

# KeyView

Software Version 12.7

## PDF Export SDK C Programming Guide



Document Release Date: October 2020  
Software Release Date: October 2020

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# Part 1: Overview of PDF Export

This section provides an overview of the Micro Focus IDOL KeyView Export SDK and describes how to use the C implementation of the API.

- [Introducing PDF Export](#)

# Chapter 1: Introducing PDF Export

This guide is for developers who want to incorporate Micro Focus KeyView PDF conversion technology into their applications using a C development environment. It is intended for readers who are familiar with C.

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## Overview

PDF Export is part of the KeyView Export SDK. It enables you to convert virtually any document, spreadsheet, presentation, or graphic into a high-fidelity PDF document. Incorporating this technology into your applications enables your end-users to access a document even if they do not have the appropriate plug-in or native application.

The Export SDK is available for 64-bit Windows and 64-bit Linux.

The Export SDK is part of the KeyView suite of products. KeyView provides high-speed text extraction, conversion to web-ready HTML and well-formed XML, and high-fidelity document viewing.

## Features

- Dynamically convert word processing, spreadsheet, presentation, and graphics files into PDF documents.
- Export supports over 300 formats in 70 languages.
- Convert files out of process. Out-of-process conversion ensures the stability and robustness of the calling application if a corrupt document causes an exception or causes the conversion process to fail.
- Export automatically recognizes the file format being converted and uses the appropriate reader. Your application does not need to rely on file name extensions to determine the file format.

## Platforms, Compilers, and Dependencies

This section lists the supported platforms, supported compilers, and software dependencies for the KeyView software.

### Supported Platforms

KeyView PDF Export 12.7 is supported on the following platforms.

#### Windows x86-64

- Windows Server 2019
- Windows Server 2016
- Windows Server 2012
- Windows 10
- Windows 7 SP1
- Windows Server 2008 R2
- Windows Server 2008 SP2

#### Linux x86-64

The minimum supported versions of particular distributions are:

- Red Hat Enterprise Linux (RHEL) 6
- CentOS 6
- SuSE Linux Enterprise Server (SLES) 12
- Ubuntu 14.04
- Debian 8

### Supported Compilers

Platform	Architecture	Compiler Name	Compiler Version
Microsoft Windows	x86	cl	Microsoft 32-bit C/C++ Optimizing Compiler Version 16.00.30319.01 for x86
	x64	cl	Microsoft C/C++ Optimizing Compiler Version 16.00.30319.01 for x64
Linux	x86	gcc / g++	3.4.3 (Redhat 4), 4.1.0 (SuSE Linux 10)
	x64	gcc / g++	4.1.0 (Redhat 4), 4.1.0 (SuSE Linux 10)



### Supported Compilers for Java Components

Component	Compiler
Java components	Java 7

## Software Dependencies

Some KeyView components require specific third-party software:

- Java Runtime Environment (JRE) or Java Software Developer Kit (JDK) version 7 is required for graphics conversion in Export SDK.
- Microsoft Visual C++ 2019 Redistributables (Windows only).

## Windows Installation

To install the SDK on Windows, use the following procedure.

### To install the SDK

1. Run the installation program, `KeyViewProductNameSDK_VersionNumber_OS.exe`, where *ProductName* is the name of the product, *VersionNumber* is the product version number, and *OS* is the operating system.

For example:

`KeyViewExportSDK_12.7_Windows_X86_64.exe`


The installation wizard opens.

2. Read the instructions and click **Next**.

The License Agreement page opens.

3. Read the agreement. If you agree to the terms, click **I accept the agreement**, and then click **Next**.

The Installation Directory page opens.

4. Select the directory in which to install the SDK. To specify a directory other than the default, click  , and then specify another directory. After choosing where to install the SDK, click **Next**.

The Pre-Installation Summary opens.

5. Review the settings, and then click **Next**.

The SDK is installed.

6. Click **Finish**.

## UNIX Installation

To install the SDK, use one of the following procedures.

### To install the SDK from the graphical interface

- Run the installation program and follow the on-screen instructions.

### To install the SDK from the console

1. Run the installation program from the console as follows:

```
./KeyViewExportSDK_VersionNumber_Platform.exe --mode text
```

where:

*VersionNumber* is the product version.

*Platform* is the name of the platform.

2. Read the welcome message and instructions and press `Enter`.

The first page of the license agreement is displayed.

3. Read the license information, pressing `Enter` to continue through the text. After you finish reading the text, and if you accept the agreement, type `y` and press `Enter`.

You are asked to choose an installation folder.

4. Type an absolute path or press `Enter` to accept the default location.

The Pre-Installation summary is displayed.

5. If you are satisfied with the information displayed in the summary, press `Enter`.

The SDK is installed.

## Package Contents

The Export installation contains:

- Libraries and executable files necessary for converting source documents into high-quality PDF files (see [Files Required for Redistribution, on page 174](#)).
- The include files that define the functions and structures used by the application to establish an interface with Export (see the `include` directory for PDF Export).
- The sample program `cnv2pdf`, which demonstrates PDF Export functionality.

## License Information

Your license key controls whether you have the full version of the KeyView SDK, or a trial version. It also determines whether the following advanced features are enabled:

- Advanced character set detection with the character set detection library (`kvlangdetect`).
- Advanced document readers:
  - Microsoft Outlook Personal Folders (PST) readers (`pstsr`, `pstnsr`, and `pstxsr`)
  - Lotus Notes database (NSF) reader (`nsfsr`)
  - Mailbox (MBX) reader (`mbxsr`)
- Processing of documents protected by Microsoft RMS encryption.

If you obtain a new license key from Micro Focus, you must update the licensing information that you pass to KeyView. See [Pass License Information to KeyView](#).

## Enable Advanced Document Readers

To enable advanced readers, you must obtain an appropriate license key from Micro Focus and pass the license key to KeyView as described in [Pass License Information to KeyView](#).

## Pass License Information to KeyView

To provide license information to KeyView, do one of the following:

- Provide the license information through the API. Micro Focus recommends using this approach.
- Provide the license information as a text file named `kv.lic`. In earlier versions of KeyView, license information had to be stored in a file and included in the `bin` folder with the KeyView libraries. The ability to provide license information as a file has been deprecated and might be removed in future. You should no longer include license information in your application as a file. Micro Focus recommends that you pass license information to KeyView through the API instead.

If you have an evaluation version of KeyView and purchase a full version of the SDK, or you are adding a document reader (for example, the PST reader), you must update the license information that you pass to KeyView.

### To provide license information through the API

- In the C API, provide license information when you initialize KeyView by calling `fpInitWithLicenseData()`.

### To provide license information as a file

1. Open or create the license key file, `kv.lic`, in a text editor. The file must be saved in the same directory as the KeyView libraries, and must contain your organization name and license key.

```
COMPANY NAME  
XXXXXXX-XXXXXXX-XXXXXXX-XXXXXXX
```

2. Replace the text `COMPANY NAME` with the company name that appears at the top of the License Key Sheet provided by Micro Focus. Enter the text exactly as it appears in the document.
3. Replace the characters `XXXXXX-XXXXXXX-XXXXXXX-XXXXXXX` with the appropriate license key from the License Key Sheet provided by Micro Focus. The license key is listed in the **Key** column in the **Standalone Products** table. The key is a string that contains 31 characters, for example, `2TQD22D-2M6FV66-2KPF23S-2GEM5AB`. Enter the characters exactly as they appear in the document, including the dashes, but do not include a leading or trailing space.
4. The finished `kv.lic` file looks similar to the following:

```
Autonomy  
24QD22D-2M6FV66-2KPF23S-2G8M59B
```

5. Save the file.

## Directory Structure

The following table describes the directories created during the PDF Export installation. The variable `install` is the path name of the Export installation directory (for example, `/usr/autonomy/KeyviewExportSDK` on UNIX, or `C:\Program Files\Autonomy\KeyviewExportSDK` on Windows). On UNIX, the PDF Export directory is named `/pdfexpt`.

The variable `OS` is the operating system for which the SDK is installed. For example, the `bin` directory on a standard 32-bit Windows installation would be located at `C:\Program Files\Autonomy\KeyviewExportSDK\WINDOWS\bin`.

PDF Export is installed as part of the HTML Export package. For more information about HTML Export, refer to the *HTML Export C and COM Programming Guide* and *HTML Export Java Programming Guide*.

### PDF Export installed directory structure

Directory	Description
<code>install\OS\bin</code>	Contains the libraries, executables for sample programs, the Java program ( <code>kvraster.class</code> ), the Java applet ( <code>kvvector.jar</code> ), the format detection file, <code>formats_e.ini</code> , the license key file ( <code>kv.lic</code> ), and a number of other supporting files.
<code>install\pdfexport\cnv2pdf</code>	Contains the C source code for a sample program that creates a PDF file. The executable for this sample program is in the <code>bin</code> directory.
<code>install\pdfexport\include</code>	Contains the header files for PDF Export.

**PDF Export installed directory structure, continued**

<b>Directory</b>	<b>Description</b>
<i>install\testdocs</i>	Contains sample word processing, spreadsheet, and presentation files that you can use to test PDF Export's options. You might also find this directory useful when testing your own applications.

## Part 2: Use the Export API

This section explains how to perform some basic tasks using the Export APIs, and describes the sample programs. It contains the following chapters:

- [Use the PDF Export API](#)
- [Sample Programs](#)



## Chapter 2: Use the PDF Export API

This section describes how to perform some basic tasks by using the PDF Export API.

- [Get a Session Context](#) ..... 16
- [Export a File to PDF](#) ..... 18
- [Obtain File Format Information](#) ..... 19

### Get a Session Context

Use of the PDF Export API requires the following steps:

1. Dynamically load the `kvpdf` shared library.
2. Obtain a handle to the `KVPDFGetInterface` function.
3. Call the `KVPDFGetInterface` function to obtain function pointers for the library methods.
4. Call the `fpInit()` function pointer to initialize `KeyView`.
5. Perform any necessary tasks using the Export API.
6. Call `fpShutdown()` to close down `KeyView`.
7. Free the `kvpdf` library.

The code you use to load the library at the start and free the library at the end depends on your operating system. See [Use the kvpdf library on Windows, below](#) and [Use the kvpdf library on Linux, on the next page](#)

After you have obtained the function pointer for the `KVPDFGetInterface` function, you can use it to get pointers to the other functions. These include `fpInit()`, which you must use to initialize `KeyView` before any other call, and `fpShutdown()` which must be the last call you make, to shutdown `KeyView` and free its resources. See [Export a File to PDF, on page 18](#) and [Obtain File Format Information, on page 19](#).

The following examples describe how to load the `kvpdf` library and obtain the `KVPDFGetInterface` function pointer (`fpGetInterface()` in the example code).

### Use the kvpdf library on Windows

In the following example, `pszPathOfkvpdfdll` is the path to the `kvpdf` dynamic library, for example `C:\MicroFocus\KeyviewExportSDK-12.3.0\WINDOWS_X86_64\bin\kvpdf.dll`.

```
#include "kvpdf.h"
#include <windows.h>
#include <stdio.h>

void usePDFExport(const char* const pszPathOfkvpdfdll)
{
```



```
HMODULE hMODULE = LoadLibraryA(pszPathOfkvpdfdll);
if (hMODULE)
{
    KVPDF_GET_INTERFACE fpGetInterface =
        (KVPDF_GET_INTERFACE) GetProcAddress(
            hMODULE, "KVPDFGetInterface"
        );
    if (fpGetInterface)
    {
        KVPDFInterface sInterface = {0};
        KVStructInit(&sInterface);
        if (fpGetInterface(&sInterface))
        {
            // Code using PDF Export
        }
    }
    FreeLibrary(hMODULE);
}
}
```

## Use the kvpdf library on Linux

In the following example, pszPathOfkvpdfso is the path to the kvpdf dynamic library, for example /opt/MicroFocus/KeyviewExportSDK-12.3.0/LINUX\_X86\_64\_LIBC6/bin/kvpdf.so.

```
#include "kvpdf.h"
#include <dlfcn.h>

void usePDFExport(const char* const pszPathOfkvpdfso)
{
    void *libHandle = dlopen(pszPathOfkvpdfso, RTLD_LAZY);
    if (libHandle)
    {
        KVPDF_GET_INTERFACE fpGetInterface =
            dlsym(libHandle, "KVPDFGetInterface");
        if (fpGetInterface)
        {
            KVPDFInterface sInterface = {0};
            KVStructInit(&sInterface);
            if (fpGetInterface(&sInterface))
            {
                // Code using PDF Export
            }
        }
        dlclose(libHandle);
    }
}
```

## Export a File to PDF

The following example illustrates how to initialize KeyView by using `fpInit()`, use the `fpConvertFileToFile()` file method, and then shutdown using `fpShutdown()`.

This example uses the `KVPDFGetInterface` function pointer, `fpGetInterface()`. For details of how to load the `kvpdf` library and obtain this pointer, see [Get a Session Context, on page 16](#).

In this example:

- `pszKeyViewDir` is the path of the folder containing the KeyView binaries, for example `C:\MicroFocus\KeyviewExportSDK-12.3.0\WINDOWS_X86_64\bin`.
- `pszTempFolder` is the path to a folder which can be used to store temporary files.
- `pszInFileName` is the name of the input file.
- `pszOutFileName` is the name of the PDF file to create. If the output file already exists it is overwritten if possible. The output PDF cannot be in the working directory.

All strings must be null-terminated.

For more details about the functions used, see [C API Reference, on page 23](#).

```
#include "kvpdf.h"

BOOL exportFileToPDF(
    KVPDFInterface sInterface,
    const char* const pszKeyViewDir,
    const char* const pszTempFolder,
    const char* const pszInFileName,
    const char* const pszOutFileName)
{
    KVPDFContext context = NULL;
    KVPDFOptions sOptions = {0};
    BOOL bSuccess = FALSE;

    KVStructInit(&sOptions);

    if (sInterface.fpInit(
        pszKeyViewDir, pszTempFolder, &context
    ).eErrorCode == KVERR_Success)
    {
        bSuccess = sInterface.fpConvertFileToFile(
            context, pszInFileName, pszOutFileName, sOptions
        ).eErrorCode == KVERR_Success;

        sInterface.fpShutdown(&context);
    }

    return bSuccess;
}
```

## Obtain File Format Information

KeyView allows you to obtain the following basic information for a file:

- The character set. See the `KVCharSet` enumerated type.
- The class of document. See the `ENdocClass` enumerated type.
- The specific type of document. See the `ENdocFmt` enumerated type.
- Some other attributes such as the presence of encryption. See the `ENdocAttributes` enumerated type.

You can obtain the file format information by using the `fpGetFileInfo()` function pointer.

You call `fpGetFileInfo()` with the path to the file, and a pointer to a `KVDocInfo` structure that KeyView can fill with the file details. For more details about the `fpGetFileInfo()` function pointer, see [C API Reference, on page 23](#).

## Get the Types of Files in a List

The following example illustrates how to:

- obtain function pointers by calling `KVPDFGetInterface`. The pointer to this method is passed into the function as `fpGetInterface` in this example. You need this pointer to get other function pointers, including `fpInit()`, which must be called first, and `fpShutdown()`, which must be called last. For details of how to obtain this pointer, see [Get a Session Context, on page 16](#).
- initialize KeyView using `fpInit`.
- use the `fpGetFileInfo()` method for each path in an array of file names (`ppszFileNames` in this example). The file types output are put in the `peFileTypesOutput` array of enumerated type `ENdocFmt`.
- shut down KeyView by calling `fpShutdown()`.

**NOTE:** If a call to `fpGetFileInfo` is unsuccessful, the `KVDocInfo` structure is not modified. The return value of `fpGetFileInfo` is therefore ignored in this example because the `KVDocInfo` structure is left zero-filled with the character set equal to `KVCS_UNKNOWN`, the document class to set to `AutoDetNoFormat`, and the file type of `Unknown_Fmt`.

```
#include "kvpdf.h"

void getTypesOfFilesInList(
    const KVPDFInterface sInterface,
    const char* const pszKeyViewDir,
    const char* const pszTempFolder,
    const char* const * const ppszFileNames,
    ENdocFmt* const peFileTypesOutput,
    const unsigned int numberOfFiles)
{
```

```
KVPDFContext context = NULL;
unsigned int i = 0;

if(sInterface.fpInit(
    pszKeyViewDir, pszTempFolder, &context
).eErrorCode != KVERR_Success)
{
    return;
}

for (i = 0; i < numberOfFiles; i++)
{
    // (ENdocFmt) 0 = Unknown_Fmt
    KVDocInfo sDocInfo = {0};
    sInterface.fpGetFileInfo(context, ppszFileNames[i], &sDocInfo);
    peFileTypesOutput[i] = sDocInfo.adInfo.eFormat;
}

sInterface.fpShutdown(&context);
}
```

# Chapter 3: Sample Programs

This section describes the sample programs provided with PDF Export.

- [Introduction](#) ..... 21
- [cnv2pdf](#) ..... 21

## Introduction

The sample programs demonstrate how to use the C implementations of PDF Export. The sample code is intended to provide a starting point for your own applications or to be used for reference purposes.

The source code and makefile for each program are in the following directory, where *install* is the path of the Export installation directory, and *program\_name* is the name of the sample program:

`install\pdfexport\programs\program_name`

## C Sample Programs

The C sample programs demonstrate how to use the C implementation of PDF Export. The following sample programs are provided:

- [cnv2pdf](#), below

You can use the `cnv2pdf` sample program on Windows and UNIX.

**NOTE:** The sample programs do not parse white space in file names. If your file names contain spaces, use quotation marks around the entire path name. Inserting quotation marks around the file name only does not work.

The sample programs pass license information to KeyView using `fpInitWithLicenseData()`. This is the method recommended by Micro Focus. Before the sample programs can be compiled, you must replace the parameters `YOUR_LICENSE_ORGANIZATION` and `YOUR_LICENSE_KEY` in the `fpInitWithLicenseData()` function call with your license information.

To compile the sample programs, use the makefiles provided in the sample programs' directory. Ensure the PDF Export `include` directory is specified in the include path of the project. After the executables are compiled and built, you must place them in the same directory as the PDF Export libraries.

**NOTE:** Compiled binaries are provided for some of the sample programs, in the `PLATFORM/bin` folder. These have an embedded trial license, which expires approximately five months after release.

## cnv2pdf

The `cnv2pdf` sample program demonstrates PDF export, taking an input file and creating a PDF from it.

To run `cnv2pdf`, type the following at the command line:

```
cnv2html [options] inputfile outputfile
```

where:

*options* is one or more of the options listed in [Options for cnv2pdf, below](#).

*inputfile* is the full path and file name of the source document.

*outputfile* is the full path and file name of the PDF output file.

The following options are available.

#### Options for `cnv2pdf`

Option	Description
<code>-p password</code>	This option specifies a password, <i>password</i> , for the input file to allow KeyView to open it.
<code>-s width height</code>	This option specifies the default dimensions to use for the created PDF (in inches) if no width or height is available from the input file.

# Part 3: C API Reference

This section provides detailed reference information for the C-language implementation of the Export APIs.

- [PDF Export API Functions](#)
- [PDF Export API Structures](#)
- [Enumerated Types](#)

## Chapter 4: PDF Export API Functions

This section describes the functions in the PDF Export API. Each function appears as a function prototype followed by a description of its arguments, its return value, and discussion of its use.

• <a href="#">KVPDFGetInterface()</a> .....	24
• <a href="#">fpConvertFileToFile()</a> .....	24
• <a href="#">fpGetFileInfo()</a> .....	25
• <a href="#">fpInit()</a> .....	26
• <a href="#">fpInitWithLicenseData()</a> .....	27
• <a href="#">fpShutDown()</a> .....	29

### KVPDFGetInterface()

This function is exported by the Export definition file. It supplies function pointers to other PDF Export functions. When `KVPDFGetInterface()` is called, it assigns the function pointers to the structure pointed to by `pInterface`.

#### Syntax

```
void pascal KVPDFGetInterface (KVPDFInterface *pInterface);
```

#### Arguments

`pInterface` A pointer to the structure `KVPDFInterface`, initialized by using the `KVStructInit()` macro.

#### Returns

- If `pInterface` points to a `KVPDFInterface` structure initialized using the `KVStructInit()` macro, the return value is **TRUE**, showing that the function pointers of the interface structure have been set.
- If `pInterface` is `NULL` or the `KVStructHeader` of the `KVPDFInterface` structure are not set correctly, the return value is **FALSE**.

### fpConvertFileToFile()

This function converts a source file to an output PDF file.



## Syntax

```
KVPDFState pascal fpConvertFileToFile(  
    const KVPDFContext context,  
    const char* const pszInFileName,  
    const char* const pszOutFileName,  
    const KVPDFOptions options)
```

## Arguments

Context	A context value obtained by using <a href="#">fpInit()</a> .
pszInFileName	A null-terminated C string that contains the path of the file to export to PDF.
pszOutFileName	A null-terminated C string that contains the full file path where the export process must create the PDF. This value cannot be the current working directory.
options	A KVPDFOptions structure to set default page dimensions (for when none can be obtained from the source file), or to specify a password to use when the input file is password protected. Initialize a KVPDFOptions structure with the <a href="#">KVStructInit()</a> macro and then modify the structure as necessary.

## Returns

- If the call is successful, a KVPDFState structure with eErrorCode set to KVERR\_Success.
- If the call is unsuccessful, a KVPDFState structure that indicates the reason for the error.

## Discussion

- You cannot create PDF files in the current working directory.
- If the target PDF file exists, this function overwrites it if possible.
- On Windows systems, specify the paths in the local Windows code page.
- You must initialize the options structure by using the [KVStructInit\(\)](#) macro.

## fpGetFileInfo()

This function returns information about a file such as its format and character set.

## Syntax

```
KVPDFState pascal fpGetFileInfo(  
    const KVPDFContext context,
```

```
const char* const pszInFileName,  
KVDocInfo* const pDocInfo);
```

## Arguments

Context	A context value obtained by using <a href="#">fpInit()</a> .
pszInFileName	A null-terminated C string that contains the path of the file to retrieve information about.
pDocInfo	A pointer to a KVDocInfo structure to write the file information to.

## Returns

- If the call is successful, a KVPDFState structure with eErrorCode set to KVERR\_Success.
- If the call is unsuccessful, a KVPDFState structure that indicates the reason for the error.

## Discussion

- On Windows systems, specify the paths in the local Windows code page.
- You must **not** initialize the KVDocInfo structure by using the KVStructInit() macro.
- If the call is unsuccessful and returns an error state, the memory that pDocInfo points to has not been modified.

## fpInit()

This function initializes an Export session. If initialization is successful, the KVPDFContext value pointed to by pContext is set to a valid context identifier. This context value must be passed as the first parameter to all other PDF Export functions.

**DEPRECATED:** The fpInit() function is deprecated in KeyView 12.7.0 and later. Micro Focus recommends that you use [fpInitWithLicenseData\(\)](#) instead, so that your license key is passed to KeyView through the API. You should not include license information in your application as a file (kv.lic).

This function is still available for existing implementations, but it might be incompatible with new functionality. The function might be removed in future.

## Syntax

```
KVPDFState pascal fpInit(  
    const char* const pszKeyViewDir,  
    const char* const pszTempFolder,  
    KVPDFContext* const pContext);
```

## Arguments

<code>pszKeyViewDir</code>	A null-terminated C string that contains the path of the directory where the Export components are located. This is normally the directory <code>install\OS\bin</code> , where <code>install</code> is the path name of the Export installation directory and <code>OS</code> is the name of the operating system.
<code>pszTempFolder</code>	(Optional) A null-terminated C string that contains the path of a directory to use to store temporary files during the conversion process. Set this value to <code>NULL</code> to default to the system temporary directory.
<code>pContext</code>	A valid pointer to a value of type <code>KVPDFContext</code> . If initialization is successful, this target is set to a context-identifying value, which you must supply to subsequent export functions.

## Returns

- If the call is successful, a `KVPDFState` structure with `eErrorCode` set to `KVERR_Success`.
- If the call is unsuccessful, a `KVPDFState` structure that indicates the reason for the error.

## Discussion

- You can perform multiple calls to subsequent functions in serial using the same context (session).
- On Windows systems, specify the paths in the local Windows code page.
- To ensure multithreaded conversions are thread-safe, you must create a unique context pointer for every thread by calling `fpInit()`. In addition, threads must not share context pointers, and you must use the same context pointer for all API calls in the same thread.
- When the conversion context is no longer required, you must terminate by calling `fpShutdown()`. See [fpShutdown\(\), on page 29](#).
- Internally, `KVPDFContext` is a pointer, and Micro Focus recommends that you initialize values of type `KVPDFContext` to `NULL`.
- If the call is unsuccessful, the value pointed to by `pContext` is not modified. No context has been created so there is no need to call `fpShutdown()`.

**IMPORTANT:** It is not safe to call `fpShutdown()` with any value other than one arising from a successful call to `fpInit()` (or `NULL`).

## `fpInitWithLicenseData()`

This function initializes an Export session with license information passed in function parameters rather than a license file. If initialization is successful, it sets the `KVPDFContext` value pointed to by `pContext`

to a valid context identifier. You must pass this context value as the first parameter to all other PDF Export functions.

This function is similar to [fpInit\(\)](#), but it uses a different licensing method. You can use either [fpInit\(\)](#) or [fpInitWithLicenseData](#) to initialize your Export session. However, these functions are mutually exclusive. That is, neither takes the context pointer from the other as an argument. If you call both functions, you initialize two distinct Export sessions, in the same way as calling [fpInit\(\)](#) twice.

## Syntax

```
KVPDFState pascal fpInitWithLicenseData(  
    const char* const pszKeyViewDir,  
    const char* const pszTempFolder,  
    const char* const pszLicenseOrganization,  
    const char* const pszLicenseKey,  
    /*out*/ KVPDFContext* const pContext);
```

## Arguments

<code>pszKeyViewDir</code>	A null-terminated C string that contains the path of the directory where the Export components are located. This is normally the directory <i>install\OS\bin</i> , where <i>install</i> is the path name of the Export installation directory and <i>OS</i> is the name of the operating system.
<code>pszLicenseOrganization</code>	A pointer to a string that contains the organization name under which this installation of KeyView is licensed. This value is the company name that appears at the top of the license key provided by Micro Focus. Add the text exactly as it appears in this file.
<code>pszLicenseKey</code>	A pointer to a string that contains the license key for this installation of KeyView. This value is the appropriate license key provided by Micro Focus. The key is a string that contains 31 characters, for example 2TQD22D-2M6FV66-2KPF23S-2GEM5AB. Type these characters exactly as they appear in the license key file, including the dashes, but do not include any leading or trailing spaces.
<code>pszTempFolder</code>	(Optional) A null-terminated C string that contains the path of a directory to use to store temporary files during the conversion process. Set this value to NULL to default to the system temporary directory.
<code>pContext</code>	A valid pointer to a value of type <code>KVPDFContext</code> . If initialization is successful, this target is set to a context-identifying value, which you must supply to subsequent export functions.

## Returns

If the call is successful, a `KVPDFState` structure with `eErrorCode` set to `KVERR_Success`.

If the call is unsuccessful, a `KVPDFState` structure that indicates the reason for the error.

## Discussion

- You can perform multiple calls to subsequent functions in serial using the same context (session).
- On Windows systems, specify the paths in the local Windows code page.
- To ensure multithreaded conversions are thread-safe, you must create a unique context pointer for every thread by calling `fplnit()`. In addition, threads must not share context pointers, and you must use the same context pointer for all API calls in the same thread.
- When the conversion context is no longer required, you must terminate by calling `fpShutDown()`. See `fpShutDown()`, below.
- Internally, `KVPDFContext` is a pointer, and Micro Focus recommends that you initialize values of type `KVPDFContext` to `NULL`.
- If the call is unsuccessful, the value pointed to by `pContext` is not modified. No context has been created so there is no need to call `fpShutDown()`.

**IMPORTANT:** It is not safe to call `fpShutDown()` with any value other than one arising from a successful call to `fplnit()` (or `NULL`).

## fpShutDown()

This function terminates a PDF Export session that was initialized by `fplnit()`, and frees allocated system resources. Call this function when the conversion context is no longer required.

## Syntax

```
void pascal fpShutDown(KVPDFContext* const pContext);
```

## Arguments

`pContext` A pointer to a context-identifying value of type `KVPDFContext`, obtained by calling `fplnit()`. The function sets the associated `KVPDFContext` variable to `NULL` to prevent accidental reuse of the context value that it contained, which must not subsequently be passed to any `KeyView` function.

## Returns

None.

## Discussion

- pContext pointer must not be NULL.
- The context value pointed to by pContext can be NULL.
- After you call this function, you must not pass the context to any PDF export function. Consequently, you must not call fpShutDown more than once with a pointer to the same value (unless that value is NULL).

# Chapter 5: PDF Export API Structures

This section provides information on the structures used by the PDF Export API. These structures are defined in `kvtypes.h`, and `adinfo.h`.

- [ADDOCINFO](#) .....31
- [KVDocInfo](#) ..... 32
- [KVPDFInterface](#) .....32
- [KVStructHead](#) ..... 33
- [KVPDFState](#) .....33
- [KVPDFContext](#) .....34
- [KVPDFOptions](#) .....35

## ADDOCINFO

This structure provides the format, file class, and version number of the source document. It is defined in `adinfo.h` and is part of the [KVDocInfo, on the next page](#) structure.

```
typedef struct
{
    ENdocClass      eClass;
    ENdocFmt        eFormat;
    long            lVersion;
    unsigned long   ulAttributes;
}
ADDOCINFO;
```

## Member Descriptions

<code>eClass</code>	The file class of the source document (for example, spreadsheet, word processor, or encapsulation format) as defined by the <code>ENdocClass</code> enumerated type in <code>adinfo.h</code> .
<code>eFormat</code>	The major format of the source document (such as Microsoft Word or Corel Presentation) as defined by the <code>ENdocFmt</code> enumerated type in <code>adinfo.h</code> .
<code>lVersion</code>	The version number of the file format. The number is multiplied by 1000. For example, 1.02 is represented by 1020.
<code>ulAttributes</code>	Other attributes of the document as defined by the <a href="#">ENDocAttributes, on page 43</a> enumerated type in <code>adinfo.h</code> .

## Discussion

When format detection is enhanced in future releases, new format IDs might be added to the `ENdocFmt` enumerated type. When you use this type, your code should ensure binary compatibility with future releases. For example, if you use an array to access format information based on a format ID, your code should check that the format ID is less than `Max_Fmt` before accessing the data. This ensures that new format codes are detected when you add KeyView binary files from new releases to your existing installation.

## KVDocInfo

This structure provides the character set, format, file class, and version number of the source document. It is defined in `adinfo.h` as `KVStreamInfo`.

```
typedef struct
{
    KVCharSet    charset;
    ADDOCINFO    adInfo;
}
KVDocInfo;
```

## Member Descriptions

`charset` The character set of the source document, if that information can be determined. The available character sets are enumerated in `KVCharSet` in `kvcharset.h`.

`adInfo` The format of the source document. See [ADDOCINFO, on the previous page](#).

## KVPDFInterface

This structure contains pointers to the PDF Export API functions. You can set the pointers by calling the [KVPDFGetInterface\(\)](#) function.

```
typedef struct
{
    KVStructHeader;
    KVPDF_INIT          fpInit;
    KVPDF_CONVERT_FILE_TO_FILE fpConvertFileToFile;
    KVPDF_GET_FILE_INFO  fpGetFileInfo;
    KVPDF_SHUTDOWN      fpShutDown;
}
KVPDFInterface;
```



## Member Descriptions

`KVStructHeader` The KeyView version of the structure. See [KVStructHead](#), below.

The subsequent members of this structure are the pointers to the API functions. See [PDF Export API Functions](#), on page 24

## KVStructHead

This structure contains the current KeyView version number and is the first member of other structures. It enables Micro Focus to modify the structures in future releases, but to maintain backward compatibility. Before initializing a structure that contains the `KVStructHead` structure, use the macro `KVStructInit` to initialize it as illustrated in the example below. You do not need to set any of the members of `KVStructHead` because this is handled by `KVStructInit`. The structure and macro are defined in `kvstructhead.h`.

```
typedef struct _KVStructHead
{
    WORD    version;
    WORD    size;
    DWORD  reserved;
    void    *internal;
} KVStructHeadRec, *KVStructHead;
```

## Member Descriptions

`version` The current KeyView version number. This is a symbolic constant (`KeyviewVersion`) defined in `kvtypes.h`. This constant is updated for each KeyView release.

`size` The size of the `KVStructHeadRec` structure.

`reserved` Reserved for internal use.

`internal` Reserved for internal use.

## Example

```
KVOpenFileArgRec openArg;
KVStructInit(&openArg);
```

## KVPDFState

This structure is returned by PDF export functions to indicate whether they were successful, and if they failed to give the reason why.

```
typedef struct
{
    KVErrorCode      eErrorCode;
    KVErrorCodeEx    eErrorCodeEx;
}
KVPDFState;
```

## Member Descriptions

**eErrorCode** The error code returned by KeyView. This enumerated type is defined in `kverrors.h`.

**eErrorCodeEx** The extended error code returned by KeyView. This enumerated type is defined in `kverrors.h`.

## Discussion

To evaluate a `KVPDFState` object, check `eErrorCode` first. A value of `KVERR_Success` (0) indicates success. Any other value indicates failure.

You can ignore `eErrorCodeEx` unless `eErrorCode` is `KVERR_General`. In this case, `eKVErrorCodeEx` might contain an extended error code that gives more information. If no more detail is available, `eKVErrorCodeEx` is set to **0**.

## Example

In this example, a state object is used to obtain the error code as an integer.

```
int convertStateToError(const KVPDFState state)
{
    if (state.eErrorCode == KVERR_General && state.eErrorCodeEx != (KVErrorCodeEx)0)
    {
        return state.eErrorCodeEx;
    }

    return state.eErrorCode;
}
```

## KVPDFContext

This pointer identifies a KeyView session. `kvpdf.h` contains its forward declaration. `tag_KVPDFContext` is for internal use only, and so is not defined in the public headers.

```
typedef struct tag_KVPDFContext *KVPDFContext;
```

## KVPDFOptions

This structure modifies PDF Export options.

```
typedef struct
{
    KVStructHeader;
    char pszSourceFilePassword[MAX_PASSWORD_LEN];
    double pageWidthInches;
    double pageHeightInches;
}
KVPDFOptions;
```

## Member Descriptions

<code>KVStructHeader</code>	The KeyView version of the structure. See <a href="#">KVStructHead</a> , on page 33.
<code>pszSourceFilePassword</code>	A fixed length char array, which should either be left zero-filled, or contain a password as a null-terminated C string.
<code>pageWidthInches</code>	The default page width to use when a page width cannot be determined from the source document, in inches.
<code>pageHeightInches</code>	The default page height to use when a page height cannot be determined from the source document, in inches.

## Discussion

KeyView attempts to determine appropriate page dimensions from a file before resorting to using `pageWidthInches` and `pageHeightInches`. KeyView could use, for example, the height of slides in a presentation format file or the right-most column filled in a spreadsheet.

Unless both `pageWidthInches` and `pageHeightInches` are specified, they must both be equal to zero.

US letter dimensions are used when no dimensions can be obtained from a document and `pageWidthInches` and `pageHeightInches` are not set.

## Examples

In this example, an options structure is filled with a password (`pszPassword` here). You might use this option in a call to [fpConvertFileToFile\(\)](#) to open a password protected document.

```
KVPDFOptions getPDFOptionsStructContainingPassword(const char* const pszPassword)
{
    KVPDFOptions sOptions = {0};
    KVStructInit(&sOptions);
    // Copy ensuring the password is always null-terminated.
    strncpy(sOptions.pszSourceFilePassword, pszPassword, MAX_PASSWORD_LEN - 1);
}
```

```
    return sOptions;  
}
```

The following example shows a function that sets the default page width and height in a `KVPDFOptions` structure. `KeyView` uses these values when it cannot determine appropriate page dimensions from the input file.

```
void setPageWidthAndHeight(  
    KVPDFOptions* const optionsStructToDecorate,  
    const double pageWidthInInches,  
    const double pageHeightInInches)  
{  
    optionsStructToDecorate->pageWidthInches = pageWidthInInches;  
    optionsStructToDecorate->pageHeightInches = pageHeightInInches;  
}
```

# Chapter 6: Enumerated Types

This section provides information on some of the enumerated types used by the PDF Export API.

- [Introduction](#) .....37
- [KVErrorCode](#) .....38
- [KVErrorCodeEx](#) .....40
- [KVCharSet](#) .....43
- [ENDocAttributes](#) .....43
- [ENdocFmt](#) .....44

## Introduction

The enumerated types are in `adinfo.h`, `kvcharset.h`, `kverrorcodes.h`, `kvtypes.h`, `kv.h`, and `kvxtract.h`. These header files are in the `include` directory. The first entry in an enumerated type structure should be set to zero (0). Each subsequent entry is increased by 1. For example, the first five entries of `KVCharSet` in `kvcharset.h` are:

```
KVCS_UNKNOWN  
KVCS_SJIS  
KVCS_GB  
KVCS_BIG5  
KVCS_KSC
```

They would be set in the following way:

Enumerated Type	Setting
<code>KVCS_UNKNOWN</code>	0
<code>KVCS_SJIS</code>	1
<code>KVCS_GB</code>	2
<code>KVCS_BIG5</code>	3
<code>KVCS_KSC</code>	4

You can also set many enumerated types by entering the appropriate symbolic constant, or `TRUE` or `FALSE`.

## Programming Guidelines

When KeyView is enhanced in future releases, some enumerated types might be expanded. For example, new format IDs might be added to the `ENdocFmt` enumerated type, or new error codes might

be added to the `KVErrorCodeEx` enumerated type. When you use these expandable types, your code should ensure binary compatibility with future releases.

For example, if you use an array to access error messages based on an error code, your code should check that the error code is less than `KVError_Last` before accessing the data. This ensures that new error codes are detected when you add KeyView binary files from new releases to your existing installation.

The following enumerated types are expandable:

`KVErrorCodeEx`

`KVMetadataType`

`KVCharSet`

`KVLanguageID`

`KVSubfileType`

`ENdocFmt`

## KVErrorCode

This enumerated type defines the type of error generated if Export fails. This enumerated type is defined in `kverrorcodes.h`.

### Definition

```
typedef enum tag_KVErrorCode
{
  KVERR_Success,                /* 0  Success*/
  KVERR_DLLNotFound,           /* 1  DLL or shared library not found*/
  KVERR_OutOfCore,             /* 2  memory allocation failure*/
  KVERR_processCancelled,      /* 3  fpContinue() returns FALSE*/
  KVERR_badInputStream,        /* 4  Invalid/corrupt input stream*/
  KVERR_badOutputType,        /* 5  Invalid output type requested*/
  KVERR_General,               /* 6  General error.... */
  KVERR_FormatNotSupported,    /* 7  Format not supported*/
  KVERR_PasswordProtected,     /* 8  File is Password Protected*/
  KVERR_ADSNotFound,           /* 9  Adobe Document Server not found*/
  KVERR_AutoDetFail,           /* 10 Autodetect error*/
  KVERR_AutoDetNoFormat,       /* 11 Unable to detect file format*/
  KVERR_ReaderInitError,       /* 12 Error initializing the reader*/
  KVERR_NoReader,              /* 13 No reader available for this format*/
  KVERR_CreateOutputFileFailed, /* 14 Unable to create output file*/
  KVERR_CreateTempFileFailed,  /* 15 Unable to create temp file*/
  KVERR_ErrorWritingToOutputFile, /* 16 Error writing to output file*/
  KVERR_CreateProcessFailed,    /* 17 Error creating a child process*/
  KVERR_WaitForChildFailed,     /* 18 Wait for child process failed*/
  KVERR_ChildTimeOut,          /* 19 Child process hung / timed out*/
  KVERR_ArchiveFileNotFound,   /* 20 Attempt to extract nonexistent file*/
}
```

```
KVERR_ArchiveFatalError    /* 21 Fatal error processing archive - should abort*/
}
KErrorCode;
```

## Enumerators

KVERR_SUCCESS	The function completed successfully.
KVERR_DLLNotFound	A DLL or shared library was not found.
KVERR_OutOfCore	Memory allocation failure.
KVERR_processCancelled	The callback function fpContinue() returns FALSE.
KVERR_badInputStream	Invalid or corrupt input stream.
KVERR_badOutputType	Invalid output is requested.
KVERR_General	General error.
KVERR_FormatNotSupported	The file format is not supported.
KVERR_PasswordProtected	The file is encrypted or password-protected. KeyView supports only secure PST files.
KVERR_ADSServerNotFound	Adobe Document Server not found. This error is obsolete.
KVERR_AutoDetFail	Autodetect error.
KVERR_AutoDetNoFormat	Unable to detect file format.
KVERR_ReaderInitError	Error initializing the reader.
KVERR_NoReader	No reader is available for this format.
KVERR_CreateOutputFileFailed	Unable to create output file. This error is generated if the overwrite flag in KVExtractSubFileArg is FALSE, and a subfile has the same name as a file in the target path.
KVERR_CreateTempFileFailed	Unable to create temporary file.
KVERR_ErrorWritingToOutputFile	There was an error writing to the output file.
KVERR_CreateProcessFailed	There was an error creating a child process.
KVERR_WaitForChildFailed	The wait for child process failed.
KVERR_ChildTimeOut	The child process hung or timed out.
KVERR_	Attempt to extract nonexistent file.

KVERR_ArchiveFatalError	A fatal error occurred processing an archive file.
-------------------------	--

## KVErrorCodeEx

This enumerated type defines extended error codes. The type is defined in `kverrorcodes.h`.

