: During the saving stage, the contents of a digitally signed document are digitally signed with a previously selected digital certificate. Subsequent modifications invalidate the digital signature.

If you modify or add annotations to an existing document, the following dialog box appears when saving it:

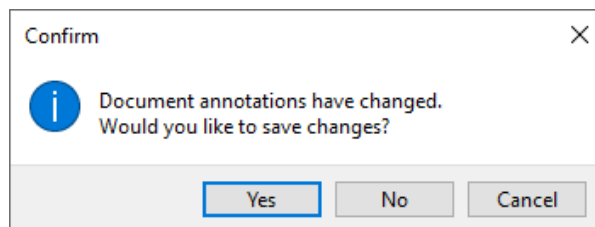



Image 101: Saving document with annotations notification

By clicking on the "Yes" button, all of the modified annotations are saved in the document.

By clicking on the "No" button, all modifications to the annotations are discarded.

By clicking on the "Cancel" button, you abort saving and return to the IMiS®/Scan user window.

7.17.1 Closing a document

The IMiS®/Scan user window can be closed by clicking on the cross  in the window's title bar or with the "Esc" key. Closing with the "Esc" key must be turned on in the application settings. For more information see chapter [Setting options – General](#).

If the document has been modified and not yet saved prior to closing, the following dialog box appears:

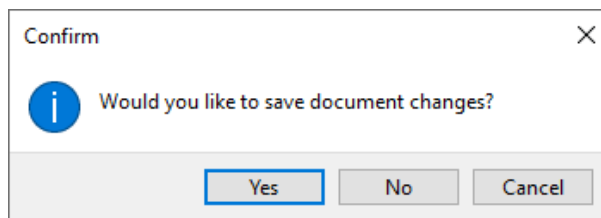


Image 102: Saving document with changes notification

By clicking on the "Yes" button, the document is saved and the user window closes.

By clicking on the "No" button, all changes to the document are discarded and the user window closes.

By clicking on the "Cancel" button, you return to the user window without saving the changes.

7.18 Annotations

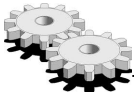
IMiS®/Scan offers various types of annotations for highlighting or hiding important parts of the content of scanned documents. Annotations can be added, modified or deleted, for which you must have the appropriate rights. For more information see chapter [Setting Annotation Rights](#).

The document must be in edit mode. Changes to annotations are preserved only by saving the document.

Warning: Saving annotations is possible only for the TIFF format. If the user adds an annotation to the document in the PDF/A format, when saving the document, the user will be shown the notification that the annotation will not be saved to this document.

7.18.1 Annotation tools











Annotations are edited via the "Annotations" category in the right pane. By clicking on an individual annotation icon, the settings for the selected annotation appear in the bottom part of the "Annotations" category. The last selected annotation tool is saved as default when closing the user window and is hence automatically selected when you wish to add an annotation to another document. The document has to be in edit mode.



The value of the last selected annotation tool is saved in the Windows registry in the *LastAnnotationSelected* field in the *HKEY_CURRENT_USER\Software\IS\IMiS\IMiSScan* subkey.

The table describes all of the available annotation tools.

	<p>Tool preservation mode. Every time you use an annotation tool it becomes the default active selection tool. By selecting this icon, you enable the annotation tool preservation mode, which means that after you select an annotation tool that tool remains active for reuse, namely until you select another tool. In the "Annotations" category in the "Preferences" submenu in the "Tools" menu, set the default status of the tool preservation mode. For more information see chapter Setting options.</p>
	<p>Selection tool. An individual annotation is selected by left-clicking. If you wish to simultaneously select several annotations in a document, left-click and drag to mark the area in which the desired annotations are located.</p>
	<p>Text annotation. Place a text annotation in a scanned document. A flickering mouse cursor appears in a box into which you write a random text. After entering the text, click outside of the annotation text box. The text and text format can be edited by changing the properties in the right pane.</p>

	Highlighting tool. This annotation is used for highlighting contents in the scanned document. Drag a rectangle across the area you wish to highlight. The highlight color is set in the right pane.
	Redaction tool. It is used to hide specific parts of a document. The redaction is dragged across the region you wish to hide and its color is changed if need be (in properties). The redacted contents are visible only to users with the right to see through the redaction. For more information see chapter Setting annotation rights .
	Comments. Click on the location in which you wish to add a comment. Write the comment and specify the caption which will be shown beneath the comment icon. By double-clicking on the comment icon, you open and edit the comment. In the right pane you can edit additional settings, such as: text, icon image, comment colors etc.
	Arrow tool. Select this tool when you wish to draw arrows in the image. Define the properties for the head and tail of the arrow, an additional caption etc.
	Line. This annotation is used for drawing lines freehand. In the right pane set the line thickness and color.
	Annotation in the shape of an ellipse. It is used for drawing ellipses. In the right pane you can set the background color of the ellipse.
	Rectangular annotation. Draw a rectangle in the image. As with the ellipse, fill the rectangle with the desired background color.
	Line breaking tool. This annotation is used for drawing broken lines. Drawing is concluded by double-clicking on the left mouse button in the desired location. In the right pane set the color and/or thickness of the line and/or background.
	Image annotation. This annotation is used when wishing to insert an image annotation into a document. If the file path to the image is not specified in the right pane, a dialog box for opening files appears, in which you select the path to the image file. IMiS®/Scan enables only the insertion of the BMP file format.
	Stamp annotation. This annotation is used for preselected images, which are specified in the "Annotations" category in the "Options" menu in the "Tools" menu. For more information see chapter Setting options – Annotations .

User annotations. Annotations appear which the user has previously saved and which can be selected for reuse.

7.18.2 Editing annotations

In order to edit the annotation settings, the document must be in edit mode and the "Annotations" category must be opened in the right pane. When using IMiS®/Scan through another application, you need appropriate rights for editing annotations.

