

Switching on Support for Additional Formats

Analyze supports over 45 different file formats. By default, only the most common formats are enabled. The Import/Export module's External Libraries tool can be used to enable and disable these formats. This exercise will show you how to use the External Libraries tool to switch on support for additional formats.

1. Open the **Import/Export** module (**File > Import/Export**).
2. To view the file formats currently supported in Analyze, choose **Help > Formats**.
3. File formats currently supported are listed in the bottom **'Formats'** section of the Supported Formats window (figure 1). When a format is selected, the associated properties will automatically become checked in the **'Properties'** section of the window. Experiment by checking several different formats and noting their properties. Click **Done** to dismiss the window.
4. Open the **External Libraries** tool (**Tools > External Libraries**).
5. The External Libraries tool provides a graphical interface listing all formats supported by Analyze (figure 2). The green and red status indicators note whether a format is currently **'Loaded'** (L) and **'Configured'** (C) - green indicating yes and red indicating no.
6. If you wish to switch on support for a specific file format (for example, PICKERMRI), click on the format in the External Libraries tool. A Configure 'X' Format window will be returned (where 'X' is equal to the selected format) (figure 3).
7. In the Configure 'X' Format window, click **Load Now** to change the 'Currently Loaded' status to a green **Yes**.



note Users running multiple operating systems need to configure support for each file format for each operating system. The 'Platforms' option allows the format to be configured for all operating systems (ALL) or for a specific operating system (SPECIFIED).

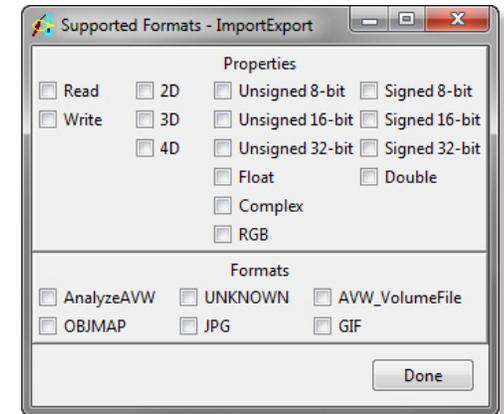


Figure 1

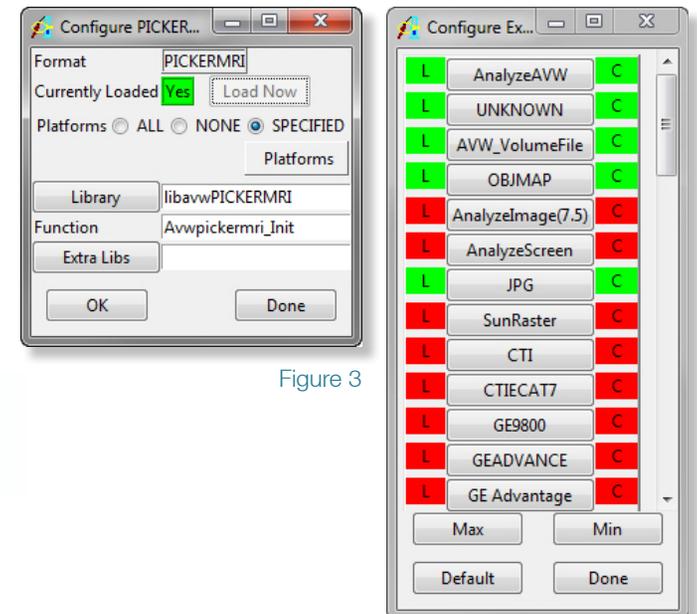


Figure 3

Figure 2
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- Click **OK**. A dialog box will be returned stating that your 'EXTEND.conf' file will be updated, click **OK** (figure 4). The format is now supported by Analyze.
- If you would like to load and configure all supported formats for your system, click **Max** in the External Libraries tool. All image file formats will now be supported by Analyze. The 'L' and 'C' status indicators will appear green next time you open Import/Export and the External Libraries tool (figure 5).