### Definition

```
typedef enum tag_KVErrorCodeEx
{
    KVErrOr_OpenStreamFailure = KVERR_ArchiveFatalError + 1, /* 22 */
    KVErrOr_InterfaceFunctionNotFound, /* 23 */
    KVErrOr_InputFileNotFound, /* 24 */
    KVErrOr_OpenOutputFileFailed, /* 25 */
    KVErrOr_MemoryLeak, /* 26 */
    KVErrOr_MemoryOverwrite, /* 27 */
    KVErrOr_GPF, /* 28 */
    KVErrOr_OopCore, /* 29 */
    KVErrOr_KVoopLogFailed, /* 30 */
    KVErrOr_OverNestedFileLimit, /* 31 */
    KVErrOr_PSTAccessFailed, /* 32 */
    KVErrOr_PasswordRequired, /* 33 */
    KVErrOr_InvalidArgs, /* 34 */
    KVErrOr_ReaderUsageDenied, /* 35 */
    KVErrOr_OopBadConfig, /* 36 */
    KVErrOr_OopBrokenPipe, /* 37 */
    KVErrOr_OopPipeOEF, /* 38 */
    KVErrOr_IPCTimeOut, /* 39 */
    KVErrOr_InvalidOopDriverSignature, /* 40 */
    KVErrOr_InvalidOopServiceSignature, /* 41 */
    KVErrOr_ZeroFile, /* 42 */
    KVErrOr_CompressionNotSupported, /* 43 */
    KVErrOr_NoTemplates, /* 44 */
    KVErrOr_NoMainTemplate, /* 45 */
    KVErrOr_InvalidTemplate, /* 46 */
    KVErrOr_TemplateError, /* 47 */
    KVErrOr_IsADirectory, /* 48 */
    KVErrOr_RMSTDecryptionFailed, /* 49 */
    KVErrOr_InvalidLicense, /* 50 */
    KVErrOr_Last /* 51 */
}
KVErrorCodeEx;
```



## Enumerators

<code>KVError_OpenStreamFailure</code>	Failed to open a stream during out-of-process filtering. This is an extended error for the <code>KVERR_General</code> code. This enumerator is used by KeyView Filter.
<code>KVError_InterfaceFunctionNotFound</code>	An interface function was not found during out-of-process filtering. This is an extended error for the <code>KVERR_General</code> code. This enumerator is used by KeyView Filter.
<code>KVError_InputFileNotFound</code>	Could not find the input file during out-of-process filtering. This is an extended error for the <code>KVERR_General</code> code. This enumerator is used by KeyView Filter.
<code>KVError_OpenOutputFileFailed</code>	Could not open the output file during out-of-process filtering. This is an extended error for the <code>KVERR_General</code> code. This enumerator is used by KeyView Filter.
<code>KVError_MemoryLeak</code>	A memory leak occurred during out-of-process filtering. This is an extended error for the <code>KVERR_General</code> code. This enumerator is used by KeyView Filter.
<code>KVError_MemoryOverwrite</code>	A memory overwrite occurred during out-of-process filtering. This is an extended error for the <code>KVERR_General</code> code. This enumerator is used by KeyView Filter.
<code>KVError_GPF</code>	An exception occurred during out-of-process filtering. This is an extended error for the <code>KVERR_General</code> code. This enumerator is used by KeyView Filter.
<code>KVError_OopCore</code>	A memory dump was generated in a child process during out-of-process filtering. This is an extended error for the <code>KVERR_General</code> code. This enumerator is used by KeyView Filter.
<code>KVError_KVoopLogFailed</code>	The creation of the out-of-process error log failed. This is an extended error for the <code>KVERR_General</code> code. This enumerator is used by KeyView Filter.
<code>KVError_OverNestedFileLimit</code>	The container file has more than the allowable number of child documents. One or more child documents were not converted. Currently, this enumerator is not used.
<code>KVError_PSTAccessFailed</code>	The PST file could not be converted. This error might be returned when a call to <code>fpOpenFile()</code> returns <code>NULL</code> for one of the following reasons: <ul style="list-style-type: none"><li>• A Microsoft Outlook client is not installed.</li><li>• A Microsoft Outlook client is installed, but is not the default email client.</li></ul>

	<ul style="list-style-type: none"> <li>• A Microsoft Outlook client is installed, but is not configured correctly.</li> <li>• The PST file is corrupt.</li> <li>• The PST file is read-only (PST files must allow read and write access).</li> <li>• The MAPI call fails.</li> <li>• The bit editions of Microsoft Outlook do not match the bit editions of the KeyView software.</li> </ul> <p>For example, if 32-bit KeyView is used, 32-bit Outlook must be installed. If 64-bit KeyView is used, 64-bit Outlook must be installed.</p>
KVError_PasswordRequired	To open the file, you must provide credentials. This error might be returned when a call to <code>fpOpenFile()</code> returns NULL.
KVError_InvalidArgs	The input argument or structure is invalid. This error is generated by the File Extraction APIs.
KVError_ReaderUsageDenied	<p>The current license key does not enable the document reader required to convert the file. This error might be returned when a call to <code>fpOpenFile()</code> returns NULL.</p> <p>Some document readers are considered advanced features and are licensed separately from the KeyView SDK (for example, the PST and MBX readers). Contact your Micro Focus sales representative to get an updated license key.</p>
KVError_OopBadConfig	Information in the <code>kvxconfig.ini</code> file is incomplete and cannot be used to filter the XML file. This is used by KeyView Filter.
KVError_OopBrokenPipe	Data was not transferred between the parent and child processes during out-of-process filtering because either the parent or child failed. This is used by KeyView Filter.
KVError_OopPipeOEF	Data was not transferred between the parent and child processes during out-of-process filtering because the parent process was shut down. This is used by KeyView Filter.
KVError_IPCTimeOut	Either the parent or child process is waiting for a reply or request during out-of-process filtering. This is used by KeyView Filter.
KVError_InvalidOopDriverSignature	A client sent a request to an out-of-process server, but the context driver does not exist on the server. This is used by KeyView Filter.
KVError_InvalidOopServiceSignature	<p>A client sent a request to a File Extraction service that does not exist.</p> <p>If this error is generated on the call to <code>fpClose()</code>, you can ignore it. This is used by KeyView Filter.</p>

KVError_ZeroFile	The input file is empty or zero bytes.
KVError_CompressionNotSupported	The file or subfile is compressed with an unsupported compression method.
KVError_NoTemplates	
KVError_NoMainTemplate	
KVError_InvalidTemplate	
KVError_TemplateError	
KVError_IsADirectory	
KVError_RMSDecryptionFailed	KeyView was not able to access the protected contents of an RMS file.
KVError_InvalidLicense	The license used to initialize KeyView is not valid for this operation.
KVError_Last	

## Discussion

- When error reporting is enhanced in future releases, new error messages might be added to this enumerator type. When you use this type, your code must ensure binary compatibility with future releases. See [Programming Guidelines, on page 37](#).
- If an extended error code is called for a format to which the error does not apply, the KVError\_Last code is returned.

## KVCharSet

This enumerated type defines the character sets that KeyView can handle. See [Coded Character Sets, on page 160](#).

## ENDocAttributes

This enumerated type provides additional information about a file during auto-detection. This enumerated type is defined in `adinfo.h`.

**NOTE:** The attributes in this enumerated type are set when a particular characteristic is detected. However, if the attribute is not set it does not necessarily mean that the characteristic is not present. For example, KeyView sets `kEncrypted` when it detects encryption on the file, but if it does not detect encryption it does not necessarily mean the file is not encrypted.

## Enumerators

<code>kEncrypted</code>	The file is encrypted.
<code>kWindowRMSEncrypted</code>	The file is encrypted with Windows RMS encryption.
<code>kBigEndian</code>	Where a format has big and little endian variants, this value indicates that this file is in the big endian variant.
<code>kLittleEndian</code>	Where a format has big and little endian variants, this value indicates that this file is in the little endian variant.
<code>k32Bit</code>	Where a format has 64- and 32-bit variants, this value indicates that this file is in the 32-bit variant.
<code>k64Bit</code>	Where a format has 64- and 32-bit variants, this value indicates that this file is in the 64-bit variant.

## ENdocFmt

This enumerated type defines the document formats that KeyView can detect. See [Supported Formats, on page 46](#).

# Part 4: Appendixes

This section lists supported formats, supported character sets and redistributed files, and provides information on format detection.

- [Supported Formats](#)
- [Document Readers](#)
- [Character Sets](#)
- [File Format Detection](#)
- [Files Required for Redistribution](#)
- [Password Protected Files](#)

# Appendix A: Supported Formats

This section lists the file formats that KeyView can detect.

- [Key to Supported Formats Table](#) ..... 46
- [Supported Formats](#) ..... 48

## Key to Supported Formats Table

The supported formats table includes the following information:

Column	Description
Format Name	The format name that is returned by KeyView format detection. <ul style="list-style-type: none"><li>• In the C API, these values are defined in the <code>ENdocFmt</code> enumeration in <code>adDocFmt.h</code>.</li><li>• In the .NET API these values are defined in the <code>Autonomy.API.Export.DocFormat</code> enumeration.</li><li>• In the Java API these values are defined in the <code>com.verity.api.DocFormat</code> enumeration.</li></ul>
Number	The format number that is returned by KeyView format detection. This is the value associated with the Format Name in the relevant enumeration.
Category	This value is used in the KeyView configuration file <code>formats.ini</code> to specify the reader to use to filter, export, or view the format. Several formats might have the same category value.
Description	A short description of the file format.
MIME Type	The MIME type (if any).
Extension	A list of common file extensions for the file format. <b>NOTE:</b> This is not a complete list of file extensions. KeyView does not distinguish between file types based on their extension. Instead, it detects the file format based on the file content. This is more reliable because content cannot always be predicted from the file extension, and because some file extensions are associated with multiple formats.
File Class	The KeyView file class. <ul style="list-style-type: none"><li>• In the C API, these values are defined in the <code>ENdocClass</code> enumeration in <code>adinfo.h</code>.</li><li>• In the .NET API these values are defined in the</li></ul>

	<p>Autonomy.API.Export.DocClass enumeration.</p> <ul style="list-style-type: none"><li>• In the Java API these values are defined in the <code>com.verity.api.DocClass</code> enumeration.</li></ul>
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## Supported Formats

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Reserved__Fmt	-1	-1				AutoDetNoFormat	
Unknown_Fmt	0	0				AutoDetNoFormat	
AES_Multiplus_Comm_Fmt	1	1	Multiplus (AES)		PTF	adWORDPROCESSOR	
ASCII_Text_Fmt	2	2	Plain Text file	text/plain	TXT	adWORDPROCESSOR	<a href="#">afsr</a>
MSDOS_Batch_File_Fmt	3	2	MS-DOS Batch File	application/x-bat	BAT	adEXECUTABLE	<a href="#">afsr</a>
Applix_Alis_Fmt	4	3	Applix Asterix		AX	adWORDPROCESSOR	<a href="#">axsr</a>
BMP_Fmt	5	4	Windows Bitmap Image (BMP)	image/bmp	BMP	adRASTERIMAGE	<a href="#">bmpr</a> , <a href="#">kpbmprdr</a>
CT_DEF_Fmt	6	5	Convergent Technologies DEF Comm. Format			adWORDPROCESSOR	<a href="#">cdsr</a>
Corel_Draw_Fmt	7	6	CorelDRAW (up to version 13/X3)	application/coreldraw	CDR	adVECTORGRAPHIC	<a href="#">kpcdrdr</a>
CGM_ClearText_Fmt	8	8	Computer Graphics Metafile (CGM)		CGM	adVECTORGRAPHIC	<a href="#">kpcgmrdr</a>
CGM_Binary_Fmt	9	8	Computer Graphics Metafile (CGM)	image/cgm	CGM	adVECTORGRAPHIC	<a href="#">kpcgmrdr</a>
CGM_Character_Fmt	10	8	Computer Graphics Metafile (CGM)		CGM	adVECTORGRAPHIC	<a href="#">kpcgmrdr</a>
Word_Connection_Fmt	11	9	Word Connection		CN	adWORDPROCESSOR	<a href="#">stringssr</a>
COMET_TOP_Word_Fmt	12	10	Nixdorf COMET TOP Financial Accounting software			adWORDPROCESSOR	
CEOwrite_Fmt	13	11	CEOwrite		CW	adWORDPROCESSOR	<a href="#">stringssr</a>
DSA101_Fmt	14	12	DSA101 (Honeywell Bull)			adWORDPROCESSOR	<a href="#">stringssr</a>
DCA_RFT_Fmt	15	13	IBM DCA-RFT (Revisable Form)	application/dca-rft	RFT, DC	adWORDPROCESSOR	<a href="#">dcasr</a>
CDA_DDIF_Fmt	16	14	CDA / DDIF		DDIF	adWORDPROCESSOR	
DG_CDS_Fmt	17	16	DG Common Data Stream		CDS	adWORDPROCESSOR	<a href="#">stringssr</a>



Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
			(CDS)				
Micrografx_Draw_Fmt	18	18	Windows Draw (Micrografx)		DRW	adVECTORGRAPHIC	
Data_Point_VistaWord_Fmt	19	19	Vistaword		DV	adWORDPROCESSOR	<a href="#">stringssr</a>
DECdx_Fmt	20	20	DEC WPS Plus DX format		DX	adWORDPROCESSOR	
Enable_WP_Fmt	21	21	Enable Word Processing		WPF	adWORDPROCESSOR	<a href="#">stringssr</a>
EPSF_Fmt	22	22	Encapsulated PostScript	application/postscript	EPS	adRASTERIMAGE, adVECTORGRAPHIC	<a href="#">kpepsrdr</a>
Preview_EPSF_Fmt	23	22	Encapsulated PostScript	application/postscript		adRASTERIMAGE, adVECTORGRAPHIC	<a href="#">kpepsrdr</a>
MS_Executable_Fmt	24	23	MSDOS/Windows executable	application/x-msdownload	EXE	adEXECUTABLE	<a href="#">exesr</a>
G31D_Fmt	25	24	CCITT G3 1D			adRASTERIMAGE	
GIF_87a_Fmt	26	25	Graphics Interchange Format (GIF87a)	image/gif	GIF	adRASTERIMAGE	<a href="#">gifsr</a> , <a href="#">kpgifdr</a>
GIF_89a_Fmt	27	25	Graphics Interchange Format (GIF89a)	image/gif	GIF	adRASTERIMAGE	<a href="#">gifsr</a> , <a href="#">kpgifdr</a>
HP_Word_PC_Fmt	28	26	HP Word PC		HW	adWORDPROCESSOR	<a href="#">stringssr</a>
IBM_1403_LinePrinter_Fmt	29	27	IBM 1403 Line Printer		I4	adWORDPROCESSOR	
IBM_DCF_Script_Fmt	30	28	DCF Script		IC	adWORDPROCESSOR	<a href="#">stringssr</a>
IBM_DCA_FFT_Fmt	31	29	DCA-FFT (IBM Final Form)		IF, FFT	adWORDPROCESSOR	
Interleaf_Fmt	32	30	Interleaf			adWORDPROCESSOR	
GEM_Image_Fmt	33	31	GEM Bit Image		IMG	adRASTERIMAGE	
IBM_Display_Write_Fmt	34	32	IBM DisplayWrite		IP	adWORDPROCESSOR	<a href="#">dw4sr</a>
Sun_Raster_Fmt	35	33	Sun Raster image	image/x-cmu-raster	RAS, RS, SUN	adRASTERIMAGE	<a href="#">kpsunrdr</a>
Ami_Pro_Fmt	36	35	Lotus Ami Pro	application/x-lotus-amipro	SAM	adWORDPROCESSOR	<a href="#">lasr</a>
Ami_Pro_StyleSheet_Fmt	37	35	Lotus Ami Pro Style Sheet			adWORDPROCESSOR	<a href="#">lasr</a>
MORE_Fmt	38	36	MORE Database MAC			adOUTLINE	
Lyrix_Fmt	39	37	Lyrix Word Processing			adWORDPROCESSOR	<a href="#">stringssr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
MASS_11_Fmt	40	38	MASS-11		M1	adWORDPROCESSOR	<a href="#">stringssr</a>
MacPaint_Fmt	41	39	MacPaint		PNTG	adRASTERIMAGE	<a href="#">kpmacrdr</a>
MS_Word_Mac_Fmt	42	40	Microsoft Word for Macintosh (up to version 3)	application/msword	DOC	adWORDPROCESSOR	<a href="#">mbsr</a>
SmartWare_II_Comm_Fmt	43	41	SmartWare II			adCOMMUNICATION	
MS_Word_Win_Fmt	44	42	Microsoft Word for Windows (up to version 6)	application/msword	DOC, WPS	adWORDPROCESSOR	<a href="#">misr</a>
Multimate_Fmt	45	43	MultiMate		MM	adWORDPROCESSOR	<a href="#">stringssr</a>
Multimate_Fnote_Fmt	46	43	MultiMate Footnote File		MMFN	adWORDPROCESSOR	<a href="#">stringssr</a>
Multimate_Adv_Fmt	47	43	MultiMate Advantage			adWORDPROCESSOR	<a href="#">stringssr</a>
Multimate_Adv_Fnote_Fmt	48	43	MultiMate Advantage Footnote File			adWORDPROCESSOR	<a href="#">stringssr</a>
Multimate_Adv_II_Fmt	49	43	MultiMate Advantage II			adWORDPROCESSOR	<a href="#">stringssr</a>
Multimate_Adv_II_Fnote_Fmt	50	43	MultiMate Advantage II Footnote File		FBX, FNX	adWORDPROCESSOR	<a href="#">stringssr</a>
Multipan_PC_Fmt	51	44	Multipan (PC)			adSPREADSHEET	
Multipan_Mac_Fmt	52	44	Multipan (Mac)			adSPREADSHEET	
MS_RTF_Fmt	53	45	Rich Text Format (RTF)	application/rtf	RTF	adWORDPROCESSOR	<a href="#">rtfsr</a>
MS_Word_PC_Fmt	54	46	Microsoft Word for PC (up to version 6)	application/x-ms-wordpc	MW	adWORDPROCESSOR	<a href="#">mwsr</a>
MS_Word_PC_StyleSheet_Fmt	55	46	Microsoft Word for PC (up to version 6) Style Sheet			adWORDPROCESSOR	<a href="#">mwsr</a>
MS_Word_PC_Glossary_Fmt	56	46	Microsoft Word for PC (up to version 6) Glossary			adWORDPROCESSOR	<a href="#">mwsr</a>
MS_Word_PC_Driver_Fmt	57	46	Microsoft Word for PC (up to version 6) Driver			adWORDPROCESSOR	<a href="#">mwsr</a>
MS_Word_PC_Misc_Fmt	58	46	Microsoft Word for PC (up to version 6) Miscellaneous File			adWORDPROCESSOR	<a href="#">mwsr</a>
NBI_Async_Archive_Fmt	59	47	NBI Async Archive Format			adWORDPROCESSOR	
Navy_DIF_Fmt	60	48	Navy DIF (document interchange format)		ND	adWORDPROCESSOR	<a href="#">stringssr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
NBI_Net_Archive_Fmt	61	49	NBI OASys Net Archive Format		NN	adWORDPROCESSOR	<a href="#">nnsr</a>
NIOS_TOP_Fmt	62	50	NIOS TOP			adWORDPROCESSOR	
FileMaker_Mac_Fmt	63	51	Filemaker MAC		FP5, FP7	adDATABASE	
ODA_Q1_11_Fmt	64	52	ODA / ODIF Q1 11		OD	adWORDPROCESSOR	<a href="#">stringssr</a>
ODA_Q1_12_Fmt	65	52	ODA / ODIF Q1 12		OD	adWORDPROCESSOR	<a href="#">stringssr</a>
OLIDIF_Fmt	66	53	OLIDIF (Olivetti)			adWORDPROCESSOR	
Office_Writer_Fmt	67	55	Office Writer		OW	adWORDPROCESSOR	<a href="#">stringssr</a>
PC_Paintbrush_Fmt	68	56	PC Paintbrush Graphics (PCX)	image/vnd.zbrush.pcx	PCX	adRASTERIMAGE	<a href="#">kppcxrdr</a>
CPT_Comm_Fmt	69	57	CPT Corporation word processor		PF	adWORDPROCESSOR	<a href="#">stringssr</a>
Lotus_PIC_Fmt	70	58	Lotus PIC	image/x-pict	PIC	adVECTORGRAPHIC	<a href="#">kppicrdr</a>
Mac_PICT_Fmt	71	59	Macintosh Raster / QuickDraw Picture	image/x-pict	PCT	adRASTERIMAGE, adVECTORGRAPHIC	<a href="#">kppctrdr</a>
Philips_Script_Word_Fmt	72	60	Philips Script			adWORDPROCESSOR	
PostScript_Fmt	73	61	PostScript	application/postscript	PS	adVECTORGRAPHIC	
PRIMEWORD_Fmt	74	62	PRIMEWORD			adWORDPROCESSOR	<a href="#">pwsr</a>
Quadratron_Q_One_v1_Fmt	75	63	Q-One V1.93J		Q1, QX	adWORDPROCESSOR	<a href="#">stringssr</a>
Quadratron_Q_One_v2_Fmt	76	64	Q-One V2.0		Q1, QX	adWORDPROCESSOR	<a href="#">stringssr</a>
SAMNA_Word_IV_Fmt	77	65	SAMNA Word		SAM	adWORDPROCESSOR	<a href="#">stringssr</a>
Ami_Pro_Draw_Fmt	78	66	Lotus Ami Pro Draw		SDW	adRASTERIMAGE, adVECTORGRAPHIC	<a href="#">kpsdwrdr</a>
SYLK_Spreadsheet_Fmt	79	67	SYmbolic LinK (SYLK) format		SLK	adSPREADSHEET	
SmartWare_II_WP_Fmt	80	68	Informix SmartWare II word processor		DOC, SMT	adWORDPROCESSOR	<a href="#">swsr</a>
Symphony_Fmt	81	69	Lotus Symphony spreadsheet		WR1	adSPREADSHEET	
Targa_Fmt	82	70	Truevision Targa image	image/x-tga	TGA	adRASTERIMAGE	<a href="#">kptGArdr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
TIFF_Fmt	83	71	Tagged Image File Format (TIFF)	image/tiff	TIF, TIFF	adRASTERIMAGE, adFAXFORMAT	kptifdr, tifsr
Targon_Word_Fmt	84	72	Targon Word		TW	adWORDPROCESSOR	stringssr
Uniplex_Ucalc_Fmt	85	73	Uniplex Ucalc		SS	adSPREADSHEET	
Uniplex_WP_Fmt	86	74	Uniplex word processor		UP	adWORDPROCESSOR	stringssr
MS_Word_UNIX_Fmt	87	75	Microsoft Word UNIX	application/msword		adWORDPROCESSOR	
WANG_PC_Fmt	88	76	WANG PC			adWORDPROCESSOR	
WordERA_Fmt	89	77	WordERA		DC, GL, FR	adWORDPROCESSOR	stringssr
WANG_WPS_Comm_Fmt	90	78	WANG WPS		WF	adWORDPROCESSOR	stringssr
WordPerfect_Mac_Fmt	91	79	WordPerfect MAC	application/x-corel-wordperfect		adWORDPROCESSOR	wpmr
WordPerfect_Fmt	92	86	WordPerfect version 4	application/x-corel-wordperfect	WP, WP4	adWORDPROCESSOR	stringssr
WordPerfect_VAX_Fmt	93	139	WordPerfect VAX	application/x-corel-wordperfect		adWORDPROCESSOR	
WordPerfect_Macro_Fmt	94	139	WordPerfect Macro	application/vnd.wordperfect	MRS	adWORDPROCESSOR	
WordPerfect_Dictionary_Fmt	95	139	WordPerfect Spelling Dictionary	application/vnd.wordperfect	SPW	adWORDPROCESSOR	
WordPerfect_Thesaurus_Fmt	96	139	WordPerfect Thesaurus	application/vnd.wordperfect		adWORDPROCESSOR	
WordPerfect_Resource_Fmt	97	139	WordPerfect Resource File	application/vnd.wordperfect	WWK, PRS	adWORDPROCESSOR	
WordPerfect_Driver_Fmt	98	139	WordPerfect Driver	application/vnd.wordperfect	IRS, VRS	adWORDPROCESSOR	
WordPerfect_Cfg_Fmt	99	139	WordPerfect Configuration File	application/vnd.wordperfect	PFX	adWORDPROCESSOR	
WordPerfect_Hyphenation_Fmt	100	139	WordPerfect Hyphenation Dictionary	application/vnd.wordperfect	HYC	adWORDPROCESSOR	
WordPerfect_Misc_Fmt	101	139	WordPerfect Miscellaneous File	application/vnd.wordperfect		adWORDPROCESSOR	
WordMARC_Fmt	102	82	WordMARC Composer	video/x-ms-wm	WM, PW	adWORDPROCESSOR	stringssr
Windows_Metatile_Fmt	103	83	Windows Metatile	image/wmf	WMF	adRASTERIMAGE, adVECTORGRAPHIC	kpwmfrdr
Windows_Metatile_NoHdr_Fmt	104	83	Windows Metatile (no header)	image/wmf	WMF	adVECTORGRAPHIC	kpwmfrdr

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
SmartWare_II_DB_Fmt	105	84	Informix SmartWare II database			adDATABASE	
WordPerfect_Graphics_Fmt	106	195	WordPerfect Graphics (version 2 and higher)	application/vnd.wordperfect	WPG, QPG	adRASTERIMAGE, adVECTORGRAPHIC	<a href="#">kpwg2rdr</a> , <a href="#">kpwpgdrdr</a>
WordStar_Fmt	107	87	WordStar		WS, WSD	adWORDPROCESSOR	<a href="#">stringssr</a>
WANG_WITA_Fmt	108	88	WANG WITA		WT	adWORDPROCESSOR	<a href="#">stringssr</a>
Xerox_860_Comm_Fmt	109	89	Xerox 860			adWORDPROCESSOR	<a href="#">stringssr</a>
Xerox_Writer_Fmt	110	91	Xerox Writer			adWORDPROCESSOR	<a href="#">stringssr</a>
DIF_SpreadSheet_Fmt	111	92	Data Interchange Format (DIF)	application/dif+xml	DIF	adSPREADSHEET	<a href="#">difsr</a>
Enable_Spreadsheet_Fmt	112	93	Enable Spreadsheet	application/vnd.epson.ssf	SSF	adSPREADSHEET	
SuperCalc_Fmt	113	94	Sorcim SuperCalc spreadsheet		CAL	adSPREADSHEET	
UltraCalc_Fmt	114	95	UltraCalc spreadsheet			adSPREADSHEET	
SmartWare_II_SS_Fmt	115	96	Informix SmartWare II spreadsheet			adSPREADSHEET	
SOF_Encapsulation_Fmt	116	97	Serialized Object Format (SOF)	application/java-serialized-object	SOF	adENCAPSULATION	
PowerPoint_Win_Fmt	117	98	Microsoft PowerPoint PC (up to version 4)	application/x-ms-powerpoint	PPT	adPRESENTATION	<a href="#">kpp40rdr</a>
PowerPoint_Mac_Fmt	118	99	Microsoft PowerPoint MAC (up to version 4)	application/x-ms-powerpoint	PPT	adPRESENTATION	
PowerPoint_95_Fmt	119	212	Microsoft PowerPoint 95	application/x-ms-powerpoint	PPT	adPRESENTATION	<a href="#">kpp95rdr</a>
PowerPoint_97_Fmt	120	272	Microsoft PowerPoint 97	application/x-ms-powerpoint	PPT	adPRESENTATION	<a href="#">kpp97rdr</a>
PageMaker_Mac_Fmt	121	100	PageMaker for Macintosh			adDESKTOPPUBLSH	
PageMaker_Win_Fmt	122	101	PageMaker for Windows			adDESKTOPPUBLSH	
MS_Works_Mac_WP_Fmt	123	103	Microsoft Works Word Processor for MAC	application/x-msworks	MWK	adWORDPROCESSOR	<a href="#">stringssr</a>
MS_Works_Mac_DB_Fmt	124	104	Microsoft Works Database for MAC	application/x-msworks		adDATABASE	
MS_Works_Mac_SS_Fmt	125	105	Microsoft Works Spreadsheet for MAC	application/x-msworks		adSPREADSHEET	<a href="#">mwssr</a>
MS_Works_Mac_Comm_	126	106	Microsoft Works	application/x-msworks		adCOMMUNICATION	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Fmt			Communication for MAC				
MS_Works_DOS_WP_Fmt	127	107	Microsoft Works Word Processor for DOS	application/x-msworks	WPS	adWORDPROCESSOR	<a href="#">stringssr</a>
MS_Works_DOS_DB_Fmt	128	108	Microsoft Works Database for DOS	application/x-msworks	WDB	adDATABASE	
MS_Works_DOS_SS_Fmt	129	109	Microsoft Works Spreadsheet for DOS	application/x-msworks		adSPREADSHEET	<a href="#">mwssr</a>
MS_Works_Win_WP_Fmt	130	227	Microsoft Works Word Processor for Windows (up to 2000)	application/x-msworks	WPS, W40	adWORDPROCESSOR	<a href="#">msw6sr</a> , <a href="#">mswsr</a>
MS_Works_Win_DB_Fmt	131	231	Microsoft Works Database for Windows	application/x-msworks		adDATABASE	
MS_Works_Win_SS_Fmt	132	228	Microsoft Works Spreadsheet for Windows	application/x-msworks	WKS, S30, S40	adSPREADSHEET	<a href="#">mwssr</a>
PC_Library_Fmt	133	111	DOS/Windows Object Library	application/x-archive	LIB, A	adLIBRARY	
MacWrite_Fmt	134	112	MacWrite	application/macwriteii		adWORDPROCESSOR	<a href="#">stringssr</a>
MacWrite_II_Fmt	135	113	MacWrite II	application/macwriteii		adWORDPROCESSOR	<a href="#">stringssr</a>
Freehand_Fmt	136	114	Freehand MAC	image/x-freehand		adVECTORGRAPHIC	
Disk_Doubler_Fmt	137	115	Disk Doubler			adENCAPSULATION	
HP_GL_Fmt	138	116	HP Graphics Language	vector/x-hpgl	HPGL, HPG	adVECTORGRAPHIC	
FrameMaker_Fmt	139	136	FrameMaker	application/vnd.framemaker	FM, FRM	adDESKTOPPUBLSH	
FrameMaker_Book_Fmt	140	136	FrameMaker Book	application/vnd.framemaker	BOOK	adDESKTOPPUBLSH	
Maker_Markup_Language_Fmt	141	174	Maker Markup Language	application/vnd.mif		adDESKTOPPUBLSH	
Maker_Interchange_Fmt	142	117	Adobe FrameMaker Interchange Format (MIF)	application/x-mif	MIF	adWORDPROCESSOR	<a href="#">mifsr</a>
JPEG_File_Interchange_Fmt	143	118	JPEG Interchange Format	image/jpeg	JPG, JPEG	adRASTERIMAGE	<a href="#">jpgsr</a> , <a href="#">kjpggrdr</a>
Reflex_Fmt	144	119	Borland Reflex database			adDATABASE	
Framework_Fmt	145	276	Framework office suite			adMIXED	
Framework_II_Fmt	146	120	Framework II office suite		FW3	adMIXED	
Paradox_Fmt	147	121	Borland Paradox database		DB	adDATABASE	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
MS_Windows_Write_Fmt	148	123	Microsoft Windows Write	application/x-ms-write	WRI	adWORDPROCESSOR	<a href="#">mwsr</a>
Quattro_Pro_DOS_Fmt	149	124	Corel Quattro Pro for DOS	application/x-quattropro	WQ1	adSPREADSHEET	
Quattro_Pro_Win_Fmt	150	184	Corel Quattro Pro for Windows	application/x-quattro-win	WB1, WB2, WB3	adSPREADSHEET	<a href="#">qpssr</a>
Persuasion_Fmt	151	126	Adobe Persuasion			adPRESENTATION	
Windows_Icon_Fmt	152	128	Windows Icon Format	image/vnd.microsoft.icon	ICO	adRASTERIMAGE	<a href="#">kpicordr</a>
Windows_Cursor_Fmt	153	133	Windows Cursor	image/x-win-bitmap	CUR	adRASTERIMAGE	
MS_Project_Activity_Fmt	154	129	Microsoft Project (up to version 3) activity file			adSCHEDULE	
MS_Project_Resource_Fmt	155	129	Microsoft Project (up to version 3) resource file			adSCHEDULE	
MS_Project_Calc_Fmt	156	129	Microsoft Project (up to version 3) calc file			adSCHEDULE	
PKZIP_Fmt	157	132	ZIP Archive	application/zip	ZIP, ZIPX	adENCAPSULATION, adEXECUTABLE	<a href="#">unzip</a>
Quark_Xpress_Fmt	158	134	Quark Xpress MAC			adDESKTOPPUBLSH	
ARC_PAK_Archive_Fmt	159	135	PAK/ARC Archive		ARC, PAK	adENCAPSULATION	
MS_Publisher_Fmt	160	137	Microsoft Publisher (up to version 3)	application/x-mspublisher	PUB	adDESKTOPPUBLSH	<a href="#">mspubsr</a>
PlanPerfect_Fmt	161	138	PlanPerfect			adSCHEDULE	
WordPerfect_Auxiliary_Fmt	162	139	Corel WordPerfect auxiliary file		WPW	adMISC, adENCAPSULATION	
MS_WAVE_Audio_Fmt	163	141	Microsoft Wave audio	audio/wav	WAV	adSOUND	<a href="#">MCI, riffsr</a>
MIDI_Audio_Fmt	164	142	MIDI audio	audio/mid	MID, MIDI	adSOUND	<a href="#">MCI</a>
AutoCAD_DXF_Binary_Fmt	165	143	Autodesk AutoCAD DXF binary format	image/x-dxf	DXF	adVECTORGRAPHIC	<a href="#">kpDXFrdr, kpODArdr</a>
AutoCAD_DXF_Text_Fmt	166	143	Autodesk AutoCAD DXF text format	image/x-dxf	DXF	adVECTORGRAPHIC	<a href="#">kpDXFrdr, kpODArdr</a>
dBase_Fmt	167	144	dBase Database III+/IV	application/x-dbf	DBF, VCX	adDATABASE	<a href="#">dbfsr</a>
OS_2_PM_Metatile_Fmt	168	145	OS/2 PM Metatile		MET	adVECTORGRAPHIC	
Lasergraphics_Language_Fmt	169	146	Lasergraphics Language			adVECTORGRAPHIC	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
AutoShade_Rendering_Fmt	170	147	AutoShade Rendering			adVECTORGRAPHIC	
GEM_VDI_Fmt	171	148	GEM VDI Metafile image		GEM, GDI	adVECTORGRAPHIC	
Windows_Help_Fmt	172	149	Windows Help File	application/winhelp	HLP	adMISC	
Volkswriter_Fmt	173	150	Volkswriter word processor		VW4	adWORDPROCESSOR	<a href="#">stringssr</a>
Ability_WP_Fmt	174	151	Ability Word Processor			adWORDPROCESSOR	
Ability_DB_Fmt	175	151	Ability Database			adDATABASE	
Ability_SS_Fmt	176	151	Ability Spreadsheet			adSPREADSHEET	
Ability_Comm_Fmt	177	151	Ability Presentation			adCOMMUNICATION	
Ability_Image_Fmt	178	151	Ability Image			adRASTERIMAGE	
XyWrite_Fmt	179	152	XYWrite / Nota Bene		XY4	adWORDPROCESSOR	<a href="#">xywsr</a>
CSV_Fmt	180	153	CSV (Comma Separated Values)	text/csv	CSV	adSPREADSHEET	<a href="#">csvsr</a>
IBM_Writing_Assistant_Fmt	181	154	IBM Writing Assistant		IWA	adWORDPROCESSOR	<a href="#">stringssr</a>
WordStar_2000_Fmt	182	155	WordStar 2000		WS2	adWORDPROCESSOR	<a href="#">stringssr</a>
HP_PCL_Fmt	183	157	HP Printer Control Language	application/pcl	PCL	adVECTORGRAPHIC	
UNIX_Exe_PreSysV_VAX_Fmt	184	158	UNIX executable (PDP-11/pre-System V VAX)	application/octet-stream		adEXECUTABLE	
UNIX_Exe_Basic_16_Fmt	185	158	UNIX executable (Basic-16)	application/octet-stream		adEXECUTABLE	
UNIX_Exe_x86_Fmt	186	158	UNIX executable (x86)	application/octet-stream		adEXECUTABLE	
UNIX_Exe_iAPX_286_Fmt	187	158	UNIX executable (iAPX 286)	application/octet-stream		adEXECUTABLE	
UNIX_Exe_MC68k_Fmt	188	158	UNIX executable (MC680x0)	application/octet-stream		adEXECUTABLE	
UNIX_Exe_3B20_Fmt	189	158	UNIX executable (3B20)	application/octet-stream		adEXECUTABLE	
UNIX_Exe_WE32000_Fmt	190	158	UNIX executable (WE32000)	application/octet-stream		adEXECUTABLE	
UNIX_Exe_VAX_Fmt	191	158	UNIX executable (VAX)	application/octet-stream		adEXECUTABLE	



Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
UNIX_Exe_Bell_5_Fmt	192	158	UNIX executable (Bell 5.0)	application/octet-stream		adEXECUTABLE	
UNIX_Obj_VAX_Demand_Fmt	193	159	UNIX object module (VAX Demand)			adOBJECTMODULE	
UNIX_Obj_MS8086_Fmt	194	159	UNIX object module (old MS 8086)			adOBJECTMODULE	
UNIX_Obj_Z8000_Fmt	195	159	UNIX object module (Z8000)			adOBJECTMODULE	
AU_Audio_Fmt	196	161	NeXT/Sun Audio Data	audio/basic	AU, SND	adSOUND	<a href="#">MCI</a>
NeWS_Font_Fmt	197	162	NeWS bitmap font			adFONT	
cpio_Archive_CRCChdr_Fmt	198	163	cpio archive (CRC Header)	application/x-cpio		adENCAPSULATION	
cpio_Archive_CHRhdr_Fmt	199	163	cpio archive (CHR Header)	application/x-cpio		adENCAPSULATION	
PEX_Binary_Archive_Fmt	200	164	SUN PEX Binary Archive			adENCAPSULATION	
Sun_vfont_Fmt	201	165	SUN vfont Definition			adFONT	
Curses_Screen_Fmt	202	166	Curses Screen Image			adRASTERIMAGE	
UUEncoded_Fmt	203	167	UU-encoded text	text/x-uencode	UUE	adENCAPSULATION	<a href="#">uudsr</a>
WriteNow_Fmt	204	168	WriteNow MAC			adWORDPROCESSOR	<a href="#">stringssr</a>
PC_Obj_Fmt	205	169	DOS/Windows Object Module	application/octet-stream	OBJ	adOBJECTMODULE	
Windows_Group_Fmt	206	170	Windows Group			adMISC	
TrueType_Font_Fmt	207	171	TrueType Font	application/x-font-ttf	TTF	adFONT	
Windows_PIF_Fmt	208	172	Program Information File (PIF)	application/octet-stream	PIF	adMISC	
MS_COM_Executable_Fmt	209	173	PC (.COM)	application/octet-stream	COM	adEXECUTABLE	
Stuftit_Fmt	210	175	Stuftit (MAC)	application/x-stuftit	HQX	adENCAPSULATION	
PeachCalc_Fmt	211	176	PeachCalc		CAL	adSPREADSHEET	
Wang_GDL_Fmt	212	177	WANG Office GDL Header			adENCAPSULATION	
Q_A_DOS_Fmt	213	179	Q & A for DOS			adWORDPROCESSOR	<a href="#">stringssr</a>
Q_A_Win_Fmt	214	180	Q & A for Windows		JW	adWORDPROCESSOR	<a href="#">stringssr</a>
WPS_PLUS_Fmt	215	181	WPS-PLUS	application/vnd.ms-wpl	WPL	adWORDPROCESSOR	<a href="#">stringssr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
DCX_Fmt	216	182	DCX FAX Format(PCX images)	image/dcx	DCX	adFAXFORMAT	<a href="#">kpdcxrdr</a>
OLE_Fmt	217	183	OLE Compound Document		OLE	adENCAPSULATION	<a href="#">olesr</a>
EBCDIC_Fmt	218	186	EBCDIC Text			adWORDPROCESSOR	
DCS_Fmt	219	187	DCS			adWORDPROCESSOR	
UNIX_SHAR_Fmt	220	190	SHAR shell archive format	application/x-shar	SHAR	adENCAPSULATION	
Lotus_Notes_BitMap_Fmt	221	191	Lotus Notes Bitmap			adRASTERIMAGE	
Lotus_Notes_CDF_Fmt	222	193	Lotus Notes CDF	application/cdf	CDF	adWORDPROCESSOR	<a href="#">stringssr</a>
Compress_Fmt	223	192	UNIX Compress archive	application/x-compress	Z	adENCAPSULATION	<a href="#">kvzee</a> , <a href="#">kvzeesr</a>
GZ_Compress_Fmt	224	198	GZ Compress archive	application/gzip	GZ	adENCAPSULATION	<a href="#">kvgz</a> , <a href="#">kvgzsr</a>
TAR_Fmt	225	194	TAR (tape archive)	application/tar	TAR	adENCAPSULATION	<a href="#">tarsr</a>
ODIF_FOD26_Fmt	226	196	Open Document Architecture (ODA / ODIF) FOD26	application/oda	F26	adWORDPROCESSOR	
ODIF_FOD36_Fmt	227	196	Open Document Architecture (ODA / ODIF) FOD36	application/oda	F36	adWORDPROCESSOR	
ALIS_Fmt	228	197	ALIS			adWORDPROCESSOR	
Envoy_Fmt	229	199	WordPerfect Envoy	application/envoy	EYV	adWORDPROCESSOR	
PDF_Fmt	230	200	Adobe PDF (Portable Document Format)	application/pdf	PDF	adWORDPROCESSOR	<a href="#">kppdf2rdr</a> , <a href="#">kppdfdrdr</a> , <a href="#">pdf2sr</a> , <a href="#">pdfsr</a>
BinHex_Fmt	231	206	BinHex	application/mac-binhex40	HQX	adENCAPSULATION	<a href="#">kvhqxsr</a>
SMTP_Fmt	232	207	SMTP (Text Mail / Outlook Express)	message/rfc822	SMTP	adENCAPSULATION	<a href="#">emlsr</a>
MIME_Fmt	233	208	MIME (EML / MBX email) <sup>1</sup>	message/rfc822	EML, MBX	adENCAPSULATION	<a href="#">mbxsr</a>
USENET_Fmt	234	264	USENET	message/news		adWORDPROCESSOR	
SGML_Fmt	235	209	SGML	text/sgml	SGML	adWORDPROCESSOR	<a href="#">afsr</a>
HTML_Fmt	236	210	HTML	text/html	HTM, HTML	adWORDPROCESSOR	<a href="#">htmsr</a>
ACT_Fmt	237	211	ACT! CRM software		ACT	adWORDPROCESSOR	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
PNG_Fmt	238	213	Portable Network Graphics (PNG)	image/png	PNG	adRASTERIMAGE	<a href="#">kppngrdr</a> , <a href="#">pngsr</a>
MS_Video_Fmt	239	214	Video for Windows (AVI)	video/avi	AVI	adMOVIE	<a href="#">MCI</a>
Windows_Animated_Cursor_Fmt	240	215	Windows Animated Cursor		ANI	adRASTERIMAGE	<a href="#">kpanirdr</a>
Windows_CPP_Obj_Storage_Fmt	241	216	Windows C++ Object Storage			adMIXED	
Windows_Palette_Fmt	242	217	Windows Palette		PAL	adRASTERIMAGE	
RIFF_DIB_Fmt	243	218	RIFF Device Independent Bitmap			adRASTERIMAGE	
RIFF_MIDI_Fmt	244	219	RIFF MIDI	audio/midi	RMI	adSOUND	
RIFF_Multimedia_Movie_Fmt	245	220	RIFF Multimedia Movie		MMM	adMOVIE	
MPEG_Fmt	246	221	MPEG Movie	video/mpeg		adMOVIE	
QuickTime_Fmt	247	222	QuickTime Movie, MPEG-4 audio	video/quicktime	MOV, QT, MP4	adMOVIE	<a href="#">MCI</a> , <a href="#">mpeg4sr</a>
AIFF_Fmt	248	223	Audio Interchange File Format (AIFF)	audio/aiff	AIF, AIFF, AIFC	adSOUND	<a href="#">MCI</a> , <a href="#">aifsr</a>
Amiga_MOD_Fmt	249	224	Amiga MOD		MOD	adSOUND	
Amiga_IFF_8SVX_Fmt	250	225	Amiga IFF (8SVX) Sound	audio/x-8svx	IFF	adSOUND	
Creative_Voice_Audio_Fmt	251	226	Creative Voice (VOC)		VOC	adSOUND	
AutoDesk_Animator_FLI_Fmt	252	229	AutoDesk Animator FLIC	video/x-fli	FLI	adANIMATION	
AutoDesk_AnimatorPro_FLC_Fmt	253	230	AutoDesk Animator Pro FLIC	video/x-flc	FLC	adANIMATION	
Compactor_Archive_Fmt	254	233	Compactor / Compact Pro	application/mac-compactpro		adENCAPSULATION	
VRML_Fmt	255	234	VRML	model/vrml	WRL	adVECTORGRAPHIC	
QuickDraw_3D_Metatile_Fmt	256	235	QuickDraw 3D Metatile			adVECTORGRAPHIC	
PGP_Secret_Keyring_Fmt	257	236	PGP Secret Keyring	application/pgp		adENCAPSULATION	
PGP_Public_Keyring_Fmt	258	237	PGP Public Keyring	application/pgp		adENCAPSULATION	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
PGP_Encrypted_Data_Fmt	259	238	PGP Encrypted Data	application/pgp		adENCAPSULATION	
PGP_Signed_Data_Fmt	260	239	PGP Signed Data	application/pgp		adENCAPSULATION	
PGP_SignedEncrypted_Data_Fmt	261	240	PGP Signed and Encrypted Data	application/pgp		adENCAPSULATION	
PGP_Sign_Certificate_Fmt	262	241	PGP Signature Certificate	application/pgp-signature	SIG	adENCAPSULATION	
PGP_Compressed_Data_Fmt	263	246	PGP Compressed Data	application/pgp		adENCAPSULATION	
PGP_ASCII_Public_Keyring_Fmt	264	242	ASCII-armored PGP Public Keyring	application/pgp	PGP	adENCAPSULATION	
PGP_ASCII_Encoded_Fmt	265	243	ASCII-armored PGP encoded	application/pgp		adENCAPSULATION	
PGP_ASCII_Signed_Fmt	266	244	ASCII-armored PGP signed	application/pgp		adENCAPSULATION	
OLE_DIB_Fmt	267	245	OLE DIB object			adRASTERIMAGE	
SGL_Image_Fmt	268	247	SGL RGB Image	image/sgi	RGB	adRASTERIMAGE	<a href="#">kpsgirdr</a>
Lotus_ScreenCam_Fmt	269	248	Lotus ScreenCam	application/vnd.lotus-screencam	SCM	adANIMATION	
MPEG_Audio_Fmt	270	249	MPEG-1 Audio layer3 (MP3)	audio/mpeg	MPEGA, MPG, MP3	adSOUND	<a href="#">MCI</a> , <a href="#">mp3sr</a>
FTP_Software_Session_Fmt	271	250	FTP Session Data		STE	adCOMMUNICATION	
Netscape_Bookmark_File_Fmt	272	210	Netscape Bookmark File	text/html		adWORDPROCESSOR	<a href="#">htmsr</a>
Corel_Draw_CMx_Fmt	273	252	Corel CMX	application/cmx	CMX	adVECTORGRAPHIC	
AutoDesk_DWG_Fmt	274	253	AutoDesk AutoCAD Drawing (DWG)	image/x-dwg	DWG	adVECTORGRAPHIC	<a href="#">kpDWGrdr</a> , <a href="#">kpODArdr</a>
AutoDesk_WHIP_Fmt	275	254	AutoDesk WHIP		WHP	adVECTORGRAPHIC	
Macromedia_Director_Fmt	276	255	Macromedia Shockwave/Adobe Director	application/x-director	DCR, DXR, DIR	adANIMATION	
Real_Audio_Fmt	277	256	Real Audio	audio/x-pn-realaudio	RM, RA	adSOUND	
MSDOS_Device_Driver_Fmt	278	257	MSDOS Device Driver	application/octet-stream	SYS	adEXECUTABLE	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Micrografx_Designer_Fmt	279	258	Micrografx Designer		DSF	adVECTORGRAPHIC	
SVF_Fmt	280	259	Simple Vector Format (SVF)	image/x-svf	SVF	adVECTORGRAPHIC	
Applix_Words_Fmt	281	261	Applix Words	application/x-applix-word	AW	adWORDPROCESSOR	<a href="#">awsr</a>
Applix_Graphics_Fmt	282	262	Applix Graphics		AG	adPRESENTATION	<a href="#">kpagrdr</a>
MS_Access_Fmt	283	263	Microsoft Access (versions 1 and 2)	application/x-msaccess	MDB	adDATABASE	<a href="#">mdbsr</a>
MS_Access_95_Fmt	284	263	Microsoft Access 95	application/msaccess	MDB	adDATABASE	<a href="#">mdbsr</a>
MS_Access_97_Fmt	285	263	Microsoft Access 97	application/msaccess	MDB	adDATABASE	<a href="#">mdbsr</a>
MacBinary_Fmt	286	265	MacBinary	application/x-macbinary	BIN	adENCAPSULATION	<a href="#">macbinsr</a>
Apple_Single_Fmt	287	266	Apple Single			adENCAPSULATION	
Apple_Double_Fmt	288	267	Apple Double	multipart/appledouble	AD	adENCAPSULATION	
Enhanced_Metafile_Fmt	289	270	Enhanced Metafile	image/x-emf	EMF	adVECTORGRAPHIC	<a href="#">kpemfrdr</a>
MS_Office_Drawing_Fmt	290	271	Microsoft Office Drawing			adVECTORGRAPHIC	<a href="#">kpmsordr</a>
XML_Fmt	291	285	XML	text/xml	XML	adWORDPROCESSOR	<a href="#">xmlsr</a>
DeVice_Independent_Fmt	292	274	DeVice Independent file (DVI)	application/x-dvi	DVI	adVECTORGRAPHIC	
Unicode_Fmt	293	275	Unicode text file	text/plain	UNI	adWORDPROCESSOR	<a href="#">unisir</a>
Lotus_123_Worksheet_Fmt	294	81	Lotus 1-2-3	application/x-lotus-123	WKS, WK1, WK3, WK4	adSPREADSHEET	<a href="#">wkssr</a>
Lotus_123_Format_Fmt	295	81	Lotus 1-2-3 Formatting	application/x-123	FM3	adSPREADSHEET	<a href="#">l123sr</a>
Lotus_123_97_Fmt	296	81	Lotus 1-2-3 97	application/x-lotus-123	123	adSPREADSHEET	<a href="#">l123sr</a>
Lotus_Word_Pro_96_Fmt	297	268	Lotus Word Pro 96	application/vnd.lotus-wordpro	LWP, MWP	adWORDPROCESSOR	<a href="#">lwpsr</a>
Lotus_Word_Pro_97_Fmt	298	268	Lotus Word Pro 97	application/vnd.lotus-wordpro	LWP, MWP	adWORDPROCESSOR	<a href="#">lwpsr</a>
Freelance_DOS_Fmt	299	140	Lotus Freelance for DOS	application/x-freelance	PRZ	adPRESENTATION	<a href="#">kppzrdr</a>
Freelance_Win_Fmt	300	140	Lotus Freelance for Windows	application/x-freelance	PRE, FLW	adPRESENTATION	<a href="#">kpprerdr</a>
Freelance_OS2_Fmt	301	140	Lotus Freelance for OS/2	application/x-freelance	PRS	adPRESENTATION	<a href="#">kpprerdr</a>
Freelance_96_Fmt	302	140	Lotus Freelance 96	application/x-freelance	PRZ	adPRESENTATION	<a href="#">kppzrdr</a>
Freelance_97_Fmt	303	140	Lotus Freelance 97	application/x-freelance	PRZ	adPRESENTATION	<a href="#">kppzrdr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
MS_Word_95_Fmt	304	189	Microsoft Word 95	application/msword	DOC	adWORDPROCESSOR	<a href="#">mw6sr</a>
MS_Word_97_Fmt	305	269	Microsoft Word 97	application/msword	DOC, WPS, WBK	adWORDPROCESSOR	<a href="#">mw8sr</a>
Excel_Fmt	306	90	Microsoft Excel (up to version 5)	application/x-ms-excel	XLS	adSPREADSHEET	<a href="#">xlssr</a>
Excel_Chart_Fmt	307	90	Microsoft Excel (up to version 5) chart	application/x-ms-excel	XLC	adSPREADSHEET	<a href="#">xlssr</a>
Excel_Macro_Fmt	308	90	Microsoft Excel (up to version 5) macro	application/vnd.ms-excel	XLM	adSPREADSHEET	<a href="#">xlssr</a>
Excel_95_Fmt	309	188	Microsoft Excel 95	application/x-ms-excel	XLS	adSPREADSHEET	<a href="#">xlssr</a>
Excel_97_Fmt	310	188	Microsoft Excel 97	application/x-ms-excel	XLS, XLR	adSPREADSHEET	<a href="#">xlssr</a>
Corel_Presentations_Fmt	311	127	Corel Presentations	application/x-corelpresentations	XFD, XFDL	adPRESENTATION	<a href="#">kpsrwrdr</a>
Harvard_Graphics_Fmt	312	131	Harvard Graphics		PR4	adPRESENTATION	
Harvard_Graphics_Chart_Fmt	313	131	Harvard Graphics Chart		CH3, CHT	adVECTORGRAPHIC	
Harvard_Graphics_Symbol_Fmt	314	131	Harvard Graphics Symbol File		SY3	adVECTORGRAPHIC	
Harvard_Graphics_Cfg_Fmt	315	131	Harvard Graphics Configuration File			adVECTORGRAPHIC	
Harvard_Graphics_Palette_Fmt	316	131	Harvard Graphics Palette			adVECTORGRAPHIC	
Lotus_123_R9_Fmt	317	81	Lotus 1-2-3 Release 9	application/x-lotus-123	123	adSPREADSHEET	<a href="#">l123sr</a>
Applix_Spreadsheets_Fmt	318	278	Applix Spreadsheets	application/x-applix-spreadsheet	AS	adSPREADSHEET	<a href="#">assr</a>
MS_Pocket_Word_Fmt	319	45	Microsoft Pocket Word		PWD	adWORDPROCESSOR	<a href="#">rtfsr</a>
MS_DIB_Fmt	320	279	Microsoft Device Independent Bitmap	image/bmp	DIB	adRASTERIMAGE	
MS_Word_2000_Fmt	321	269	Microsoft Word 2000	application/msword	DOC	adWORDPROCESSOR	<a href="#">mw8sr</a>
Excel_2000_Fmt	322	188	Microsoft Excel 2000	application/x-ms-excel	XLS	adSPREADSHEET	<a href="#">xlssr</a>
PowerPoint_2000_Fmt	323	272	Microsoft PowerPoint 2000	application/x-ms-powerpoint	PPT	adPRESENTATION	<a href="#">kpp97rdr</a>
MS_Access_2000_Fmt	324	263	Microsoft Access 2000	application/x-msaccess	MDB	adDATABASE	<a href="#">mdbsr</a>
MS_Project_4_Fmt	325	281	Microsoft Project 4		MPP	adSCHEDULE	<a href="#">mpps</a>
MS_Project_41_Fmt	326	281	Microsoft Project 4.1		MPP	adSCHEDULE	<a href="#">mpps</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
MS_Project_98_Fmt	327	281	Microsoft Project 98	application/vnd.ms-project	MPP	adSCHEDULE	<a href="#">mppsr</a>
Folio_Flat_Fmt	328	282	Folio Flat File		FFF	adWORDPROCESSOR	<a href="#">foliosr</a>
HWP_Fmt	329	283	Haansoft Hangul HWP (Arae-Ah Hangul)	application/x-hwp	HWP	adWORDPROCESSOR	<a href="#">hwpsr</a> , <a href="#">hwpsr</a>
ICHITARO_Fmt	330	284	ICHITARO (v4-10)		JTD	adWORDPROCESSOR	<a href="#">jtdsr</a>
IS_XML_Fmt	331	273	Extended or Custom XML	text/xml	XML	adWORDPROCESSOR	
Oasys_Fmt	332	286	Fujitsu OASYS	application/vnd.fujitsu.oasys	OAS, OA2, OA3	adWORDPROCESSOR	<a href="#">oa2sr</a>
PBM_ASC_Fmt	333	287	Portable Bitmap Utilities ASCII format (PBM)	image/pbm	PBM	adRASTERIMAGE	
PBM_BIN_Fmt	334	287	Portable Bitmap Utilities BINARY format (PBM)	image/pbm	PBM	adRASTERIMAGE	
PGM_ASC_Fmt	335	288	Portable Greymap Utilities ASCII format (PGM)	image/x-pgm	PGM	adRASTERIMAGE	
PGM_BIN_Fmt	336	288	Portable Greymap Utilities BINARY format (PGM)	image/x-pgm	PGM	adRASTERIMAGE	
PPM_ASC_Fmt	337	289	Portable Pixmap Utilities ASCII format (PPM)	image/x-portable-pixmap	PPM	adRASTERIMAGE	
PPM_BIN_Fmt	338	289	Portable Pixmap Utilities BINARY format (PPM)	image/x-portable-pixmap	PPM	adRASTERIMAGE	
XBM_Fmt	339	290	X Bitmap format (XBM)	image/x-xbitmap	XBM	adRASTERIMAGE	
XPM_Fmt	340	291	X Pixmap format (XPM)	image/xpm	XPM	adRASTERIMAGE	
FPX_Fmt	341	292	Kodak FlashPix FPX Image format	image/fpx	FPX	adRASTERIMAGE	
PCD_Fmt	342	293	PCD Image format	image/pcd	PCD	adRASTERIMAGE	
MS_Visio_Fmt	343	294	Microsoft Visio (up to version 11)	image/x-vsd	VSD	adPRESENTATION	<a href="#">kpVSD2rdr</a> , <a href="#">vsdsr</a>
MS_Project_2000_Fmt	344	281	Microsoft Project 2000	application/vnd.ms-project	MPP	adSCHEDULE	<a href="#">mppsr</a>
MS_Outlook_Fmt	345	295	Microsoft Outlook message	application/vnd.ms-outlook	MSG, OFT	adENCAPSULATION	<a href="#">msgsr</a>
ELF_Relocatable_Fmt	346	159	ELF Relocatable	application/octet-stream	O	adOBJECTMODULE	
ELF_Executable_Fmt	347	158	ELF Executable	application/octet-stream		adEXECUTABLE	
ELF_Dynamic_Lib_Fmt	348	160	ELF Dynamic Library	application/octet-stream	SO	adLIBRARY	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
MS_Word_XML_Fmt	349	285	Microsoft Word 2003 XML	text/xml	XML	adWORDPROCESSOR	<a href="#">xmlsr</a>
MS_Excel_XML_Fmt	350	285	Microsoft Excel 2003 XML	text/xml	XML	adWORDPROCESSOR	<a href="#">xmlsr</a>
MS_Visio_XML_Fmt	351	285	Microsoft Visio 2003 XML	text/xml	VDX	adWORDPROCESSOR	<a href="#">xmlsr</a>
SO_Text_XML_Fmt	352	314	OpenDocument format (OpenOffice 1/StarOffice 6,7) Text XML	application/vnd.sun.xml.writer	SXW	adWORDPROCESSOR	<a href="#">odfwpsr</a>
SO_Spreadsheet_XML_Fmt	353	315	OpenDocument format (OpenOffice 1/StarOffice 6,7) Spreadsheet XML	application/vnd.sun.xml.calc	SXC, STC	adSPREADSHEET	<a href="#">sosr</a>
SO_Presentation_XML_Fmt	354	316	OpenDocument format (OpenOffice 1/StarOffice 6,7) Presentation XML	application/vnd.sun.xml.impress	SXD, SXI	adPRESENTATION	<a href="#">kpodfrdr</a>
XHTML_Fmt	355	296	XHTML	text/xhtml	XML, XHTML, XHT	adWORDPROCESSOR	
MS_OutlookPST_Fmt	356	297	Microsoft Outlook Personal Folders File (.pst)	application/vnd.ms-outlook-pst	PST	adENCAPSULATION	<a href="#">pstnsr</a> , <a href="#">pstr</a> , <a href="#">pstxsr</a>
RAR_Fmt	357	298	RAR archive format	application/x-rar-compressed	RAR, REV, R00, R01	adENCAPSULATION, adEXECUTABLE	<a href="#">rarsr</a>
Lotus_Notes_NSF_Fmt	358	299	IBM Lotus Notes Database NSF/NTF	application/x-lotus-notes	NSF	adENCAPSULATION	<a href="#">nsfsr</a>
Macromedia_Flash_Fmt	359	300	Macromedia Flash (.swf)	application/x-shockwave-flash	SWF, SWD	adWORDPROCESSOR	<a href="#">swfsr</a>
MS_Word_2007_Fmt	360	301	Microsoft Word 2007 XML - Docx	application/x-ms-word07	DOCX, DOTX	adWORDPROCESSOR	<a href="#">mwxsr</a>
MS_Excel_2007_Fmt	361	302	Microsoft Excel 2007 XML	application/x-ms-excel07	XLSX, XLTX	adSPREADSHEET	<a href="#">xlsxsr</a>
MS_PPT_2007_Fmt	362	303	Microsoft PowerPoint 2007 XML	application/x-ms-powerpoint07	PPTX, POTX, PPSX	adPRESENTATION	<a href="#">kpppxrdr</a>
OpenPGP_Fmt	363	304	OpenPGP Message Format (with new packet format)	application/pgp-encrypted	PGP	adENCAPSULATION	
Intergraph_V7_DGN_Fmt	364	305	Intergraph Standard File Format (ISFF) V7 DGN (non-OLE)		DGN	adVECTORGRAPHIC	
MicroStation_V8_DGN_Fmt	365	306	MicroStation V8 DGN (OLE)		DGN	adVECTORGRAPHIC	
MS_Word_Macro_2007_Fmt	366	307	Microsoft Word Macro 2007 XML	application/x-ms-word07m	DOCM, DOTM	adWORDPROCESSOR	<a href="#">mwxsr</a>



Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
MS_Excel_Macro_2007_Fmt	367	308	Microsoft Excel Macro 2007 XML	application/x-ms-excel07m	XLSM, XLTM, XLAM	adSPREADSHEET	<a href="#">xlxsr</a>
MS_PPT_Macro_2007_Fmt	368	309	Microsoft PPT Macro 2007 XML	application/x-ms-powerpoint07m	PPTM, POTM, PPSM, PPAM	adPRESENTATION	<a href="#">kpppxrdr</a>
LZH_Fmt	369	310	LZH Archive	application/x-lzh-compressed	LZH, LHA	adENCAPSULATION	<a href="#">lzhsr</a>
Office_2007_Fmt	370	311	Office 2007 document		XLSB	adMISC	
MS_XPS_Fmt	371	312	Microsoft Open XML Paper Specification (XPS/OXPS)	application/vnd.ms-xpsdocument	XPS, OXPS	adWORDPROCESSOR	<a href="#">xpssr</a>
Lotus_Domino_DXL_Fmt	372	313	IBM Domino Data in XML format (.dxl)	text/xml	DXL	adENCAPSULATION	<a href="#">dxlsr</a>
ODF_Text_Fmt	373	314	ODF Text	application/vnd.oasis.opendocument.text	ODT	adWORDPROCESSOR	<a href="#">odfwpsr</a>
ODF_Spreadsheet_Fmt	374	315	ODF Spreadsheet	application/vnd.oasis.opendocument.spreadsheet	ODS	adSPREADSHEET	<a href="#">odfssr</a>
ODF_Presentation_Fmt	375	316	ODF Presentation	application/vnd.oasis.opendocument.presentation	ODP	adPRESENTATION	<a href="#">kpodfrdr</a>
Legato_Extender_ONM_Fmt	376	317	Legato Extender Native Message ONM	application/x-lotus-notes	ONM	adENCAPSULATION	<a href="#">onmsr</a>
bin_Unknown_Fmt	377	318	Bin unknown format (.xxx)			adWORDPROCESSOR	
TNEF_Fmt	378	319	Transport Neutral Encapsulation Format (TNEF)	application/vnd.ms-tnef		adENCAPSULATION	<a href="#">tnefsr</a>
CADAM_Drawing_Fmt	379	320	CADAM Drawing		CDD	adVECTORGRAPHIC	
CADAM_Drawing_Overlay_Fmt	380	321	CADAM Drawing Overlay		CDO	adVECTORGRAPHIC	
NURSTOR_Drawing_Fmt	381	322	NURSTOR Drawing		NUR	adVECTORGRAPHIC	
HP_GLP_Fmt	382	323	HP Graphics Language (Plotter)	vector/x-hpgl2	HPG	adVECTORGRAPHIC	
ASF_Fmt	383	324	Advanced Systems Format (ASF)	application/x-ms-asf	ASF	adMISC	<a href="#">asfsr</a>
WMA_Fmt	384	325	Windows Media Audio Format (WMA)	audio/x-ms-wma	WMA	adSOUND	<a href="#">asfsr</a>
WMV_Fmt	385	326	Windows Media Video Format (WMV)	video/x-ms-wmv	WMV	adMOVIE	<a href="#">asfsr</a>
EMX_Fmt	386	327	Legato EMailXtender Archives Format (EMX)		EMX	adENCAPSULATION	<a href="#">emxsr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Z7Z_Fmt	387	328	7-Zip archive (7z)	application/7z	7Z	adENCAPSULATION, adEXECUTABLE	<a href="#">z7zsr</a>
MS_Excel_Binary_2007_Fmt	388	329	Microsoft Excel Binary 2007	application/vnd.ms-excel.sheet.binary.macroenabled.12	XLSB	adSPREADSHEET	<a href="#">xlsbsr</a>
CAB_Fmt	389	330	Microsoft Cabinet File (CAB)	application/vnd.ms-cab-compressed	CAB	adENCAPSULATION	<a href="#">cabsr</a>
CATIA_Fmt	390	331	CATIA Formats (CAT*)		CATPART, CATPRODUCT <sup>2</sup>	adVECTORGRAPHIC	<a href="#">kpCATrdr</a>
YIM_Fmt	391	332	Yahoo! Instant Messenger History		DAT	adWORDPROCESSOR	<a href="#">yimsr</a>
ODF_Drawing_Fmt	392	316	ODF Drawing/Graphics	application/vnd.oasis.opendocument.graphics	ODG	adVECTORGRAPHIC	<a href="#">kpodfrdr</a>
Founder_CEB_Fmt	393	333	Founder Chinese E-paper Basic (ceb)	application/ceb	CEB	adWORDPROCESSOR	<a href="#">cebsr</a>
QPW_Fmt	394	334	Corel Quattro Pro 9+ for Windows	application/quattro-pro	QPW	adSPREADSHEET	<a href="#">qpwsr</a>
MHT_Fmt	395	335	MIME HTML MHTML format (MHT) <sup>1</sup>	multipart/related	MHT, MHTML	adWORDPROCESSOR	<a href="#">mhtsr</a>
MDI_Fmt	396	336	Microsoft Document Imaging Format	image/vnd.ms-modi	MDI	adRASTERIMAGE	
GRV_Fmt	397	337	Microsoft Office Groove Format	application/vnd.groove-injector	GRV	adWORDPROCESSOR	
IWWP_Fmt	398	338	Apple iWork Pages format	application/vnd.apple.pages	PAGES	adWORDPROCESSOR	<a href="#">iwwpsr</a>
IWSS_Fmt	399	339	Apple iWork Numbers format	application/vnd.apple.numbers	NUMBERS	adSPREADSHEET	<a href="#">iwsssr</a>
IWPG_Fmt	400	340	Apple iWork Keynote format	application/vnd.apple.keynote	KEY	adPRESENTATION	<a href="#">kplWPGrdr</a>
BKF_Fmt	401	341	Microsoft Windows Backup File		BKF	adENCAPSULATION	<a href="#">bkfsr</a>
MS_Access_2007_Fmt	402	342	Microsoft Access 2007	application/msaccess	ACCDB	adDATABASE	<a href="#">mdbsr</a>
ENT_Fmt	403	343	Microsoft Entourage Database Format			adENCAPSULATION	<a href="#">entsr</a>
DMG_Fmt	404	344	Mac Disk Copy Disk Image File	application/x-apple-diskimage	DMG	adENCAPSULATION	<a href="#">dmgsr</a>
CWK_Fmt	405	345	AppleWorks (Claris Works) File	application/appleworks	CWK	adWORDPROCESSOR	<a href="#">stringsr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
OO3_Fmt	406	346	Omni Outliner V3 File		OO3	adWORDPROCESSOR	<a href="#">oo3sr</a>
OPML_Fmt	407	347	Omni Outliner OPML File		OPML	adWORDPROCESSOR	<a href="#">oo3sr</a>
Omni_Graffle_XML_Fmt	408	348	Omni Graffle XML File		GRAFFLE	adVECTORGRAPHIC	<a href="#">kpGFLrdr</a>
PSD_Fmt	409	349	Adobe Photoshop Document	image/vnd.adobe.photoshop	PSD, PSB	adRASTERIMAGE	<a href="#">psdsr</a>
Apple_Binary_PList_Fmt	410	350	Apple Binary Property List format		PLIST	adMISC	
Apple_iChat_Fmt	411	351	Apple iChat format		ICHAT	adWORDPROCESSOR	<a href="#">ichatsr</a>
OOOUTLINE_Fmt	412	352	OOutliner File		OOOUTLINE	adWORDPROCESSOR	<a href="#">oo3sr</a>
BZIP2_Fmt	413	353	Bzip 2 Compressed File	application/x-bzip2	BZ2	adENCAPSULATION	<a href="#">bzip2sr</a>
ISO_Fmt	414	354	ISO-9660 CD Disc Image Format	application/x-iso9660-image	ISO	adENCAPSULATION	<a href="#">isosr</a>
DocuWorks_Fmt	415	355	DocuWorks Format	application/vnd.fujixerox.docuworks	XDW	adWORDPROCESSOR	
RealMedia_Fmt	416	356	RealMedia Streaming Media	application/vnd.rm-realmedia	RM, RA	adMOVIE	
AC3Audio_Fmt	417	357	AC3 Audio File Format	audio/ac3	AC3	adSOUND	
NEF_Fmt	418	358	Nero Encrypted File		NEF	adENCAPSULATION	
SolidWorks_Fmt	419	359	SolidWorks Format Files		SLDASM, SLDPRT, SLDDRW, SLDDRT	adVECTORGRAPHIC	
XFDL_Fmt	420	366	Extensible Forms Description Language	application/x-xfdl	XFDL, XFD	adPRESENTATION	<a href="#">kpXFDLrdr</a>
Apple_XML_PList_Fmt	421	367	Apple XML Property List format		PLIST	adMISC	
OneNote_Fmt	422	368	Microsoft OneNote Note Format	application/onenote	ONE	adWORDPROCESSOR	<a href="#">kpONErdr</a>
iFilter_Fmt	423	369	iFilter			adWORDPROCESSOR	
Dicom_Fmt	424	370	Digital Imaging and Communications in Medicine (Dicom)	application/dicom	DCM	adRASTERIMAGE	<a href="#">dcmsr</a>
EnCase_Fmt	425	371	Expert Witness Compression Format (EnCase)		E01, L01, Lx01	adENCAPSULATION	<a href="#">encase2sr</a> , <a href="#">encasesr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Scrap_Fmt	426	372	Shell Scrap Object File		SHS	adENCAPSULATION	<a href="#">olesr</a>
MS_Project_2007_Fmt	427	373	Microsoft Project 2007	application/vnd.ms-project	MPP	adSCHEDULE	<a href="#">mpps</a>
MS_Publisher_98_Fmt	428	374	Microsoft Publisher from version 98	application/x-mspublisher	PUB	adDESKTOPPUBLSH	<a href="#">mspubsr</a>
Skype_Fmt	429	375	Skype Log File		DBB	adWORDPROCESSOR	<a href="#">skypesr</a>
HI7_Fmt	430	377	Health level7 message		HL7	adWORDPROCESSOR	<a href="#">hl7sr</a>
MS_OutlookOST_Fmt	431	378	Microsoft Outlook Offline Folders File (OST)	application/vnd.ms-outlook-pst	OST	adENCAPSULATION	<a href="#">pffsr</a>
Epub_Fmt	432	379	Open Publication Structure electronic publication	application/epub+zip	EPUB	adWORDPROCESSOR	<a href="#">epubsr</a>
MS_OEDBX_Fmt	433	380	Microsoft Outlook Express DBX Message Database		DBX	adENCAPSULATION	<a href="#">dbxsr</a>
BB_Activ_Fmt	434	381	BlackBerry Activation File		DAT	adWORDPROCESSOR	
DiskImage_Fmt	435	382	Disk Image		DMG	adENCAPSULATION	
Milestone_Fmt	436	383	Milestone Document		MLS, ML3, ML4, ML5, ML6, ML7, ML8, ML9, MLA	adRASTERIMAGE	
E_Transcript_Fmt	437	384	RealLegal E-Transcript File		PTX	adWORDPROCESSOR	
PostScript_Font_Fmt	438	385	PostScript Type 1 Font	application/x-font	PFB	adFONT	
Ghost_DiskImage_Fmt	439	386	Ghost Disk Image File		GHO, GHS	adENCAPSULATION	
JPEG_2000_JP2_File_Fmt	440	387	JPEG-2000 JP2 File Format Syntax (ISO/IEC 15444-1)	image/jp2	JP2, JPF, J2K, JPWL, JPX, PGX	adRASTERIMAGE	<a href="#">jp2000sr</a> , <a href="#">kjpj2000rdr</a>
Unicode_HTML_Fmt	441	388	Unicode HTML	text/html	HTM, HTML	adWORDPROCESSOR	<a href="#">unihtmsr</a>
CHM_Fmt	442	389	Microsoft Compiled HTML Help	application/x-chm	CHM	adENCAPSULATION	<a href="#">chmsr</a>
EMCMF_Fmt	443	390	Documentum EMCMF format		EMCMF	adENCAPSULATION	<a href="#">msgsr</a>
MS_Access_2007_Tmpl_Fmt	444	391	Microsoft Access 2007 Template		ACCDT	adDATABASE	
Jungum_Fmt	445	392	Samsung Electronics Jungum Global document		GUL	adWORDPROCESSOR	
JBIG2_Fmt	446	393	JBIG2 File Format	image/jbig2	JB2, JBIG2	adRASTERIMAGE	<a href="#">kpJBIG2rdr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
EFax_Fmt	447	394	eFax file		EFX	adRASTERIMAGE	
AD1_Fmt	448	395	AD1 Evidence file		AD1	adENCAPSULATION	<a href="#">ad1sr</a>
SketchUp_Fmt	449	396	Google SketchUp		SKP	adVECTORGRAPHIC	
GWFS_Email_Fmt	450	397	GroupWise FileSurf email		GWFS	adENCAPSULATION	<a href="#">gwfsr</a>
JNT_Fmt	451	398	Windows Journal format		JNT	adWORDPROCESSOR	
Yahoo_yChat_Fmt	452	399	Yahoo! Messenger chat log		YCHAT	adWORDPROCESSOR	
PaperPort_MAX_File_Fmt	453	400	PaperPort MAX image file	image/max	MAX	adRASTERIMAGE	
ARJ_Fmt	454	402	ARJ (Archive by Robert Jung) file format	application/arj	ARJ	adENCAPSULATION	<a href="#">multiarcsr</a>
RPMSG_Fmt	455	403	Microsoft Outlook Restricted Permission Message	application/x-microsoft-rpmsg-message	RPMSG	adENCAPSULATION	
MAT_Fmt	456	404	MATLAB file format	application/x-matlab-data	MAT, FIG	adWORDPROCESSOR	
SGY_Fmt	457	405	SEG-Y Seismic Data format		SGY, SEGY	adWORDPROCESSOR	
CDXA_MPEG_PS_Fmt	458	406	MPEG-PS container with CDXA stream	video/mpeg	MPG	adMOVIE	
EVT_Fmt	459	407	Microsoft Windows NT Event Log		EVT	adMISC	
EVTX_Fmt	460	408	Microsoft Windows Vista Event Log		EVTX	adMISC	
MS_OutlookOLM_Fmt	461	409	Microsoft Outlook for Macintosh format		OLM	adENCAPSULATION	<a href="#">olmsr</a>
WARC_Fmt	462	410	Web ARChive	application/warc	WARC	adENCAPSULATION	
JAVACLASS_Fmt	463	411	Java Class format	application/x-java-class	CLASS	adWORDPROCESSOR	
VCF_Fmt	464	412	Microsoft Outlook vCard file format	text/vcard	VCF	adWORDPROCESSOR	<a href="#">vcfsr</a>
EDB_Fmt	465	413	Microsoft Exchange Server Database file format		EDB	adENCAPSULATION	
ICS_Fmt	466	414	Microsoft Outlook iCalendar file format	text/calendar	ICS, VCS	adENCAPSULATION	<a href="#">icssr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
MS_Visio_2013_Fmt	467	415	Microsoft Visio 2013	application/vnd.visio	VSDX, VSTX, VSSX	adPRESENTATION	<a href="#">ActiveX components</a> , <a href="#">kpVSDXrdr</a>
MS_Visio_2013_Macro_Fmt	468	415	Microsoft Visio 2013 macro	application/vnd.visio	VSDM, VSTM, VSSM	adPRESENTATION	<a href="#">kpVSDXrdr</a>
ICHITARO_Compr_Fmt	469	417	ICHITARO Compressed format	application/x-js-taro	JTDC	adWORDPROCESSOR	<a href="#">jtdsr</a>
IWWP13_Fmt	470	418	Apple iWork 2013 Pages format		IWA, PAGES	adWORDPROCESSOR	<a href="#">iwwp13sr</a>
IWSS13_Fmt	471	419	Apple iWork 2013 Numbers format		IWA, NUMBERS	adSPREADSHEET	<a href="#">iwss13sr</a>
IWPG13_Fmt	472	420	Apple iWork 2013 Keynote format		IWA, KEY	adPRESENTATION	<a href="#">kplWPG13rdr</a> , <a href="#">kplWPGrdr</a>
XZ_Fmt	473	421	XZ archive format	application/x-xz	XZ	adENCAPSULATION	<a href="#">multiarcsr</a>
Sony_WAVE64_Fmt	474	422	Sony Wave64 format	audio/wav64	W64	adSOUND	
Conifer_WAVPACK_Fmt	475	423	Conifer Wavpack format	audio/x-wavpack	WV	adSOUND	
Xiph_OGG_VORBIS_Fmt	476	424	Xiph Ogg Vorbis format	audio/ogg	OGG	adSOUND	
MS_Visio_2013_Stencil_Fmt	477	415	MS Visio 2013 stencil format	application/vnd.visio	VSSX	adPRESENTATION	<a href="#">kpVSDXrdr</a>
MS_Visio_2013_Stencil_Macro_Fmt	478	415	MS Visio 2013 stencil Macro format	application/vnd.visio	VSSM	adPRESENTATION	<a href="#">kpVSDXrdr</a>
MS_Visio_2013_Template_Fmt	479	415	MS Visio 2013 template format	application/vnd.visio	VSTX	adPRESENTATION	<a href="#">kpVSDXrdr</a>
MS_Visio_2013_Template_Macro_Fmt	480	415	MS Visio 2013 template Macro format	application/vnd.visio	VSTM	adPRESENTATION	<a href="#">kpVSDXrdr</a>
Borland_Reflex_2_Fmt	481	425	Borland Reflex 2 format		R2D	adDATABASE	
PKCS_12_Fmt	482	426	PKCS #12 (p12) format	application/x-pkcs12	P12, PFX	adWORDPROCESSOR	
B1_Fmt	483	427	B1 format	application/x-b1	B1	adENCAPSULATION	<a href="#">b1sr</a>
ISO_IEC_MPEG_4_Fmt	484	428	ISO/IEC MPEG-4 (ISO 14496) format	video/mp4	MP4	adMOVIE	<a href="#">mpeg4sr</a>
RAR5_Fmt	485	429	RAR5 Format	application/x-rar-compressed	RAR	adENCAPSULATION	<a href="#">multiarcsr</a>
Unigraphics_NX_Fmt	486	362	Unigraphics (UG) NX CAD Format		PRT	adVECTORGRAPHIC	<a href="#">kpUGrdr</a>
PTC_Creo_Fmt	487	430	PTC Creo CAD Format		ASM, PRT	adVECTORGRAPHIC	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
KML_Fmt	488	431	Keyhole Markup Language	application/vnd.google-earth.kml+xml	KML	adWORDPROCESSOR	<a href="#">xmlsr</a>
KMZ_Fmt	489	432	Zipped Keyhole Markup Language	application/vnd.google-earth.kmz	KMZ	adWORDPROCESSOR	<a href="#">unzip</a>
WML_Fmt	490	433	Wireless Markup Language	text/vnd.wap.wml	WML	adWORDPROCESSOR	<a href="#">xmlsr</a>
ODF_Formula_Fmt	491	434	ODF Formula	application/vnd.oasis.opendocument.formula	ODF	adWORDPROCESSOR	<a href="#">unzip</a>
SO_Text_Fmt	492	435	Star Office 4,5 Writer Text	application/vnd.stardivision.writer	SDW, SGL, VOR	adWORDPROCESSOR	<a href="#">kpsdwrdr</a> , <a href="#">starwsr</a>
SO_Spreadsheet_Fmt	493	436	Star Office 4,5 Calc Spreadsheet	application/vnd.stardivision.calc	SDC	adSPREADSHEET	<a href="#">starcsr</a>
SO_Presentation_Fmt	494	437	Star Office 4,5 Impress Presentation	application/vnd.stardivision.draw	SDD, SDA	adPRESENTATION	<a href="#">kpsddrdr</a>
SO_Math_Fmt	495	438	Star Office 4,5 Math	application/vnd.stardivision.math	SMF	adMISC	
STEP_Fmt	496	439	ISO 10303-21 STEP format			adMISC	
STL_Fmt	497	364	3D Systems STL ASCII format			adMISC	
AppleScript_Fmt	498	440	AppleScript Source Code <sup>3</sup>	text/x-applescript	APPLESCRIPT	adSOURCECODE	<a href="#">afsr</a>
Assembly_Fmt	499	441	Assembly Code <sup>3</sup>	text/x-assembly		adSOURCECODE	<a href="#">afsr</a>
C_Fmt	500	442	C Source Code <sup>3</sup>	text/x-c	C, H	adSOURCECODE	<a href="#">afsr</a>
Csharp_Fmt	501	443	C# Source Code <sup>3</sup>	text/x-csharp	CS	adSOURCECODE	<a href="#">afsr</a>
CPlusPlus_Fmt	502	444	C++ Source Code <sup>3</sup>	text/x-c++	CPP, HPP	adSOURCECODE	<a href="#">afsr</a>
Css_Fmt	503	445	Cascading Style Sheet <sup>3</sup>	text/css	CSS	adSOURCECODE	<a href="#">afsr</a>
Clojure_Fmt	504	446	Clojure Source Code <sup>3</sup>	text/x-clojure	CLJ, CL2	adSOURCECODE	<a href="#">afsr</a>
CoffeeScript_Fmt	505	447	CoffeeScript Source Code <sup>3</sup>	text/x-coffeescript	COFFEE, CAKE	adSOURCECODE	<a href="#">afsr</a>
Lisp_Fmt	506	448	Common Lisp Source Code <sup>3</sup>	text/x-common-lisp	EL	adSOURCECODE	<a href="#">afsr</a>
Dockerfile_Fmt	507	449	Dockerfile <sup>3</sup>	text/x-dockerfile		adSOURCECODE	<a href="#">afsr</a>
Eiffel_Fmt	508	450	Eiffel Source Code <sup>3</sup>	text/x-eiffel	E	adSOURCECODE	<a href="#">afsr</a>
Erlang_Fmt	509	451	Erlang Source Code <sup>3</sup>	text/x-erlang	ERL, ES	adSOURCECODE	<a href="#">afsr</a>
Fsharp_Fmt	510	452	F# Source Code <sup>3</sup>	text/x-fsharp	FS	adSOURCECODE	<a href="#">afsr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Fortran_Fmt	511	453	Fortran Source Code <sup>3</sup>	text/x-fortran	F	adSOURCECODE	<a href="#">afsr</a>
Go_Fmt	512	454	Go Source Code <sup>3</sup>	text/x-go	GO	adSOURCECODE	<a href="#">afsr</a>
Groovy_Fmt	513	455	Groovy Source Code <sup>3</sup>	text/x-groovy	GRT, GVY	adSOURCECODE	<a href="#">afsr</a>
Haskell_Fmt	514	456	Haskell Source Code <sup>3</sup>	text/x-haskell	HS	adSOURCECODE	<a href="#">afsr</a>
Ini_Fmt	515	457	Initialization (INI) file <sup>3</sup>	text/x-ini		adSOURCECODE	<a href="#">afsr</a>
Java_Fmt	516	458	Java Source Code <sup>3</sup>	text/x-java-source	JAVA	adSOURCECODE	<a href="#">afsr</a>
Javascript_Fmt	517	459	Javascript Source Code <sup>3</sup>	text/javascript	JS	adSOURCECODE	<a href="#">afsr</a>
Lua_Fmt	518	460	Lua Source Code <sup>3</sup>	text/x-lua	LUA	adSOURCECODE	<a href="#">afsr</a>
Makefile_Fmt	519	461	Makefile <sup>3</sup>	text/x-makefile	MAKE	adSOURCECODE	<a href="#">afsr</a>
Mathematica_Fmt	520	462	Wolfram Mathematica Source Code <sup>3</sup>	text/x-mathematica	M	adSOURCECODE	<a href="#">afsr</a>
ObjC_Fmt	521	464	Objective-C Source Code <sup>3</sup>	text/x-objc		adSOURCECODE	<a href="#">afsr</a>
ObjCpp_Fmt	522	465	Objective-C++ Source Code <sup>3</sup>	text/x-objectivec++		adSOURCECODE	<a href="#">afsr</a>
ObjJ_Fmt	523	466	Objective-J Source Code <sup>3</sup>	text/x-objectivej	J	adSOURCECODE	<a href="#">afsr</a>
PHP_Fmt	524	467	PHP Source Code <sup>3</sup>	text/x-php	PHP	adSOURCECODE	<a href="#">afsr</a>
PLSQL_Fmt	525	468	PLSQL Source Code <sup>3</sup>	text/x-plsql		adSOURCECODE	<a href="#">afsr</a>
Pascal_Fmt	526	469	Pascal Source Code <sup>3</sup>	text/x-pascal	PASCAL	adSOURCECODE	<a href="#">afsr</a>
Perl_Fmt	527	470	Perl Source Code <sup>3</sup>	text/x-perl	PL	adSOURCECODE	<a href="#">afsr</a>
Powershell_Fmt	528	471	PowerShell Source Code <sup>3</sup>	text/x-powershell	PS1	adSOURCECODE	<a href="#">afsr</a>
Prolog_Fmt	529	472	Prolog Source Code <sup>3</sup>	text/x-prolog	PRO, PROLOG	adSOURCECODE	<a href="#">afsr</a>
Puppet_Fmt	530	473	Puppet Source Code <sup>3</sup>	text/x-puppet	PP	adSOURCECODE	<a href="#">afsr</a>
Python_Fmt	531	474	Python Source Code <sup>3</sup>	text/x-python	PY	adSOURCECODE	<a href="#">afsr</a>
R_Fmt	532	475	R Source Code <sup>3</sup>	text/x-rsrc	R	adSOURCECODE	<a href="#">afsr</a>
Ruby_Fmt	533	476	Ruby Source Code <sup>3</sup>	text/x-ruby	RB	adSOURCECODE	<a href="#">afsr</a>
Rust_Fmt	534	477	Rust Source Code <sup>3</sup>	text/x-rust	RS	adSOURCECODE	<a href="#">afsr</a>
Scala_Fmt	535	478	Scala Source Code <sup>3</sup>	text/x-scala	SC	adSOURCECODE	<a href="#">afsr</a>
Shell_Fmt	536	479	Shell Script <sup>3</sup>	application/x-sh	SH	adSOURCECODE	<a href="#">afsr</a>
Smalltalk_Fmt	537	480	Smalltalk Source Code <sup>3</sup>	text/x-stsrc	ST	adSOURCECODE	<a href="#">afsr</a>



Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
ML_Fmt	538	481	Standard ML Source Code <sup>3</sup>	text/x-ml	ML	adSOURCECODE	<a href="#">afsr</a>
Swift_Fmt	539	482	Swift Source Code <sup>3</sup>	text/x-swift	SWIFT	adSOURCECODE	<a href="#">afsr</a>
Tcl_Fmt	540	483	Tool Command Language (Tcl) Source Code <sup>3</sup>	text/x-tcl	TM	adSOURCECODE	<a href="#">afsr</a>
Tex_Fmt	541	484	TeX Typesetting File <sup>3</sup>	application/x-tex		adSOURCECODE	<a href="#">afsr</a>
TypeScript_Fmt	542	485	TypeScript Source Code <sup>3</sup>	text/x-typescript	TS	adSOURCECODE	<a href="#">afsr</a>
Verilog_Fmt	543	486	Verilog Source Code <sup>3</sup>	text/x-verilog	V	adSOURCECODE	<a href="#">afsr</a>
YAML_Fmt	544	487	YAML File <sup>3</sup>	text/x-yaml	YML	adSOURCECODE	<a href="#">afsr</a>
Wiki_Fmt	545	488	MediaWiki File	text/x-mediawiki		adWORDPROCESSOR	<a href="#">afsr</a>
MS_Word_2007_Flat_XML_Fmt	546	301	Microsoft Word 2007 XML - Flat xml	text/xml	XML	adWORDPROCESSOR	<a href="#">mwxsr</a>
Matroska_Fmt	547	489	Matroska video File	video/x-matroska	MKV	adMOVIE	
SVG_Fmt	548	490	Scalable Vector Graphics image	image/svg+xml	SVG	adVECTORGRAPHIC	<a href="#">xmlsr</a>
Shapefile_Fmt	549	491	Shapefile	application/x-shapefile	SHP, SHX	adGIS	
Flash_Video_Fmt	550	492	Flash video File	video/x-flv	FLV	adMOVIE	
Embedded_OpenType_Fmt	551	493	Embedded OpenType font	application/vnd.ms-fontobject	EOT	adFONT	
Web_Open_Font_Fmt	552	494	Web Open Font Format	font/woff	WOFF, WOFF2	adFONT	
OpenType_Fmt	553	495	OpenType Font	font/otf	OTF	adFONT	
MNG_Fmt	554	496	Multiple-image Network Graphics	video/x-mng	MNG	adANIMATION	
JNG_Fmt	555	497	JPEG Network Graphics	image/x-jng	JNG	adRASTERIMAGE	
AppleScript_Binary_Fmt	556	498	AppleScript Binary Source Code		SCPT	adSOURCECODE	
Maya_Binary_Fmt	557	499	Autodesk Maya binary file		MB	adCAD	
Jupiter_Tesselation_Fmt	558	363	UGS Jupiter Tesselation file		JT	adCAD	
OGV_Fmt	559	500	Ogg Theora Video format	video/ogg	OGV	adMOVIE	
OGG_Container_Fmt	560	501	General Ogg Container format	application/ogg	OGG	adMISC	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
GNU_Message_Catalog_Fmt	561	502	GNU Message Catalog format		MO	adMISC	
Windows_Shortcut_Fmt	562	503	Windows shortcut file	application/x-ms-shortcut	LNK	adMISC	
Apple_Typedstream_Fmt	563	504	Apple/NeXT typedstream data format			adMISC	
XCF_Fmt	564	505	GIMP XCF image	image/x-xcf	XCF	adRASTERIMAGE	
PaintShop_Pro_Fmt	565	506	PaintShop Pro image		PSP, PSPIMAGE	adRASTERIMAGE	
SQLite_Database_Fmt	566	507	SQLite database format	application/x-sqlite3	QHC	adDATABASE	
MySQL_Table_Fmt	567	508	MySQL table definition file		FRM	adDATABASE	
Microsoft_Program_DB_Fmt	568	509	Microsoft Program Database format		PDB	adDATABASE	
OpenEXR_Fmt	569	510	OpenEXR image format		EXR	adRASTERIMAGE	
XMV_Fmt	570	511	4X Movie File		4XM	adMOVIE	
AMV_Fmt	571	512	AMV video file		AMV	adMOVIE	
NIFF_Fmt	572	513	Notation Interchange File Format		NIF	adSOUND	
CuBase_Fmt	573	514	Steinberg CuBase file			adSOUND	
SoundFont_Fmt	574	515	SoundFont file			adSOUND	
WebP_Fmt	575	516	WebP image	image/webp	WEBP	adRASTERIMAGE	
ICC_Fmt	576	517	International Color Consortium files	application/vnd.iccprofile	ICC, ICM	adMISC	
PCF_Fmt	577	518	X11 Portable Compiled Font file	application/x-font-pcf	PCF	adFONT	
WebM_Fmt	578	519	WebM video file	video/webm	WEBM	adMOVIE	
AMFF_Fmt	579	520	Amiga Metafile		AMF	adVECTORGRAPHIC	
ANBM_Fmt	580	521	IFF Animated Bitmap			adRASTERIMAGE	
ANIM_Fmt	581	522	IFF Amiga animated raster graphics format			adRASTERIMAGE	
DEEP_Fmt	582	523	IFF-DEEP TVPaint image		DEEP	adRASTERIMAGE	
FAXX_Fmt	583	524	IFF-FAXX Facsimile image			adRASTERIMAGE	
ICON_Fmt	584	525	IFF Glow Icon image			adRASTERIMAGE	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
ILBM_Fmt	585	526	Interleaved BitMap image		IFF	adRASTERIMAGE	
LWOB_Fmt	586	527	LightWave Object format		LWOB	adMISC	
MAUD_Fmt	587	528	IFF-MAUD MacroSystem audio format			adSOUND	
PBM_Fmt	588	529	IFF Planar BitMap			adRASTERIMAGE	
TDDD_Fmt	589	530	IFF TDDD and Imagine Object animation format		TDD	adRASTERIMAGE	
DjVu_Fmt	590	531	AT&T DjVu format	image/vnd.djvu	DJVU	adWORDPROCESSOR	
InDesign_Fmt	591	532	Adobe InDesign document	application/x-indesign	INDD	adDESKTOPPUBLSH	
Calamus_Fmt	592	533	Calamus Desktop Publishing			adDESKTOPPUBLSH	
Adaptive_MultiRate_Fmt	593	534	Adaptive Multi-Rate audio format	audio/amr	AMR	adSOUND	
FLAC_Fmt	594	535	Free Lossless Audio Codec format	audio/flac	FLAC	adSOUND	
Ogg_FLAC_Fmt	595	536	Ogg Container FLAC audio format		OGG	adSOUND	
SAS7BDAT_Fmt	596	537	SAS7BDAT database storage format		SAS7BDAT	adDATABASE	
Design_Web_Format_Fmt	597	538	Autodesk Design Web Format	model/vnd.dwf	DWF	adCAD	
Adobe_Flash_Audio_Book_Fmt	598	539	Adobe Flash Player audio book	audio/mp4	F4B	adSOUND	<a href="#">mpeg4sr</a>
Adobe_Flash_Audio_Fmt	599	540	Adobe Flash Player audio	audio/mp4	F4A	adSOUND	<a href="#">mpeg4sr</a>
Adobe_Flash_Protected_Video_Fmt	600	541	Adobe Flash Player protected video	video/mp4	F4P	adMOVIE	<a href="#">mpeg4sr</a>
Adobe_Flash_Video_Fmt	601	542	Adobe Flash Player video	video/x-f4v	F4V	adMOVIE	<a href="#">mpeg4sr</a>
Audible_Audiobook_Fmt	602	543	Audible Enhanced Audiobook	audio/vnd.audible.aax	AAX	adSOUND	<a href="#">mpeg4sr</a>
Canon_Camera_Fmt	603	544	Canon Digital Camera image			adRASTERIMAGE	
Canon_Raw_Fmt	604	545	Canon Raw image		CR3	adRASTERIMAGE	
Casio_Camera_Fmt	605	546	Casio Digital Camera image			adRASTERIMAGE	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Convergent_Design_Fmt	606	547	Convergent Design file			adRASTERIMAGE	
DMB_MAF_Audio_Fmt	607	548	DMB MAF audio			adSOUND	
DMB_MAF_Video_Fmt	608	549	DMB MAF video			adMOVIE	
DMP_Content_Fmt	609	550	Digital Media Project Content Format			adMISC	
DVB_Fmt	610	551	Digital Video Broadcast format	video/vnd.dvb.file	DVB	adMOVIE	
Dirac_Wavelet_Compression_Fmt	611	552	ISO-BMFF Dirac Wavelet compression			adMISC	
HEICS_Image_Sequence_Fmt	612	553	High Efficiency Image Format HEVC image sequence	image/heic-sequence	HEICS	adRASTERIMAGE	
HEIC_Image_Fmt	613	554	High Efficiency Image Format HEVC image	image/heic	HEIC	adRASTERIMAGE	
HEIFS_Image_Sequence_Fmt	614	555	High Efficiency Image Format image sequence	image/heif-sequence	HEIFS	adRASTERIMAGE	
HEIF_Image_Fmt	615	556	High Efficiency Image Format image	image/heif	HEIF	adRASTERIMAGE	
ISMACryp_Fmt	616	557	ISMACryp 2.0 Encrypted format			adENCAPSULATION	
ISO_3GPP2_Fmt	617	558	3GPP2 video file	video/3gpp2	3G2	adMOVIE	<a href="#">mpeg4sr</a>
ISO_3GPP_Fmt	618	559	3GPP video file	video/3gpp	3GP	adMOVIE	<a href="#">mpeg4sr</a>
ISO_JPEG2000_JP2_Fmt	619	560	ISO-BMFF JPEG 2000 image	image/jp2	JP2	adRASTERIMAGE	<a href="#">jp2000sr</a> , <a href="#">kjpg2000rdr</a>
ISO_JPEG2000_JPM_Fmt	620	561	ISO-BMFF JPEG 2000 compound image	image/jpm	JPM	adRASTERIMAGE	<a href="#">jp2000sr</a> , <a href="#">kjpg2000rdr</a>
ISO_JPEG2000_JPX_Fmt	621	562	ISO-BMFF JPEG 2000 with extensions	image/jpx	JPX	adRASTERIMAGE	<a href="#">jp2000sr</a> , <a href="#">kjpg2000rdr</a>
ISO_QuickTime_Fmt	622	563	Apple ISO-BMFF QuickTime video	video/quicktime	QT, MOV	adMOVIE	<a href="#">MCI</a>
KDDI_Video_Fmt	623	564	KDDI Video file	video/3gpp2		adMOVIE	<a href="#">mpeg4sr</a>
MAF_Photo_Player_Fmt	624	565	MAF Photo Player			adMISC	
MPEG4_AVC_Fmt	625	566	ISO-BMFF MPEG-4 with AVC extension	video/mp4		adMOVIE	<a href="#">mpeg4sr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
MPEG4_M4A_Fmt	626	567	Apple MPEG-4 Part 14 audio	audio/x-m4a	M4A	adSOUND	<a href="#">mpeg4sr</a>
MPEG4_M4B_Fmt	627	568	Apple MPEG-4 Part 14 audio book	audio/mp4	M4B	adSOUND	<a href="#">mpeg4sr</a>
MPEG4_M4P_Fmt	628	569	Apple MPEG-4 Part 14 protected audio	audio/mp4	M4P	adSOUND	<a href="#">mpeg4sr</a>
MPEG4_M4V_Fmt	629	570	Apple MPEG-4 Part 14 video	video/x-m4v	M4V	adMOVIE	<a href="#">mpeg4sr</a>
MPEG4_Sony_PSP_Fmt	630	571	Sony PSP MPEG-4	audio/mp4	MP4	adSOUND	<a href="#">mpeg4sr</a>
MPEG_21_Fmt	631	572	MPEG-21	audio/mp4		adMISC	<a href="#">mpeg4sr</a>
Mobile_QuickTime_Fmt	632	573	Mobile QuickTime video	video/quicktime	MQV	adMOVIE	<a href="#">MCI</a>
Motion_JPEG_2000_Fmt	633	574	Motion JPEG 2000	video/mj2	MJ2, MJP2	adMOVIE	<a href="#">jp2000sr</a> , <a href="#">kpjp2000rdr</a>
NTT_MPEG4_Fmt	634	575	NTT MPEG-4	video/mp4		adMOVIE	<a href="#">mpeg4sr</a>
Nero_MPEG4_AVC_Profile	635	576	Nero MPEG-4 profile with AVC extension	video/mp4		adMOVIE	
Nero_MPEG4_Audio_Fmt	636	577	Nero AAC audio	audio/mp4		adSOUND	<a href="#">mpeg4sr</a>
Nero_MPEG4_Profile	637	578	Nero MPEG-4 profile	video/mp4		adMOVIE	
OMA_DRM_Fmt	638	579	OMA DRM (ISOBMFF) Format			adMISC	
Panasonic_Camera_Fmt	639	580	Panasonic Digital Camera image			adRASTERIMAGE	
Ross_Video_Fmt	640	581	Ross video			adMOVIE	
SDA_Video_Fmt	641	582	SDA SD Memory Card video			adMOVIE	
Samsung_Stereoscopic_Fmt	642	583	Samsung stereoscopic stream			adMISC	
Sony_XAVC_Fmt	643	584	Sony XAVC video			adMOVIE	<a href="#">mpeg4sr</a>
JPEG_2000_PGX_Fmt	644	585	JPEG 2000 PGX Verification Model image		PGX	adRASTERIMAGE	<a href="#">jp2000sr</a> , <a href="#">kpjp2000rdr</a>
Apple_Desktop_Services_Store_Fmt	645	586	Apple Desktop Services Store file		DS_Store	adMISC	
Core_Audio_Fmt	646	587	Apple Core Audio Format	audio/x-caf	CAF	adSOUND	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
VICAR_Fmt	647	588	VICAR image format		IMG	adRASTERIMAGE	
FITS_Fmt	648	589	Flexible Image Transport System FITS image	image/fits	FIT	adRASTERIMAGE	
DIF_Fmt	649	590	Digital Interface Format (DIF) DV video		DV	adMOVIE	
MPEG_Transport_Stream_Fmt	650	591	MPEG Transport Stream data	video/MP2T	TS	adMISC	
MPEG_Sequence_Fmt	651	592	MPEG Sequence format	video/mpeg		adMISC	
Ogg_OGM_Fmt	652	593	Ogg OGM video format	video/ogg	OGM	adMOVIE	
Ogg_Speex_Fmt	653	594	Ogg Speex audio format	audio/ogg	SPX	adSOUND	
Ogg_Opus_Fmt	654	595	Ogg Opus audio format	audio/ogg	OGG	adSOUND	
Musepack_Audio_Fmt	655	596	Musepack audio format	audio/x-musepack	MPC	adSOUND	
ART_Image_Fmt	656	597	ART image format		ART	adRASTERIMAGE	
Vivo_Fmt	657	598	Vivo audio-video format	video/vnd.vivo	VIV	adMOVIE	
QCP_Fmt	658	599	Qualcomm QCP audio	audio/qcelp	QCP	adSOUND	
CSP_Codec_Fmt	659	600	Creative Signal Processor codec		CSP	adMISC	
TwinVQ_Fmt	660	601	NTT TwinVQ audio format		VQF	adSOUND	
Interplay_MVE_Fmt	661	602	Interplay MVE video format		MVE	adMOVIE	
IRIX_Moviemaker_Fmt	662	603	IRIX Silicon Graphics moviemaker video file	video/x-sgi-movie	MV, MOVIE	adMOVIE	
Sega_FILM_Fmt	663	604	Sega FILM video format		CPK, CAK	adMOVIE	
SMAF_Fmt	664	605	Synthetic music Mobile Application Format	application/vnd.smaf	MMF	adSOUND	
NIST_SPHERE_Fmt	665	606	NIST SPeech HEader REsources format		NIST	adSOUND	
Chinese_AVS_Fmt	666	607	Chinese AVS video format			adMOVIE	
VQA_Fmt	667	608	Westwood Studios Vector Quantized Animation video file		VQA	adANIMATION	
YAFA_Fmt	668	609	Wildfire YAFA animation		YAFA	adANIMATION	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Origin_MVE_Fmt	669	610	Origin Wing Commander III MVE movie format		MVE	adMOVIE	
BBC_Dirac_Fmt	670	611	BBC Dirac video format	video/x-dirac	DRC	adMOVIE	
Maya_ASCII_Fmt	671	612	Autodesk Maya ASCII file format		MA	adCAD	
RenderMan_Fmt	672	613	Pixar RenderMan Interface Bytestream file		RIB	adVECTORGRAPHIC	
NOFF_Binary_Fmt	673	614	NOFF 3D Object File Format		NOFF	adVECTORGRAPHIC	
VTK_ASCII_Fmt	674	615	Visualization Toolkit VTK ASCII format		VTK	adVECTORGRAPHIC	
VTK_Binary_Fmt	675	616	Visualization Toolkit VTK Binary format		VTK	adVECTORGRAPHIC	
Wolfram_CDF_Fmt	676	617	Wolfram Mathematica Computable Document Format	application/cdf	CDF	adMISC	
Wolfram_Notebook_Fmt	677	618	Wolfram Mathematica Notebook Format		NB	adMISC	
HDF4_Fmt	678	619	Hierarchical Data Format HDF4	application/x-hdf	HDF, H4	adMISC	
HDF5_Fmt	679	620	Hierarchical Data Format HDF5	application/x-hdf	HDF, H5	adMISC	
ARMovie_Fmt	680	621	Acorn RISC ARMovie video format		RPL	adMOVIE	
Windows_TV_DVR_Fmt	681	622	Windows Television DVR format		WTV	adMOVIE	
InstallShield_Z_Fmt	682	623	InstallShield Z archive format	application/x-compress	Z	adENCAPSULATION	
MS_DirectDraw_Surface_Fmt	683	624	Microsoft DirectDraw Surface container format		DDS	adENCAPSULATION	
Bink_Fmt	684	625	Bink audio-video container format		BIK, BK2	adMOVIE	
LZMA_Fmt	685	626	LZMA compressed data format	application/x-lzma	LZMA	adENCAPSULATION	
True_Audio_Fmt	686	627	True Audio format	audio/x-tta	TTA	adSOUND	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Keepass_Fmt	687	628	Keepass Password file		KDB, KDBX	adMISC	
RPM_Fmt	688	629	RPM Package Manager file	application/x-rpm	RPM	adENCAPSULATION	
Printer_Font_Metrics_Fmt	689	630	Adobe Printer Font Metrics format	application/x-font-printer-metric	PFM	adFONT	
Adobe_Font_Metrics_Fmt	690	631	Adobe Font Metrics ASCII format	application/x-font-adobe-metric	AFM	adFONT	
Printer_Font_ASCII_Fmt	691	632	Adobe Printer Font ASCII format	application/x-font-type1	PFA	adFONT	
Netware_Loadable_Module_Fmt	692	633	Netware Loadable Module format		NLM	adMISC	
TCPdump_pcap_Fmt	693	634	TCPdump packet stream capture savefile format	application/vnd.tcpdump.pcap	PCAP	adMISC	
Multiple_Master_Font_Fmt	694	635	Adobe Multiple master font format		MMM	adFONT	
TrueType_Font_Collection_Fmt	695	636	TrueType font collection format	application/x-font-ttf	TTC	adFONT	
Shapefile_Spatial_Index_Fmt	696	637	Shapefile binary spatial index format	application/x-shapefile	SBX, SBN	adGIS	
Java_Key_Store_Fmt	697	638	Java Key Store format	application/x-java-keystore	KS	adMISC	
Java_JCE_Key_Store_Fmt	698	639	Java JCE Key Store format	application/x-java-jce-keystore		adMISC	
Quark_Xpress_Intel_Fmt	699	640	QuarkXPress Intel format	application/vnd.quark.quarkxpress	QXB	adDESKTOPPUBLSH	
Windows_Imaging_Fmt	700	641	Microsoft Windows Imaging Format WIM		WIM	adMISC	
VMware_Virtual_Disk_Fmt	701	642	VMware Virtual Disk Format 5.0	application/x-vmrk	VMDK	adMISC	
XPCconnect_Typelib_Fmt	702	643	XPCconnect Typelib Format		XPT	adMISC	
MS_DOS_Compression_Fmt	703	644	Microsoft MS-DOS installation compression (SZDD, KWAJ)	application/x-ms-compress	EX_	adENCAPSULATION	
DLS_Fmt	704	645	DLS Downloadable Sounds format		DLS	adSOUND	
MS_Windows_Registry_	705	646	Microsoft Windows			adMISC	



Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Fmt			Registry format				
Microsoft_Help_2_Fmt	706	647	Microsoft Help 2.0 format	application/x-ms-reader	HXD, HXW, HXH	adENCAPSULATION	
Qt_Translation_Fmt	707	648	Qt binary translation file format		QM	adMISC	
PEM_SSL_Certificate_Fmt	708	649	PEM-encoded SSL certificate	application/pkix-cert	CRT, PEM, CER, KEY	adENCAPSULATION	
PostScript_Printer_Description_Fmt	709	650	Adobe PostScript Printer Description file	application/vnd.cups-ppd	PPD	adMISC	
Speedo_Font_Fmt	710	651	Speedo Font format		SPD	adFONT	
InstallShield_Cabinet_Fmt	711	652	InstallShield Cabinet Archive format		CAB, HDR	adENCAPSULATION	
InstallShield_Uninstall_Fmt	712	653	InstallShield Uninstall format		ISU	adENCAPSULATION	
MS_OEDBX_Folder_Fmt	713	654	Outlook Express DBX folder database format		DBX	adENCAPSULATION	
LabVIEW_Fmt	714	655	National Instruments LabVIEW file format		VI	adMISC	
SAP_Archive_SAR_Fmt	715	656	SAP compression archive SAR format		SAR	adENCAPSULATION	
Netscape_Address_Book_Fmt	716	657	Netscape Address Book format		NAB	adMISC	
Universal_3D_Fmt	717	658	Universal 3D file format		U3D	adVECTORGRAPHIC	
Open_Inventor_ASCII_Fmt	718	659	Open Inventor ASCII format		IV	adVECTORGRAPHIC	
Open_Inventor_Binary_Fmt	719	660	Open Inventor Binary format		IV	adVECTORGRAPHIC	
X_Window_Dump_Fmt	720	661	X Window Dump image	image/x-xwindowdump	XWD	adRASTERIMAGE	
Git_Packfile_Fmt	721	662	Git Packfile format		PACK	adENCAPSULATION	
Xara_Xar_Fmt	722	663	Xara X Xar image format	application/vnd.xara	XAR	adVECTORGRAPHIC	
Internet_Archive_ARC_Fmt	723	664	Internet Archive ARC format	application/x-ia-arc	ARC	adENCAPSULATION	
Applix_Builder_Fmt	724	665	Applix Builder format		AB	adMISC	
Applix_Bitmap_Fmt	725	666	Applix Bitmap image format		IM	adRASTERIMAGE	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
PEM_RSA_Private_Key_Fmt	726	667	PEM-encoded RSA private key		PEM	adENCAPSULATION	
MIFF_Fmt	727	668	Magick Image File Format		MIFF	adRASTERIMAGE	
Subversion_Dump_Fmt	728	669	Subversion Dump format			adENCAPSULATION	
Virtual_Hard_Disk_Fmt	729	670	Microsoft Virtual Hard Disk format	application/x-vhd	VHD	adENCAPSULATION	
Direct_Access_Archive_Fmt	730	671	PowerISO Direct Access Archive format		DAA	adENCAPSULATION	
Debian_Binary_Fmt	731	672	Debian binary package format	application/x-debian-package	DEB	adENCAPSULATION	
XUL_Fastload_Fmt	732	673	Mozilla XUL Fastload format		MFL	adMISC	
Nastran_OP2_Fmt	733	674	Nastran OP2 format		OP2	adCAD	
Binary_Logging_Fmt	734	675	CAD Binary Logging Format		BLF	adCAD	
Measurement_Data_Fmt	735	676	CAD Measurement Data Format		MDF	adCAD	
Abaqus_ODB_Fmt	736	677	Abaqus ODB Format		ODB	adCAD	
Open_Diagnostic_Data_Exchange_Fmt	737	678	Vector Open Diagnostic Data Exchange format		ODX	adCAD	<a href="#">xmlsr</a>
Vector_ASCII_Fmt	738	679	Vector CAD ASCII ASC format		ASC	adCAD	
LSDYNA_State_Database_Fmt	739	680	LS-DYNA State Database format			adCAD	
LSDYNA_Binary_Output_Fmt	740	681	LS-DYNA binary output (binout) format			adCAD	
MS_Power_BI_Fmt	741	682	Microsoft Power BI Desktop format		PBIX	adANALYTICS	<a href="#">pbixsr</a>
Tableau_Workbook_Fmt	742	683	Tableau Workbook format		TWB	adANALYTICS	<a href="#">xmlsr</a>
Tableau_Packaged_Workbook_Fmt	743	684	Tableau Packaged Workbook format		TWBX	adANALYTICS	<a href="#">unzip</a>
Tableau_Extract_Fmt	744	685	Tableau Extract format		TDE	adANALYTICS	
Tableau_Data_Source_Fmt	745	686	Tableau Data Source format		TDS	adANALYTICS	<a href="#">xmlsr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Tableau_Packaged_Data_Source_Fmt	746	687	Tableau Packaged Data Source format		TDSX	adANALYTICS	<a href="#">unzip</a>
Tableau_Preferences_Fmt	747	688	Tableau Preferences format		TPS	adANALYTICS	<a href="#">xmlsr</a>
Tableau_Map_Source_Fmt	748	689	Tableau Map Source format		TMS	adANALYTICS	<a href="#">xmlsr</a>
ABAP_Fmt	749	690	ABAP Source Code <sup>4</sup>	text/x-abap	ABAP	adSOURCECODE	<a href="#">afsr</a>
AMPL_Fmt	750	691	AMPL Source Code <sup>4</sup>		AMPL	adSOURCECODE	<a href="#">afsr</a>
APL_Fmt	751	692	APL Source Code <sup>4</sup>		APL	adSOURCECODE	<a href="#">afsr</a>
ASN1_Fmt	752	693	ASN.1 Source Code <sup>4</sup>		ASN	adSOURCECODE	<a href="#">afsr</a>
ATS_Fmt	753	694	ATS Source Code <sup>4</sup>			adSOURCECODE	<a href="#">afsr</a>
Agda_Fmt	754	695	Agda Source Code <sup>4</sup>	text/x-agda	AGDA	adSOURCECODE	<a href="#">afsr</a>
Alloy_Fmt	755	696	Alloy Source Code <sup>4</sup>	text/x-alloy	ALS	adSOURCECODE	<a href="#">afsr</a>
Apex_Fmt	756	697	Apex Source Code <sup>4</sup>		CLS	adSOURCECODE	<a href="#">afsr</a>
Arduino_Fmt	757	698	Arduino Source Code <sup>4</sup>	text/x-arduino	INO	adSOURCECODE	<a href="#">afsr</a>
AsciiDoc_Fmt	758	699	AsciiDoc Source Code <sup>4</sup>	text/x-asciidoc	ASC	adSOURCECODE	<a href="#">afsr</a>
AspectJ_Fmt	759	700	AspectJ Source Code <sup>4</sup>	text/x-aspectj	AJ	adSOURCECODE	<a href="#">afsr</a>
Awk_Fmt	760	701	Awk Source Code <sup>4</sup>	text/x-awk	AWK	adSOURCECODE	<a href="#">afsr</a>
BlitzMax_Fmt	761	702	BlitzMax Source Code <sup>4</sup>	text/x-bmx	BMX	adSOURCECODE	<a href="#">afsr</a>
Bluespec_Fmt	762	703	Bluespec Source Code <sup>4</sup>		BSV	adSOURCECODE	<a href="#">afsr</a>
Brainfuck_Fmt	763	704	Brainfuck Source Code <sup>4</sup>	text/x-brainfuck	B, BF	adSOURCECODE	<a href="#">afsr</a>
Brightscript_Fmt	764	705	Brightscript Source Code <sup>4</sup>		BRS	adSOURCECODE	<a href="#">afsr</a>
CLIPS_Fmt	765	706	CLIPS Source Code <sup>4</sup>		CLP	adSOURCECODE	<a href="#">afsr</a>
CMake_Fmt	766	707	CMake Source Code <sup>4</sup>	text/x-cmake	CMAKE	adSOURCECODE	<a href="#">afsr</a>
COBOL_Fmt	767	708	COBOL Source Code <sup>4</sup>	text/x-cobol	CBL, CCP, COB, CPY	adSOURCECODE	<a href="#">afsr</a>
CWeb_Fmt	768	709	CWeb Source Code <sup>4</sup>		W	adSOURCECODE	<a href="#">afsr</a>
CartoCSS_Fmt	769	710	CartoCSS Source Code <sup>4</sup>		MSS	adSOURCECODE	<a href="#">afsr</a>
Ceylon_Fmt	770	711	Ceylon Source Code <sup>4</sup>	text/x-ceylon	CEYLON	adSOURCECODE	<a href="#">afsr</a>
Chapel_Fmt	771	712	Chapel Source Code <sup>4</sup>		CHPL	adSOURCECODE	<a href="#">afsr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Clarion_Fmt	772	713	Clarion Source Code <sup>4</sup>		CLW	adSOURCECODE	<a href="#">afsr</a>
Clean_Fmt	773	714	Clean Source Code <sup>4</sup>		DCL, ICL	adSOURCECODE	<a href="#">afsr</a>
Component_Pascal_Fmt	774	715	Component Pascal Source Code <sup>4</sup>	text/x-component-pascal	CP	adSOURCECODE	<a href="#">afsr</a>
Cool_Fmt	775	716	Cool Source Code <sup>4</sup>		CL	adSOURCECODE	<a href="#">afsr</a>
Coq_Fmt	776	717	Coq Source Code <sup>4</sup>	text/x-coq	V	adSOURCECODE	<a href="#">afsr</a>
Creole_Fmt	777	718	Creole Source Code <sup>4</sup>		CREOLE	adSOURCECODE	<a href="#">afsr</a>
Crystal_Fmt	778	719	Crystal Source Code <sup>4</sup>		CR	adSOURCECODE	<a href="#">afsr</a>
Csound_Fmt	779	720	Csound Source Code <sup>4</sup>		ORC	adSOURCECODE	<a href="#">afsr</a>
Csound_Document_Fmt	780	721	Csound Document Source Code <sup>4</sup>		CSD	adSOURCECODE	<a href="#">afsr</a>
Cuda_Fmt	781	722	Cuda Source Code <sup>4</sup>	text/x-cuda	CU	adSOURCECODE	<a href="#">afsr</a>
D_Fmt	782	723	D Source Code <sup>4</sup>	text/x-d	DCL, ICL	adSOURCECODE	<a href="#">afsr</a>
DIGITAL_Command_Language_Fmt	783	724	DIGITAL Command Language Source Code <sup>4</sup>		COM	adSOURCECODE	<a href="#">afsr</a>
DTrace_Fmt	784	725	DTrace Source Code <sup>4</sup>		D	adSOURCECODE	<a href="#">afsr</a>
Dart_Fmt	785	726	Dart Source Code <sup>4</sup>	text/x-dart	DART	adSOURCECODE	<a href="#">afsr</a>
E_Fmt	786	727	E Source Code <sup>4</sup>		E	adSOURCECODE	<a href="#">afsr</a>
ECL_Fmt	787	728	ECL Source Code <sup>4</sup>	application/x-ecl	ECL	adSOURCECODE	<a href="#">afsr</a>
Elm_Fmt	788	729	Elm Source Code <sup>4</sup>	text/x-elm	ELM	adSOURCECODE	<a href="#">afsr</a>
Emacs_Lisp_Fmt	789	730	Emacs Lisp Source Code <sup>4</sup>	text/x-emacs-lisp	EL	adSOURCECODE	<a href="#">afsr</a>
EmberScript_Fmt	790	731	EmberScript Source Code <sup>4</sup>		EM	adSOURCECODE	<a href="#">afsr</a>
Fantom_Fmt	791	732	Fantom Source Code <sup>4</sup>	application/x-fantom	FAN	adSOURCECODE	<a href="#">afsr</a>
Forth_Fmt	792	733	Forth Source Code <sup>4</sup>	text/x-forth	FOR, FORTH	adSOURCECODE	<a href="#">afsr</a>
FreeMarker_Fmt	793	734	FreeMarker Source Code <sup>4</sup>		FTL	adSOURCECODE	<a href="#">afsr</a>
Frege_Fmt	794	735	Frege Source Code <sup>4</sup>		FR	adSOURCECODE	<a href="#">afsr</a>
G_code_Fmt	795	736	G-code Source Code <sup>4</sup>		G	adSOURCECODE	<a href="#">afsr</a>
GAMS_Fmt	796	737	GAMS Source Code <sup>4</sup>		GMS	adSOURCECODE	<a href="#">afsr</a>
GAP_Fmt	797	738	GAP Source Code <sup>4</sup>			adSOURCECODE	<a href="#">afsr</a>
GDScript_Fmt	798	739	GDScript Source Code <sup>4</sup>		GD	adSOURCECODE	<a href="#">afsr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
GLSL_Fmt	799	740	GLSL Source Code <sup>4</sup>	text/x-glslsrc	GLSL	adSOURCECODE	<a href="#">afsr</a>
Game_Maker_Language_Fmt	800	741	Game Maker Language Source Code <sup>4</sup>		GML	adSOURCECODE	<a href="#">afsr</a>
Gnuplot_Fmt	801	742	Gnuplot Source Code <sup>4</sup>	text/x-gnuplot	GNU, GP	adSOURCECODE	<a href="#">afsr</a>
Golo_Fmt	802	743	Golo Source Code <sup>4</sup>		GOLO	adSOURCECODE	<a href="#">afsr</a>
Gosu_Fmt	803	744	Gosu Source Code <sup>4</sup>	text/x-gosu	GS	adSOURCECODE	<a href="#">afsr</a>
Gradle_Fmt	804	745	Gradle Source Code <sup>4</sup>		GRADLE	adSOURCECODE	<a href="#">afsr</a>
GraphQL_Fmt	805	746	GraphQL Source Code <sup>4</sup>		GRAPHQL	adSOURCECODE	<a href="#">afsr</a>
Graphviz_DOT_Fmt	806	747	Graphviz (DOT) Source Code <sup>4</sup>		DOT	adSOURCECODE	<a href="#">afsr</a>
HLSL_Fmt	807	748	HLSL Source Code <sup>4</sup>		HLSL	adSOURCECODE	<a href="#">afsr</a>
Hack_Fmt	808	749	Hack Source Code <sup>4</sup>			adSOURCECODE	<a href="#">afsr</a>
Haml_Fmt	809	750	Haml Source Code <sup>4</sup>	text/x-haml	HAML	adSOURCECODE	<a href="#">afsr</a>
Handlebars_Fmt	810	751	Handlebars Source Code <sup>4</sup>		HBS	adSOURCECODE	<a href="#">afsr</a>
Hy_Fmt	811	752	Hy Source Code <sup>4</sup>	text/x-hy	HY	adSOURCECODE	<a href="#">afsr</a>
IDL_Fmt	812	753	IDL Source Code <sup>4</sup>	text/x-idl	PRO	adSOURCECODE	<a href="#">afsr</a>
IGOR_Pro_Fmt	813	754	IGOR Pro Source Code <sup>4</sup>	text/ipf	IPF	adSOURCECODE	<a href="#">afsr</a>
Idris_Fmt	814	755	Idris Source Code <sup>4</sup>	text/x-idris	IDR	adSOURCECODE	<a href="#">afsr</a>
Inform_7_Fmt	815	756	Inform 7 Source Code <sup>4</sup>		I7X	adSOURCECODE	<a href="#">afsr</a>
Ioke_Fmt	816	757	Ioke Source Code <sup>4</sup>	text/x-iokesrc	IK	adSOURCECODE	<a href="#">afsr</a>
Isabelle_Fmt	817	758	Isabelle Source Code <sup>4</sup>	text/x-isabelle		adSOURCECODE	<a href="#">afsr</a>
J_Fmt	818	759	J Source Code <sup>4</sup>	text/x-j	IJS	adSOURCECODE	<a href="#">afsr</a>
JSONiq_Fmt	819	760	JSONiq Source Code <sup>4</sup>		JQ	adSOURCECODE	<a href="#">afsr</a>
JSX_Fmt	820	761	JSX Source Code <sup>4</sup>		JSX	adSOURCECODE	<a href="#">afsr</a>
Jasmin_Fmt	821	762	Jasmin Source Code <sup>4</sup>		J	adSOURCECODE	<a href="#">afsr</a>
Jolie_Fmt	822	763	Jolie Source Code <sup>4</sup>			adSOURCECODE	<a href="#">afsr</a>
Julia_Fmt	823	764	Julia Source Code <sup>4</sup>	text/x-julia	JL	adSOURCECODE	<a href="#">afsr</a>
KiCad_Layout_Fmt	824	765	KiCad Layout Source Code <sup>4</sup>			adSOURCECODE	<a href="#">afsr</a>
KiCad_Schematic_Fmt	825	766	KiCad Schematic Source		SCH	adSOURCECODE	<a href="#">afsr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
			Code <sup>4</sup>				
Kotlin_Fmt	826	767	Kotlin Source Code <sup>4</sup>		KT	adSOURCECODE	<a href="#">afsr</a>
LFE_Fmt	827	768	LFE Source Code <sup>4</sup>	text/x-kotlin	LFE	adSOURCECODE	<a href="#">afsr</a>
LOLCODE_Fmt	828	769	LOLCODE Source Code <sup>4</sup>		LOL	adSOURCECODE	<a href="#">afsr</a>
Lasso_Fmt	829	770	Lasso Source Code <sup>4</sup>	text/x-lasso	LAS, LASSO	adSOURCECODE	<a href="#">afsr</a>
Limbo_Fmt	830	771	Limbo Source Code <sup>4</sup>	text/limbo		adSOURCECODE	<a href="#">afsr</a>
LiveScript_Fmt	831	772	LiveScript Source Code <sup>4</sup>	text/x-livescript	LS	adSOURCECODE	<a href="#">afsr</a>
M_Fmt	832	773	M Source Code <sup>4</sup>		M	adSOURCECODE	<a href="#">afsr</a>
MAXScript_Fmt	833	774	MAXScript Source Code <sup>4</sup>		MS	adSOURCECODE	<a href="#">afsr</a>
Markdown_Fmt	834	775	Markdown Source Code <sup>4</sup>		MD	adSOURCECODE	<a href="#">afsr</a>
Matlab_Fmt	835	463	Matlab Source Code <sup>4</sup>	text/x-matlab	M	adSOURCECODE	<a href="#">afsr</a>
Max_Code_Fmt	836	776	Max Source Code <sup>4</sup>		MXT	adSOURCECODE	<a href="#">afsr</a>
Mercury_Fmt	837	777	Mercury Source Code <sup>4</sup>			adSOURCECODE	<a href="#">afsr</a>
Modelica_Fmt	838	778	Modelica Source Code <sup>4</sup>	text/x-modelica	MO	adSOURCECODE	<a href="#">afsr</a>
Modula_2_Fmt	839	779	Modula-2 Source Code <sup>4</sup>	text/x-modula2	MOD	adSOURCECODE	<a href="#">afsr</a>
Monkey_Fmt	840	780	Monkey Source Code <sup>4</sup>	text/x-monkey	MONKEY	adSOURCECODE	<a href="#">afsr</a>
Moocode_Fmt	841	781	Moocode Source Code <sup>4</sup>	text/x-moocode	MOO	adSOURCECODE	<a href="#">afsr</a>
NL_Fmt	842	782	NL Source Code <sup>4</sup>		NL	adSOURCECODE	<a href="#">afsr</a>
NSIS_Fmt	843	783	NSIS Source Code <sup>4</sup>	text/x-nsis	NSI	adSOURCECODE	<a href="#">afsr</a>
NetLogo_Fmt	844	784	NetLogo Source Code <sup>4</sup>		NLOGO	adSOURCECODE	<a href="#">afsr</a>
NewLisp_Fmt	845	785	NewLisp Source Code <sup>4</sup>	text/x-newlisp	NL	adSOURCECODE	<a href="#">afsr</a>
Nginx_Fmt	846	786	Nginx Source Code <sup>4</sup>	text/x-nginx-conf	VHOST	adSOURCECODE	<a href="#">afsr</a>
Nix_Fmt	847	787	Nix Source Code <sup>4</sup>	text/x-nix	NIX	adSOURCECODE	<a href="#">afsr</a>
Nu_Fmt	848	788	Nu Source Code <sup>4</sup>		NU	adSOURCECODE	<a href="#">afsr</a>
OCaml_Fmt	849	789	OCaml Source Code <sup>4</sup>	text/x-ocaml		adSOURCECODE	<a href="#">afsr</a>
OpenCL_Fmt	850	790	OpenCL Source Code <sup>4</sup>		CL	adSOURCECODE	<a href="#">afsr</a>
OpenEdge_ABL_Fmt	851	791	OpenEdge ABL Source Code <sup>4</sup>	text/x-openedge		adSOURCECODE	<a href="#">afsr</a>
OpenSCAD_Fmt	852	792	OpenSCAD Source Code <sup>4</sup>		SCAD	adSOURCECODE	<a href="#">afsr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Ox_Fmt	853	793	Ox Source Code <sup>4</sup>		OX	adSOURCECODE	<a href="#">afsr</a>
Oxygene_Fmt	854	794	Oxygene Source Code <sup>4</sup>		OXYGENE	adSOURCECODE	<a href="#">afsr</a>
Oz_Fmt	855	795	Oz Source Code <sup>4</sup>		OZ	adSOURCECODE	<a href="#">afsr</a>
PAWN_Fmt	856	796	PAWN Source Code <sup>4</sup>	text/x-pawn	PWN	adSOURCECODE	<a href="#">afsr</a>
PLpgSQL_Fmt	857	797	PLpgSQL Source Code <sup>4</sup>	text/x-plpgsql	PLSQL	adSOURCECODE	<a href="#">afsr</a>
Pan_Fmt	858	798	Pan Source Code <sup>4</sup>		PAN	adSOURCECODE	<a href="#">afsr</a>
Parrot_Assembly_Fmt	859	799	Parrot Assembly Source Code <sup>4</sup>		PASM	adSOURCECODE	<a href="#">afsr</a>
PicoLisp_Fmt	860	800	PicoLisp Source Code <sup>4</sup>			adSOURCECODE	<a href="#">afsr</a>
Pike_Fmt	861	801	Pike Source Code <sup>4</sup>	text/x-pike	PIKE	adSOURCECODE	<a href="#">afsr</a>
Pony_Fmt	862	802	Pony Source Code <sup>4</sup>		PONY	adSOURCECODE	<a href="#">afsr</a>
Processing_Fmt	863	803	Processing Source Code <sup>4</sup>		PDE	adSOURCECODE	<a href="#">afsr</a>
PureBasic_Fmt	864	804	PureBasic Source Code <sup>4</sup>		PB	adSOURCECODE	<a href="#">afsr</a>
QMake_Fmt	865	805	QMake File <sup>4</sup>			adSOURCECODE	<a href="#">afsr</a>
RAML_Fmt	866	806	RAML Source Code <sup>4</sup>		RAML	adSOURCECODE	<a href="#">afsr</a>
RDoc_Fmt	867	807	RDoc Source Code <sup>4</sup>		RDOC	adSOURCECODE	<a href="#">afsr</a>
REXX_Fmt	868	808	REXX Source Code <sup>4</sup>	text/x-rexx	REXX	adSOURCECODE	<a href="#">afsr</a>
Racket_Fmt	869	809	Racket Source Code <sup>4</sup>	text/x-racket		adSOURCECODE	<a href="#">afsr</a>
Ragel_Fmt	870	810	Ragel Source Code <sup>4</sup>			adSOURCECODE	<a href="#">afsr</a>
Rascal_Fmt	871	811	Rascal Source Code <sup>4</sup>		RSC	adSOURCECODE	<a href="#">afsr</a>
Rebol_Fmt	872	812	Rebol Source Code <sup>4</sup>	text/x-rebol	REB, REBOL	adSOURCECODE	<a href="#">afsr</a>
Red_Fmt	873	813	Red Source Code <sup>4</sup>	text/x-red	RED	adSOURCECODE	<a href="#">afsr</a>
RenPy_Fmt	874	814	Ren'Py Source Code <sup>4</sup>		RPY	adSOURCECODE	<a href="#">afsr</a>
RenderScript_Fmt	875	815	RenderScript Source Code <sup>4</sup>		RS	adSOURCECODE	<a href="#">afsr</a>
Ring_Fmt	876	816	Ring Source Code <sup>4</sup>		RING	adSOURCECODE	<a href="#">afsr</a>
RobotFramework_Fmt	877	817	RobotFramework Source Code <sup>4</sup>	text/x-robotframework	ROBOT	adSOURCECODE	<a href="#">afsr</a>
SAS_Fmt	878	818	SAS Source Code <sup>4</sup>		SAS	adSOURCECODE	<a href="#">afsr</a>
SPARQL_Fmt	879	819	SPARQL format <sup>4</sup>	application/sparql-query		adSOURCECODE	<a href="#">afsr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
SQL_Fmt	880	820	SQL format <sup>4</sup>	text/x-sql		adSOURCECODE	<a href="#">afsr</a>
SQLPL_Fmt	881	821	SQLPL Source Code <sup>4</sup>			adSOURCECODE	<a href="#">afsr</a>
SaltStack_Fmt	882	822	SaltStack Source Code <sup>4</sup>		SLS	adSOURCECODE	<a href="#">afsr</a>
Scheme_Fmt	883	823	Scheme Source Code <sup>4</sup>	text/x-scheme		adSOURCECODE	<a href="#">afsr</a>
Scilab_Fmt	884	824	Scilab Source Code <sup>4</sup>	text/scilab	SCI	adSOURCECODE	<a href="#">afsr</a>
Squirrel_Fmt	885	825	Squirrel Source Code <sup>4</sup>		NUT	adSOURCECODE	<a href="#">afsr</a>
Stan_Fmt	886	826	Stan Source Code <sup>4</sup>		STAN	adSOURCECODE	<a href="#">afsr</a>
Stata_Fmt	887	827	Stata Source Code <sup>4</sup>			adSOURCECODE	<a href="#">afsr</a>
Stylus_Fmt	888	828	Stylus Source Code <sup>4</sup>		STYL	adSOURCECODE	<a href="#">afsr</a>
SuperCollider_Fmt	889	829	SuperCollider Source Code <sup>4</sup>	text/supercollider	SC	adSOURCECODE	<a href="#">afsr</a>
SystemVerilog_Fmt	890	830	SystemVerilog Source Code <sup>4</sup>	text/x-systemverilog	SV	adSOURCECODE	<a href="#">afsr</a>
TXL_Fmt	891	831	TXL Source Code <sup>4</sup>		TXL	adSOURCECODE	<a href="#">afsr</a>
Turing_Fmt	892	832	Turing Source Code <sup>4</sup>		T	adSOURCECODE	<a href="#">afsr</a>
Turtle_Fmt	893	833	Turtle Source Code <sup>4</sup>	text/turtle	TTL	adSOURCECODE	<a href="#">afsr</a>
UrWeb_Fmt	894	834	UrWeb Source Code <sup>4</sup>		UR, URS	adSOURCECODE	<a href="#">afsr</a>
Vim_script_Fmt	895	835	Vim script File <sup>4</sup>	text/x-vim	VIM	adSOURCECODE	<a href="#">afsr</a>
Visual_Basic_Fmt	896	836	Visual Basic Source Code <sup>4</sup>	text/x-vbasic	VB	adSOURCECODE	<a href="#">afsr</a>
WebAssembly_Fmt	897	837	WebAssembly Source Code <sup>4</sup>		WAT	adSOURCECODE	<a href="#">afsr</a>
WebIDL_Fmt	898	838	WebIDL Source Code <sup>4</sup>		WEBIDL	adSOURCECODE	<a href="#">afsr</a>
X10_Fmt	899	839	X10 Source Code <sup>4</sup>	text/x-x10	X10	adSOURCECODE	<a href="#">afsr</a>
XQuery_Fmt	900	840	XQuery Source Code <sup>4</sup>	text/xquery	XQM	adSOURCECODE	<a href="#">afsr</a>
Xojo_Fmt	901	841	Xojo Source Code <sup>4</sup>			adSOURCECODE	<a href="#">afsr</a>
Xtend_Fmt	902	842	Xtend Source Code <sup>4</sup>	text/x-xtend	XTEND	adSOURCECODE	<a href="#">afsr</a>
YANG_Fmt	903	843	YANG Source Code <sup>4</sup>		YANG	adSOURCECODE	<a href="#">afsr</a>
Zephir_Fmt	904	844	Zephir Source Code <sup>4</sup>		ZEP	adSOURCECODE	<a href="#">afsr</a>
eC_Fmt	905	845	eC Source Code <sup>4</sup>	text/x-ecsrc	EC	adSOURCECODE	<a href="#">afsr</a>
reStructuredText_Fmt	906	846	reStructuredText Source	text/x-rst		adSOURCECODE	<a href="#">afsr</a>



Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
			Code <sup>4</sup>				
xBase_Fmt	907	847	xBase Source Code <sup>4</sup>			adSOURCECODE	<a href="#">afsr</a>
Windows_Installer_Fmt	908	848	MSI Windows Installer format	application/x-ole-storage	MSI	adENCAPSULATION	<a href="#">olesr</a>
Autodesk_3ds_Max_Fmt	909	849	Autodesk 3ds Max format		MAX	adCAD	
PhotoDraw_Mix_Fmt	910	850	PhotoDraw MIX image	image/vnd.mix	MIX	adRASTERIMAGE	
Softimage_SCN_Fmt	911	851	Softimage Scene SCN format		SCN	adCAD	
Parasolid_XT_Fmt	912	852	Parasolid ascii XT format		X_T	adCAD	
Parasolid_XB_Fmt	913	853	Parasolid binary XB format		X_B	adCAD	
IGES_Fmt	914	854	Initial Graphics Exchange Specification format	model/iges	IGS	adCAD	
ACE_Archive_Fmt	915	855	ACE archive format	application/x-ace-compressed	ACE	adENCAPSULATION	
Grasshopper_GHX_Fmt	916	856	Grasshopper GHX format		GHX	adCAD	<a href="#">xmlsr</a>
MS_FrontPage_Macro_Fmt	917	857	Microsoft FrontPage macro file format		FPM	adWORDPROCESSOR	
MS_AtWork_Fax_Fmt	918	858	Microsoft AtWork Fax format		AWD	adFAXFORMAT	
MS_Image_Composer_Fmt	919	859	Microsoft Image Composer format		MIC	adRASTERIMAGE	
MS_Visual_InterDev_Fmt	920	860	Microsoft Visual InterDev web project items file		WDM	adMISC	
Macromedia_Flash_FLA_OLE_Fmt	921	861	Macromedia Flash FLA Project File OLE format		FLA	adWORDPROCESSOR	
Corel_Draw_X4_Fmt	922	862	CorelDRAW version X4 onwards	application/x-vnd.corel.zcf.draw.document+zip	CDRX	adVECTORGRAPHIC	
Ogg_Daala_Fmt	923	863	Ogg Daala video format	video/daala	OGV	adMOVIE	
Ogg_BBC_Dirac_Fmt	924	864	Ogg BBC Dirac video format	video/x-dirac	OGV	adMOVIE	
PKCS_7_Fmt	925	865	PKCS #7 cryptographic format	application/pkcs7-signature	P7S	adWORDPROCESSOR	
Time_Stamped_Data_Fmt	926	866	Time-stamped data format	application/timestamped-data	TSD	adENCAPSULATION	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Sereal_Fmt	927	867	Sereal data serialization format	application/sereal	SRL	adMISC	
Associated_Signature_Simple_Fmt	928	868	Associated Signature Container Simple format	application/vnd.etsi.asic-s+zip	ASICS	adENCAPSULATION	
Associated_Signature_Extended_Fmt	929	869	Associated Signature Container Extended format	application/vnd.etsi.asic-e+zip	ASICE	adENCAPSULATION	
iBooks_Fmt	930	870	Apple iBooks format	application/x-ibooks+zip	IBOOKS	adWORDPROCESSOR	
PDF_Forms_Data_Fmt	931	871	PDF Forms Data Format	application/vnd.fdf	FDF	adWORDPROCESSOR	
PDF_XML_Forms_Data_Fmt	932	872	PDF XML Forms Data Format	application/vnd.adobe.xfdf	XPDF	adWORDPROCESSOR	<a href="#">xmlsr</a>
AxCrypt_Fmt	933	873	AxCrypt encrypted document	application/x-axcrypt	AXX	adENCAPSULATION	
Unix_Archive_Fmt	934	874	Unix Archive ar format	application/x-archive	AR	adENCAPSULATION	
Berkeley_Btree_Database_Fmt	935	875	Berkeley DB btree database format	application/x-berkeley-db	DB	adDATABASE	
Berkeley_Hash_Database_Fmt	936	876	Berkeley DB hash database format	application/x-berkeley-db	DB	adDATABASE	
Berkeley_Log_Database_Fmt	937	877	Berkeley DB log database format	application/x-berkeley-db		adDATABASE	
Berkeley_Queue_Database_Fmt	938	878	Berkeley DB queue database format	application/x-berkeley-db		adDATABASE	
BitTorrent_Fmt	939	879	BitTorrent file format	application/x-bittorrent	TORRENT	adMISC	
Chrome_Extension_Fmt	940	880	Google Chrome Extension format	application/x-chrome-package	CRX	adENCAPSULATION	
Dalvik_Executable_Fmt	941	881	Dalvik Executable dex format	application/x-dex	DEX	adEXECUTABLE	
Foxmail_Fmt	942	882	Foxmail email format	application/x-foxmail	BOX	adWORDPROCESSOR	
GRIB_Fmt	943	883	General Regularly-distributed Information in Binary form GRIB format	application/x-grib	GRB, GRIB2	adMISC	
Zstandard_Fmt	944	884	Zstandard compression format	application/zstd	ZSTD	adENCAPSULATION	
LZ4_Fmt	945	885	LZ4 compressed file	application/x-lz4	LZ4	adENCAPSULATION	
MS_Money_Fmt	946	886	Microsoft Money format	application/x-msmoney	MNY	adSPREADSHEET	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
NetCDF_Fmt	947	887	Network Common Data Form NetCDF format	application/x-netcdf	NC	adMISC	
SAS6_Data_Fmt	948	888	SAS 6 Data storage format	application/x-sas-data-v6	SD2	adDATABASE	
SAS_Transport_Fmt	949	889	SAS Transport File XPORT format	application/x-sas-xport	XPT, XPORT	adDATABASE	
Snappy_Framed_Fmt	950	890	Snappy Framed compression format	application/x-snappy-framed	SZ	adENCAPSULATION	
Stata_Data_Fmt	951	891	Stata Data Format	application/x-stata-dta	DTA	adDATABASE	
SPSS_SAV_Fmt	952	892	SPSS Statistics Data File Format		SAV	adDATABASE	
Zoo_Archive_Fmt	953	893	Zoo Compressed Archive Format	application/x-zoo	ZOO	adENCAPSULATION	
CDX_Fmt	954	894	ChemDraw CDX format	chemical/x-cdx	CDX	adSCIENTIFIC	
CDXML_Fmt	955	895	ChemDraw CDXML format	application/vnd.chemdraw+xml	CDXML	adSCIENTIFIC	<a href="#">xmlsr</a>
BPG_Fmt	956	896	Better Portable Graphics BPG format	image/x-bpg	BPG	adRASTERIMAGE	
Apple_Icon_Fmt	957	897	Apple Icon image format	image/icns	ICNS	adRASTERIMAGE	
NITF_Fmt	958	898	National Imagery Transmission Format NITF image	image/nitf	NTF, NITF	adRASTERIMAGE	
ERDAS_Imagine_Fmt	959	899	ERDAS Imagine image format	application/x-erdas-hfa	HFA, RRD, AUX	adRASTERIMAGE	
MS_Office_Temporary_Owner_Fmt	960	900	Microsoft Office temporary owner file	application/x-ms-owner		adMISC	
EAC3_Audio_Fmt	961	901	Enhanced-AC3 (EAC3) Audio File format	audio/eac3	AC3	adSOUND	
COFF_Relocatable_Fmt	962	902	Common Object File Format (COFF) relocatable object	application/x-object-file	O	adOBJECTMODULE	
COFF_Executable_Fmt	963	903	Common Object File Format (COFF) executable	application/x-executable-file		adEXECUTABLE	
COFF_Dynamic_Lib_Fmt	964	904	Common Object File Format (COFF) dynamic library	application/x-library-file		adLIBRARY	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
ELF_Core_Fmt	965	905	ELF Core file	application/x-coreDump		adMISC	
Purify_Fmt	966	906	Rational Purify data file		PFY	adMISC	
Kryptel_Fmt	967	907	Kryptel encrypted file		EDC	adENCAPSULATION	
Windows_Core_Dump_Fmt	968	908	Windows heap or mini core dump file	application/x-dmp	DMP	adMISC	
Qt_Prerendered_Font_Fmt	969	909	Qt Prerendered Font format		QPF2	adFONT	
AIX_Relocatable_Fmt	970	910	AIX/RISC COFF relocatable object	application/x-object-file		adOBJECTMODULE	
AIX_Executable_Fmt	971	911	AIX/RISC COFF executable	application/x-executable-file		adEXECUTABLE	
AIX_Dynamic_Lib_Fmt	972	912	AIX/RISC COFF dynamic library	application/x-library-file	A	adLIBRARY	
HPUX_Relocatable_Fmt	973	913	HPUX/PA-RISC COFF relocatable object	application/x-object-file		adOBJECTMODULE	
HPUX_Executable_Fmt	974	914	HPUX/PA-RISC COFF executable	application/x-executable-file		adEXECUTABLE	
HPUX_Dynamic_Lib_Fmt	975	915	HPUX/PA-RISC COFF dynamic library	application/x-library-file	SL	adLIBRARY	
XML_EBCDIC_Fmt	976	916	EBCDIC-encoded XML file	application/xml	XML	adWORDPROCESSOR	
MPEG_JVT_H264_Fmt	977	917	MPEG JVT-NAL sequence H264 video	video/h264	264	adMOVIE	
Material_Exchange_Fmt	978	918	Material Exchange Format audio-video container format	application/mxf	MXF	adMOVIE	
MS_Agent_Character_Fmt	979	919	Microsoft Agent Character file		ACS	adMOVIE	
Quicken_Fmt	980	920	Quicken data file		QDF	adMISC	
MS_Outlook_Address_Fmt	981	921	Microsoft Outlook address file		WAB	adMISC	
MS_Answer_Wizard_Fmt	982	922	Microsoft Answer Wizard file			adMISC	
ADX_Fmt	983	923	ADX audio file		ADX	adSOUND	
System_Deployment_	984	924	Microsoft System		SDI	adMISC	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Image_Fmt			Deployment Image SDI format				
Free_Lossless_Image_Fmt	985	925	Free Lossless Image Format (FLIF)	image/flif	FLIF	adRASTERIMAGE	
DPX_Fmt	986	926	Digital Picture Exchange (DPX) image format	image/dpx	DPX	adRASTERIMAGE	
Avro_Fmt	987	927	Apache Avro binary format		AVRO	adMISC	
InstallShield_Archive_Fmt	988	928	InstallShield archive (early versions) format		EX_	adENCAPSULATION	
Mac_Executable_Fmt	989	929	Mac OS-X (Mach-O) executable format			adEXECUTABLE	
GDSII_Fmt	990	930	GDSII data format		GDS, GDS2	adCAD	<a href="#">gdsiisr</a>
ActiveMime_Fmt	991	931	Microsoft ActiveMime (mso) documents	application/x-mso	MSO	adMISC	
SmartCharts_Fmt	992	932	BizInt SmartCharts data format		CHP, CHRR	adMISC	
Webex_ARF_Fmt	993	933	Webex advanced network ARF recordings		ARF	adMOVIE	
Webex_WRF_Fmt	994	934	Webex local WRF recordings		WRF	adMOVIE	
PGP_NetShare_Fmt	995	935	Symantec PGP NetShare encrypted file			adENCAPSULATION	
Ability_WP_OLE_Fmt	996	936	Ability Write later versions format		AWW	adWORDPROCESSOR	
Ability_SS_OLE_Fmt	997	937	Ability Spreadsheet later versions format		AWS	adSPREADSHEET	
InDesign_IDML_Fmt	998	938	Adobe InDesign IDML format	application/vnd.adobe.indesign-idml-package	IDML	adDESKTOPPUBLSH	
Executable_JAR_Fmt	999	939	Executable Java Archive (jar) file	application/java-archive	JAR	adENCAPSULATION	<a href="#">unzip</a>
IDOL_IDX_Fmt	1000	940	IDOL Server IDX file		IDX	adENCAPSULATION	
Android_Package_Kit_Fmt	1001	941	Android Package Kit (APK) format	application/vnd.android.package-archive	APK	adEXECUTABLE	
Android_Binary_XML_Fmt	1002	942	Android Binary XML (compressed by aapt)	application/xml	XML	adWORDPROCESSOR	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
			format				
Java_WAR_Fmt	1003	943	Java WAR file format		WAR	adENCAPSULATION	
Java_EAR_Fmt	1004	944	Java EAR file format		EAR	adENCAPSULATION	
Atom_Syndication_Fmt	1005	945	Atom Syndication Format	application/atom+xml	ATOM	adWORDPROCESSOR	<a href="#">xmlsr</a>
RSS_Fmt	1006	946	RSS syndication XML format	application/rss+xml	RSS	adWORDPROCESSOR	<a href="#">xmlsr</a>
SMIL_Fmt	1007	947	Synchronized Multimedia Integration Language (SMIL) XML format	application/smil+xml	SMIL	adWORDPROCESSOR	<a href="#">xmlsr</a>
XSLT_Fmt	1008	948	Extensible Stylesheet Language Transformations (XSLT) format	application/xslt+xml	XSL, XSLT	adWORDPROCESSOR	<a href="#">xmlsr</a>
XML_Shareable_Playlist_Fmt	1009	949	XML Shareable Playlist Format (XSPF)	application/xspf+xml	XSPF	adWORDPROCESSOR	<a href="#">xmlsr</a>
FictionBook_Fmt	1010	950	FictionBook e-book XML format	application/x-fictionbook+xml	FB2	adWORDPROCESSOR	<a href="#">xmlsr</a>
Adobe_Premiere_Project_Fmt	1011	951	Adobe Premiere project format	image/vnd.adobe.premiere	PPJ	adMISC	
RDF_XML_Fmt	1012	952	RDF/XML format	application/rdf+xml	RDF	adWORDPROCESSOR	<a href="#">xmlsr</a>
Really_Simple_Discovery_Fmt	1013	953	Really Simple Discovery (RSD) XML format	application/rsd+xml	RSD	adWORDPROCESSOR	<a href="#">xmlsr</a>
SBML_Fmt	1014	954	Systems Biology Markup Language (SBML) XML format	application/sbml+xml	SBML	adWORDPROCESSOR	<a href="#">xmlsr</a>
SRU_Fmt	1015	955	Search/Retrieve via URL (SRU) XML format	application/sru+xml	SRU	adWORDPROCESSOR	<a href="#">xmlsr</a>
SSML_Fmt	1016	956	Speech Synthesis Markup Language (SSML) XML format	application/ssml+xml	SSML	adWORDPROCESSOR	<a href="#">xmlsr</a>
PLS_Fmt	1017	957	Pronunciation Lexicon Specification (PLS) XML format	application/pls+xml	PLS	adWORDPROCESSOR	<a href="#">xmlsr</a>
TEI_Fmt	1018	958	Text Encoding Initiative (TEI) XML format	application/tei+xml	TEI	adWORDPROCESSOR	<a href="#">xmlsr</a>
METS_Fmt	1019	959	Metadata Encoding and Transmission Standard	application/mets+xml	METS	adWORDPROCESSOR	<a href="#">xmlsr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
			(METS) XML format				
MODS_Fmt	1020	960	Metadata Object Description Schema (MODS) XML format	application/mods+xml	MODS	adWORDPROCESSOR	<a href="#">xmlsr</a>
Metalink_Fmt	1021	961	Metalink XML format	application/metalink4+xml	METALINK	adWORDPROCESSOR	<a href="#">xmlsr</a>
Open_eBook_Fmt	1022	962	Open eBook (OEBPS) XML format	application/oebps-package+xml	OPF	adWORDPROCESSOR	<a href="#">xmlsr</a>
SRGS_Fmt	1023	963	Speech Recognition Grammar Specification (SRGS) XML format	application/srgs+xml	SRGS	adWORDPROCESSOR	<a href="#">xmlsr</a>
SPARQL_Results_Fmt	1024	964	SPARQL Query Results XML format	application/sparql-results+xml	SRX	adWORDPROCESSOR	<a href="#">xmlsr</a>
Adobe_XML_Data_Package_Fmt	1025	965	Adobe XML Data Package format	application/vnd.adobe.xdp+xml	XDP	adWORDPROCESSOR	<a href="#">xmlsr</a>
ESzigno_Fmt	1026	966	e-Szigno signed xml document	application/vnd.eszigno3+xml	ES3	adWORDPROCESSOR	<a href="#">xmlsr</a>
Mozilla_XUL_Fmt	1027	967	Mozilla XML User Interface Language (XUL) XML format	application/vnd.mozilla.xul+xml	XUL	adWORDPROCESSOR	<a href="#">xmlsr</a>
SyncML_Fmt	1028	968	Synchronization Markup Language (SyncML) XML format	application/vnd.syncml+xml	XML	adWORDPROCESSOR	<a href="#">xmlsr</a>
VoiceXML_Fmt	1029	969	VoiceXML (VXML) XML format	application/voicexml+xml	VXML	adWORDPROCESSOR	<a href="#">xmlsr</a>
TI_Target_Configuration_Fmt	1030	970	Texas Instruments CCXML target configuration XML format		CCXML	adWORDPROCESSOR	
LZFSE_Fmt	1031	971	Lempel-Ziv Finite State Entropy (LZFSE) compression format		LZFSE	adENCAPSULATION	
Kindle_eBook_Fmt	1032	972	Amazon Kindle or Mobipocket eBook format	application/vnd.amazon.ebook	AZW, PRC	adWORDPROCESSOR	
Oasis_Stream_Fmt	1033	973	Open Artwork System Interchange Standard (OASIS) format		OAS	adMISC	
Amazon_KFX_Fmt	1034	974	Amazon KFX eBook format		KFX	adWORDPROCESSOR	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
KTX_Fmt	1035	975	KTX image format	image/ktx	KTX	adRASTERIMAGE	
GMSH_Mesh_Fmt	1036	976	GMSH Mesh polygon format	model/mesh	MSH	adCAD	
Collada_DAE_Fmt	1037	977	Collada Digital Asset Exchange (DAE) format	model/vnd.collada+xml	DAE	adCAD	<a href="#">xmlsr</a>
YIN_Fmt	1038	978	YIN XML format	application/yin+xml	YIN	adWORDPROCESSOR	<a href="#">xmlsr</a>
MPEG_Playlist_Fmt	1039	979	MPEG audio playlist format	audio/mpegurl	M3U	adSOUND	
Windows_Audio_Playlist_Fmt	1040	980	Windows Audio playlist format	audio/x-ms-wax	WAX	adSOUND	<a href="#">xmlsr</a>
DTS_Audio_Fmt	1041	981	DTS Coherent Acoustics audio format	audio/vnd.dts	DTS	adSOUND	
Chemical_Markup_Language_Fmt	1042	982	Chemical Markup Language (CML) XML format	chemical/x-cml	CML	adWORDPROCESSOR	<a href="#">xmlsr</a>
CrystalMaker_Fmt	1043	983	CrystalMaker chemical format	chemical/x-cmdf	CMDF	adSCIENTIFIC	
VTK_XML_Fmt	1044	984	Visualization Toolkit VTK XML format	model/vnd.vtu	VTU	adVECTORGRAPHIC	<a href="#">xmlsr</a>
IPFIX_Fmt	1045	985	IP Flow Information Export (IPFIX) format	application/ipfix	IPFIX	adMISC	
Portable_Font_Resource_Fmt	1046	986	Portable Font Resource font format	application/font-tdpfr	PFR	adFONT	
MARC_Fmt	1047	987	Machine-Readable Cataloging (MARC21) format	application/marc	MARC	adDATABASE	
MARC_XML_Fmt	1048	988	Machine-Readable Cataloging (MARC) XML format	application/marcxml+xml	XML	adWORDPROCESSOR	<a href="#">xmlsr</a>
XAR_Fmt	1049	989	Extensible Archive (XAR) format			adENCAPSULATION	
Symbian_Installer_Fmt	1050	990	Symbian installer format	application/vnd.symbian.install	SIS	adENCAPSULATION	
SO_Drawing_XML_Fmt	1051	316	OpenDocument format (OpenOffice 1/StarOffice 6.7) Drawing XML	application/vnd.sun.xml.draw	SXD	adVECTORGRAPHIC	<a href="#">kpodfrdr</a>



Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
SO_Text_Global_XML_Fmt	1052	991	OpenDocument format (OpenOffice 1/StarOffice 6.7) Writer Master document XML	application/vnd.sun.xml.writer.global	SXG	adWORDPROCESSOR	
ODF_Chart_Fmt	1053	992	ODF Chart	application/vnd.oasis.opendocument.chart	ODC	adVECTORGRAPHIC	
ODF_Database_Fmt	1054	993	ODF Database	application/vnd.sun.xml.base	ODB	adDATABASE	
ODF_Image_Fmt	1055	994	ODF Image	application/vnd.oasis.opendocument.image	ODI	adRASTERIMAGE	
ODF_Text_Master_Fmt	1056	995	ODF Text Master	application/vnd.oasis.opendocument.text-master	ODM	adWORDPROCESSOR	
ODF_Text_Web_Fmt	1057	996	ODF Text Web	application/vnd.oasis.opendocument.text-web	OTH	adWORDPROCESSOR	
ODF_Chart_Template_Fmt	1058	997	ODF Chart Template	application/vnd.oasis.opendocument.chart-template	OTC	adVECTORGRAPHIC	
ODF_Formula_Template_Fmt	1059	998	ODF Formula Template	application/vnd.oasis.opendocument.formula-template	OTF	adWORDPROCESSOR	<a href="#">unzip</a>
ODF_Drawing_Template_Fmt	1060	316	ODF Drawing/Graphics Template	application/vnd.oasis.opendocument.graphics-template	OTG	adVECTORGRAPHIC	<a href="#">kpodfrdr</a>
ODF_Image_Template_Fmt	1061	999	ODF Image Template	application/vnd.oasis.opendocument.image-template	OTI	adRASTERIMAGE	
ODF_Presentation_Template_Fmt	1062	316	ODF Presentation Template	application/vnd.oasis.opendocument.presentation-template	OTP	adPRESENTATION	<a href="#">kpodfrdr</a>
ODF_Spreadsheet_Template_Fmt	1063	315	ODF Spreadsheet Template	application/vnd.oasis.opendocument.spreadsheet-template	OTS	adSPREADSHEET	<a href="#">odfsssr</a>
ODF_Text_Template_Fmt	1064	314	ODF Text Template	application/vnd.oasis.opendocument.text-template	OTT	adWORDPROCESSOR	<a href="#">odfwpsr</a>
ODF_Chart_XML_Fmt	1065	1000	ODF Chart flat XML format	application/vnd.oasis.opendocument.chart.xml	FODC	adVECTORGRAPHIC	
ODF_Drawing_XML_Fmt	1066	1001	ODF Drawing/Graphics flat XML format	application/vnd.oasis.opendocument.formula.xml	FODG	adWORDPROCESSOR	
ODF_Formula_XML_Fmt	1067	1002	ODF Formula flat XML format	application/vnd.oasis.opendocument.graphics.xml	FODF	adVECTORGRAPHIC	
ODF_Image_XML_Fmt	1068	1003	ODF Image flat XML format	application/vnd.oasis.opendocument.image.xml	FODI	adRASTERIMAGE	
ODF_Presentation_XML_Fmt	1069	1004	ODF Presentation flat XML format	application/vnd.oasis.opendocument.presentation.xml	FODP	adPRESENTATION	
ODF_Spreadsheet_XML_Fmt	1070	1005	ODF Spreadsheet flat XML format	application/vnd.oasis.opendocument.spreadsheet.xml	FODS	adSPREADSHEET	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
ODF_Text_XML_Fmt	1071	1006	ODF Text flat XML format	application/vnd.oasis.opendocument.text.xml	FODT	adWORDPROCESSOR	
ODF_Extension_Fmt	1072	1007	ODF Extension format	application/vnd.openofficeorg.extension	OXT	adMISC	
StarView_Metafile_Fmt	1073	1008	OpenOffice StarView MetaFile format	image/x-svm	SVM	adRASTERIMAGE	
BBeB_LRF_eBook_Fmt	1074	1009	Broad Band eBook (BBeB) in LRF format	application/x-ext-lrf	LRF	adWORDPROCESSOR	
GPG_Trust_DB_Fmt	1075	1010	GPG trust database format		GPG	adMISC	
VICE_Emulator_Fmt	1076	1011	VICE (Versatile Commodore Emulator) format		VSF	adMISC	
Portable_Game_Notation_Fmt	1077	1012	Portable Game Notation chess format	application/vnd.chess-pgn	PGN	adWORDPROCESSOR	
Doom_WAD_Fmt	1078	1013	Doom IWAD/PWAD format	application/x-doom	WAD	adMISC	
Device_Tree_Blob_Fmt	1079	1014	Linux Device Tree Blob format		DTB	adMISC	
BDF_Font_Fmt	1080	1015	Glyph Bitmap Distribution Format	application/x-font-bdf	BDF	adFONT	
PC_Screen_Font_Fmt	1081	1016	PC Screen Font format	application/x-font-psf	PSF	adFONT	
JNLP_Fmt	1082	1017	Java Network Launching Protocol	application/x-java-jnlp-file	JNLP	adWORDPROCESSOR	<a href="#">xmlsr</a>
XAML_Browser_Application_Fmt	1083	1018	XAML Browser Application (XBAP) format	application/x-ms-xbap	XBAP	adWORDPROCESSOR	<a href="#">xmlsr</a>
MS_Binder_Fmt	1084	1019	Microsoft Office Binder format	application/x-msbinder	OBP	adENCAPSULATION	
XAP_Fmt	1085	1020	Microsoft Silverlight application (XAP) format	application/x-silverlight-app	XAP	adENCAPSULATION	
Stuffit_X_Fmt	1086	1021	Stuffit X (SITX) archive format	application/x-stuffitx	SITX	adENCAPSULATION	
FIG_Fmt	1087	1022	Facility for Interactive Generation of figures (FIG) image format	application/x-fig	FIG	adVECTORGRAPHIC	
XPIInstall_Fmt	1088	1023	XPIInstall Cross-Platform Installer Module (XPI) format	application/x-xpinstall	XPI	adENCAPSULATION	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
XDF_Fmt	1089	1024	Extensible Data Format (XDF) XML format		XDF	adWORDPROCESSOR	<a href="#">xmlsr</a>
MXML_Fmt	1090	1025	MXML UI markup language XML format		MXML	adWORDPROCESSOR	<a href="#">xmlsr</a>
MusicXML_Fmt	1091	1026	MusicXML format	application/vnd.recordare.musicxml	MXL	adENCAPSULATION	<a href="#">xmlsr</a>
Finale_Fmt	1092	1027	Finale audio format		MUS	adSOUND	
Spotfire_DXP_Fmt	1093	1028	TIBCO Spotfire DXP data format	application/vnd.spotfire.dxp	DXP	adANALYTICS	
MS_Office_Theme_2007_Fmt	1094	1029	Microsoft Office theme format	application/vnd.ms-officetheme	THMX	adMISC	
Adobe_AIR_Installer_Fmt	1095	1030	Adobe AIR application installer package	application/vnd.adobe.air-application-installer-package+zip	AIR	adENCAPSULATION	
Flex_Project_Fmt	1096	1031	Adobe Flash Flex project file format	application/vnd.adobe.fxp	FXP	adENCAPSULATION	
FoxPro_Fmt	1097	1032	FoxPro compiled source format		FXP	adLIBRARY	
VST_Preset_Fmt	1098	1033	Virtual Studio Technology (VST) preset format		FXP	adSOUND	
Mischief_Image_Fmt	1099	1034	Mischief vector graphics image format		ART	adVECTORGRAPHIC	
FreeArc_Fmt	1100	1035	FreeArc archive format	application/x-freearc	ARC	adENCAPSULATION	
Autodesk_3ds_Fmt	1101	1036	Autodesk 3ds format	application/x-3ds	3DS	adCAD	
Monkeys_Audio_Fmt	1102	1037	Monkey's Audio format		APE	adSOUND	
CALS_Fmt	1103	1038	CALS raster image format		CAL	adRASTERIMAGE	
Dr_Halo_PAL_Fmt	1104	1039	Dr Halo raster image PAL file format		PAL	adRASTERIMAGE	
DPG_Fmt	1105	1040	Nintendo DS DPG video format		DPG	adMOVIE	
JPEG_XR_Fmt	1106	1041	JPEG XR (extended range) image format	image/vnd.ms-photo	JXR, HDP	adRASTERIMAGE	
TCR_eBook_Fmt	1107	1042	TCR/ZVR (Text Compression for Reader) eBook format		TCR, ZVR	adWORDPROCESSOR	
IHEX_Fmt	1108	1043	Intel Hex format		IHEX	adENCAPSULATION	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
QCOW_Fmt	1109	1044	QEMU Copy On Write		QCOW	adENCAPSULATION	
VDI_Fmt	1110	1045	VirtualBox Disk Image		VDI	adENCAPSULATION	
OneNote_Alternate_Fmt	1111	1046	OneNote Alternative Packaging Format			adWORDPROCESSOR	<a href="#">onealtsr</a>
RMS_Protected_Fmt	1112	1047	Rights Management Services (RMS)-protected format		PFILE, PPDF, PJPG, PTXT	adWORDPROCESSOR	<a href="#">pfilesr</a>
Portfolio_PDF_Fmt	1113	1048	Portfolio PDF File	application/pdf	PDF	adWORDPROCESSOR	<a href="#">pdfsr</a>
Crystal_Reports_Fmt	1114	1049	SAP Crystal Reports format	application/x-rpt	RPT	adANALYTICS	
Thumbs_db_Fmt	1115	1050	Microsoft Windows thumbs.db format		DB	adENCAPSULATION	
PagePlus_Fmt	1116	1051	Serif PagePlus format		PPP	adDESKTOPPUBLSH	
MS_Project_Exchange_Fmt	1117	1052	Microsoft Project Exchange format		MPX	adSCHEDULE	
MS_Management_Pack_MPX_Fmt	1118	1053	Microsoft Systems Center Operation Manager (SCOM) management pack MPX format		MPX	adMISC	<a href="#">xmlsr</a>
AutoCAD_VBA_Project_Fmt	1119	1054	AutoCAD VBA project format		DVB	adMISC	
PLY_ASCII_Fmt	1120	1055	Polygon File Format (PLY) ASCII format		PLY	adCAD	
PLY_Binary_Fmt	1121	1056	Polygon File Format (PLY) binary format		PLY	adCAD	
JavaView_JVX_Fmt	1122	1057	JavaView XML (JVX) format		JVX	adCAD	<a href="#">xmlsr</a>
X3D_Fmt	1123	1058	Extensible 3d Graphics (X3D) XML format	model/x3d+xml	X3D	adCAD	
ZBrush_Project_Fmt	1124	1059	ZBrush ZProject (ZPR) format		ZPR	adCAD	
ZBrush_Tool_Fmt	1125	1060	ZBrush ZTtool (ZTL) format		ZTL	adCAD	
Windows_Installer_Patch_Fmt	1126	1061	Microsoft Windows Installer Patch Package (MSP) format		MSP	adENCAPSULATION	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Windows_Installer_Transform_Fmt	1127	1062	Microsoft Windows Installer Transform (MST) format		MST	adENCAPSULATION	
Lotus_Approach_Fmt	1128	1063	Lotus Approach format	application/vnd.lotus-approach	APR, MPR	adDATABASE	
Outlook_SendRcv_Settings_Fmt	1129	1064	Microsoft Outlook 2002 Send-Receive Settings		SRS	adMISC	
MS_Publisher_Scheme_Fmt	1130	1065	Microsoft Publisher colour scheme		SCM	adMISC	
SO_Chart_Fmt	1131	1066	Star Office 4,5 Chart	application/vnd.stardivision.chart	SDS	adVECTORGRAPHIC	
SO_Database_Fmt	1132	1067	Star Office 4,5 Database	application/vnd.stardivision.base	SDB	adDATABASE	
SO_Library_Fmt	1133	1068	Star Office 4,5 Library		SBL	adLIBRARY	
PageMaker_Document_Fmt	1134	1069	Adobe PageMaker document	application/pagemaker	PMD	adDESKTOPPUBLSH	
MS_DTS_Fmt	1135	1070	Microsoft Data Transformation Services (DTS) package file		DTS	adMISC	
Cognos_PowerPlay_PPR_Fmt	1136	1071	Cognos PowerPlay up to version 7 (PPR) format		PPR	adANALYTICS	
Visual_Studio_SUO_Fmt	1137	1072	Microsoft Visual Studio solution user options (suo) file		SUO	adMISC	
MS_GraphEdit_Fmt	1138	1073	Microsoft GraphEdit File format		GRF	adMISC	
ArcGIS_Graph_Fmt	1139	1074	ArcGIS Graph format		GRF	adGIS	
SID_Audio_Fmt	1140	1075	SID Audio format	audio/prs.sid	SID	adSOUND	
MrSID_Fmt	1141	1076	LizardTech MrSID image format	image/x-mrsid	SID	adRASTERIMAGE	
Cardfile_Fmt	1142	1077	Microsoft Windows Cardfile address book format	application/x-mscardfile	CRD	adWORDPROCESSOR	
MS_Word_Mac_4_Fmt	1143	205	Microsoft Word for Macintosh (version 4,5)	application/msword	DOC	adWORDPROCESSOR	<a href="#">mbsr</a>
WordPerfect_5_Fmt	1144	80	WordPerfect (version 5)	application/x-corel-wordperfect	WOP, DOC	adWORDPROCESSOR	<a href="#">wosr</a>
WordPerfect_6_Fmt	1145	178	Corel WordPerfect (version 6 and higher)	application/x-corel-wordperfect	WPD	adWORDPROCESSOR	<a href="#">wp6sr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
WordPerfect_Graphics_1_Fmt	1146	85	WordPerfect Graphics (version 1)	application/vnd.wordperfect	WPG, QPG	adRASTERIMAGE, adVECTORGRAPHIC	
Organization_Chart_Fmt	1147	1078	OrgPlus Organization Chart	application/orgplus	OPX	adDATABASE	
Lotus_Organizer_Fmt	1148	1079	Lotus Organizer documents	application/vnd.lotus-organizer	OR2, OR3, OR4, OR5, OR6	adSCHEDULE	
MS_DBML_Fmt	1149	1080	Microsoft Database Markup Language XML document		DBML	adWORDPROCESSOR	
XMind_Fmt	1150	1081	XMind document	application/xmind	XMIND	adPRESENTATION	
MSI_Cerius_Fmt	1151	1082	MSI Cerius chemical formula document	chemical/x-cerius	MSI	adSCIENTIFIC	
GenBank_Fmt	1152	1083	GenBank DNA character sequence document	chemical/x-genbank	GB	adSCIENTIFIC	
GIS_World_File_Fmt	1153	1084	ESRI GIS World file		BPW, GFW, JGW, J2W, PGW, SDW, TFW, WLD	adGIS	<a href="#">afsr</a>
GIS_Projection_Metadata_Fmt	1154	1085	ESRI Projection Metadata (PRJ) file		PRJ	adGIS	
PowerWorld_Binary_Fmt	1155	1086	PowerWorld Binary (PWB) file		PWB	adCAD	
PowerWorld_Display_Fmt	1156	1087	PowerWorld Display (PWD) file		PWD	adCAD	
ArcXML_Fmt	1157	1088	ESRI ArcIMS project XML file (ArcXML)		AXL	adGIS	
GAMS_GDX_Fmt	1158	1089	General Algebraic Modeling System (GAMS) Data Exchange (GDX) format		GDX	adSCIENTIFIC	
ArcMap_MXD_Fmt	1159	1090	ArcMap Map Exchange Document project (MXD)		MXD	adGIS	
RRDtool_Fmt	1160	1091	RRDtool (Round Robin Database) data file		RRD	adDATABASE	
HWPX_Fmt	1161	1092	Hangul HWPX document	application/hwp+zip	HWPX	adWORDPROCESSOR	
SolidWorks_2015_Fmt	1162	1093	SolidWorks (2015 onwards) file		SLDPRT, SLDDRW,	adCAD	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
					SLDASM		
MS_Photo_Editor_Fmt	1163	1094	Microsoft Photo Editor 'embedded GIF' file	application/vnd.ms-photo-editor		adRASTERIMAGE	
MS_Word_HTML_Fmt	1164	1095	Microsoft Word HTML format		DOC, HTM	adWORDPROCESSOR	
MS_Excel_HTML_Fmt	1165	1096	Microsoft Excel HTML format		XLS, HTM	adWORDPROCESSOR	
Portable_FloatMap_Fmt	1166	1097	Portable FloatMap (PFM) image	image/x-portable-floatmap	PFM	adRASTERIMAGE	
RGBE_Fmt	1167	1098	Radiance RGBE (HDR) image	image/vnd.radiance	HDR, PIC, RGBE, XYZE	adRASTERIMAGE	
APNG_Fmt	1168	1099	Animated Portable Network Graphics (Animated-PNG)	image/apng	APNG, PNG	adANIMATION	<a href="#">kppngrdr</a>
Enhanced_Compressed_Wavelet_Fmt	1169	1100	Enhanced Compressed Wavelet image	image/ecw	ECW	adRASTERIMAGE	
Ensoniq_Waveset_Fmt	1170	1101	Ensoniq Waveset audio data file		ECW	adSOUND	
Corel_Photo_Paint_Fmt	1171	1102	Corel Photo Paint (version 7 and higher)	image/x-corelphotopaint	CPT	adRASTERIMAGE	
OpenRaster_Fmt	1172	1103	OpenRaster image	image/openraster	ORA	adRASTERIMAGE	
Krita_Fmt	1173	1104	Krita image	application/x-krita	KRA	adRASTERIMAGE	
Gerber_Fmt	1174	1105	Gerber image format	application/vnd.gerber	GBR	adVECTORGRAPHIC	
PGML_Fmt	1175	1106	Precision Graphics Markup Language		PGML	adVECTORGRAPHIC	
Away3D_Fmt	1176	1107	Away3D scene file		AWD	adCAD	
CAD_3MF_Fmt	1177	1108	3D Manufacturing Format document	application/vnd.ms-package.3dmanufacturing-3dmodel+xml	3MF	adCAD	
AMF_Fmt	1178	1109	Additive manufacturing file format (AMF) document	application/x-amf	AMF	adCAD	<a href="#">xmlsr</a>
C3D_Fmt	1179	1110	Coordinate 3D (C3D) format		C3D	adCAD	
CAD_3DSystems_BFF_Fmt	1180	1111	3D Sprint (3D Systems) SLA Build file		BFF	adCAD	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
NRRD_Fmt	1181	1112	NRRD (nearly raw raster data) image format		NRRD	adRASTERIMAGE	
Cinema_4D_Fmt	1182	1113	Cinema 4D model		C4D	adCAD	
FBX_ASCII_Fmt	1183	1114	Kaydara FBX project (ASCII)		FBX	adCAD	
FBX_Binary_Fmt	1184	1115	Kaydara FBX project (binary)		FBX	adCAD	
Wavefront_OBJ_Fmt	1185	1116	Wavefront OBJ geometry definition file		OBJ	adCAD	
Wavefront_MTL_Fmt	1186	1117	Wavefront Material Template Library (MTL)		MTL	adCAD	
MS_Power_BI_Template_Fmt	1187	1118	Microsoft Power BI Desktop template format		PBIT	adANALYTICS	
Windows_Sticky_Notes_Fmt	1188	1119	Microsoft Windows Sticky Notes format		SNT	adWORDPROCESSOR	
BlakHole_Fmt	1189	1120	BlakHole compression format		BH	adENCAPSULATION	
PowerArchiver_Fmt	1190	1121	PowerArchiver PA compression format		PA	adENCAPSULATION	
PageMagic_Fmt	1191	1122	NEBS PageMagic format		DTP	adDESKTOPPUBLSH	
PIM_Archiver_Fmt	1192	1123	PIM Archiver format		PIM	adENCAPSULATION	
Softdisk_Text_Compressor_Fmt	1193	1124	Softdisk Text Compressor format		CTX	adENCAPSULATION	
Ability_PhotoPaint_Fmt	1194	1125	Ability Office PhotoPaint image		APX	adRASTERIMAGE	
Softlib_Fmt	1195	1126	Softdisk Softlib compression format		SLB	adENCAPSULATION	
Timeworks_Publisher_Fmt	1196	1127	Timeworks Publisher (Publish It) format		DTP	adDESKTOPPUBLSH	
Scribe_Fmt	1197	1128	Scribe markup language and word processing system		MSS	adWORDPROCESSOR	<a href="#">afsr</a>
SQLite_Write_Ahead_Log_Fmt	1198	1129	SQLite Write-Ahead Log file		WAL	adDATABASE	
SQLite_WAL_Index_Fmt	1199	1130	SQLite WAL-index (shm)		SHM	adDATABASE	



Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
			file				
AutoForm_Design_Fmt	1200	1131	AutoForm Design file		AFD	adCAD	
TSV_Fmt	1201	1132	Tab-separated values (TSV) file	text/tab-separated-values	TSV, TAB	adWORDPROCESSOR	<a href="#">afsr</a> , <a href="#">afsr</a>
OpenStreetMap_XML_Fmt	1202	1133	OpenStreetMap XML data		OSM	adGIS	
OpenStreetMap_PBF_Fmt	1203	1134	OpenStreetMap Protocolbuffer Binary Format data file (.osm.pbf)		PBF	adGIS	
Nero_Audio_Compilation_Fmt	1204	1135	Nero Audio-CD compilation file		NRA	adMISC	
Nero_ISO_Compilation_Fmt	1205	1136	Nero ISO compilation file		NRI	adMISC	
WordStar_for_Windows_Fmt	1206	1137	WordStar for Windows file		WSD	adWORDPROCESSOR	<a href="#">stringssr</a>
MS_Outlook_PAB_Fmt	1207	1138	Microsoft Outlook Personal Address Book (PAB)		PAB	adMISC	
HLSL_FXO_Fmt	1208	1139	DirectX High-Level Shader Language (HLSL) pre-compiled shader		FXO	adCAD	
HLSL_CSO_Fmt	1209	1140	DirectX High-Level Shader Language (HLSL) compiled shader object		CSO	adCAD	
Oberon_Document_Fmt	1210	1141	Component Pascal / Oberon Document file		ODC	adSOURCECODE	
Oberon_Symbol_Fmt	1211	1142	Component Pascal / Oberon Symbol file		OSF	adOBJECTMODULE	
Oberon_Code_Fmt	1212	1143	Component Pascal / Oberon Code (executable and loadable object) file		OCF	adEXECUTABLE	
Python_Bytecode_Fmt	1213	1144	Python compiled bytecode	application/x-bytecode.python	PYC	adEXECUTABLE	
PCPaint_Fmt	1214	1145	PCPaint / Pictor Paint image format		PIC	adRASTERIMAGE	
PCRaster_Map_Fmt	1215	1146	PCRaster Map / Cross System Format		MAP, CSF	adGIS	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
			geographical data				
COM_Type_Library_Fmt	1216	1147	Microsoft Component Object Model (COM) Type library		TLB	adLIBRARY	
MS_Visual_C_Export_Fmt	1217	1148	Microsoft Visual C++ Export file		EXP	adLIBRARY	
Lotus_Organizer_Report_Fmt	1218	1149	Lotus Organizer report document		REP	adSCHEDULE	
Audible_Audiobook_AA_Fmt	1219	1150	Audible Audiobook (AA) file	audio/audible	AA	adSOUND	
DOS_RED_Fmt	1220	1151	MS-DOS RED installer library format		RED	adLIBRARY	
CA_ZIPXP_Fmt	1221	1152	CA Technologies ZIPXP compressed document		CAZ	adENCAPSULATION	
Kindle_Topaz_Fmt	1222	1153	Amazon Kindle Topaz eBook		AZW, AZW1, TPZ	adWORDPROCESSOR	
Windows_Shim_Database_Fmt	1223	1154	Microsoft Windows Shim Database file		SDB	adDATABASE	
MS_Incremental_Linker_Fmt	1224	1155	Microsoft Visual Studio incremental linker file		ILK	adMISC	
Lotus_Smart_Icon_Fmt	1225	1156	Lotus Smart Icon image file		SMI	adRASTERIMAGE	
Lotus_Organizer_Layout_Fmt	1226	1157	Lotus Organizer print/paper layout file		PLT	adSCHEDULE	
CMZ_Fmt	1227	1158	CMZ compression format		CMZ	adENCAPSULATION	
RFFlow_Fmt	1228	1159	RFFlow flowchart document		FLO	adPRESENTATION	
InstallShield_Script_Fmt	1229	1160	InstallShield script document		INS	adENCAPSULATION	
InstallShield_Rules_Fmt	1230	1161	InstallShield Compiled Rules file		INX	adENCAPSULATION	
Windows_FTS_Fmt	1231	1162	Microsoft Windows 95/NT help full-text-search file		FTS	adDATABASE	
DVD_Info_Fmt	1232	1163	DVD Information (IFO) file	content/dvd	IFO	adDATABASE	
Emacs_Lisp_Bytecode_	1233	1164	Byte-compiled Lisp	application/x-bytecode.elisp	ELC	adEXECUTABLE	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Fmt			(Emacs/XEmacs)				
Windows_Resource_Fmt	1234	1165	Microsoft Windows binary resource file		RES	adMISC	
MS_Precompiled_Header_Fmt	1235	1166	Microsoft Visual C/C++ binary pre-compiled header		PCH	adMISC	
Borland_Turbo_Project_Fmt	1236	1167	Borland Turbo C project file		PRJ	adMISC	
PS_Font_Descriptor_Fmt	1237	1168	PostScript binary Font Descriptor file		NTF	adFONT	
MySQL_Index_Fmt	1238	1169	MySQL MyISAM Table index		MYI	adDATABASE	
MS_SQL_Fmt	1239	1170	Microsoft SQL Server primary database file		MDF	adDATABASE	
DNL_eBook_Fmt	1240	1171	DNAML DNL eBook		DNL	adWORDPROCESSOR	
GD_Image_Fmt	1241	1172	GD Library image		GD, GD2	adRASTERIMAGE	
iTunes_Library_Fmt	1242	1173	Apple iTunes music library		ITL	adDATABASE	
MS_SQM_Fmt	1243	1174	Microsoft Windows Live Messenger/Mail log file		SQM	adMISC	
VIFF_Fmt	1244	1175	Khoros Visualization Image File Format (VIFF)	image/x-viff	XV, VIF, VIFF	adRASTERIMAGE	
JBIG_Fmt	1245	1176	JBIG (JBIG1) image	image/jbig	JBG, JBIG, BIE	adRASTERIMAGE	
CodeWarrior_Project_Fmt	1246	1177	CodeWarrior C/C++ project		MCP	adMISC	
PaintShop_Pro_JBF_Fmt	1247	1178	PaintShop Pro JBF image cache file	image/jbf	JBF	adMISC	
Delphi_Diagram_Portfolio_Fmt	1248	1179	Delphi Diagram Portfolio file		DDP	adMISC	
Adobe_Swatch_Exchange_Fmt	1249	1180	Adobe Swatch Exchange Format		ASE, ASEF	adRASTERIMAGE	
ASCII_Scene_Exporter_Fmt	1250	1181	Autodesk 3ds Max ASCII Scene Exporter file		ASE	adCAD	
AVR_Fmt	1251	1182	AVR (Audio Visual Research) format		AVR	adSOUND	
Winamp_AVS_Fmt	1252	1183	Winamp AVS (Advanced		AVS	adSOUND	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
			Visualization Studio) plug-in file				
After_Effects_Project_Fmt	1253	1184	Adobe After Effects project		AEP	adMOVIE	
Anfy_Applet_Generator_Fmt	1254	1185	Anfy (Java) Applet Generator file		AJP	adMISC	
SmartCipher_Fmt	1255	1186	SmartCipher encrypted file			adENCAPSULATION	
General_Exchange_Fmt	1256	1187	General Exchange Format (GXF)	application/gxf	GXF	adMOVIE	
Maxis_XA_Fmt	1257	1188	Maxis XA audio file		XA	adSOUND	
NUT_Fmt	1258	1189	NUT Open Container Format		NUT	adMOVIE	
OpenMG_Audio_Fmt	1259	1190	Sony OpenMG Audio (OMA) container file		OMA, OMG	adSOUND	
TXD_Fmt	1260	1191	Renderware Texture Dictionary (TXD) file		TXD	adRASTERIMAGE	
DFA_Fmt	1261	1192	DreamForge DFA FMV format		DFA	adMOVIE	
FunCom_ISS_Fmt	1262	1193	FunCom ISS audio		ISS	adSOUND	
Sony_MSV_Fmt	1263	1194	Sony Compressed Audio (MSV/DVF)		DVF, ICS, MSV	adSOUND	
THP_Fmt	1264	1195	GameCube THP Video		THP	adMOVIE	
Smush_Animation_Fmt	1265	1196	Smush Animation Format (SAN)		SAN, NUT	adANIMATION	
SIFF_Audio_Fmt	1266	1197	Beam Software SIFF audio file		SON	adSOUND	
SNES_SPC_Fmt	1267	1198	SNES SPC700 audio file		SPC	adSOUND	
Sierra_VMD_Fmt	1268	1199	Sierra Video and Music Data format		VMD	adMOVIE	
VTech_MJP_Fmt	1269	1200	VTech MHP video format		MJP	adMOVIE	
Nullsoft_Video_Fmt	1270	1201	Nullsoft Video format (NSV)		NSV	adMOVIE	
Shorten_Fmt	1271	1202	Shorten audio file		SHN	adSOUND	
Leitch_Video_Fmt	1272	1203	Leitch Exchange Format		LXF	adMOVIE	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
			video (LXF)				
ETV_Fmt	1273	1204	ETV video file		ETV	adMOVIE	
TAK_Audio_Fmt	1274	1205	TAK audio file		TAK	adSOUND	
Maelstrom_ANM_Fmt	1275	1206	Maelstrom ANM animation		ANM	adANIMATION	
SW_ANM_Fmt	1276	1207	Savage Warriors ANM animation		ANM	adANIMATION	
DeluxePaint_Animation_Fmt	1277	1208	DeluxePaint animation		ANM	adANIMATION	
Crack_Art_Fmt	1278	1209	Crack Art image		CA1	adRASTERIMAGE	
Time_Shift_Video_Fmt	1279	1210	Time Shift Video (TSV) format		TSV	adMOVIE	
XBV_Fmt	1280	1211	XBV video		XBV	adMOVIE	
HNM4_Fmt	1281	1212	CRYO HNM4 video		HNM	adMOVIE	
HNM6_Fmt	1282	1213	CRYO HNM6 video		HNM, HNS	adMOVIE	
NXV_Fmt	1283	1214	NXV video		NXV	adMOVIE	
VP5_Fmt	1284	1215	On2 VP5 video		VP5	adMOVIE	
FutureVision_FST_Fmt	1285	1216	FutureVision FST video		FST	adMOVIE	
Electronic_Arts_Audio_Fmt	1286	1217	Electronic Arts audio file		STR	adSOUND	
YOP_Fmt	1287	1218	Psygnosis YOP video		YOP	adMOVIE	
Matrox_Setup_Program_Fmt	1288	1219	Matrox Setup Program Archive MVA file		MVA	adMISC	
Vivado_Design_Suite_Fmt	1289	1220	Xilinx Vivado Design Suite file		VDS	adMISC	
Meridian_Lossless_Packing_Fmt	1290	1221	Meridian Lossless Packing Audio file		MLP	adSOUND	
Electronic_Arts_SEAD_Fmt	1291	1222	Electronic Arts SEAD audio		TGV	adSOUND	
Electronic_Arts_MPC_Fmt	1292	1223	Electronic Arts MPC video		MPC	adMOVIE	
PMP_Fmt	1293	1224	PMP video		PMP	adMOVIE	
DEGAS_Fmt	1294	1225	DEGAS (Design &		PI1, PI2, PI3	adRASTERIMAGE	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
			Entertainment Graphic Arts System) image				
DEGAS_Compressed_Fmt	1295	1226	DEGAS (Design & Entertainment Graphic Arts System) compressed image		PC1, PC2, PC3	adRASTERIMAGE	
AutoCAD_Plotter_Fmt	1296	1227	AutoCAD Plot Style and Configuration files		CTB, STB, PC3, PMP	adCAD	
Tiny_Stuff_Fmt	1297	1228	Tiny Stuff image		TNY, TN1, TN2, TN3, TN4, TN5, TN6	adRASTERIMAGE	
JV_Video_Fmt	1298	1229	Bitmap Brothers JV video		JV	adMOVIE	
REDCode_Fmt	1299	1230	REDCode video format		R3D	adMOVIE	
SIFF_Video_Fmt	1300	1231	Beam Software SIFF video file		VB	adMOVIE	
VP6_Fmt	1301	1232	On2 VP6 video		VP6	adMOVIE	
MTV_Fmt	1302	1233	Chinese MP4/MTV video		MTV	adMOVIE	
RSO_Fmt	1303	1234	Mindstorm RSO audio		RSO	adSOUND	
Star3_Fmt	1304	1235	Creative Labs Star 3 audio		ST3	adSOUND	
DXA_Fmt	1305	1236	Runesoft DXA video		DXA	adMOVIE	
MTH_Fmt	1306	1237	Nintendo GameCube video file		MTH	adMOVIE	
MAD_Fmt	1307	1238	Electronic Arts MAD video file		MAD	adMOVIE	
Bink2_Fmt	1308	1239	Bink Video 2 audio-video container		BIK, BK2	adMOVIE	
PVA_Fmt	1309	1240	TechnoTrend PVA video		PVA	adMOVIE	
Interplay_ACMP_Fmt	1310	1241	Interplay ACMP audio			adSOUND	
Ipix_Fmt	1311	1242	Ipix spherical image		IPX	adRASTERIMAGE	
IVR_Fmt	1312	1243	RealNetworks Internet Video Recording (IVR) file		IVR	adMOVIE	
NuppelVideo_Fmt	1313	1244	NuppelVideo file		NUV	adMOVIE	
VFlash_PTX_Fmt	1314	1245	VTech V.Flash VTX image		PTX	adRASTERIMAGE	
PMD_Ringtone_Fmt	1315	1246	Polyphonic Ringtone PMD	application/x-pmd	PMD	adSOUND	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
			audio				
RoQ_Fmt	1316	1247	RoQ video		ROQ	adMOVIE	
CRYO_APC_Fmt	1317	1248	CRYO Interactive APC audio		APC, HNM, BF, ZIK	adSOUND	
VGZ_Fmt	1318	1249	VGZ video		VGZ	adMOVIE	
Novastorm_Video_Fmt	1319	1250	Novastorm Media video file		FA, FLM	adMOVIE	
UTalk_Fmt	1320	1251	MicroTalk/UTalk audio		UTK	adSOUND	
Xbox_XMV_Fmt	1321	1252	Microsoft Xbox XMV video		XMV	adMOVIE	
AbiWord_Fmt	1322	1253	AbiWord document	application/x-abiword	ABW	adWORDPROCESSOR	
AbiWord_Template_Fmt	1323	1254	AbiWord template		ABT	adWORDPROCESSOR	
Psion_Word_Fmt	1324	1255	Psion EPOC Word document		PSI, PSITEXT	adWORDPROCESSOR	<a href="#">stringssr</a>
Psion_Sheet_Fmt	1325	1256	Psion EPOC Sheet spreadsheet		PSISHEET	adSPREADSHEET	
Psion_Sketch_Fmt	1326	1257	Psion EPOC Sketch image			adRASTERIMAGE	
Psion_Record_Fmt	1327	1258	Psion EPOC Record audio			adSOUND	
Psion_MBM_Fmt	1328	1259	Psion EPOC Multi-Bitmap (MBM) image		MBM	adRASTERIMAGE	
Psion_TextEd_Fmt	1329	1260	Psion EPOC TextEd file			adWORDPROCESSOR	<a href="#">stringssr</a>
Psion_AIF_Fmt	1330	1261	Psion EPOC Application Information File (AIF)		AIF	adRASTERIMAGE	
Psion_PIC_Fmt	1331	1262	Psion 3 PIC bitmap		PIC	adRASTERIMAGE	
Psion_Object_Fmt	1332	1263	Psion 3 OPL Object File		OPA, OPO	adENCAPSULATION	
Psion_Executable_Fmt	1333	1264	Psion 3 IMG/APP executable		IMG, APP	adEXECUTABLE	
Psion_Sound_Fmt	1334	1265	Psion 3 Sound file		WVE	adSOUND	
Psion_Database_Fmt	1335	1266	Psion EPOC Database			adDATABASE	
Psion_Word_3_Fmt	1336	1267	Psion 3 Word document		WRD	adWORDPROCESSOR	<a href="#">stringssr</a>
Psion_Sheet_3_Fmt	1337	1268	Psion 3 Sheet spreadsheet		SPR	adSPREADSHEET	
Zoner_Draw_Fmt	1338	1269	Zoner Draw / Zoner Callisto Metafile (ZMF)		ZMF	adVECTORGRAPHIC	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Zoner_BMI_Fmt	1339	1270	Zoner BMI image		BMI	adRASTERIMAGE	
TealDoc_Fmt	1340	1271	TealDoc PalmOS eBook		PDB	adWORDPROCESSOR	
TealPaint_Fmt	1341	1272	TealPaint PalmOS eBook		PDB	adWORDPROCESSOR	
PalmDOC_Fmt	1342	1273	PalmDOC / Aportis DOC eBook	application/x-aportisdoc	PRC, PDB	adWORDPROCESSOR	
QiOO_Fmt	1343	1274	QiOO mobile eBook		JAR	adWORDPROCESSOR	
Plucker_Fmt	1344	1275	Plucker eBook	application/prs.plucker	PDB	adWORDPROCESSOR	
eReader_Fmt	1345	1276	eReader (Palm Reader/ Peanut Reader) eBook		PDB	adWORDPROCESSOR	
Quickword_Fmt	1346	1277	PalmOS Quickword document		PRC	adWORDPROCESSOR	<a href="#">stringsr</a>
Quicksheet_Fmt	1347	1278	PalmOS Quicksheet document		PRC	adSPREADSHEET	
Quickpoint_Fmt	1348	1279	PalmOS Quickpoint document		PRC	adPRESENTATION	
TealMeal_Fmt	1349	1280	TealMeal PalmOS database		PDB	adDATABASE	
zTXT_Fmt	1350	1281	zTXT eBook	application/x-pdb-ztxt-ebook	PDB	adWORDPROCESSOR	
TomeRaider_Fmt	1351	1282	TomeRaider eBook		TR	adWORDPROCESSOR	
TomeRaider_PDB_Fmt	1352	1283	TomeRaider PDB eBook		TR2, TR3	adWORDPROCESSOR	
WordSmith_Fmt	1353	1284	PalmOS Wordsmith document			adWORDPROCESSOR	
iSilo_Fmt	1354	1285	PalmOS iSilo document	application/x-pdb-isilo-ebook	PDB	adWORDPROCESSOR	
SuperMemo_Fmt	1355	1286	PalmOS SuperMemo document		KNO, PDB	adWORDPROCESSOR	
BDicty_Fmt	1356	1287	PalmOS BDicty document		PDB	adWORDPROCESSOR	
PalmOS_Executable_Fmt	1357	1288	PalmOS executable	application/vnd.palm	PRC	adEXECUTABLE	
PalmOS_Library_Fmt	1358	1289	PalmOS dynamic library		PRC	adLIBRARY	
Shanda_Bambook_Fmt	1359	1290	Shanda Bambook eBook	application/x-snb-ebook	SNB	adWORDPROCESSOR	
PMLZ_Fmt	1360	1291	Palm Markup Language (PMLZ) eBook		PMLZ	adWORDPROCESSOR	
Rocket_eBook_Fmt	1361	1292	Rocket eBook	application/x-rocketbook	RB	adWORDPROCESSOR	



Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
iBooks_Author_Fmt	1362	1293	Apple iBooks Author eBook	application/vnd.apple.ibauthor	IBA	adWORDPROCESSOR	
Statistica_Spreadsheet_Fmt	1363	1294	Statsoft Statistica Spreadsheet		STA	adSPREADSHEET	
Statistica_Graph_Fmt	1364	1295	Statsoft Statistica Graph File		STG	adVECTORGRAPHIC	
Statistica_Scrollsheet_Fmt	1365	1296	Statsoft Statistica Scrollsheet		SCR	adSPREADSHEET	
Apple_Newton_Package_Fmt	1366	1297	Apple Newton executable/installer/file		PKG	adEXECUTABLE	
Adobe_Zip_Extension_Fmt	1367	1298	Adobe Zip Format Extension Package (ZXP)	application/vnd.adobe.air-ucf-package+zip	ZXP	adENCAPSULATION	
Uniform_Office_Fmt	1368	1299	Uniform Office Format document		UOF	adWORDPROCESSOR	
Uniform_Office_Text_Fmt	1369	1300	Uniform Office Format word processing document	application/vnd.uof.text	UOF, UOT	adWORDPROCESSOR	
Uniform_Office_Spreadsheet_Fmt	1370	1301	Uniform Office Format spreadsheet	application/vnd.uof.spreadsheet	UOF, UOS	adSPREADSHEET	
Uniform_Office_Presentation_Fmt	1371	1302	Uniform Office Format presentation	application/vnd.uof.presentation	UOF, UOP	adPRESENTATION	
Uniform_Office_Zip_Fmt	1372	1303	Uniform Office Format document, zip format		UOF	adWORDPROCESSOR	
Uniform_Office_Text_Zip_Fmt	1373	1304	Uniform Office Format word processing document, zip format	application/vnd.uof.text+zip	UOF, UOT	adWORDPROCESSOR	
Uniform_Office_Spreadsheet_Zip_Fmt	1374	1305	Uniform Office Format spreadsheet, zip format	application/vnd.uof.spreadsheet+zip	UOF, UOS	adSPREADSHEET	
Uniform_Office_Presentation_Zip_Fmt	1375	1306	Uniform Office Format presentation, zip format	application/vnd.uof.presentation+zip	UOF, UOP	adPRESENTATION	
MacDraft_Fmt	1376	1307	MacDraft drawing		DRW, MDD	adCAD	
RagTime_Fmt	1377	1308	RagTime document		RAG, RTD	adDESKTOPPUBLSH	
MacDraw_Fmt	1378	1309	MacDraw drawing			adVECTORGRAPHIC	
Wingz_Fmt	1379	1310	Wingz spreadsheet		WKZ	adSPREADSHEET	
Claris_Draw_Fmt	1380	1311	Claris Draw document			adVECTORGRAPHIC	
BeagleWorks_Word_Fmt	1381	1312	BeagleWorks (later		BW, WPW	adWORDPROCESSOR	<a href="#">stringsr</a>

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
			WordPerfect Works) Word Processor document				
BeagleWorks_Database_Fmt	1382	1313	BeagleWorks (later WordPerfect Works) Database document		BW, WPW	adDATABASE	
BeagleWorks_Spreadsheet_Fmt	1383	1314	BeagleWorks (later WordPerfect Works) Spreadsheet document		BW, WPW	adSPREADSHEET	
BeagleWorks_Paint_Fmt	1384	1315	BeagleWorks (later WordPerfect Works) Paint document		BW, WPW	adRASTERIMAGE	
BeagleWorks_Draw_Fmt	1385	1316	BeagleWorks (later WordPerfect Works) Draw document		BW, WPW	adVECTORGRAPHIC	
GreatWorks_Word_Fmt	1386	1317	Symantec GreatWorks Word Processor document			adWORDPROCESSOR	<a href="#">stringsr</a>
GreatWorks_Outline_Fmt	1387	1318	Symantec GreatWorks Outline document			adOUTLINE	
GreatWorks_Database_Fmt	1388	1319	Symantec GreatWorks Database document			adDATABASE	
GreatWorks_Spreadsheet_Fmt	1389	1320	Symantec GreatWorks Spreadsheet document			adSPREADSHEET	
GreatWorks_Draw_Fmt	1390	1321	Symantec GreatWorks Draw document			adVECTORGRAPHIC	
GreatWorks_Chart_Fmt	1391	1322	Symantec GreatWorks Chart document			adVECTORGRAPHIC	
MS_Works_3_Mac_WP_Fmt	1392	1323	Microsoft Works for Mac, version 3 and 4, Word Processor document	application/x-msworks	MSW, WPS	adWORDPROCESSOR	
MS_Works_3_Mac_DB_Fmt	1393	1324	Microsoft Works for Mac, version 3 and 4, Database	application/x-msworks	WDB	adDATABASE	
MS_Works_3_Mac_SS_Fmt	1394	1325	Microsoft Works for Mac, version 3 and 4, Spreadsheet	application/x-msworks	WKS	adSPREADSHEET	
MS_Works_3_Mac_Comm_Fmt	1395	1326	Microsoft Works for Mac, version 3 and 4, Communications document	application/x-msworks		adCOMMUNICATION	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
MS_Works_3_Mac_Draw_Fmt	1396	1327	Microsoft Works for Mac, version 3 and 4, Draw document	application/x-msworks	MSW	adVECTORGRAPHIC	
SAP_VDS_Fmt	1397	1328	SAP 3d Visual Enterprise VDS document		VDS	adCAD	
ZIPVFS_Fmt	1398	1329	ZIPVFS SQLite compressed read/write database		SQLITE	adDATABASE	
Right_Hemisphere_Material_Fmt	1399	1330	Right Hemisphere Material file		RH, RHM	adCAD	
RH_Thumbnails_Fmt	1400	1331	Right Hemisphere thumbnail collection file		\$RH	adCAD	
Westwood_Studios_Audio_Fmt	1401	1332	Westwood Studios Audio file		AUD	adSOUND	
Shockwave_Stream_Fmt	1402	1333	Shockwave Stream audio-video file		STREAM	adMOVIE	
EGG_Video_Fmt	1403	1334	EGG video file		EGG	adMOVIE	
IRCAM_Fmt	1404	1335	IRCAM audio file		IRCAM	adSOUND	
Sierra_Audio_Fmt	1405	1336	Sierra Entertainment audio file		SOL	adSOUND	
TiVo_Video_Fmt	1406	1337	TiVo video		TY+	adMOVIE	
OptimFROG_Fmt	1407	1338	OptimFROG audio		OFR, OFS	adSOUND	
LPAC_Fmt	1408	1339	Lossless Predictive Audio Compression file		PAC	adSOUND	
RK_Audio_Fmt	1409	1340	RK Audio lossless compressed audio		RKA	adSOUND	
Asylum_Music_Fmt	1410	1341	Asylum Music Format		AMF	adSOUND	
Novastorm_Audio_Fmt	1411	1342	Novastorm Media audio file		SMP	adSOUND	
HHE_Fmt	1412	1343	HHE video		HHE	adMOVIE	
Portable_Voice_Fmt	1413	1344	Portable Voice Format audio		PVF	adSOUND	
CNM_Video_Fmt	1414	1345	Arxel CNM audio-video format		CNM	adMOVIE	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Phantom_Cine_Fmt	1415	1346	Phantom Cine video file		CINE	adMOVIE	
MPEG2_Transport_Stream_Fmt	1416	1347	MPEG-2 Transport Stream video		M2TS	adMOVIE	
Audacity_Project_Fmt	1417	1348	Audacity audio project file	application/x-audacity-project	AUP	adSOUND	
Voltage_VSF_Fmt	1418	1349	Micro Focus Voltage VSF encrypted file		VDF	adENCAPSULATION	
XLIFF_Fmt	1419	1350	XML Localization Interchange File Format (XLIFF)	application/xliff+xml	XLF	adWORDPROCESSOR	
XBRL_Fmt	1420	1351	Extensible Business Reporting Language (XBRL)		XBRL	adWORDPROCESSOR	
AuditXPressX_Fmt	1421	1352	AuditXPressX file		AXPX	adWORDPROCESSOR	
Box_Note_Fmt	1422	1353	Box Note document		BOXNOTE	adWORDPROCESSOR	
Hikvision_DVR_Fmt	1423	1354	Hikvision DVR video			adMOVIE	
Electronic_Arts_TGV_Fmt	1424	1355	Electronic Arts TGV video		TGV	adMOVIE	
Electronic_Arts_TGQ_Fmt	1425	1356	Electronic Arts TGQ video		TGQ	adMOVIE	
Reaper_Video_Fmt	1426	1357	Reaper Video		FMV	adMOVIE	
Lightweight_Video_Fmt	1427	1358	Lightweight Video Format (LVF)		LVF	adMOVIE	
Liquid_Audio_Fmt	1428	1359	Liquid Audio		LQT	adSOUND	
Extended_Instrument_Fmt	1429	1360	eXtended Instrument generic audio tracker		XI	adSOUND	
MAML_Fmt	1430	1361	Microsoft Assistance Markup Language		AML	adWORDPROCESSOR	
MS_Chat_Character_Fmt	1431	1362	Microsoft Comic Chat Character		AVB	adRASTERIMAGE	
MS_Border_Fmt	1432	1363	Microsoft Office Border images		BDR	adRASTERIMAGE	
MS_Binary_Log_Fmt	1433	1364	Microsoft Binary Log file		BLG	adMISC	
MS_Reader_eBook_Fmt	1434	1365	Microsoft Reader eBook file		LIT	adWORDPROCESSOR	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
MS_Reader_Annotations_Fmt	1435	1366	Microsoft Reader annotation file		EBO	adWORDPROCESSOR	
Amazon_KFX_Aux_Fmt	1436	1367	Amazon KFX eBook auxiliary format (2015)		KFX, AZW	adWORDPROCESSOR	
Amazon_KFX_Ion_Fmt	1437	1368	Amazon KFX eBook Ion format (2015)		KFX, AZW, ION	adWORDPROCESSOR	
MS_DPAPI_Fmt	1438	1369	Microsoft Data Protection API (DPAPI) data			adMISC	
MS_Streets_Fmt	1439	1370	Microsoft Streets & Trips map		EST	adGIS	
MS_Fast_Find_Index_Fmt	1440	1371	Microsoft Office Fast Find Index		FFX	adMISC	
MS_Fresh_Paint_Fmt	1441	1372	Microsoft Fresh Paint image		FPPX	adRASTERIMAGE	
MS_Mathematics_Fmt	1442	1373	Microsoft Mathematics worksheet		GCW	adSCIENTIFIC	
MS_Instrument_Definition_Fmt	1443	1374	Microsoft MIDI Instrument Definition File		IDF	adSOUND	
MS_Pocket_Streets_Fmt	1444	1375	Microsoft Pocket Streets map		MPS	adGIS	
Obfuscated_OpenType_Fmt	1445	1376	Obfuscated OpenType font (ODTTF)	application/vnd.ms-package.obfuscated-opentype	ODTTF	adFONT	
Pfaff_PCS_Fmt	1446	1377	Pfaff PCS embroidery image		PCS	adVECTORGRAPHIC	
Janome_JEF_Fmt	1447	1378	Janome JEF embroidery format		JEF	adVECTORGRAPHIC	
Husqvarna_HUS_Fmt	1448	1379	Husqvarna Viking HUS embroidery format		HUS	adVECTORGRAPHIC	
Husqvarna_VIP_Fmt	1449	1380	Husqvarna Viking-Pfaff VIP embroidery format		VIP	adVECTORGRAPHIC	
Brother_PEC_Fmt	1450	1381	Brother PEC embroidery format		PEC	adVECTORGRAPHIC	
Brother_PES_Fmt	1451	1382	Brother PES embroidery format		PES	adVECTORGRAPHIC	
Viking_SHV_Fmt	1452	1383	Viking SHV embroidery format		SHV	adVECTORGRAPHIC	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
VP3_Fmt	1453	1384	VP3 embroidery format		VP3	adVECTORGRAPHIC	
SEW_Fmt	1454	1385	SEW embroidery format		SEW	adVECTORGRAPHIC	
Data_Stitch_Tajima_Fmt	1455	1386	Data Stitch Tajima (DST) embroidery image		DST	adVECTORGRAPHIC	
Singer_XXX_Fmt	1456	1387	Singer XXX embroidery image		XXX	adVECTORGRAPHIC	
Bernina_ART_Fmt	1457	1388	Bernina ART embroidery image		ART	adVECTORGRAPHIC	
MS_Prefetch_Fmt	1458	1389	Microsoft Windows Prefetch (uncompressed) file		PF	adMISC	
MS_Prefetch_Compresed_Fmt	1459	1390	Microsoft Windows Prefetch (compressed) file		PF	adMISC	
MS_MapPoint_Fmt	1460	1391	Microsoft MapPoint map		PTM	adGIS	
MS_Live_Meeting_Fmt	1461	1392	Microsoft Office Live Meeting Connection		RTC	adSCHEDULE	
MS_Speech_Definitions_Fmt	1462	1393	Microsoft text-to-speech Speech Definitions File		SDF	adMISC	
MS_Speech_Data_Fmt	1463	1394	Microsoft text-to-speech Speech Data File		SPD	adDATABASE	
MS_SQL_CE_Fmt	1464	1395	Microsoft SQL Server Compact (CE) edition database		SDF	adDATABASE	
MS_ICE_Project_Fmt	1465	1396	Microsoft Image Composite Editor (ICE) Project		SPJ	adMISC	
MS_DVR_Fmt	1466	1397	Microsoft Digital Video Recording (DVR-MS)	video/x-ms-dvr	DVR-MS	adMOVIE	
Symbol_Dynamics_EXP_Fmt	1467	1398	Symbol Dynamics EXP document		WXP	adWORDPROCESSOR	<a href="#">stringsr</a>
XNA_Compiled_Fmt	1468	1399	Microsoft XNA Compiled Format		XNB	adENCAPSULATION	
Outlook_Shortcut_Fmt	1469	1400	Microsoft Outlook or Exchange folder shortcut		XNK	adMISC	
ChiWriter_Fmt	1470	1401	ChiWriter document (up to version 3)		CHI	adWORDPROCESSOR	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
ChiWriter4_Fmt	1471	1402	ChiWriter document (version 4)		CHI	adWORDPROCESSOR	
Lightning_Strike_Fmt	1472	1403	Lightning Strike image	image/cis-cod	COD	adRASTERIMAGE	
Blackberry_Executable_Fmt	1473	1404	Blackberry executable		COD	adEXECUTABLE	
EndNote_Library_Fmt	1474	1405	EndNote Library (up to version 9)	application/x-endnote-library	ENL	adDATABASE	
EndNote_Library_X_Fmt	1475	1406	EndNote Library (version X onwards)		ENL, ENLX	adDATABASE	
EndNote_Filter_Fmt	1476	1407	EndNote Filter	application/x-puid-fmt-327	ENF	adDATABASE	
EndNote_Style_Fmt	1477	1408	EndNote Style	application/x-endnote-style	ENS	adDATABASE	
EndNote_Connection_Fmt	1478	1409	EndNote Connection	application/x-endnote-connect	ENZ	adDATABASE	
Camtasia_Recording_Fmt	1479	1410	Camtasia Recording		CAMREC	adMOVIE	
Camtasia_Project_Fmt	1480	1411	Camtasia XML Project		CAMPROJ	adWORDPROCESSOR	
TechSmith_Project_Fmt	1481	1412	TechSmith JSON Project		TSCPROJ	adWORDPROCESSOR	
ABIF_Fmt	1482	1413	Applied Biosystems Inc. Format (ABIF)		AB1, FSA	adSCIENTIFIC	
CIF_Fmt	1483	1414	Crystallographic Information File	chemical/x-cif	CIF	adSCIENTIFIC	
Sibelius_Fmt	1484	1415	Sibelius musical score		SIB	adSOUND	
Geogebra_Worksheet_Fmt	1485	1416	Geogebra worksheet	application/vnd.geogebra.file	GGB	adSCIENTIFIC	
Geogebra_Tool_Fmt	1486	1417	Geogebra tool		GGT	adSCIENTIFIC	
Polynomial_Texture_Map_Fmt	1487	1418	Polynomial Texture Map (PTM)		PTM	adRASTERIMAGE	
Poly_Tracker_Fmt	1488	1419	Poly Tracker audio		PTM	adSOUND	
PC_Outline_Fmt	1489	1420	PC-Outline document		PCO	adWORDPROCESSOR	
Spline_Font_Database_Fmt	1490	1421	Spline Font Database (SFD) font		SFD	adFONT	
QuickTime_Image_Fmt	1491	1422	QuickTime (QTIF) image	image/x-quicktime	QTIF, QIF, QTI	adRASTERIMAGE	
XBin_Image_Fmt	1492	1423	XBin image		XB	adRASTERIMAGE	

Format Name	Number	Category	Description	MIME Type	Extension	File Class	Readers
Segmented_Hypergraphics_Fmt	1493	1424	MS Segmented Hypergraphics image		SHG	adRASTERIMAGE	
LEADTools_CMP_Fmt	1494	1425	LEADTools CMP image		CMP	adRASTERIMAGE	
WBMP_Fmt	1495	1426	Wireless Bitmap image (WBMP)	image/vnd.wap.wbmp	WBMP	adRASTERIMAGE	
Blender_Fmt	1496	1427	Blender (v2) CAD file	application/x-blender	BLEND	adCAD	
Blender_v1_Fmt	1497	1428	Blender (v1) CAD file	application/x-blender	BLEND	adCAD	
Scribus_Fmt	1498	1429	Scribus document	application/vnd.scribus	SLA	adDESKTOPPUBLSH	
LyX_Fmt	1499	1430	LyX document	application/x-lyx	LYX	adWORDPROCESSOR	
NZB_Fmt	1500	1431	NewzBin NZB format	application/x-nzb	NZB	adWORDPROCESSOR	
KWord_Fmt	1501	1432	KOffice KWord document	application/vnd.kde.kword	KWD	adWORDPROCESSOR	
KSpread_Fmt	1502	1433	KOffice KSpread document	application/vnd.kde.kspread	KSP	adSPREADSHEET	
KPresenter_Fmt	1503	1434	KOffice KPresenter document	application/vnd.kde.kpresenter	KPR	adPRESENTATION	
KWord_GZ_Fmt	1504	1435	KOffice (up to v1.1) kWord document	application/x-kword	KWD	adWORDPROCESSOR	
KSpread_GZ_Fmt	1505	1436	KOffice (up to v1.1) kSpread document	application/x-kspread	KSP	adSPREADSHEET	
KPresenter_GZ_Fmt	1506	1437	KOffice (up to v1.1) kPresenter document	application/x-kpresenter	KPR	adPRESENTATION	
Karbon_Fmt	1507	1438	KOffice Karbon document	application/vnd.kde.karbon	KARBON	adVECTORGRAPHIC	
KChart_Fmt	1508	1439	KOffice KChart document	application/vnd.kde.kchart	CHRT	adSPREADSHEET	
KPlato_Fmt	1509	1440	KOffice KPlato document	application/x-vnd.kde.kplato	KPLATO	adSCHEDULE	
GIMP_Pattern_Fmt	1510	1441	GIMP Pattern file		PAT	adRASTERIMAGE	
GIMP_Brush_Fmt	1511	1442	GIMP Brush file		GBR	adRASTERIMAGE	
GIMP_Animated_Brush_Fmt	1512	1443	GIMP Animated Brush file		GIH	adRASTERIMAGE	
Git_Pack_Index_Fmt	1513	1444	Git Pack Index format		IDX	adENCAPSULATION	
Git_Index_Fmt	1514	1445	Git Index format		INDEX	adENCAPSULATION	



<sup>1</sup>MHT, EML, and MBX files might return either format 2, 233, or 395, depending on the text in the file. In general, files that contain fields such as **To**, **From**, **Date**, or **Subject** are considered to be email messages; files that contain fields such as **content-type** and **mime-version** are considered to be MHT files; and files that do not contain any of those fields are considered to be text files.

<sup>2</sup>All CAT file extensions, for example CATDrawing, CATProduct, CATPart, and so on.

<sup>3</sup>This format is returned only if you enable source code identification.

<sup>4</sup>This format is returned only if you enable extended source code identification.

# Appendix B: Document Readers

This section lists the KeyView document readers that are available to filter, export, and view supported file formats.

- [Key to Document Readers Table](#) ..... 122
- [Document Readers](#) ..... 124

## Key to Document Readers Table

The document readers table includes the following information.

Column	Description
Reader	The name of the reader.
Description	A description of the reader.
Filter	Shows whether KeyView can filter text from the main content of the file.
Export	Shows whether KeyView supports export to HTML, XML, and PDF.
View	Shows whether KeyView provides viewing capability.
Extract	Shows whether KeyView can extract sub-files.
Metadata	Shows whether KeyView can extract metadata (properties such as title, author, and subject).
Charset	Shows whether KeyView can detect and extract the character set. Even though a file format might be able to provide character set information, some documents might not contain character set information. Therefore, the document reader would not be able to determine the character set of the document.
H/F	Shows whether KeyView can extract headers and footers.
Associated File Formats	The file formats that are supported by the reader.

### Key to Symbols

Symbol	Description
Y	The feature is supported.
N	The feature is not supported.

**Key to Symbols, continued**

<b>Symbol</b>	<b>Description</b>
P	Partial metadata is extracted from this format. Some non-standard fields are not extracted.
T	Only text is extracted from this format. Formatting information is not extracted.
M	Only metadata (title, subject, author, and so on) is extracted from this format. Text and formatting information are not extracted.

## Document Readers

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
ActiveX components	Microsoft Visio (2013)	N	N	Y <sup>1</sup>	N	Y	N	N	<a href="#">MS_Visio_2013_Fmt</a>
ad1sr	AD1 Evidence file	N	N	Y	Y	N	n/a	N	<a href="#">AD1_Fmt</a>
afsr	ASCII Text	Y	Y	Y	N	N	N	N	<a href="#">ABAP_Fmt</a> , <a href="#">AMPL_Fmt</a> , <a href="#">APL_Fmt</a> , <a href="#">ASCII_Text_Fmt</a> , <a href="#">ASN1_Fmt</a> , <a href="#">ATS_Fmt</a> , <a href="#">Agda_Fmt</a> , <a href="#">Alloy_Fmt</a> , <a href="#">Apex_Fmt</a> , <a href="#">AppleScript_Fmt</a> , <a href="#">Arduino_Fmt</a> , <a href="#">AsciiDoc_Fmt</a> , <a href="#">AspectJ_Fmt</a> , <a href="#">Assembly_Fmt</a> , <a href="#">Awk_Fmt</a> , <a href="#">BlitzMax_Fmt</a> , <a href="#">Bluespec_Fmt</a> , <a href="#">Brainfuck_Fmt</a> , <a href="#">Brightscript_Fmt</a> , <a href="#">CLIPS_Fmt</a> , <a href="#">CMake_Fmt</a> , <a href="#">COBOL_Fmt</a> , <a href="#">CPlusPlus_Fmt</a> , <a href="#">CWeb_Fmt</a> , <a href="#">C_Fmt</a> , <a href="#">CartoCSS_Fmt</a> , <a href="#">Ceylon_Fmt</a> , <a href="#">Chapel_Fmt</a> , <a href="#">Clarion_Fmt</a> , <a href="#">Clean_Fmt</a> , <a href="#">Clojure_Fmt</a> , <a href="#">CoffeeScript_Fmt</a> , <a href="#">Component_Pascal_Fmt</a> , <a href="#">Cool_Fmt</a> , <a href="#">Coq_Fmt</a> , <a href="#">Creole_Fmt</a> , <a href="#">Crystal_</a>

<sup>1</sup>Visio 2013 is supported in Viewing only, with the support of ActiveX components from the Microsoft Visio 2013 Viewer. Image fidelity is supported but other features, such as highlighting, are not.