For more information see chapter [Setting annotation rights](#).

Select an existing annotation in the document or an icon in the annotations bar.

The settings for this annotation appear in the right pane.

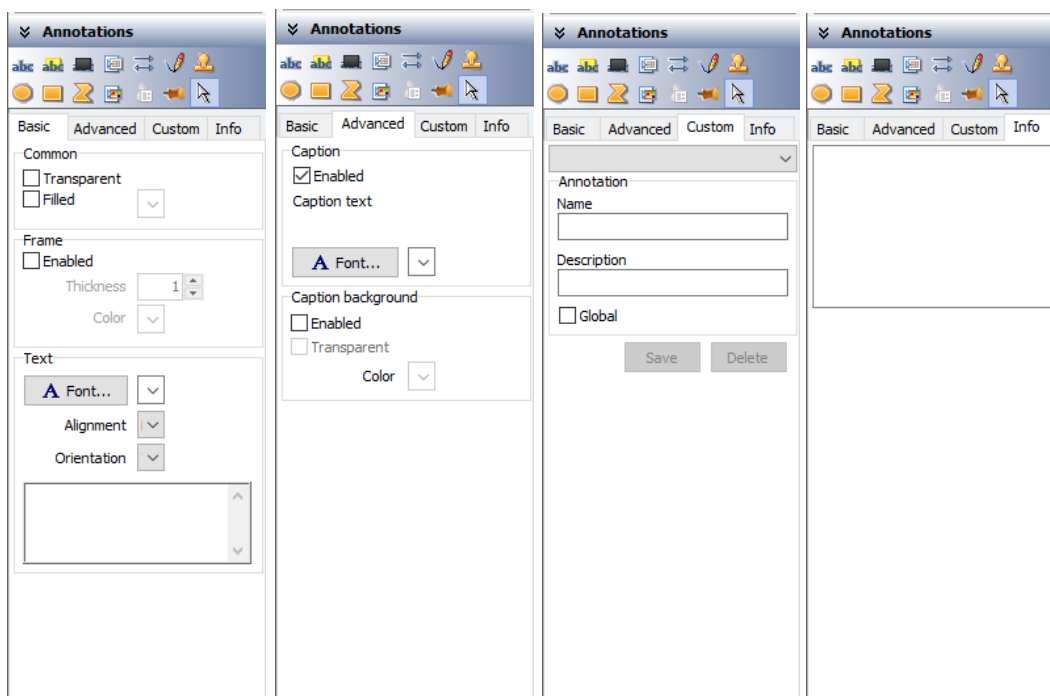


Image 103: Annotation settings in the right pane "Annotations"

7.18.3 Copying and merging annotations

In IMiS®/Scan annotations can be copied, cut or inserted to other pages of the document or into other documents. Select an annotation by right-clicking.

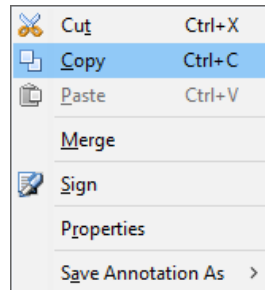


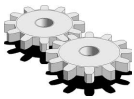
Image 104: Selecting "Copy" command from the "Tools" menu

Select the desired action from the "Tools" menu.

You can merge an individual annotation in the document with the document. By doing so, the annotation becomes a part of the scanned document.

Note: By merging annotations, you modify the document contents.

7.18.4 Setting annotation rights



You can set the rights of a user for each type of annotation.

The rights can be set only through another application. When invoking the window for setting rights in another application, the following options appear:

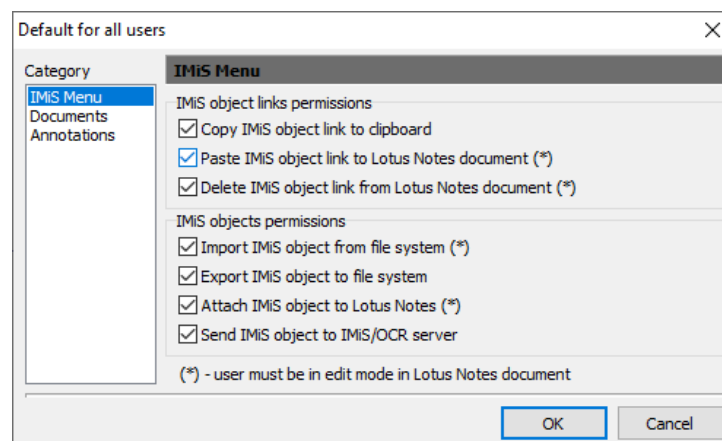


Image 105: Setting annotation rights in another application

You can specify for each type of annotation whether a user has the right to see it in a document and whether the user has the right to add new annotations to a document.

Warning: During redaction you set the rights of a user for viewing the redacted contents.

If the user does not have that right, the redaction stays in the document and the user cannot remove it.

7.18.5 User annotations

All annotations in a document can be saved for reuse. They are available to the person who saved the annotation. By right-clicking on the desired annotation, the "Tools" menu appears.

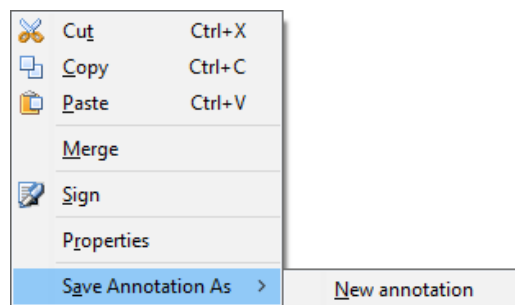


Image 106: Selecting "Save Annotation As" command from the "Tools" menu

Select "Save annotation as" from the menu and then select "New annotation". A dialog box appears in which you enter the user annotation name.