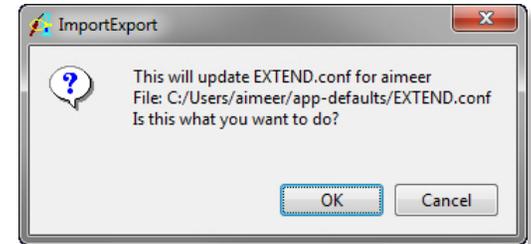


Figure 4

note Each file format enabled increases the amount of memory used by your system; it also increases the time taken for a module to open. However, this is typically only an issue on older systems or systems where memory resources are scarce.

- Click **Done** to close the External Libraries tool.
- Close the Import/Export module before proceeding to the next exercise.

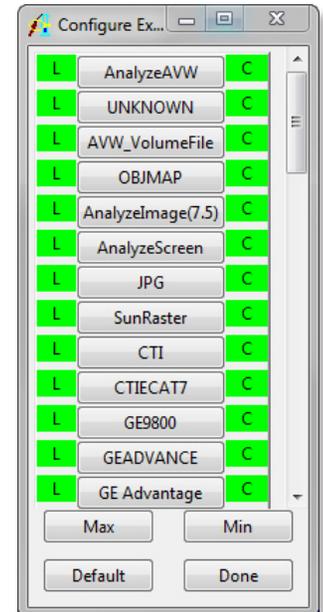


Figure 5

Supported File Formats

Analyze

AnalyzeAVW	used internally for memory mapping, supports all data types, 2D, 3D, and 4D.
UNKNOWN	enables reading raw binary data into images, and exporting image data as raw.
Volume File	enables lists of 2D files to be used as 3D entity
OBJMAP	enables object maps to be treated as regular imgs
AnalyzeImg	old Analyze 7.5 format, i.e. .hdr/.img pairs
AnalyzeScrn	old Analyze 7.5 format of old Screen Edit program

Raster

BMP	Microsoft Windows Bitmap
GIF	a common color indexed format
JPG	common format featuring lossy compression
PBM	ascii and binary formats used in Portable Bitmap Library
PGM	grayscale Portable Bitmap Library
PPM	24 bit Color Portable Bitmap Library
PIC	format used by Softimage
PNG	Portable Network Graphics
PS	output to a PostScript raster dump
SGI	format used by Silicon Graphics
SUNRASTER	format used by Sun Microsystems
TARGA	a common color format
TIFF	tagged information file format, a common format
XBM	an ascii 'c programming language' format used by the X Windows system
XWD X	Windows dump

Standard Radiological File Formats

DICOM	the standard medical image file format based on Mallincrodt ctn_3_0_3.
ACR/NEMA	precursor to DICOM
PAPYRUS2 3D	extensions to DICOM from OSIRIS
PAPYRUS3 3D	extensions to DICOM from OSIRIS
NIfTI	Neuroimaging file format

Video

QUICKTIME	common movie format
YUV	single frame color video format
AVI	video format used by Microsoft Windows
MPEG1	standard movie format

Vendor-Specific Radiological File Formats

GE9800	older CT format
GEADVANCE	Advance, nuclear medicine format
GEADVANTAGE	format for CT and MRI
GESIGNA	older MRI format Signa 4.x
GESTARCAM	older PET format
INTERFILE	a standard format for nuclear medicine
PICKER MRI	old MRI format used by Picker
SIEMENSCT	old Siemens CT format Somatom DR3
SIEMENSMAGVIS	Siemens Magnetom Vision (MRI format)
CTI	PET format used by CTI, early version of ECAT7
7CTI	PET format used by CTI; CTIECAT7
IMATRON	proprietary CT format
SMIS	proprietary MRI format
BRUCKER MRI	proprietary MRI format
BIO RAD	proprietary format
VARIAN FDF	Varian MRI format