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
									<a href="#">Fmt</a> , <a href="#">Csharp_Fmt</a> , <a href="#">Csound_Document_Fmt</a> , <a href="#">Csound_Fmt</a> , <a href="#">Css_Fmt</a> , <a href="#">Cuda_Fmt</a> , <a href="#">DIGITAL_Command_Language_Fmt</a> , <a href="#">DTrace_Fmt</a> , <a href="#">D_Fmt</a> , <a href="#">Dart_Fmt</a> , <a href="#">Dockerfile_Fmt</a> , <a href="#">ECL_Fmt</a> , <a href="#">E_Fmt</a> , <a href="#">Eiffel_Fmt</a> , <a href="#">Elm_Fmt</a> , <a href="#">Emacs_Lisp_Fmt</a> , <a href="#">EmberScript_Fmt</a> , <a href="#">Erlang_Fmt</a> , <a href="#">Fantom_Fmt</a> , <a href="#">Forth_Fmt</a> , <a href="#">Fortran_Fmt</a> , <a href="#">FreeMarker_Fmt</a> , <a href="#">Frege_Fmt</a> , <a href="#">Fsharp_Fmt</a> , <a href="#">GAMS_Fmt</a> , <a href="#">GAP_Fmt</a> , <a href="#">GDScript_Fmt</a> , <a href="#">GIS_World_File_Fmt</a> , <a href="#">GLSL_Fmt</a> , <a href="#">G_code_Fmt</a> , <a href="#">Game_Maker_Language_Fmt</a> , <a href="#">Gnuplot_Fmt</a> , <a href="#">Go_Fmt</a> , <a href="#">Golo_Fmt</a> , <a href="#">Gosu_Fmt</a> , <a href="#">Gradle_Fmt</a> , <a href="#">GraphQL_Fmt</a> , <a href="#">Graphviz_DOT_Fmt</a> , <a href="#">Groovy_Fmt</a> , <a href="#">HLSL_Fmt</a> , <a href="#">Hack_Fmt</a> , <a href="#">HamI_Fmt</a> , <a href="#">Handlebars_Fmt</a> , <a href="#">Haskell_Fmt</a> , <a href="#">Hy_Fmt</a> , <a href="#">IDL_Fmt</a> , <a href="#">IGOR_Pro_Fmt</a> , <a href="#">Idris_Fmt</a> , <a href="#">Inform_7_Fmt</a> , <a href="#">Ini_Fmt</a> , <a href="#">Ioke_Fmt</a> , <a href="#">Isabelle_Fmt</a> , <a href="#">JSONiq_Fmt</a> , <a href="#">JSX_Fmt</a> , <a href="#">J_Fmt</a> , <a href="#">Jasmin_Fmt</a> , <a href="#">Java_Fmt</a> , <a href="#">Javascript_Fmt</a> , <a href="#">Jolie_Fmt</a> , <a href="#">Julia_Fmt</a> , <a href="#">KiCad_Layout_Fmt</a> , <a href="#">KiCad_Schematic_Fmt</a> , <a href="#">Kotlin_Fmt</a> , <a href="#">LFE_Fmt</a> , <a href="#">LOLCODE_Fmt</a> , <a href="#">Lasso_Fmt</a> , <a href="#">Limbo_Fmt</a> , <a href="#">Lisp_Fmt</a> , <a href="#">LiveScript_Fmt</a> , <a href="#">Lua_Fmt</a> , <a href="#">MAXScript_Fmt</a> , <a href="#">ML_Fmt</a> , <a href="#">MSDOS_Batch_File_Fmt</a> , <a href="#">M_Fmt</a> , <a href="#">Makefile_Fmt</a> , <a href="#">Markdown_Fmt</a> , <a href="#">Mathematica_Fmt</a> , <a href="#">Matlab_Fmt</a> , <a href="#">Max_Code_Fmt</a> , <a href="#">Mercury_Fmt</a> , <a href="#">Modelica_</a>

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
									<a href="#">Fmt</a> , <a href="#">Modula_2_Fmt</a> , <a href="#">Monkey_Fmt</a> , <a href="#">Moocode_Fmt</a> , <a href="#">NL_Fmt</a> , <a href="#">NSIS_Fmt</a> , <a href="#">NetLogo_Fmt</a> , <a href="#">NewLisp_Fmt</a> , <a href="#">Nginx_Fmt</a> , <a href="#">Nix_Fmt</a> , <a href="#">Nu_Fmt</a> , <a href="#">OCaml_Fmt</a> , <a href="#">ObjC_Fmt</a> , <a href="#">ObjCpp_Fmt</a> , <a href="#">ObjJ_Fmt</a> , <a href="#">OpenCL_Fmt</a> , <a href="#">OpenEdge_ABL_Fmt</a> , <a href="#">OpenSCAD_Fmt</a> , <a href="#">Ox_Fmt</a> , <a href="#">Oxygene_Fmt</a> , <a href="#">Oz_Fmt</a> , <a href="#">PAWN_Fmt</a> , <a href="#">PHP_Fmt</a> , <a href="#">PLSQL_Fmt</a> , <a href="#">PLpgSQL_Fmt</a> , <a href="#">Pan_Fmt</a> , <a href="#">Parrot_Assembly_Fmt</a> , <a href="#">Pascal_Fmt</a> , <a href="#">Perl_Fmt</a> , <a href="#">PicoLisp_Fmt</a> , <a href="#">Pike_Fmt</a> , <a href="#">Pony_Fmt</a> , <a href="#">Powershell_Fmt</a> , <a href="#">Processing_Fmt</a> , <a href="#">Prolog_Fmt</a> , <a href="#">Puppet_Fmt</a> , <a href="#">PureBasic_Fmt</a> , <a href="#">Python_Fmt</a> , <a href="#">QMake_Fmt</a> , <a href="#">RAML_Fmt</a> , <a href="#">RDoc_Fmt</a> , <a href="#">REXX_Fmt</a> , <a href="#">R_Fmt</a> , <a href="#">Racket_Fmt</a> , <a href="#">Ragel_Fmt</a> , <a href="#">Rascal_Fmt</a> , <a href="#">Rebol_Fmt</a> , <a href="#">Red_Fmt</a> , <a href="#">RenPy_Fmt</a> , <a href="#">RenderScript_Fmt</a> , <a href="#">Ring_Fmt</a> , <a href="#">RobotFramework_Fmt</a> , <a href="#">Ruby_Fmt</a> , <a href="#">Rust_Fmt</a> , <a href="#">SAS_Fmt</a> , <a href="#">SGML_Fmt</a> , <a href="#">SPARQL_Fmt</a> , <a href="#">SQLPL_Fmt</a> , <a href="#">SQL_Fmt</a> , <a href="#">SaltStack_Fmt</a> , <a href="#">Scala_Fmt</a> , <a href="#">Scheme_Fmt</a> , <a href="#">Scilab_Fmt</a> , <a href="#">Scribe_Fmt</a> , <a href="#">Shell_Fmt</a> , <a href="#">Smalltalk_Fmt</a> , <a href="#">Squirrel_Fmt</a> , <a href="#">Stan_Fmt</a> , <a href="#">Stata_Fmt</a> , <a href="#">Stylus_Fmt</a> , <a href="#">SuperCollider_Fmt</a> , <a href="#">Swift_Fmt</a> , <a href="#">SystemVerilog_Fmt</a> , <a href="#">TSV_Fmt</a> , <a href="#">TSV_Fmt</a> , <a href="#">TXL_Fmt</a> , <a href="#">Tcl_Fmt</a> , <a href="#">Tex_Fmt</a> , <a href="#">Turing_Fmt</a> , <a href="#">Turtle_Fmt</a> , <a href="#">TypeScript_Fmt</a> , <a href="#">UrWeb_Fmt</a> , <a href="#">Verilog_Fmt</a> , <a href="#">Vim_script_Fmt</a> , <a href="#">Visual_Basic_Fmt</a> , <a href="#">WebAssembly_Fmt</a> , <a href="#">WebIDL_Fmt</a> ,

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
									<a href="#">Wiki_Fmt</a> , <a href="#">X10_Fmt</a> , <a href="#">XQuery_Fmt</a> , <a href="#">Xojo_Fmt</a> , <a href="#">Xtend_Fmt</a> , <a href="#">YAML_Fmt</a> , <a href="#">YANG_Fmt</a> , <a href="#">Zephir_Fmt</a> , <a href="#">eC_Fmt</a> , <a href="#">reStructuredText_Fmt</a> , <a href="#">xBase_Fmt</a>
aifsr	Audio Interchange File Format	M	N	N	N	Y	N	N	<a href="#">AIFF_Fmt</a>
asfsr	Advanced Systems Format (1.2)	N	N	N	N	Y	N	N	<a href="#">ASF_Fmt</a> , <a href="#">WMA_Fmt</a> , <a href="#">WMV_Fmt</a>
assr	Applix Spreadsheets (4.2, 4.3, 4.4)	Y	Y	Y	N	N	Y	N	<a href="#">Applix_Spreadsheets_Fmt</a>
awsr	Applix Words (3.11, 4, 4.1, 4.2, 4.3, 4.4)	Y	Y	Y	N	N	Y	Y	<a href="#">Applix_Words_Fmt</a>
axsr	Applix Asterix	Y	T	T	N	N	N	N	<a href="#">Applix_Alis_Fmt</a>
b1sr	B1	N	N	Y	Y	N	n/a	N	<a href="#">B1_Fmt</a>
bkfsr	Microsoft Backup File	N	N	Y	Y	N	n/a	N	<a href="#">BKF_Fmt</a>
bmpsr	Windows Bitmap Image	M	M	N	N	Y	N	N	<a href="#">BMP_Fmt</a>
bzip2sr	Bzip2 Compressed File	N	N	Y	Y	N	n/a	N	<a href="#">BZIP2_Fmt</a>
cabsr	Microsoft Cabinet File (1.3)	N	N	Y	Y	N	n/a	N	<a href="#">CAB_Fmt</a>

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
cdsr	Convergent Technologies DEF Comm. Format	Y	T	T	N	N	N	N	<a href="#">CT_DEF_Fmt</a>
cebsr <sup>1</sup>	Founder Chinese E-paper Basic (3.2.1)	Y	N	N	N	N	N	N	<a href="#">Founder_CEB_Fmt</a>
chmsr	Microsoft Compiled HTML Help (3)	N	N	Y	Y	N	n/a	N	<a href="#">CHM_Fmt</a>
csvsr	CSV (Comma Separated Values)	Y	Y	Y	N	N	N	N	<a href="#">CSV_Fmt</a>
dbfsr	dBase Database (III+, IV)	Y	Y	Y	N	N	N	N	<a href="#">dBase_Fmt</a>
dbxsr	Microsoft Outlook Express DBX Message Database (5.0, 6.0)	N	N	Y	Y	Y	Y	N	<a href="#">MS_OEDBX_Fmt</a>
dcasr	IBM DCA/RFT (Revisable Form Text) (SC23-0758-1)	Y	Y	Y	N	N	Y	N	<a href="#">DCA_RFT_Fmt</a>
dcmsr	Digital Imaging &	M	N	N	N	Y	N	N	<a href="#">Dicom_Fmt</a>

<sup>1</sup>This reader is only supported on Windows 32-bit platforms.



Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
	Communications in Medicine (DICOM)								
difsr	Data Interchange Format	Y	Y	Y	N	N	N	N	<a href="#">DIF_SpreadSheet_Fmt</a>
dmgsr	Mac Disk Copy Disk Image	N	N	Y	Y	N	n/a	N	<a href="#">DMG_Fmt</a>
dw4sr	DisplayWrite (4)	Y	Y	Y	N	N	Y	N	<a href="#">IBM_Display_Write_Fmt</a>
dxlsr	IBM Domino Data in XML format <sup>1</sup>	N	N	Y	Y	Y	N	N	<a href="#">Lotus_Domino_DXL_Fmt</a>
emlsr <sup>2</sup>	Text Mail (MIME) / Microsoft Outlook Express (Windows 6, MacIntosh 5)	Y	T	T	Y	Y	Y	N	<a href="#">SMTP_Fmt</a>
emxsr	Legato EMailXtender Archives	N	N	Y	Y	N	n/a	N	<a href="#">EMX_Fmt</a>
encase2sr	Expert Witness Compression Format (EnCase) (7)	N	N	Y	Y	N	n/a	N	<a href="#">EnCase_Fmt</a>

<sup>1</sup>Supports non-encrypted embedded files only.

<sup>2</sup>This reader supports both clear signed and encrypted S/MIME. KeyView supports S/MIME for PST, EML, MBX, and MSG files.

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
encasesr	Expert Witness Compression Format (EnCase) (6)	N	N	Y	Y	N	n/a	N	<a href="#">EnCase_Fmt</a>
entsr	Microsoft Entourage Database (2004)	N	N	Y	Y	Y	Y	N	<a href="#">ENT_Fmt</a>
epubsr	Open Publication Structure eBook (2.0, 3.0)	Y	Y	Y	N	Y	Y	N	<a href="#">Epub_Fmt</a>
exesr	MSDOS/Windows Executable	N	N	Y	N	N	n/a	N	<a href="#">MS_Executable_Fmt</a>
foliosr	Folio Flat File (3.1)	Y	Y	Y	N	Y	Y	Y	<a href="#">Folio_Flat_Fmt</a>
gdsiisr	GDSII data format	Y	T	T	N	N	N	N	<a href="#">GDSII_Fmt</a>
gifsr	GIF (87, 89)	M	M	N	N	Y	N	N	<a href="#">GIF_87a_Fmt</a> , <a href="#">GIF_89a_Fmt</a>
gwfssr	GroupWise FileSurf email	N	N	Y	Y	Y	N	N	<a href="#">GWFS_Email_Fmt</a>
hl7sr	Health level7 message (2.0)	Y	Y	Y	N	Y	Y	N	<a href="#">HI7_Fmt</a>
htmsr	HTML/XHTML (3, 4)	Y	Y	Y	N	Y <sup>1</sup>	Y	N	<a href="#">HTML_Fmt</a> , <a href="#">Netscape_Bookmark_File_Fmt</a>

<sup>1</sup>HTML only supports partial metadata extraction

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
hwposr	Haansoft Hangul HWP (2002, 2005, 2007, 2010)	Y	Y	Y	Y	Y	Y	N	<a href="#">HWP_Fmt</a>
hwpsr	Haansoft Hangul HWP (97)	Y	Y	Y	N	Y	Y	N	<a href="#">HWP_Fmt</a>
ichatsr	Apple iChat Log (1, AV 2, AV 2.1, AV 3)	Y	Y	Y	N	N	N	N	<a href="#">Apple_iChat_Fmt</a>
icssr	Microsoft Outlook iCalendar (1.0, 2.0)	N	N	Y	Y	Y	Y	N	<a href="#">ICS_Fmt</a>
isosr	ISO-9660 CD Disc Image	N	N	Y	Y	N	n/a	N	<a href="#">ISO_Fmt</a>
iwss13sr <sup>1</sup>	Apple iWork Numbers ('13, '16, '18, iCloud 2018)	Y	T	T	N	N	Y	N	<a href="#">IWSS13_Fmt</a>
iwsssr	Apple iWork Numbers ('08, '09)	Y	Y	Y	N	Y	Y	N	<a href="#">IWSS_Fmt</a>
iwwp13sr <sup>2</sup>	Apple iWork Pages ('13, '16, '18, iCloud 2018)	Y	T	T	N	N	N	N	<a href="#">IWWP13_Fmt</a>

<sup>1</sup>This reader is available only on Windows (32-bit and 64-bit), Linux (32-bit and 64-bit), and Solaris x86-64.

<sup>2</sup>This reader is available only on Windows (32-bit and 64-bit), Linux (32-bit and 64-bit), and Solaris x86-64.

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
iwpsr	Apple iWork Pages ('08, '09)	Y	Y	Y	N	Y	Y	N	<a href="#">IWWP_Fmt</a>
jp2000sr	JPEG (2000)	M	M	N	N	Y	N	N	<a href="#">ISO_JPEG2000_JP2_Fmt</a> , <a href="#">ISO_JPEG2000_JPM_Fmt</a> , <a href="#">ISO_JPEG2000_JPX_Fmt</a> , <a href="#">JPEG_2000_JP2_File_Fmt</a> , <a href="#">JPEG_2000_PGX_Fmt</a> , <a href="#">Motion_JPEG_2000_Fmt</a>
jpgsr	JPEG Interchange Format (JFIF)	M	M	N	N	Y	N	N	<a href="#">JPEG_File_Interchange_Fmt</a>
jtdsr	JustSystems Ichitaro (8 to 2013, 2018)	Y	Y	Y	N	P	N	Y	<a href="#">ICHITARO_Compr_Fmt</a> , <a href="#">ICHITARO_Fmt</a>
kpagrdr	Applix Presents/Graphics (4.0, 4.2, 4.3, 4.4)	Y	Y	Y	N	N	N	N	<a href="#">Applix_Graphics_Fmt</a>
kpanirdr	Windows Animated Cursor	N	Y	Y	N	N	N	N	<a href="#">Windows_Animated_Cursor_Fmt</a>
kpbmprdr	Windows Bitmap Image	N	Y	Y	N	N	N	N	<a href="#">BMP_Fmt</a>
kpCATrdr	CATIA formats (5)	Y	N	N	N	Y	N	N	<a href="#">CATIA_Fmt</a>
kpcdrdr	CorelDRAW <sup>1</sup> (through 9.0, 10, 11, 12, X3)	N	Y	Y	N	N	N	N	<a href="#">Corel_Draw_Fmt</a>

<sup>1</sup>CDR/CDR with TIFF header.

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
kpccgmrdr <sup>1</sup>	Computer Graphics Metafile	Y	Y	Y	N	N	N	N	<a href="#">CGM_Binary_Fmt</a> , <a href="#">CGM_Character_Fmt</a> , <a href="#">CGM_ClearText_Fmt</a>
kpchtrdr	Microsoft Excel (2-7) and Lotus 1-2-3 Charts (2-5)	N	Y	Y	N	N	N	N	
kpdcxrdr	DCX Fax System	N	Y	Y	N	N	N	N	<a href="#">DCX_Fmt</a>
kpDWGrdr <sup>2</sup>	Autodesk AutoCAD DWG Drawing (R13 onwards)	Y	Y	Y	N	Y	Y	N	<a href="#">AutoDesk_DWG_Fmt</a>
kpDXFrdr <sup>3</sup>	Autodesk AutoCAD DXF Drawing (R13 onwards)	Y	Y	Y	N	Y	Y	N	<a href="#">AutoCAD_DXF_Binary_Fmt</a> , <a href="#">AutoCAD_DXF_Text_Fmt</a>
kpemfrdr	Enhanced Metafile	Y	Y	Y	N	Y	N	N	<a href="#">Enhanced_Metafile_Fmt</a>
kpepsrdr	Encapsulated PostScript (raster) (TIFF header)	N	Y	Y	N	N	N	N	<a href="#">EPSF_Fmt</a> , <a href="#">Preview_EPSF_Fmt</a>
kpGFLrdr	Omni Graffle	Y	N	N	N	Y	Y	N	<a href="#">Omni_Graffle_XML_Fmt</a>

<sup>1</sup>Files with non-partitioned data are supported.

<sup>2</sup>The kpODArdr reader can filter, export, and view all versions but is supported only on Windows, Linux, and macOS. The kpDWGrdr reader is used on AIX, FreeBSD, Solaris, and SPARC platforms, but does not support graphics for versions after 2004 or text for versions after 2013.

<sup>3</sup>The kpODArdr reader can filter, export, and view all versions but is supported only on Windows, Linux, and macOS. The kpDXFrdr reader is used on AIX, FreeBSD, Solaris, and SPARC platforms, but does not support graphics for versions after 2004.

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
kpgifdr	GIF (87, 89)	N	Y	Y	N	N	N	N	<a href="#">GIF_87a_Fmt</a> , <a href="#">GIF_89a_Fmt</a>
kpicodr	Windows Icon Cursor	N	Y	Y	N	N	N	N	<a href="#">Windows_Icon_Fmt</a>
kplWPG13rdr <sup>1</sup>	Apple iWork Keynote ('13, '16, '18, iCloud 2018)	Y	T	N	N	N	N	N	<a href="#">IWPG13_Fmt</a>
kplWPGrdr	Apple iWork Keynote (2, 3, '08, '09)	Y	Y	Y	N	Y	Y	N	<a href="#">IWPG13_Fmt</a> , <a href="#">IWPG_Fmt</a>
kpJBIG2rdr	JBIG2	N	Y	Y	N	N	N	N	<a href="#">JBIG2_Fmt</a>
kpjp2000rdr	JPEG (2000)	N	Y	Y	N	N	N	N	<a href="#">ISO_JPEG2000_JP2_Fmt</a> , <a href="#">ISO_JPEG2000_JPM_Fmt</a> , <a href="#">ISO_JPEG2000_JPX_Fmt</a> , <a href="#">JPEG_2000_JP2_File_Fmt</a> , <a href="#">JPEG_2000_PGX_Fmt</a> , <a href="#">Motion_JPEG_2000_Fmt</a>
kpjpgdr	JPEG Interchange Format (JFIF)	N	Y	Y	N	N	N	N	<a href="#">JPEG_File_Interchange_Fmt</a>
kpmacrdr	MacPaint	N	Y	Y	N	N	N	N	<a href="#">MacPaint_Fmt</a>
kpmsordr	Microsoft Office Drawing	N	Y	Y	N	N	N	N	<a href="#">MS_Office_Drawing_Fmt</a>
kpODArdr	ODA	Y	Y	Y	N	Y	Y	N	<a href="#">AutoCAD_DXF_Binary_Fmt</a> , <a href="#">AutoCAD_DXF_Text_Fmt</a> , <a href="#">AutoDesk_DWG_Fmt</a>

<sup>1</sup>This reader is available only on Windows (32-bit and 64-bit), Linux (32-bit and 64-bit), and Solaris x86-64.

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
kpodfrdr	OASIS Open Document Format (1, 2 <sup>1</sup> )	Y	Y	Y	Y <sup>2</sup>	Y	Y	N	<a href="#">ODF_Drawing_Fmt</a> , <a href="#">ODF_Drawing_Template_Fmt</a> , <a href="#">ODF_Presentation_Fmt</a> , <a href="#">ODF_Presentation_Template_Fmt</a> , <a href="#">SO_Drawing_XML_Fmt</a> , <a href="#">SO_Presentation_XML_Fmt</a>
kpONErdr	Microsoft OneNote (2007, 2010, 2013, 2016)	Y	Y	Y	Y	N	Y	N	<a href="#">OneNote_Fmt</a>
kpp40rdr	Microsoft PowerPoint (98)	Y	Y	Y	N	P <sup>3</sup>	N	N	<a href="#">PowerPoint_Win_Fmt</a>
kpp95rdr	Microsoft PowerPoint Windows (95)	Y	Y	Y	N	P	Y	N	<a href="#">PowerPoint_95_Fmt</a>
kpp97rdr	Microsoft PowerPoint (97-2004)	Y	Y	Y	N	P	Y	Y <sup>4</sup>	<a href="#">PowerPoint_2000_Fmt</a> , <a href="#">PowerPoint_97_Fmt</a>
kppctrdr	Macintosh Raster / QuickDraw (2)	N	Y	Y	N	N	N	N	<a href="#">Mac_PICT_Fmt</a>
kppcxrdr	PC PaintBrush (3)	N	Y	Y	N	N	N	N	<a href="#">PC_Paintbrush_Fmt</a>

<sup>1</sup>Generated by OpenOffice Impress 2.0, StarOffice 8 Impress, and IBM Lotus Symphony Presentation 3.0.

<sup>2</sup>Supported using the olesr embedded objects reader.

<sup>3</sup>Microsoft PowerPoint Windows only

<sup>4</sup>Microsoft PowerPoint Windows only

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
kppdf2rdr <sup>1</sup>	Adobe PDF (1.1 to 1.7, 2.0)	N	N	Y	N	N	N	N	<a href="#">PDF_Fmt</a>
kppdfdr	Adobe PDF (1.1 to 1.7, 2.0)	N	Y	Y	N	N	N	N	<a href="#">PDF_Fmt</a>
kppicrdr	Lotus PIC	Y	Y	Y	N	N	N	N	<a href="#">Lotus_PIC_Fmt</a>
kppngrdr	Portable Network Graphics	N	Y	Y	N	N	N	N	<a href="#">APNG_Fmt</a> , <a href="#">PNG_Fmt</a>
kpppxrdr	Microsoft PowerPoint Windows XML (2007 onwards)	Y	Y	Y	Y	Y	Y	Y	<a href="#">MS_PPT_2007_Fmt</a> , <a href="#">MS_PPT_Macro_2007_Fmt</a>
kpprerdr	Lotus Freelance Graphics 2 (2)	Y	Y	Y	N	N	N	N	<a href="#">Freelance_OS2_Fmt</a> , <a href="#">Freelance_Win_Fmt</a>
kpprzrdr	Lotus Freelance Graphics (96, 97, 98, R9, 9.8)	Y	Y	Y	N	N	N	N	<a href="#">Freelance_96_Fmt</a> , <a href="#">Freelance_97_Fmt</a> , <a href="#">Freelance_DOS_Fmt</a>
kpsddrdr	StarOffice Impress (3, 4, 5)	Y	T	N	N	N	N	N	<a href="#">SO_Presentation_Fmt</a>
kpsdwrdr	Lotus AMIDraw Graphics	N	Y	Y	N	N	N	N	<a href="#">Ami_Pro_Draw_Fmt</a> , <a href="#">SO_Text_Fmt</a>
kpsgirdr	SGI RGB Image	N	Y	Y	N	N	N	N	<a href="#">SGI_Image_Fmt</a>

<sup>1</sup>kppdf2rdr is an alternate graphic-based reader that produces high-fidelity output but does not support other features such as highlighting or text searching.



Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
kpshwrdr	Corel Presentations (6, 7, 8, 9, 10, 11, 12, X3)	Y	Y	Y	N	N	N	N	<a href="#">Corel_Presentations_Fmt</a>
kpsunrdr	Sun Raster Image	N	Y	Y	N	N	N	N	<a href="#">Sun_Raster_Fmt</a>
kpTGArdr	Truevision Targa (2)	N	Y	Y	N	N	N	N	<a href="#">Targa_Fmt</a>
kptifdr	TIFF Tagged Image File (through 6.0 <sup>1</sup> )	N	Y	Y	N	N	N	N	<a href="#">TIFF_Fmt</a>
kpUGrdr	Unigraphics (UG) NX	Y	N	N	N	N	N	N	<a href="#">Unigraphics_NX_Fmt</a>
kpVSD2rdr	Microsoft Visio (4, 5, 2000, 2002, 2003, 2007, 2010 <sup>2</sup> )	Y	Y	Y	N	Y	Y	N	<a href="#">MS_Visio_Fmt</a>
kpVSDXrdr	Microsoft Visio (2013)	Y	Y	Y	Y	Y	Y	N	<a href="#">MS_Visio_2013_Fmt</a> , <a href="#">MS_Visio_2013_Macro_Fmt</a> , <a href="#">MS_Visio_2013_Stencil_Fmt</a> , <a href="#">MS_Visio_2013_Stencil_Macro_Fmt</a> , <a href="#">MS_Visio_2013_Template_Fmt</a> ,

<sup>1</sup>The following compression types are supported: no compression, CCITT Group 3 1-Dimensional Modified Huffman, CCITT Group 3 T4 1-Dimensional, CCITT Group 4 T6, LZW, JPEG (only Gray, RGB and CMYK color space are supported), and PackBits.

<sup>2</sup>Viewing and Export use the graphic reader, kpVSD2rdr for Microsoft Visio 2003, 2007, and 2010, and vsdsr for all earlier versions. Image fidelity in Viewing and Export is therefore only supported for versions 2003 and above. Filter uses the graphic reader kpVSD2rdr for Microsoft Visio 2003, 2007, and 2010, and vsdsr for all earlier versions.

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
									<a href="#">MS_Visio_2013_Template_Macro_Fmt</a>
kpwg2rdr	WordPerfect Graphics 2 (2, 7)	N	Y	Y	N	N	N	N	<a href="#">WordPerfect_Graphics_Fmt</a>
kpwmfrdr	Windows Metafile (3)	Y <sup>1</sup>	Y	Y	N	N	N	N	<a href="#">Windows_Metafile_Fmt</a> , <a href="#">Windows_Metafile_NoHdr_Fmt</a>
kpwpgrdr	WordPerfect Graphics 1 (1)	N	Y	Y	N	N	N	N	<a href="#">WordPerfect_Graphics_Fmt</a>
kpXFDLrdr	Extensible Forms Description Language	Y	Y	Y	N	Y	Y	N	<a href="#">XFDL_Fmt</a>
kvgz	GZIP archive (2)	N	N	Y	N	N	n/a	N	<a href="#">GZ_Compress_Fmt</a>
kvgzsr	GZIP archive (2)	N	N	N	Y	N	n/a	N	<a href="#">GZ_Compress_Fmt</a>
kvhqxsr	BinHex	N	N	Y	Y	N	n/a	N	<a href="#">BinHex_Fmt</a>
kvzee	UNIX Compress	N	N	Y	N	N	n/a	N	<a href="#">Compress_Fmt</a>
kvzeesr	UNIX Compress	N	N	N	Y	N	n/a	N	<a href="#">Compress_Fmt</a>
l123sr	Lotus 1-2-3 (96, 97, R9, 9.8)	Y	Y	Y	N	P	Y	N	<a href="#">Lotus_123_97_Fmt</a> , <a href="#">Lotus_123_Format_Fmt</a> , <a href="#">Lotus_123_R9_Fmt</a>

<sup>1</sup>Windows Metafiles can contain both raster images (KeyView file class 4) and vector graphics (KeyView file class 5). Filtering is supported only for vector graphics (class 5).

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
lasr	Lotus AMI Pro and Write Plus (2, 3)	Y	Y	Y	N	P <sup>1</sup>	Y <sup>2</sup>	Y	<a href="#">Ami_Pro_Fmt</a> , <a href="#">Ami_Pro_StyleSheet_Fmt</a>
lwpsr	Lotus Word Pro and SmartMaster (96, 97, R9)	Y	Y	Y	N	P <sup>3</sup>	N	Y <sup>4</sup>	<a href="#">Lotus_Word_Pro_96_Fmt</a> , <a href="#">Lotus_Word_Pro_97_Fmt</a>
lzhsr	Microsoft LZH Compressed Folder	N	N	N	Y	N	n/a	N	<a href="#">LZH_Fmt</a>
macbinsr	MacBinary	N	N	Y	Y	N	n/a	N	<a href="#">MacBinary_Fmt</a>
mbsr	Microsoft Word Macintosh (4, 5, 6, 98)	Y	Y	Y	N	Y	N	Y	<a href="#">MS_Word_Mac_4_Fmt</a> , <a href="#">MS_Word_Mac_Fmt</a>
mbxsr <sup>5</sup>	Text Mail (MIME), Microsoft Outlook Express (Windows 6, MacIntosh 5),	Y <sup>7</sup>	N	T	Y	Y	Y	N	<a href="#">MIME_Fmt</a>

<sup>1</sup>Lotus AMI Pro only

<sup>2</sup>Lotus AMI Pro only

<sup>3</sup>Lotus Word Pro only

<sup>4</sup>Lotus Word Pro only

<sup>5</sup>This reader supports both clear signed and encrypted S/MIME. KeyView supports S/MIME for PST, EML, MBX, and MSG files.

<sup>7</sup>Text Mail only

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
	Mailbox <sup>1</sup> (Thunderbird 1.0, Eudora 6.2)								
MCI	Microsoft Media Control Interface	N	N	Y	N	N	N	N	<a href="#">AIFF_Fmt</a> , <a href="#">AU_Audio_Fmt</a> , <a href="#">ISO_QuickTime_Fmt</a> , <a href="#">MIDI_Audio_Fmt</a> , <a href="#">MPEG_Audio_Fmt</a> , <a href="#">MS_Video_Fmt</a> , <a href="#">MS_WAVE_Audio_Fmt</a> , <a href="#">Mobile_QuickTime_Fmt</a> , <a href="#">QuickTime_Fmt</a>
mdbsr	Microsoft Access (95 onwards)	Y	T	T	N	N	Y <sup>2</sup>	N	<a href="#">MS_Access_2000_Fmt</a> , <a href="#">MS_Access_2007_Fmt</a> , <a href="#">MS_Access_95_Fmt</a> , <a href="#">MS_Access_97_Fmt</a> , <a href="#">MS_Access_Fmt</a>
mhtsr	MIME HTML (MHTML)	Y	Y	Y	N	Y	Y	N	<a href="#">MHT_Fmt</a>
mifsr	Adobe FrameMaker Interchange Format (5, 5.5, 6, 7)	Y	Y	Y	N	N	Y	N	<a href="#">Maker_Interchange_Fmt</a>
misr	Microsoft Word Windows (1.0, 2.0)	Y	Y	Y	N	N	N	Y	<a href="#">MS_Word_Win_Fmt</a>
mp3sr	MPEG-1 Audio layer3 (ID3 v1 and v2)	M	M	Y	N	Y	N	N	<a href="#">MPEG_Audio_Fmt</a>

<sup>1</sup>KeyView supports MBX files created by Eudora Email and Mozilla Thunderbird. MBX files created by other common mail applications are typically filtered, converted, and displayed.

<sup>2</sup>Charset is not supported for Microsoft Access 95 or 97.

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
mpeg4sr	MPEG video	M	N	N	N	Y	N	N	<a href="#">Adobe_Flash_Audio_Book_Fmt</a> , <a href="#">Adobe_Flash_Audio_Fmt</a> , <a href="#">Adobe_Flash_Protected_Video_Fmt</a> , <a href="#">Adobe_Flash_Video_Fmt</a> , <a href="#">Audible_Audiobook_Fmt</a> , <a href="#">ISO_3GPP2_Fmt</a> , <a href="#">ISO_3GPP_Fmt</a> , <a href="#">ISO_IEC_MPEG_4_Fmt</a> , <a href="#">KDDI_Video_Fmt</a> , <a href="#">MPEG4_AVC_Fmt</a> , <a href="#">MPEG4_M4A_Fmt</a> , <a href="#">MPEG4_M4B_Fmt</a> , <a href="#">MPEG4_M4P_Fmt</a> , <a href="#">MPEG4_M4V_Fmt</a> , <a href="#">MPEG4_Sony_PSP_Fmt</a> , <a href="#">MPEG_21_Fmt</a> , <a href="#">NTT_MPEG4_Fmt</a> , <a href="#">Nero_MPEG4_Audio_Fmt</a> , <a href="#">QuickTime_Fmt</a> , <a href="#">Sony_XAVC_Fmt</a>
mppsr	Microsoft Project (2000 onwards)	Y	Y	Y	Y	Y	Y	N	<a href="#">MS_Project_2000_Fmt</a> , <a href="#">MS_Project_2007_Fmt</a> , <a href="#">MS_Project_41_Fmt</a> , <a href="#">MS_Project_4_Fmt</a> , <a href="#">MS_Project_98_Fmt</a>
msgsr <sup>1</sup>	Microsoft Outlook (97 onwards), Documentum EMCMF	Y <sup>2</sup>	T <sup>3</sup>	Y <sup>4</sup>	Y	Y	Y <sup>5</sup>	N	<a href="#">EMCMF_Fmt</a> , <a href="#">MS_Outlook_Fmt</a>
msspubsr	Microsoft Publisher (98 to 2016)	Y	T	T	Y	Y	Y	N	<a href="#">MS_Publisher_98_Fmt</a> , <a href="#">MS_Publisher_Fmt</a>

<sup>1</sup>This reader supports both clear signed and encrypted S/MIME. KeyView supports S/MIME for PST, EML, MBX, and MSG files.

<sup>2</sup>Except Documentum EMCMF

<sup>3</sup>Except Documentum EMCMF

<sup>4</sup>For Outlook this is Text only

<sup>5</sup>Returns "Unicode" character set for Outlook version 2003 and up, and "Unknown" character set for previous versions.

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
msw6sr	Microsoft Works Word Processor for Windows (6, 2000)	Y	Y	Y	N	N	N	Y	<a href="#">MS_Works_Win_WP_Fmt</a>
mwsr	Microsoft Works Word Processor for Windows (1, 2, 3, 4)	Y	Y	Y	N	N	N	Y	<a href="#">MS_Works_Win_WP_Fmt</a>
multiarcsr <sup>1</sup>	Compressed formats	N	N	Y <sup>2</sup>	Y	N	n/a	N	<a href="#">ARJ_Fmt</a> , <a href="#">RAR5_Fmt</a> , <a href="#">XZ_Fmt</a>
mw6sr	Microsoft Word for Windows (6, 7, 8, 95)	Y	Y	Y	N	Y	Y	Y	<a href="#">MS_Word_95_Fmt</a>
mw8sr	Microsoft Word (97-2004)	Y	Y	Y	Y <sup>3</sup>	Y	Y	Y <sup>4</sup>	<a href="#">MS_Word_2000_Fmt</a> , <a href="#">MS_Word_97_Fmt</a>
mwsr	Microsoft Word PC (4-6) and Windows Write (1-3)	Y	Y	Y	N	N	Y <sup>5</sup>	Y <sup>6</sup>	<a href="#">MS_Windows_Write_Fmt</a> , <a href="#">MS_Word_PC_Driver_Fmt</a> , <a href="#">MS_Word_PC_Fmt</a> , <a href="#">MS_Word_PC_Glossary_Fmt</a> , <a href="#">MS_Word_PC_Misc_Fmt</a> , <a href="#">MS_Word_PC_StyleSheet_Fmt</a>

<sup>1</sup>zip is supported with the multiarcsr reader on some platforms for Extract.

<sup>2</sup>zip and SUN PEX archives only

<sup>3</sup>Supported using the embedded objects reader olesr.

<sup>4</sup>Microsoft Word for Windows only

<sup>5</sup>Microsoft Windows Write only

<sup>6</sup>Microsoft Word PC only

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
mwssr	Microsoft Works Spreadsheet (2, 3, 4)	Y	Y	Y	N	N	Y	N	<a href="#">MS_Works_DOS_SS_Fmt</a> , <a href="#">MS_Works_Mac_SS_Fmt</a> , <a href="#">MS_Works_Win_SS_Fmt</a>
mwxsr	Microsoft Word XML (2007 onwards)	Y	Y	Y	Y	Y	Y	Y	<a href="#">MS_Word_2007_Flat_XML_Fmt</a> , <a href="#">MS_Word_2007_Fmt</a> , <a href="#">MS_Word_Macro_2007_Fmt</a>
nnsr	NBI OASys Net Archive	Y	T	T	N	N	N	N	<a href="#">NBI_Net_Archive_Fmt</a>
nsfsr	IBM Lotus Notes database (4, 5, 6.0, 6.5, 7.0, 8.0)	N	N	Y	Y	Y	N	N	<a href="#">Lotus_Notes_NSF_Fmt</a>
oa2sr	Fujitsu Oasys (7)	Y	Y	Y	N	P	N	N	<a href="#">Oasys_Fmt</a>
odfsssr	OASIS Open Document Format (1, 2 <sup>1</sup> )	Y	Y	Y	Y <sup>2</sup>	Y	Y	N	<a href="#">ODF_Spreadsheet_Fmt</a> , <a href="#">ODF_Spreadsheet_Template_Fmt</a>
odfwpsr	OASIS Open Document Format (1, 2 <sup>3</sup> )	Y	Y	Y	Y <sup>4</sup>	Y	Y	Y	<a href="#">ODF_Text_Fmt</a> , <a href="#">ODF_Text_Template_Fmt</a> , <a href="#">SO_Text_XML_Fmt</a>
olesr	Windows Scrap File	N	N	N	Y	N	n/a	N	<a href="#">OLE_Fmt</a> , <a href="#">Scrap_Fmt</a> , <a href="#">Windows_Installer_Fmt</a>

<sup>1</sup>Generated by OpenOffice Calc 2.0, StarOffice 8 Calc, and IBM Lotus Symphony Spreadsheet 3.0.

<sup>2</sup>Supported using the embedded objects reader olesr.

<sup>3</sup>Generated by OpenOffice Writer 2.0, StarOffice 8 Writer, and IBM Lotus Symphony Documents 3.0.

<sup>4</sup>Supported using the embedded objects reader olesr.

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
olmsr	Microsoft Outlook for Macintosh (2011)	N	N	Y	Y	N	Y	N	<a href="#">MS_OutlookOLM_Fmt</a>
onealtsr	Microsoft OneNote Alternative Packaging Format (2007 onwards)	Y	T	T	Y	N	N	N	<a href="#">OneNote_Alternate_Fmt</a>
onmsr	Legato Extender	N	N	Y	Y	Y	N	N	<a href="#">Legato_Extender_ONM_Fmt</a>
oo3sr	Omni Outliner (v3, OPML, OOutline)	Y	Y	Y	N	N	Y	N	<a href="#">OO3_Fmt</a> , <a href="#">OOUTLINE_Fmt</a> , <a href="#">OPML_Fmt</a>
pbixsr	Microsoft Power BI Desktop (1.11)	Y	T	T	N	N	Y	N	<a href="#">MS_Power_BI_Fmt</a>
pdf2sr	Adobe PDF (1.1 to 1.7, 2.0)	N	Y	N	N	N	N	N	<a href="#">PDF_Fmt</a>
pdfsr	Adobe PDF (1.1 to 1.7, 2.0)	Y	Y	N	Y <sup>1</sup>	Y	Y	N	<a href="#">PDF_Fmt</a> , <a href="#">Portfolio_PDF_Fmt</a>
pffsr <sup>2</sup>	Microsoft Outlook Offline Storage File (97 onwards)	N	N	Y	Y	Y	Y	N	<a href="#">MS_OutlookOST_Fmt</a>

<sup>1</sup>Includes support for extraction of subfiles from PDF Portfolio documents.

<sup>2</sup>The reader pffsr is available only on Windows and Linux.



Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
pfilesr	Rights Management Services (RMS)-protected format	Y <sup>1</sup>	T <sup>2</sup>	T <sup>3</sup>	N	Y	N	N	<a href="#">RMS_Protected_Fmt</a>
pngsr	Portable Network Graphics	M	M	N	N	Y	N	N	<a href="#">PNG_Fmt</a>
psdsr	Adobe Photoshop	N	N	N	N	Y <sup>4</sup>	N	N	<a href="#">PSD_Fmt</a>
pstnsr	Microsoft Outlook Personal Folder <sup>5</sup> (97 onwards)	N	N	Y	Y	Y	Y	N	<a href="#">MS_OutlookPST_Fmt</a>
pstsr <sup>6</sup>	Microsoft Outlook Personal Folder <sup>7</sup>	N	N	Y	Y	Y	N	N	<a href="#">MS_OutlookPST_Fmt</a>

<sup>1</sup>KeyView filters only the internal redirection text. The underlying document text is not accessible without the decryption key.

<sup>2</sup>KeyView filters only the internal redirection text. The underlying document text is not accessible without the decryption key.

<sup>3</sup>KeyView filters only the internal redirection text. The underlying document text is not accessible without the decryption key.

<sup>4</sup>Only XMP metadata is extracted for this format.