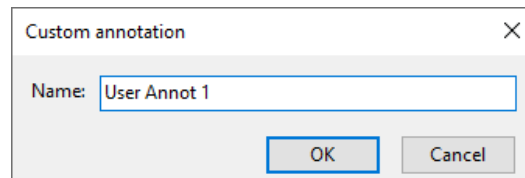



Image 107: Saving custom annotation

Confirm the entry by clicking on the "OK" button.

The annotation can be invoked to the document by selecting the annotation name. User annotations are selected by clicking on the "User annotations" icon  in the annotations bar. A list of saved annotations appears.

The selected annotation is placed in the document in the same location as it was inserted when being saved. It can be manually dragged to another location in the document with the mouse.

If you have selected the default option "Enable custom annotation mouse move" in the settings, the user annotation is not immediately placed in the document. The location of the annotation is selected by moving the mouse and clicking on the selected location in the document.

A user annotation can be selected from the drop-down menu in the "Custom" tab under the "Annotations" category.

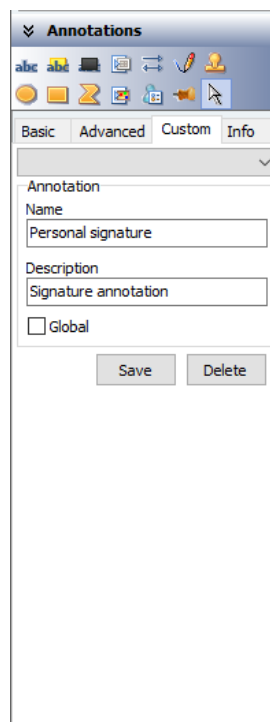
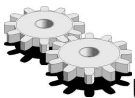


Image 108: Selecting the custom annotation

To delete a saved user annotation, select the annotation and click on the "Delete" button. The user annotation is removed from the list.



User annotations are saved in the Windows registry in the *HKEY_CURRENT_USER\Software\IS\UserAnnot* subkey. The value of each user annotation is recorded in the field containing the name of the user annotation.

7.19 Arranging user windows

The easiest way to arrange several simultaneously open windows is by using the "Window" menu.

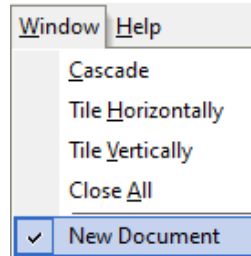


Image 109: Arranging user windows from the "Window" menu

Open documents can be arranged in one of the following ways:

- One after another in a cascade.
- Distributed horizontally, side-by-side.
- Distributed vertically, one beneath the other.

7.20 "Help" menu

By clicking on the "IMiS Homepage" option, the default Internet browser opens the website of Imaging Systems Inc. (<http://www.imis.eu>).

By clicking on the "IMiS Manual" option, the default Internet browser opens the first page of the user manual.

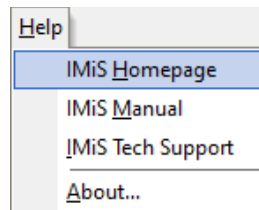


Image 110: Selecting "IMiS Homepage" command from the "Help" menu

By clicking on the "IMiS Tech Support" option, the default email client creates a new message for the addressee support@imis.eu. The message contents contain information about the installed version of the IMiS®/Scan application and utility libraries. Attached to the message is the operations log for the IMiS®/Scan application in connection with IMiS®/ARChive Server.

This information helps technical support eliminate problems.

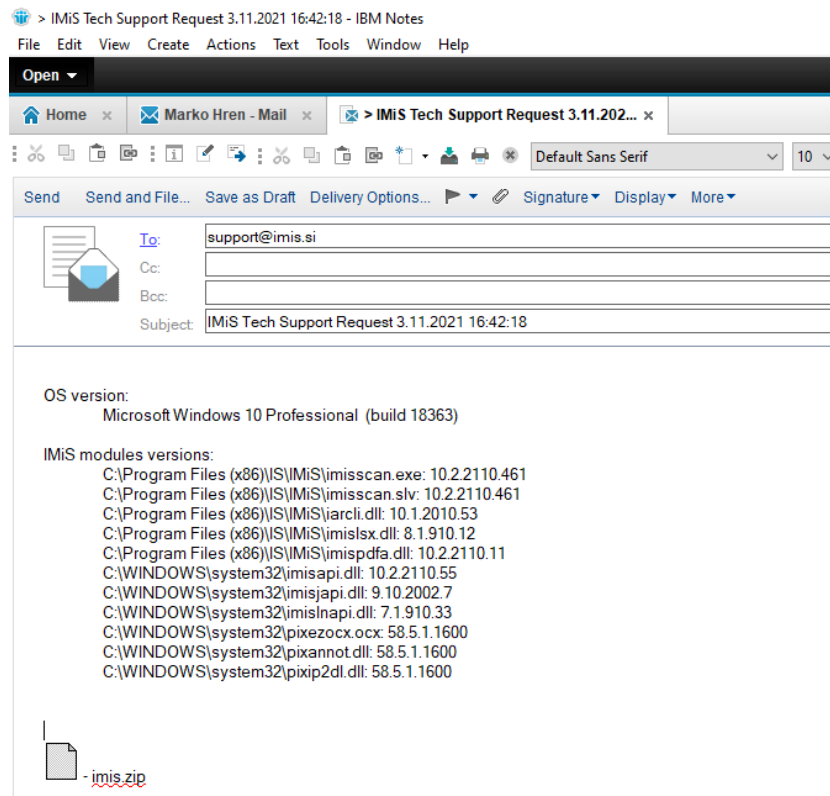


Image 111: IMiS® Technical support request

By clicking on the "About" option, the splash screen of the IMiS®/Scan application appears, which contains details about the application version.



Image 112: The information about the product version

7.21 Digital signing of a document

7.21.1 Setting and adding a signature

Documents scanned with the IMiS®/Scan application can be digitally signed.

A digital signature can be a mere electronic record in the document, which is not visible to the user, or can be graphically depicted and visible to the user when viewing the document in a viewer. Signature settings are edited in the "Signature" category in the right pane of the user window.

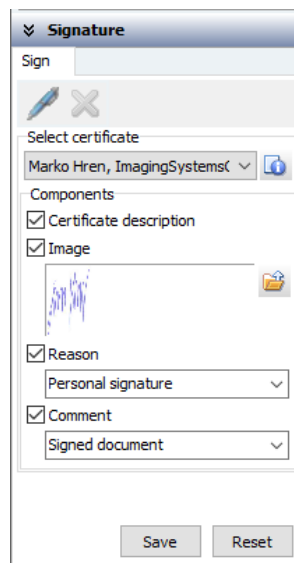



Image 113: Digital signature settings in the right pane "Signature"

Settings for digital signing are possible only if:

- the document is in edit mode;
- a certificate is installed on the computer;
- the document you wish to sign is not empty.

Before signing it digitally, select a digital certificate. The default digital certificate setting is selected in the "Signature" category in the "Preferences" submenu in the "Tools" menu.

Detailed information about the currently selected digital certificate can be viewed by clicking on the "Certificate information" button  in the "Select certificate" group.

A window opens containing a notification and digital certificate details.


In the "Components" group, select which information about the digital signature will be shown in the scanned document. The options are as follows:

- Text description of the digital certificate.
- Image of a handwritten signature or any other visual mark.
- Signature reason, which can be saved to be reused in the next signing session.
- Visible comments to the document.

A document can also be digitally signed without any visible marks on the document.

By clicking on the "Save" button, all the digital signature settings are saved for later, faster use. Likewise preserved are the size and current position of the visible part of the signature.

By clicking on the "Reset" button, the changed settings are set to their previous values.

Digital signing is performed by clicking on the "Add signature on document" icon .

Place the selected components of the visible signature to the desired location in the document using the mouse.

By doing so, the document is not yet digitally signed. The document is signed when it is saved, because then the entire contents of the document are uniformly coded, together with the digital certificate, and recorded into the document.

This procedure is also temporarily executed when printing or sending by email.

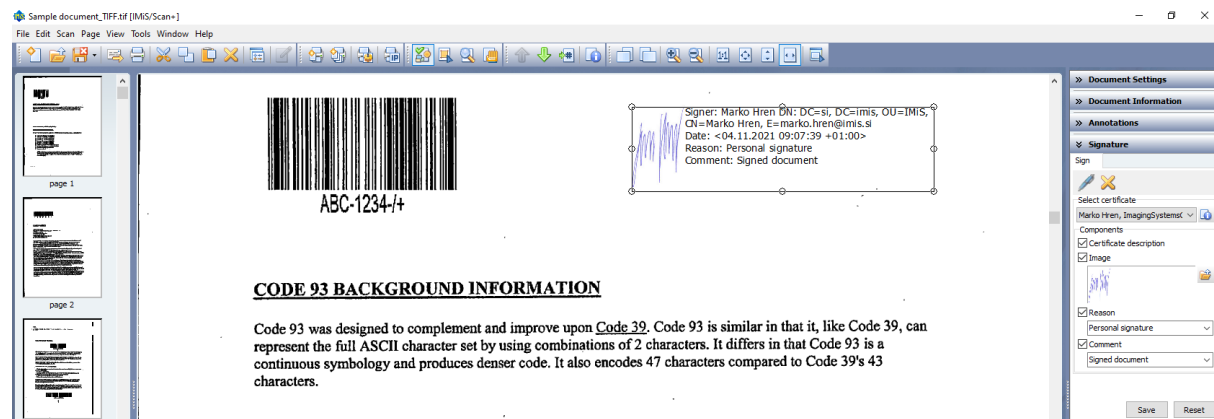





Image 114: Adding digital signature to the document

You can add digital signatures of other users to a document which has already been signed by a user. A document can be signed by several users in a row or in parallel.

7.21.2 Showing of digitally signed documents

Before showing a digitally signed document in the user interface, the validity of the signatures is verified. The verification result is shown visually in the user window, next to each signature in the document.

Visual Mark	Description of the Mark's Meaning
	The document contents have not been modified after being signed and the signer's digital certificate is valid.
	The document contents have not been modified after being signed, however, the signer's digital certificate has expired.
	The document contents have been modified after being signed or the signer's digital certificate is invalid.

For more detailed information about the digital signature click on the "Details" tab in the right pane in the "Signature" category. Signatures which are not visually presented in the document are also listed here.

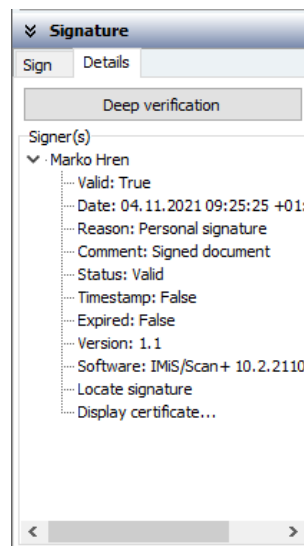



Image 115: Digital signature details in the right pane "Signature"

By clicking on the "Deep verification" button, you activate the procedure of the detailed verification of the validity of the signer's digital certificate.

The "Signer(s)" group contains a tree view of all the metadata for an individual digital signature, where is shown the:

- validity of the signature;
- date the signature was created;
- reason for the signature;
- signature comment;
- validity of the signer's certificate;
- presence of a timestamp;
- expiration date of the certificate;
- signature version;
- application with which it was created.

By clicking on the "Locate signature" parameter in the tree view, a page appears in the central part of the user window, which contains the signature.

By double-clicking on the certificate image  or by clicking on the "Display certificate..." parameter in the tree view, a dialog box appears, containing all the details of the signer's certificate.

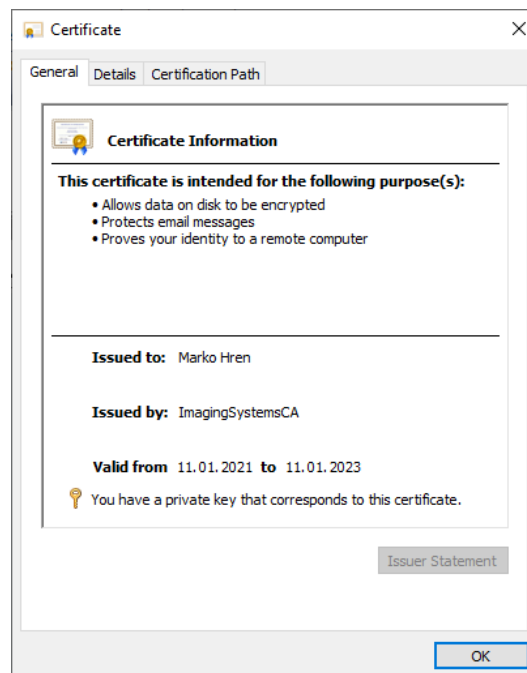



Image 116: Displaying signer(s) certificate(s)

7.21.3 Editing a digitally signed document

In the IMiS®/Scan application you can edit or digitally sign a document with your own signature. In both cases the document must be set to edit mode.

This is performed by clicking on the "Enable edit mode" icon  in the toolbar.

The following dialog box appears:

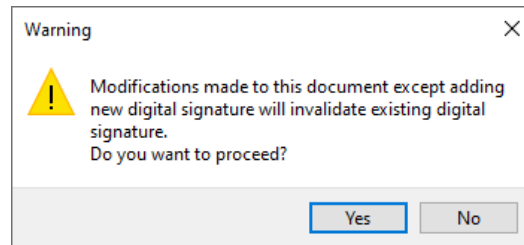


Image 117: Document modification notification

Confirm the selection by clicking on the "Yes" button.

By modifying the contents of an already signed document, you invalidate all existing digital signatures in the document.

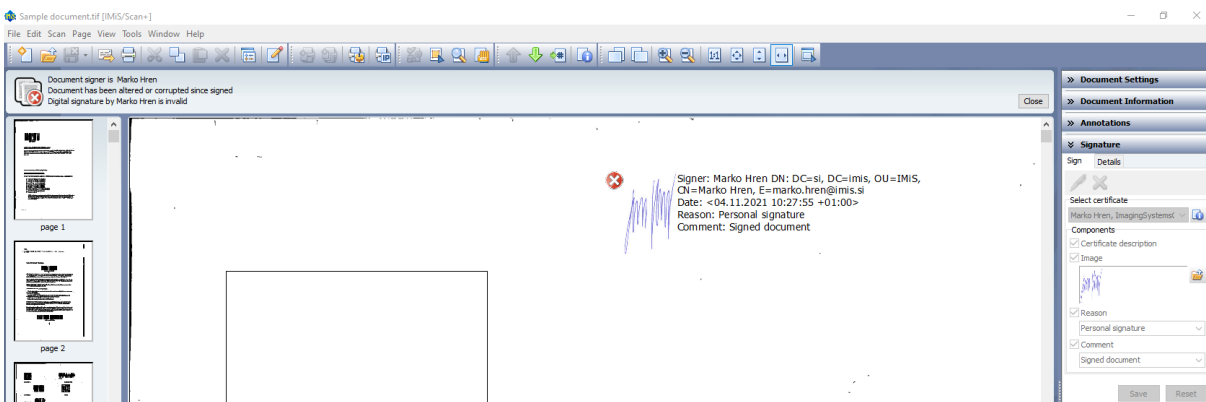


Image 118: Modifying the contents of signed document

A document modified this way can be signed again with your own certificate, removing all of the visible parts of the invalid signatures in the document from the document.

Their presence in the document is visible only in the "Signatures" category in the "Details" tab in the "Signer(s)" list.

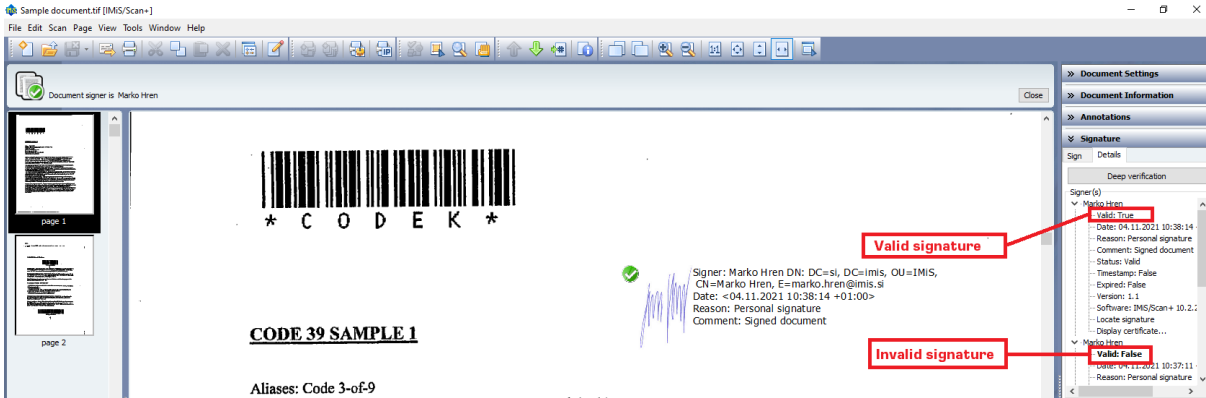


Image 119: Validity of the digital signatures in the document

It may occur that while you are viewing a document in reading mode another user modifies the document and, consequently, the validity of the signatures. If the document contents have been modified while you were viewing the document, it is reread from the file system. The validity of digital signatures is likewise verified anew.

7.21.4 Digital signing of a document through another application

If IMiS®/Scan is integrated in a different application, it is possible to perform a digital signing of a document without using the user interface. TIFF and PDF/A documents can be signed. For more information see chapter [Integration of IMiS®/Scan into another application](#).

IMiS®/Scan supports two solutions for signing documents in such a way:

- integration via a C-API solution, which is executed by invoking the *imisapi* function
ImiSSignObject

Example of a code in a HCL Notes script:

```
C-API
...
Declare Function IMiSSignObject Lib "IMiSapi.dll" (Byval StoreType As Long, Byval StoreInfo As String, ObjId
As String, CertificateIdType As Long, CertificateId As String, SignInfo As SignInfoStruc) As Long
...
'signing a document, with no certificate or a visual stamp given
rezultat& = IMiSSignObject (CIng(IMiSObjectSty&),StoreInfo,IMiSObjectID$, 0, nil, nil)
If rezultat& = 20 Then
'signing failed
...
```

- integration via a COM interface, which is executed by invoking the *Sign* method on the
ImiSDocument object

Example of a code in a HCL Notes script:

```
COM
...
Set IMiSApp = CreateObject("IMiSClient.Application")

'Connect with IMiS/ARChive Server
Set IMiSStorage = IMiSApp.OpenIMiSArcStorage("dev-iarc.imis.si", 16810, "Documents")

'Open IMiS document
Set IMiSObj = IMiSStorage.OpenDocument(documentID)

'signing a document, with no certificate or a visual stamp given
Rez = IMiSObj.Sign(0, null, null)
...
```

It is possible to provide a preselected certificate and a visual representation of the signature (a BMP file) for both solutions. If the certificate is not specified or doesn't exist on the computer, a certificate selection window will appear during the signing process.

Once you select the certificate, the signing process will begin. The optionally specified visual representation of the signature will be added to the document. If the signing fails, both solutions will return an error SIGNERROR (20).

The file that we are signing remains unchanged.

For a more detailed description and use of other parameters contact support@imis.eu.

8 TROUBLESHOOTING

8.1 Launch problems

8.1.1 Missing libraries

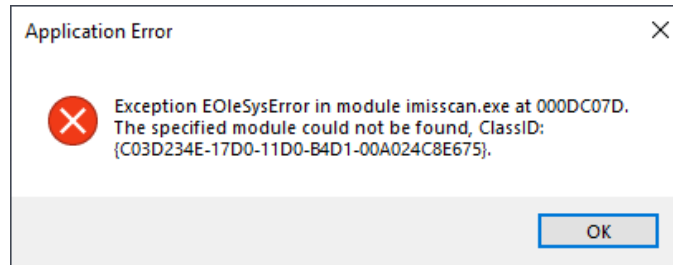


Image 120: Module not properly registered notification example

Cause: The IMiS®/Scan application has failed to load all libraries to ensure proper operation. Most likely, one of them was installed incorrectly or the module versions are incompatible.

Eliminating the error: Remove the installed IMiS®/Scan product. Reinstall the IMiS®/Scan product. In the case that the error reappears, turn to technical support via email: support@imis.eu.

8.1.2 Error initializing common tables

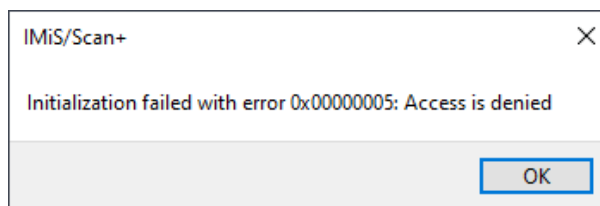


Image 121: "Initialization failed" notification

Cause: The English text in the error description may differ and depends on the cause of the error. The most likely cause of the error is insufficient user rights for invoking the Windows CreateFileMapping function or incorrect product installation.

Eliminating the error: Turn to technical support via email: support@imis.eu.

Based on the English description of the error, technical support will send a suggestion for eliminating this error.

8.2 Scanning problems

8.2.1 Cannot communicate with scanner

Communication with the scanner is not possible or the scanner driver has not been installed.

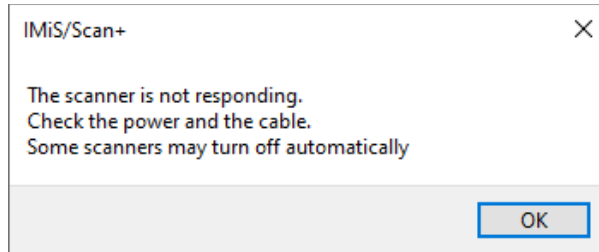


Image 122: "The scanner is not responding" notification

Cause: The scanner driver has not been installed in the IMiS®/Scan application or cannot establish initial communication with the scanner.

Eliminating the error: Check the power and data cable from the scanner to the computer. Turn the scanner off and then back on. Shutdown and restart the IMiS®/Scan application. Check the scanner settings to see if the correct driver for the connected scanner is installed.

8.2.2 Paper jammed in scanner

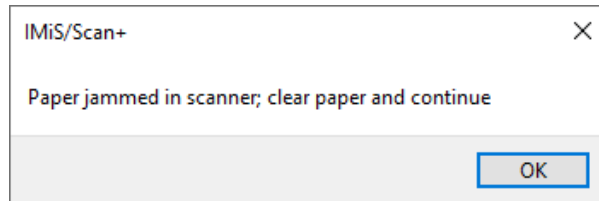


Image 123: "Paper jammed in scanner" notification

Cause: The feeder in the scanner has pulled the paper in incorrectly.

Eliminating the error: Turn the scanner off, physically remove the paper from the mechanism, and turn the scanner on. Restart the scan. For some scanner types the IMiS®/Scan application must be restarted.

8.3 Problems opening documents

8.3.1 Incorrect document format

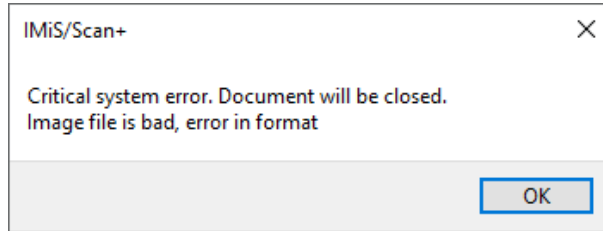


Image 124: Unsupported file format notification example

Cause: The document is not written in a file format recognized by the IMiS®/Scan application.

Eliminating the problem:

- Do not open files with the IMiS®/Scan application in a format which the IMiS®/Scan application is not familiar with.
- If a file has a TIF or PDF extension, but has not been written in the TIFF or PDF/A file format, you must assign the proper extension to the file and open it in a viewer which supports that format.

Cause: The document's file record is incorrect or damaged.

Eliminating the problem:

- Request an undamaged copy of the document from the author of the damaged document.
- Send the damaged document to support@imis.eu, where technical support will try to restore the record.

8.3.2 Document cannot be opened in another viewer

A document which has been created with IMiS®/Scan cannot be opened in another viewer.

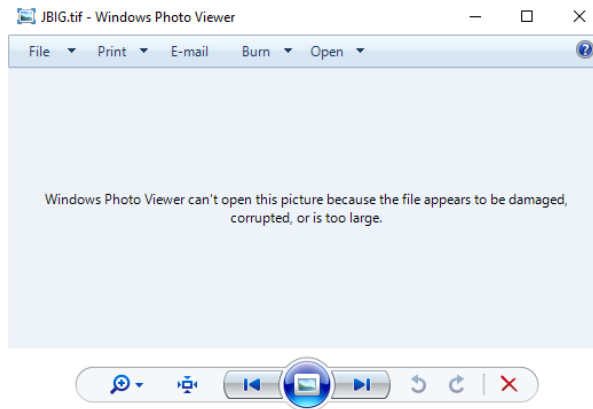


Image 125: Document cannot be opened in another viewer example

Cause: When saving the document, a patented compression method was used which is not supported by all programs for viewing.

Eliminating the problem: Open the document in IMiS®/Scan and convert it to a PDF file format. Before saving the document in the IMiS®/Scan application, select another compression method. For more information see chapter [Setting options – Document](#).

8.3.3 Document cannot be opened in modification mode

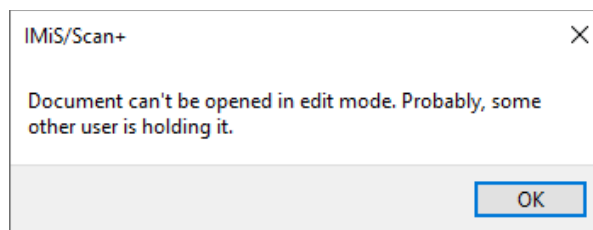


Image 126: Document cannot be opened in edit mode notification

Cause: The document you wish to edit is already open in modification mode.

Eliminating the problem: If you have already opened the document in modification mode, close it; otherwise wait for the other user to finish editing it.

8.3.4 Error #2 when opening a document

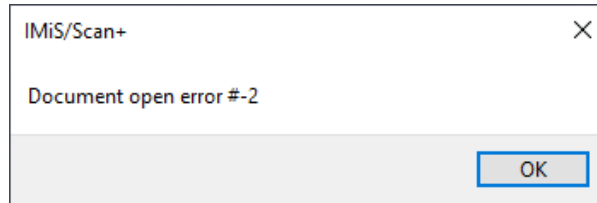


Image 127: "Document open error #-2" notification

Cause: This error occurs when reading a document due to an incorrectly provided document name or path to the document in the file system.

Eliminating the problem: When opening the document, enter the correct name or path to the document.

8.3.5 Error #3 when opening a document

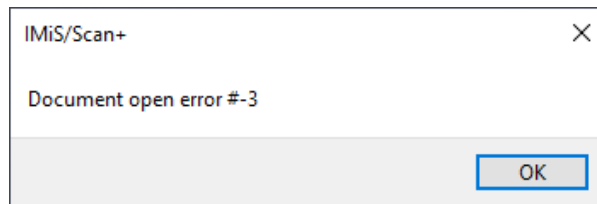


Image 128: "Document open error #-3" error notification

Cause: This error occurs when opening an unsupported document format.

Eliminating the problem: Before opening the document choose a supported document format (TIFF, PDF/A).

8.3.6 Error #11 when opening a document



Image 129: "Document open error #11" error notification

Cause: Invalid document identifier (object ID), saved on the IMiS®/ARChive Server.

Eliminating the problem: Provide the correct document identifier (object ID).

Cause: The document does not exist on the IMiS®/ARChive Server.

Eliminating the problem: Check whether the document is indeed saved on the IMiS®/ARChive Server.

Cause: The document is open in another application (Word, Excel) and cannot be transferred to the IMiS®/ARChive Server.

Eliminating the problem: Close the document and try to import it again (File import).

Cause: A temporary file cannot be created in the temporary folder.

Eliminating the problem: Check whether the user has the rights for writing in the temporary folder.

8.4 Problems saving documents

8.4.1 Error #14 when saving a document

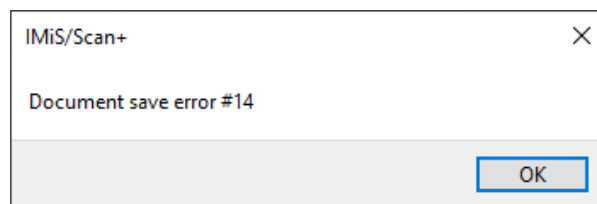


Image 130: "Document save error #14" notification

Cause: Wrong name of the folder in which you wish to save the document.

Eliminating the problem: Enter the correct folder name in the dialog box for saving files.

Cause: A document saved on the IMiS®/ARChive Server cannot be copied to a temporary file.

Eliminating the problem: The administrator checks the user rights for the temporary folder in which the temporary file is located.

Cause: The document cannot be saved on the IMiS®/ARChive Server.

Eliminating the problem: Check the operation of the IMiS®/ARChive Server.

Turn to technical support via email: support@imis.eu.

8.4.2 Error #201 when saving a document

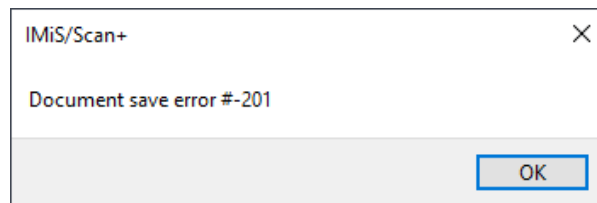


Image 131: "Document save error #-201" notification

Cause: The provided IMiS®/ARChive Server profile does not exist.

Eliminating the problem: Check the entered profile name.

Turn to technical support via email: support@imis.eu.

8.4.3 Cannot save in the PDF file format

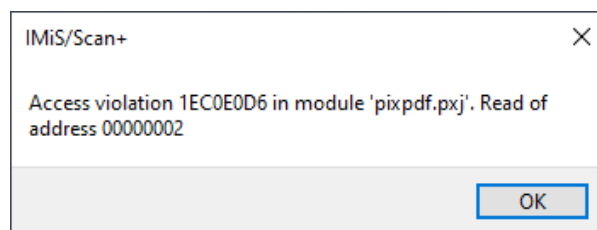


Image 132: Cannot save in the PDF file format notification example

Cause: Unexpected error when saving and closing a new document written in the PDF file format.

Eliminating the problem: Shutdown and restart the IMiS®/Scan application.

Turn to technical support via email: support@imis.eu.

8.4.4 Cannot save in the TIFF file format

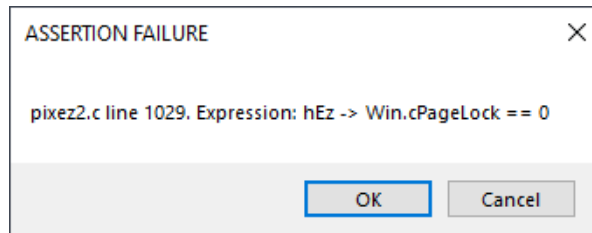


Image 133: Cannot save in the TIFF file format notification example

Cause: Unexpected error when writing the document in the TIFF format.

Eliminating the problem: Shutdown and restart the IMiS®/Scan application.

Turn to technical support via email: support@imis.eu.

8.5 Problems sending documents

8.5.1 Error sending a document by email

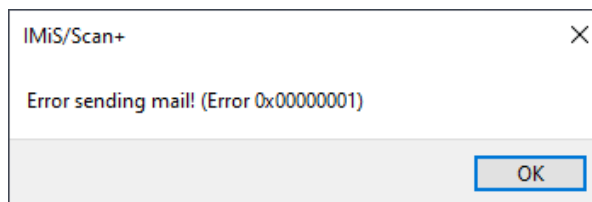


Image 134: "Error sending mail" notification

Cause: The user has not set a default email client in the Windows operating system.

This error also appears when the email client does not support Microsoft's MAPI interface for connecting the email client to other applications.

Eliminating the problem: Try restarting the IMiS®/Scan application or computer.

Turn to technical support via email: support@imis.eu.

8.5.2 Error creating an export file

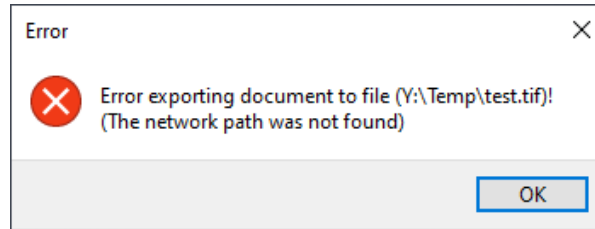


Image 135: “Error exporting document to file” notification

Cause: An export file cannot be created in the desired location.

Eliminating the problem: Check the existence of the folder or permissions on the folder to which you are exporting the document.

Turn to technical support via email: support@imis.eu.

8.6 Problems printing documents

8.6.1 Error selecting printer

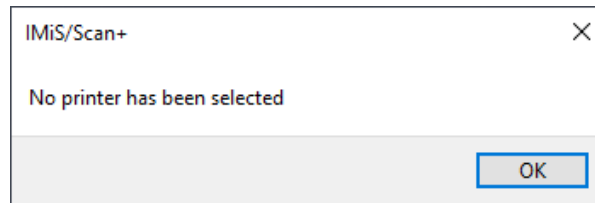


Image 136: “No printer has been selected” notification

Cause: No printing drivers are installed in the Windows operating system.

Eliminating the problem: Install a printer driver in the operating system; it can be a virtual one (i.e., not physically connected to the device).