<sup>5</sup>KeyView provides several readers capable of processing PST files. The pstsr reader uses the Microsoft Messaging Application Programming Interface (MAPI), works only on Windows, and requires that you have Microsoft Outlook installed. The pstxsr reader is available for Windows (32-bit and 64-bit) and Linux (64-bit only) and does not require Microsoft Outlook. The pstnsr reader is an alternative reader that does not require Microsoft Outlook, for all platforms not supported by pstxsr. For more information about these readers, see "Extract Subfiles from Outlook Personal Folders Files" in Chapter 3.

<sup>6</sup>This reader supports both clear signed and encrypted S/MIME. KeyView supports S/MIME for PST, EML, MBX, and MSG files.

<sup>7</sup>KeyView provides several readers capable of processing PST files. The pstsr reader uses the Microsoft Messaging Application Programming Interface (MAPI), works only on Windows, and requires that you have Microsoft Outlook installed. The pstxsr reader is available for Windows (32-bit and 64-bit) and Linux (64-bit only) and does not require Microsoft Outlook. The pstnsr reader is an alternative reader that does not require Microsoft Outlook, for all platforms not supported by pstxsr. For more information about these readers, see "Extract Subfiles from Outlook Personal Folders Files" in Chapter 3.

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
	(97 onwards)								
pstxsr	Microsoft Outlook Personal Folder <sup>1</sup> (97 onwards)	N	N	Y	Y	Y	Y	N	<a href="#">MS_OutlookPST_Fmt</a>
pwsr	PRIMEWORD	Y	T	T	N	N	N	N	<a href="#">PRIMEWORD_Fmt</a>
qpssr	Corel Quattro Pro (5, 6, 7, 8)	Y	Y	Y	N	P	Y	N	<a href="#">Quattro_Pro_Win_Fmt</a>
qpwsr	Corel Quattro Pro (X4)	Y	N	Y	N	P	Y	N	<a href="#">QPW_Fmt</a>
rarsr	RAR archive (2.0 through 3.5)	N	N	N	Y	N	n/a	N	<a href="#">RAR_Fmt</a>
rifsr	Microsoft Wave Sound	M	N	N	N	Y	N	N	<a href="#">MS_WAVE_Audio_Fmt</a>
rtfsr	Rich Text Format (1 through 1.7)	Y	Y	Y	N	P	Y	Y	<a href="#">MS_Pocket_Word_Fmt</a> , <a href="#">MS_RTF_Fmt</a>
skypesr	Skype Log (3)	Y	Y	Y	N	N	N	N	<a href="#">Skype_Fmt</a>
sosr	OpenOffice, LibreOffice(1-5), StarOffice (6-9)	Y	T	T	N	Y	Y	N	<a href="#">SO_Spreadsheet_XML_Fmt</a>

<sup>1</sup>KeyView provides several readers capable of processing PST files. The pstsr reader uses the Microsoft Messaging Application Programming Interface (MAPI), works only on Windows, and requires that you have Microsoft Outlook installed. The pstxsr reader is available for Windows (32-bit and 64-bit) and Linux (64-bit only) and does not require Microsoft Outlook. The pstnsr reader is an alternative reader that does not require Microsoft Outlook, for all platforms not supported by pstxsr. For more information about these readers, see "Extract Subfiles from Outlook Personal Folders Files" in Chapter 3.

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
starcsr	StarOffice Calc (3, 4, 5)	Y	T	T	N	N	N	N	<a href="#">SO_Spreadsheet_Fmt</a>
starwsr	StarOffice Writer (3, 4, 5)	Y	T	T	N	N	N	N	<a href="#">SO_Text_Fmt</a>
stringssr	Generic 'strings' reader	Y	T	T	N	N	N	N	<a href="#">BeagleWorks_Word_Fmt</a> , <a href="#">CEOwrite_Fmt</a> , <a href="#">CPT_Comm_Fmt</a> , <a href="#">CWK_Fmt</a> , <a href="#">DG_CDS_Fmt</a> , <a href="#">DSA101_Fmt</a> , <a href="#">Data_Point_VistaWord_Fmt</a> , <a href="#">Enable_WP_Fmt</a> , <a href="#">GreatWorks_Word_Fmt</a> , <a href="#">HP_Word_PC_Fmt</a> , <a href="#">IBM_DCF_Script_Fmt</a> , <a href="#">IBM_Writing_Assistant_Fmt</a> , <a href="#">Lotus_Notes_CDF_Fmt</a> , <a href="#">Lyrix_Fmt</a> , <a href="#">MASS_11_Fmt</a> , <a href="#">MS_Works_DOS_WP_Fmt</a> , <a href="#">MS_Works_Mac_WP_Fmt</a> , <a href="#">MacWrite_Fmt</a> , <a href="#">MacWrite_II_Fmt</a> , <a href="#">Multimate_Adv_Fmt</a> , <a href="#">Multimate_Adv_Fnote_Fmt</a> , <a href="#">Multimate_Adv_II_Fmt</a> , <a href="#">Multimate_Adv_II_Fnote_Fmt</a> , <a href="#">Multimate_Fmt</a> , <a href="#">Multimate_Fnote_Fmt</a> , <a href="#">Navy_DIF_Fmt</a> , <a href="#">ODA_Q1_11_Fmt</a> , <a href="#">ODA_Q1_12_Fmt</a> , <a href="#">Office_Writer_Fmt</a> , <a href="#">Psion_TextEd_Fmt</a> , <a href="#">Psion_Word_3_Fmt</a> , <a href="#">Psion_Word_Fmt</a> , <a href="#">Q_A_DOS_Fmt</a> , <a href="#">Q_A_Win_Fmt</a> , <a href="#">Quadratron_Q_One_v1_Fmt</a> , <a href="#">Quadratron_Q_One_v2_Fmt</a> , <a href="#">Quickword_Fmt</a> , <a href="#">SAMNA_Word_IV_Fmt</a> , <a href="#">Symbol_Dynamics_EXP_Fmt</a> , <a href="#">Targon_Word_Fmt</a> , <a href="#">Uniplex_WP_Fmt</a> , <a href="#">Volkswriter_Fmt</a> , <a href="#">WANG_WITA_Fmt</a> , <a href="#">WANG_WPS_Comm_Fmt</a> , <a href="#">WPS_PLUS_Fmt</a> , <a href="#">WordERA_Fmt</a> , <a href="#">WordMARC_Fmt</a> , <a href="#">WordPerfect_Fmt</a> ,

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
									<a href="#">WordStar_2000_Fmt</a> , <a href="#">WordStar_Fmt</a> , <a href="#">WordStar_for_Windows_Fmt</a> , <a href="#">Word_Connection_Fmt</a> , <a href="#">WriteNow_Fmt</a> , <a href="#">Xerox_860_Comm_Fmt</a> , <a href="#">Xerox_Writer_Fmt</a>
swfsr	Macromedia Flash (through 8.0)	Y	Y	Y	N	N	Y <sup>1</sup>	N	<a href="#">Macromedia_Flash_Fmt</a>
swwsr	Informix SmartWare II Word Processor	Y	T	T	N	N	N	N	<a href="#">SmartWare_II_WP_Fmt</a>
tarsr	TAR Tape Archive	N	N	Y	Y	N	n/a	N	<a href="#">TAR_Fmt</a>
tifsr	TIFF Tagged Image File (through 6.0 <sup>2</sup> )	M	M	N	N	Y	N	N	<a href="#">TIFF_Fmt</a>
tnfsr	Transport Neutral Encapsulation Format	N	N	Y	Y	Y	Y	N	<a href="#">TNEF_Fmt</a>
unihtmlsr	Unicode HTML	Y	Y	Y	N	Y	Y	N	<a href="#">Unicode_HTML_Fmt</a>
unistr	Unicode Text (3, 4)	Y	Y	Y	N	N	Y	N	<a href="#">Unicode_Fmt</a>
unzip	PKZIP/Zip	N	N	Y <sup>3</sup>	Y	N	n/a	N	<a href="#">Executable_JAR_Fmt</a> , <a href="#">KMZ_Fmt</a> , <a href="#">ODF_</a>

<sup>1</sup>The character set cannot be determined for versions 5.x and lower.

<sup>2</sup>The following compression types are supported: no compression, CCITT Group 3 1-Dimensional Modified Huffman, CCITT Group 3 T4 1-Dimensional, CCITT Group 4 T6, LZW, JPEG (only Gray, RGB and CMYK color space are supported), and PackBits.

<sup>3</sup>PKZIP, WinZip, and Java Archive only

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
	Compression								<a href="#">Formula_Fmt</a> , <a href="#">ODF_Formula_Template_Fmt</a> , <a href="#">PKZIP_Fmt</a> , <a href="#">Tableau_Packaged_Data_Source_Fmt</a> , <a href="#">Tableau_Packaged_Workbook_Fmt</a>
uudsr	UU-Encoding (all versions)	N	N	Y	Y	N	n/a	N	<a href="#">UUEncoded_Fmt</a>
vcfsr	Microsoft Outlook vCard Contact (2.1, 3.0, 4.0)	Y	Y	T	N	Y	N	N	<a href="#">VCF_Fmt</a>
vsdsr	Microsoft Visio (4, 5, 2000, 2002, 2003, 2007, 2010 <sup>1</sup> )	Y	Y	Y	Y <sup>2</sup>	Y	Y	N	<a href="#">MS_Visio_Fmt</a>
wkssr	Lotus 1-2-3 (2, 3, 4, 5)	Y	Y	Y	N	N	Y	N	<a href="#">Lotus_123_Worksheet_Fmt</a>
wosr	Corel WordPerfect Windows (5, 5.1)	Y	Y	Y	N	P	Y	Y	<a href="#">WordPerfect_5_Fmt</a>
wp6sr	Corel WordPerfect (6 onwards)	Y	Y	Y	N	P	Y	N	<a href="#">WordPerfect_6_Fmt</a>
wpmsr	Corel WordPerfect Macintosh (1.02, 2, 2.1, 2.2, 3, 3.1)	Y	Y	Y	N	N	Y	N	<a href="#">WordPerfect_Mac_Fmt</a>

<sup>1</sup>Viewing and Export use the graphic reader, kpVSD2rdr for Microsoft Visio 2003, 2007, and 2010, and vsdsr for all earlier versions. Image fidelity in Viewing and Export is therefore only supported for versions 2003 and above. Filter uses the graphic reader kpVSD2rdr for Microsoft Visio 2003, 2007, and 2010, and vsdsr for all earlier versions.

<sup>2</sup>Extraction of embedded OLE objects is supported for Filter on Windows platforms only.

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
xlsbsr	Microsoft Excel Binary Format (2007 onwards)	Y	Y	Y	N	Y	N	N	<a href="#">MS_Excel_Binary_2007_Fmt</a>
xlssr	Microsoft Excel (2.2 to 2004)	Y	Y	Y	Y <sup>1</sup>	Y	Y	Y <sup>2</sup>	<a href="#">Excel_2000_Fmt</a> , <a href="#">Excel_95_Fmt</a> , <a href="#">Excel_97_Fmt</a> , <a href="#">Excel_Chart_Fmt</a> , <a href="#">Excel_Fmt</a> , <a href="#">Excel_Macro_Fmt</a>
xlsxsr	Microsoft Excel Windows XML (2007 onwards)	Y	Y	Y	Y	Y	Y	Y	<a href="#">MS_Excel_2007_Fmt</a> , <a href="#">MS_Excel_Macro_2007_Fmt</a>
xmlsr	XML	Y	T	T	N	Y	Y	N	<a href="#">AMF_Fmt</a> , <a href="#">Adobe_XML_Data_Package_Fmt</a> , <a href="#">Atom_Syndication_Fmt</a> , <a href="#">CDXML_Fmt</a> , <a href="#">Chemical_Markup_Language_Fmt</a> , <a href="#">Collada_DAE_Fmt</a> , <a href="#">ESzigno_Fmt</a> , <a href="#">FictionBook_Fmt</a> , <a href="#">Grasshopper_GHX_Fmt</a> , <a href="#">JNLP_Fmt</a> , <a href="#">JavaView_JVX_Fmt</a> , <a href="#">KML_Fmt</a> , <a href="#">MARC_XML_Fmt</a> , <a href="#">METS_Fmt</a> , <a href="#">MODS_Fmt</a> , <a href="#">MS_Excel_XML_Fmt</a> , <a href="#">MS_Management_Pack_MPX_Fmt</a> , <a href="#">MS_Visio_XML_Fmt</a> , <a href="#">MS_Word_XML_Fmt</a> , <a href="#">MXML_Fmt</a> , <a href="#">Metalink_Fmt</a> , <a href="#">Mozilla_XUL_Fmt</a> , <a href="#">MusicXML_Fmt</a> , <a href="#">Open_Diagnostic_Data_Exchange_Fmt</a> , <a href="#">Open_eBook_Fmt</a> , <a href="#">PDF_XML_Forms_Data_Fmt</a> , <a href="#">PLS_Fmt</a> , <a href="#">RDF_XML_Fmt</a> , <a href="#">RSS_Fmt</a> , <a href="#">Really_Simple_Discovery_Fmt</a> , <a href="#">SBML_Fmt</a> , <a href="#">SMIL_Fmt</a> , <a href="#">SPARQL_</a>

<sup>1</sup>Supported using the embedded objects reader olesr.

<sup>2</sup>Microsoft Excel for Windows only

Reader	Description	Filter	Export	View	Extract	Metadata	Charset	H/F	Associated File Formats
									Results_Fmt, SRGS_Fmt, SRU_Fmt, SSML_Fmt, SVG_Fmt, SyncML_Fmt, TEI_Fmt, Tableau_Data_Source_Fmt, Tableau_Map_Source_Fmt, Tableau_Preferences_Fmt, Tableau_Workbook_Fmt, VTK_XML_Fmt, VoiceXML_Fmt, WML_Fmt, Windows_Audio_Playlist_Fmt, XAML_Browser_Application_Fmt, XDF_Fmt, XML_Fmt, XML_Shareable_Playlist_Fmt, XSLT_Fmt, YIN_Fmt
xpssr	Microsoft XML Paper Specification	Y	T	T	N	N	N	N	MS_XPS_Fmt
xywsr	XyWrite / Nota Bene (4.12)	Y	Y	Y	N	N	N	N	XyWrite_Fmt
yimsr <sup>1</sup>	Yahoo! Instant Messenger	Y	Y	Y	N	N	N	N	YIM_Fmt
z7zsr	7-Zip archive (4.57)	N	N	Y	Y	N	n/a	N	Z7Z_Fmt

<sup>1</sup>To successfully use this reader, you must set the KV\_YAHOO\_ID environment variable to the Yahoo user ID. You can optionally set the KV\_OTHER\_YAHOO\_ID environment variable to the other Yahoo user ID. If you do not set it, "Other" is used by default. If you enter incorrect values for the environment variables, erroneous data is generated.

## Appendix C: Character Sets

This section provides information on the handling of character sets in the KeyView suite of products, which includes KeyView Filter SDK, KeyView Export SDK, and KeyView Viewing SDK.

- [Multibyte and Bidirectional Support](#) ..... 152
- [Coded Character Sets](#) ..... 160

### Multibyte and Bidirectional Support

The KeyView SDKs can process files that contain multibyte characters. A multibyte character encoding represents a single character with consecutive bytes. KeyView can also process text from files that contain bidirectional text. Bidirectional text contains both Latin-based text which is read from left to right, and text that is read from right to left (Hebrew and Arabic).

The following table indicates which character encodings are supported by KeyView for each format.

#### Multibyte and bidirectional support

Format	Single-byte	Multibyte	Bidirectional
<b>Archive</b>			
7-Zip (7Z)	n/a	n/a	n/a
AD1 Evidence file	n/a	n/a	n/a
ADJ	n/a	n/a	n/a
B1	n/a	n/a	n/a
BinHex (Hqx)	n/a	n/a	n/a
Bzip2 (BZ2)	n/a	n/a	n/a
EnCase – Expert Witness Compression Format (E01)	n/a	n/a	n/a
GZIP (GZ)	n/a	n/a	n/a
ISO (ISO)	n/a	n/a	n/a
Java Archive (JAR)	n/a	n/a	n/a
Legato EMailXtender Archive (EMX)	n/a	n/a	n/a
MacBinary (BIN)	n/a	n/a	n/a
Mac Disk Copy Disk Image (DMG)	n/a	n/a	n/a
Microsoft Backup File (BKF)	n/a	n/a	n/a



**Multibyte and bidirectional support, continued**

<b>Format</b>	<b>Single-byte</b>	<b>Multibyte</b>	<b>Bidirectional</b>
Microsoft Cabinet format (CAB)	n/a	n/a	n/a
Microsoft Compiled HTML Help (CHM)	n/a	n/a	n/a
Microsoft Compressed Folder (LZH)	n/a	n/a	n/a
PKZip (ZIP)	n/a	n/a	n/a
Microsoft Outlook DBX (DBX)	Y	Y	Y
Microsoft Outlook Offline Storage File (OST)	Y	Y	Y
RAR Archive (RAR)	n/a	n/a	n/a
Tape Archive (TAR)	n/a	n/a	n/a
UNIX Compress (Z)	n/a	n/a	n/a
UUEncoding (UUE)	n/a	n/a	n/a
Windows Scrap File (SHS)	n/a	n/a	n/a
WinZip (ZIP)	n/a	n/a	n/a
<b>Binary</b>			
Executable (EXE)	n/a	n/a	n/a
Link Library (DLL)	n/a	n/a	n/a
<b>Computer-aided Design</b>			
AutoCAD Drawing (DWG)	Y	Y	Y
AutoCAD Drawing Exchange (DXF)	Y	Y	Y
CATIA formats (CAT)	Y	N	N
Microsoft Visio (VSD)	Y	Y	Y
<b>Database</b>			
dBase Database	Y	N	N
Microsoft Access (MDB)	Y	Y	N
Microsoft Project (MPP)	Y	Y	N
<b>Desktop Publishing</b>			
Microsoft Publisher	N	Y	N

**Multibyte and bidirectional support, continued**

<b>Format</b>	<b>Single-byte</b>	<b>Multibyte</b>	<b>Bidirectional</b>
<b>Display</b>			
Adobe Portable Document Format (PDF)	Y	Y <sup>1</sup>	Y
<b>Graphics</b>			
Computer Graphics Metafile (CGM)	Y	N	N
Corel DRAW (CDR)	n/a	n/a	n/a
DCX Fax System (DCX)	Y	N	N
DICOM – Digital Imaging and Communications in Medicine (DCM)	n/a	n/a	n/a
Encapsulated PostScript (EPS)	Y	N	N
Enhanced Metafile (EMF)	Y	Y	N
Graphic Interchange Format (GIF)	n/a	n/a	n/a
JBIG2	n/a	n/a	n/a
JPEG	n/a	n/a	n/a
JPEG 2000	n/a	n/a	n/a
Lotus AMIDraw Graphics (SDW)	n/a	n/a	n/a
Lotus Pic (PIC)	n/a	n/a	n/a
Macintosh Raster (PICT/PCT)	n/a	n/a	n/a
MacPaint (PNTG)	n/a	n/a	n/a
Microsoft Office Drawing (MSO)	n/a	n/a	n/a
Omni Graffle (GRAFFLE)	Y	N	N
PC PaintBrush (PCX)	n/a	n/a	n/a

<sup>1</sup>Multibyte PDFs are supported, provided the PDF document is created by using either Character ID-keyed (CID) fonts, predefined CJK CMap files, or ToUnicode font encodings, and does not contain embedded fonts. See the Adobe website and the Adobe Acrobat documentation for more information. Any multibyte characters that are not supported are displayed using the replacement character. By default, the replacement character is a question mark (?).

To determine the type of font encodings that are used in a PDF, open the PDF in Adobe Acrobat, and select File > Document Info > Fonts. If the Encoding column lists Custom or Embedded encodings, you might encounter problems converting the PDF.

**Multibyte and bidirectional support, continued**

<b>Format</b>	<b>Single-byte</b>	<b>Multibyte</b>	<b>Bidirectional</b>
Portable Network Graphics (PNG)	n/a	n/a	n/a
SGI RGB Image (RGB)	n/a	n/a	n/a
Sun Raster Image (RS)	n/a	n/a	n/a
Tagged Image File (TIFF)	Y	N	N
Truevision Targa (TGA)	n/a	n/a	n/a
Windows Animated Cursor (ANI)	n/a	n/a	n/a
Windows Bitmap (BMP)	n/a	n/a	n/a
Windows Icon Cursor (ICO)	n/a	n/a	n/a
Windows Metafile (WMF)	Y	Y	N
WordPerfect Graphics 1 (WPG)	Y	N	N
WordPerfect Graphics 2 (WPG)	Y	N	N
<b>Mail</b>			
Documentum EMC MF Format	Y	Y	Y
Domino XML Language (DXL)	Y	Y	N
GroupWise FileSurf	Y	N	N
Legato Extender (ONM)	Y	Y	N
Lotus Notes database (NSF)	Y	Y	Y
Mailbox (MBX)	Y	Y	Y
Microsoft Entourage Database	Y	Y	Y
Microsoft Outlook (MSG)	Y	Y	Y
Microsoft Outlook Express (EML)	Y	Y	Y
Microsoft Outlook iCalendar	Y	Y	Y
Microsoft Outlook for Macintosh	Y	Y	Y
Microsoft Outlook Offline Storage File	Y	Y	Y
Microsoft Outlook Personal File Folders (PST)	Y	Y	Y
Microsoft Outlook vCard Contact			
Text Mail (MIME)	Y	Y	Y

**Multibyte and bidirectional support, continued**

<b>Format</b>	<b>Single-byte</b>	<b>Multibyte</b>	<b>Bidirectional</b>
Transport Neutral Encapsulation Format	Y	Y	Y
<b>Multimedia</b>			
Advanced Systems Format (ASF)	n/a	n/a	n/a
Audio Interchange File Format (AIFF)	n/a	n/a	n/a
Microsoft Wave Sound (WAV)	n/a	n/a	n/a
MIDI (MID)	n/a	n/a	n/a
MPEG 1 Audio Layer 3 (MP3)	n/a	n/a	n/a
MPEG 1 Video (MPG)	n/a	n/a	n/a
MPEG 2 Audio (MPEGA)	n/a	n/a	n/a
MPEG 4 Audio (MP4)	n/a	n/a	n/a
NeXT/Sun Audio (AU)	n/a	n/a	n/a
QuickTime Movie (QT/MOV)	n/a	n/a	n/a
Windows Video (AVI)	n/a	n/a	n/a
<b>Presentations</b>			
Apple iWork Keynote (GZ)	Y	Y	N
Applix Presents (AG)	character set 1252 only	N	N
Corel Presentations (SHW)	character set 1252 only	N	N
Extensible Forms Description Language (XFD)	Y	Y	N
Lotus Freelance Graphics 2 (PRE)	character set 850 only	N	N
Lotus Freelance Graphics (PRZ)	Y	Japanese, Simple Chinese, Traditional Chinese, Thai only	N
Macromedia Flash (SWF)	Y	Y	N
Microsoft OneNote	Y	Y	N
Microsoft PowerPoint PC (PPT)	character set 1252 only	Traditional Chinese only	N

**Multibyte and bidirectional support, continued**

<b>Format</b>	<b>Single-byte</b>	<b>Multibyte</b>	<b>Bidirectional</b>
Microsoft PowerPoint Windows (PPT)	Y	Japanese, Simple Chinese, Traditional Chinese, Korean only	Hebrew only
Microsoft PowerPoint Macintosh (PPT)	Y	N	N
Microsoft PowerPoint Windows XML 2007 and 2010 (PPTX)	Y	Y	Y
OASIS Open Document (ODP)	Y	Y	N
OpenOffice Impress (ODP)	Y	Y	N
StarOffice Impress (ODP)	Y	Y	N
<b>Spreadsheets</b>			
Apple iWork Numbers (GZ)	Y	Y	N
Applix Spreadsheets (AS)	character set 1252 only	N	N
Comma Separated Values (CSV)	character set 1252 only	N	N
Corel Quattro Pro (QPW/WB3)	Y	N	N
Data Interchange Format (DIF)	Y	Y	Y <sup>1</sup>
Lotus 1-2-3 (123)	Y	Y	Y
Lotus 1-2-3 (WK4)	Y	Y	N
Lotus 123 Charts (123)	Y	Y	N
Microsoft Excel Charts (XLS)	Y	Y	N
Microsoft Excel Macintosh (XLS)	Y	N	N
Microsoft Excel Windows (XLS)	Y	Y	Y <sup>2</sup>
Microsoft Excel Windows XML 2007 (XLSX)	Y	Y	N
Microsoft Office Excel Binary Format (XLSB)	Y	Y	N
Microsoft Works Spreadsheet (S30/S40)	Y	N	N
OASIS Open Document (ODS)	Y	Y	N

**Multibyte and bidirectional support, continued**

<b>Format</b>	<b>Single-byte</b>	<b>Multibyte</b>	<b>Bidirectional</b>
OpenOffice Calc (ODS)	Y	Y	N
StarOffice Calc (ODS)	Y	Y	N
<b>Text and Markup</b>			
ANSI (TXT)	Y	Y	Y <sup>2</sup>
ASCII (TXT)	Y	Y	Y <sup>2</sup>
HTML (HTM)	Y	Y	Y <sup>2, 2</sup>
Microsoft Excel Windows XML 2003	Y	Y	Y
Microsoft Word for Windows XML 2003	Y	Y	Y
Microsoft Visio XML 2003	Y	Y	Y
Rich Text Format (RTF)	Y	Y	Y <sup>3</sup>
Unicode HTML	Y	Y	Y <sup>2,3</sup>
Unicode Text (TXT)	Y	Y	Y <sup>2</sup>
XHTML	Y	Y	Y <sup>3</sup>
XML	Y	Y	Y
<b>Word Processing</b>			
Adobe Maker Interchange Format (MIF)	character set 1252 only	N	N
Apple iChat Log (ICHAT)	Y	Y	N
Apple iWork Pages (GZ)	Y	Y	N
Applix Words (AW)	character set 1252 only	N	N
DisplayWrite (IP)	character set 500, 1026 only	N	N
Folio Flat File (FFF)	character set 1252 only	N	N
Founder Chinese E-paper Basic (CEB)	Y	Y	N
Fujitsu Oasys (OA2)	Y	Y	N

**Multibyte and bidirectional support, continued**

<b>Format</b>	<b>Single-byte</b>	<b>Multibyte</b>	<b>Bidirectional</b>
Hangul (HWP)	Y	Y	N
Health level7 (HL7)	Y	Y	Y
IBM DCA/RTF (DC)	character sets 500, 1026 only	N	N
JustSystems Ichitaro (JTD)	Y	Y	N
Lotus AMI Pro (SAM)	Y	Simple Chinese, Traditional Chinese, Japanese, Thai only	Y
Lotus AMI Professional Write Plus (AMI)	Y	Simple Chinese, Traditional Chinese, Japanese, Thai only	N
Lotus Word Pro (LWP)	Y	Y	Y <sup>3</sup>
Lotus SmartMaster (MWP)	Y	Y	N
Microsoft Word PC (DOC)	character set 1252 only	N	N
Microsoft Word Windows V1-2 (DOC)	Y	N	N
Microsoft Word Windows V6, 7, 8, 95 (DOC)	Y	Y	Hebrew only <sup>3</sup>
Microsoft Word Windows V97 through 2003 (DOC)	Y	Y	Y <sup>3</sup>
Microsoft Word Windows XML 2007 and 2010 (DOCX)	Y	Y	Y <sup>3</sup>
Microsoft Word Macintosh (DOC)	Y	N	Y <sup>3</sup>
Microsoft Works (WPS)	Y	Japanese only	N
Microsoft Write (WRI)	Y	Japanese only	N
OASIS Open Document (ODT)	Y	Y	N
Omni Outliner (OO3)	Y	Y	N
OpenOffice Writer (ODT)	Y	Y	N
Open Publication Structure eBook (EPUB)	Y	Y	Y
StarOffice Writer (ODT)	Y	Y	N
Skype Log (DBB)	Y	Y (null-terminated charsets)	N

### Multibyte and bidirectional support, continued

Format	Single-byte	Multibyte	Bidirectional
WordPad (RTF)	Y	Y	Y
WordPerfect Linux (WPS)	Y	N	N
WordPerfect Macintosh (WPS)	Y	N	N
WordPerfect Windows (WO)	Y	N	N
XML Paper Specification (XPS)	Y	Y	N
XYWrite Windows (XY4)	character set 1252 only	N	N
Yahoo! Instant Messenger (DAT)	Y	Y (null-terminated charsets)	N

<sup>1</sup>The text direction in the output file might not be correct.

<sup>2</sup>In Export SDK, a bidirectional right-to-left (RTL) tag is extracted from this format and included in the direction element (<dir=RTL>) of the output.

## Coded Character Sets

This section lists which character set you can use to specify the target character set. The coded character sets are enumerated in `kvcharset.h` and defined in the Export class.

### Code Character Sets

Coded Character Set	Description	Can be set as target charset?
KVCS_UNKNOWN	Unknown character set	N
KVCS_SJIS	Japanese (uses multibyte encoding), cp932	Y
KVCS_GB	Simplified Chinese (China, Singapore, Malaysia) cp936	Y
KVCS_BIG5	Traditional Chinese (Taiwan, Hong Kong, Macaw) cp950	Y
KVCS_KSC	Korean, cp949	Y
KVCS_1250	Windows Latin 2 (Central Europe)	Y
KVCS_1251	Windows Cyrillic (Slavic)	Y



**Code Character Sets, continued**

<b>Coded Character Set</b>	<b>Description</b>	<b>Can be set as target charset?</b>
KVCS_1252	Windows Latin 1 (ANSI)	Y
KVCS_1253	Windows Greek	Y
KVCS_1254	Windows Latin 5 (Turkish)	Y
KVCS_1255	Windows Hebrew	Y
KVCS_1256	Windows Arabic	Y
KVCS_1257	Windows Baltic Rim	Y
KVCS_1258	Windows Vietnamese	Y
KVCS_8859_1	ISO 8859-1 Latin 1 (Western Europe, Latin America)	Y
KVCS_8859_2	ISO 8859-2 Latin 2 (Central Eastern Europe)	Y
KVCS_8859_3	ISO 8859-3 Latin 3 (S.E. Europe)	Y
KVCS_8859_4	ISO 8859-4 Latin 4 (Scandinavia/Baltic)	Y
KVCS_8859_5	ISO 8859-5 Latin/Cyrillic	Y
KVCS_8859_6	ISO 8859-6 Latin/Arabic	Y
KVCS_8859_7	ISO 8859-7 Latin/Greek	Y
KVCS_8859_8	ISO 8859-8 Latin/Hebrew	Y
KVCS_8859_9	ISO 8859-9 Latin/Turkish	Y
KVCS_8859_14	ISO 8859-14	Y
KVCS_8859_15	ISO 8859-15	Y
KVCS_437	DOS Latin US	Y
KVCS_737	DOS Greek	Y
KVCS_775	DOS Baltic Rim	Y
KVCS_850	DOS Latin 1	Y
KVCS_851	DOS Greek	Y
KVCS_852	DOS Latin 2	Y
KVCS_855	DOS Cyrillic	Y

**Code Character Sets, continued**

<b>Coded Character Set</b>	<b>Description</b>	<b>Can be set as target charset?</b>
KVCS_857	DOS Turkish	Y
KVCS_860	DOS Portuguese	Y
KVCS_861	DOS Icelandic	Y
KVCS_862	DOS Hebrew	Y
KVCS_863	DOS Canadian French	Y
KVCS_864	DOS Arabic	Y
KVCS_865	DOS Nordic	Y
KVCS_866	DOS Cyrillic Russian	Y
KVCS_869	DOS Greek 2	Y
KVCS_874	Thai	Y
KVCS_PDFMACDOC	PDF MAC DOC	N
KVCS_PDFWINDOC	PDF WIN DOC	N
KVCS_STDENC	Adobe Standard Encoding	N
KVCS_PDFDOC	Adobe standard PDF character set	N
KVCS_037	EBCDIC code page 037	Y
KVCS_1026	EBCDIC code page 1026	Y
KVCS_500	EBCDIC code page 500	Y
KVCS_875	EBCDIC code page 875	Y
KVCS_LMBCS	Lotus multibyte character set Group 1 and Group 2	N
KVCS_UNICODE	Unicode, UCS-2	
KVCS_UTF16	16-bit Unicode transformation format	
KVCS_UTF8	8-bit Unicode transformation format	Y
KVCS_UTF7	7-bit Unicode transformation format	Y
KVCS_2022_JP	ISO 2022-JP, Japanese mail and news safe encoding (JIS-7)	N

**Code Character Sets, continued**

<b>Coded Character Set</b>	<b>Description</b>	<b>Can be set as target charset?</b>
KVCS_2022_CN	ISO 2022-CN, Chinese mail and news safe encoding	N
KVCS_2022_KR	ISO 2022-KR, Korean mail and news safe encoding	N
KVCS_WP6X	Word Perfect 6.x and higher character mapping	N
KVCS_10000	Western European (Macintosh)	Y
KVCS_KSC5601	Unified Hangul	Y
KVCS_GB2312	Simplified Chinese (China, Singapore, Hong Kong)	Y
KVCS_GB12345	Traditional Chinese (China) - analogue of GB2312	Y
KVCS_CNS11643	Traditional Chinese - Taiwan. Supplement to Big5	Y
KVCS_JIS0201	Japanese - contains ASCII character set (JIS-Roman)	N
KVCS_JIS0212	Japanese. Supplement to JIS0208.	Y
KVCS_EUC_JP	Japanese Extended UNIX Code	Y
KVCS_EUC_GB	Simplified Chinese Extended UNIX Code	Y
KVCS_EUC_BIG5	Traditional Chinese Extended UNIX Code	N
KVCS_EUC_KSC	Korean Extended UNIX Code	N
KVCS_424	EBCDIC Hebrew	N
KVCS_856	PC Hebrew (old)	N
KVCS_1006	IBM AIX Pakistan (Urdu)	N
KVCS_KOI8R	Cyrillic (Russian)	Y
KVCS_PDF_JAPAN1	Adobe-Japan1-2 character collection	N
KVCS_PDF_KOREA1	Adobe-Korea1-0 character collection	N
KVCS_PDF_GB1	Adobe-GB1-3 character collection	N
KVCS_PDF_	Adobe-CNS1-2 character collection	N

**Code Character Sets, continued**

<b>Coded Character Set</b>	<b>Description</b>	<b>Can be set as target charset?</b>
CNS1		
KVCS_2022_JP_8	ISO 2022-JP, Japanese mail and news safe encoding (JIS8)	N
KVCS_720	Arabic DOS-720	Y
KVCS_VISCII	Vietnamese VISCII	Y
KVCS_8859_10	ISO 8859-10 (Latin 6 Nordic)	Y <sup>1</sup>
KVCS_8859_13	ISO 8859-13 (Latin 7 Baltic)	Y <sup>1</sup>
KVCS_57002	ISCII Devanagari (x-iscii-de)	Y <sup>1</sup>
KVCS_57003	ISCII Bengali (x-iscii-be)	Y <sup>1</sup>
KVCS_57004	ISCII Tamil (x-iscii-ta)	Y <sup>1</sup>
KVCS_57005	ISCII Telugu (x-iscii-te)	Y <sup>1</sup>
KVCS_57006	ISCII Assamese (x-iscii-as)	Y <sup>1</sup>
KVCS_57007	ISCII Oriya (x-iscii-or)	Y <sup>1</sup>
KVCS_57008	ISCII Kannada (x-iscii-ka)	Y <sup>1</sup>
KVCS_57009	ISCII Malayalam (x-iscii-ma)	Y <sup>1</sup>
KVCS_57010	ISCII Gujarathi (x-iscii-gu)	Y <sup>1</sup>
KVCS_57011	ISCII Panjabi (x-iscii-pa)	Y <sup>1</sup>
KVCS_GB18030b2	Reserved for internal use	n/a
KVCS_GB18030	GB18030 (Chinese 4-byte character set)	Y
KVCS_8859_11	ISO 8859-11 (Thai)	Y
KVCS_8859_16	ISO 8859-16 (Latin-10 South-Eastern Europe)	Y
KVCS_ARABICMAC	Arabic Mac (x-mac-arabic)	Y
KVCS_KOI8U	Cyrillic (KOI8U Ukrainian)	Y
KVCS_HZGB2312	The 7-bit representation of GB 2312 / RFC 1842	n/a
KVCS_UTF32	32-bit Unicode transformation format	N

<sup>1</sup>The character set cannot be forced as output in Export SDK and Viewing SDK because the character set is not supported by the major browsers.

# Appendix D: File Format Detection

This section describes how file formats are detected in the KeyView Export SDK.

- [Introduction](#) ..... 166
- [Extract Format Information](#) ..... 166
- [Determine Format Support](#) ..... 166
- [Translate Format Information](#) ..... 168
- [Determine a Document Reader](#) ..... 170
- [Category Values in formats\\_e.ini](#) ..... 170

## Introduction

The KeyView format detection module (`kwad`) detects a file's format, and reports the information to the API, which in turn reports the information to the developer's application. If the detected format is supported by the KeyView SDK, the detection module also loads the appropriate structured access layer and document reader for further processing.

For a list of supported formats, see [Document Readers, on page 122](#).

## Extract Format Information

You can extract format information from a document by using the `fpGetStreamInfo()` function. If required, this format information can then be reported to the developer's application. The `fpGetStreamInfo()` function extracts format information, such as file class, format, and version, and populates the `ADDOCINFO` structure. This structure is defined in the `adinfo.h` header file.

For information on how to translate the extracted format information, see [Translate Format Information, on page 168](#).

## Determine Format Support

After the file format is extracted, the detection module uses the `formats_e.ini` file to determine whether the format is supported by KeyView, and the appropriate structured access layer and reader to load.

The `formats_e.ini` file is in the directory `install\OS\bin`, where `install` is the path name of the Export installation directory and `OS` is the name of the operating system. It contains the following information:

- Coded format information. To translate this information, see [Translate Format Information, on page 168](#).
- The reader associated with each format. See [Determine a Document Reader, on page 170](#).

- Configuration parameters for out-of-process conversions.
- Locale settings for internal use.

Below are some entries from the `formats_e.ini` file:

```
123=mw
152=xyw
178=wp6
189=mw6
2=af
200=pdf
205=mb
210=htm
251=htm
```

**NOTE:** The `formats_e.ini` file applies to all formats except graphics. Detection of graphics formats is handled by an internal module named KeyView Picture Interchange Format (KPIF).

## Refine Detection of Text Files

During text detection, KeyView analyzes the first 1 kB and last 1 kB of data in a document; if less than 10% of that data consists of non-ASCII characters, KeyView detects the document as a text file.

However, depending on the type of documents you are working with, the default settings might not provide the desired level of accuracy. Configuration flags allow you to change the amount of data to read at the end of a file, the percentage of non-ASCII characters permitted in a text file, and whether to use or ignore the file extension to determine the document format.

## Change the Amount of File Data to Read

During file detection, KeyView reads characters from the beginning and end of a file—by default, it reads the first and last 1,024 bytes of data. Large text files might contain many irrelevant characters at the end of a file, so KeyView might not accurately detect the file format. You can set a configuration flag to increase the amount of data to read from the end of a file during detection.

### To change the amount of data to read during detection

- In the `formats_e.ini` file, set the following flag in the `detection_flags` section:

```
[detection_flags]
non_ascii_chars_end_block_size=kB
```

where *kB* is the number of kilobytes to read from the end of the file, from 0 to 10. The default value is 1.

**NOTE:** The file size must be greater than the value specified in the flag. If the flag value is greater than the file size, KeyView does not use the flag.

## Change the Percentage of Allowed Non-ASCII Characters

By default, if less than 10% of the analyzed data in a document consists of non-ASCII characters, it is detected as a text file. Depending on the type of files you are working with, changing the default percentage might increase detection accuracy.

### To change the percentage of non-ASCII characters allowed in text files

- In the `formats_e.ini` file, set the following flag in the `detection_flags` section:

```
[detection_flags]
non_ascii_chars_in_text=N
```

where *N* is the percentage of non-ASCII characters to allow in text files. Files that contain a lower percentage of non-ASCII characters than *N* are detected as text files. The default value is 10.

## Use the File Extension for Detection

Sometimes KeyView detects certain file formats (such as CSV) as ASCII because of the content of the documents. In such cases, you can configure KeyView to use the file extension to determine the document format. Using the file extension can improve detection of formats such as CSV, but might not detect text files successfully if they have incorrect file extensions.

### To use the file extension for ASCII files during detection

- In the `formats.ini` file, set the following flag in the `detection_flags` section:

```
[detection_flags]
use_extension_for_ascii=1
```

The default is 0 (do not use the file extension).

## Allow Consecutive NULL Bytes in a Text File

By default, if a document contains consecutive NULL bytes, it is not detected as text. Depending on the type of files you are working with, changing the default might increase detection accuracy.

### To allow consecutive NULL bytes of ASCII characters in text files

In the `formats.ini` file, set the following flag in the `detection_flags` section:

```
[detection_flags]
ascii_allow_null_bytes=1
```

The default value is 0 (do not allow consecutive NULL bytes).

## Translate Format Information

Format information can include file attributes in the following categories:



- Major format
- File class
- Minor format
- Major version
- Minor version

Not all categories are required. Many formats only include major format and file class, or major format only.

The format information has the following structure:

```
MajorFormat.FileClass.MinorFormat.MajorVersion.MinorVersion
```

For example:

```
81.2.0.9.0
```

Each number in the format information represents a file attribute. The entry 81.2.0.9.0 represents a Lotus 1-2-3 Spreadsheet file version 9.0, where:

81 = Lotus 1-2-3 Spreadsheet (major format)

2 = Spreadsheet (file class)

0 = not defined (minor format)

9 = 9 (major version)

0 = 0 (minor version)

The example above applies to `formats_e.ini` file. When extracting format information by using the `fpGetStreamInfo()` function method, the same format information is represented as 294.2.0.9.

**NOTE:** The format values returned by `fpGetStreamInfo()` differ from those in `formats_e.ini` because the former defines a unique ID for each major format, whereas the latter uses a major version, minor version, and minor format to distinguish between formats.

## Distinguish Between Formats

The `ADDDOCINFO` structure method provides a unique ID for each major format. For example, a call to `fpGetStreamInfo()` returns 351.1.0 for a Microsoft Word 2003 XML format. The major format 351 is unique to this format.

Unlike `ADDDOCINFO`, the `formats_e.ini` file distinguishes between formats by using the major version number. For example, in `formats_e.ini`, a Microsoft Word 2003 XML format is defined as 285.1.0.100.0. The major format 285 and file class 1 are the same values for generic XML. The major version 100 distinguishes the format as Microsoft Word 2003 XML.

The major version is used in `formats_e.ini` to specify the following formats:

- The Microsoft Office 2003 XML format has the same major format and file class as generic XML (285.1). It is distinguished from generic XML by using the following major versions:

- Word: 100
- Excel: 101
- Visio: 110
- The XHTML format has the same major format and file class as HTML (210.1). It is distinguished from HTML by using the major version 100.

## Determine a Document Reader

The format detection module uses the `formats_e.ini` file to determine whether a format is supported and which reader should be used to parse a format. The entries in the `formats_e.ini` file lists each format's coded value, and an abbreviation for the format's reader. For example:

```
81.2.0.9.0=1123
```

The reader abbreviation is a truncated version of the reader's library name. Adding "sr" to the end of an abbreviation creates the name of the reader. The example entry above specifies that a Lotus 1-2-3 Spreadsheet file version 9.0 is parsed by the Lotus 1-2-3 reader, 1123sr.

[Files Required for Redistribution, on page 174](#) lists the document readers provided with KeyView.

## Category Values in `formats_e.ini`

The [Supported Formats](#) section lists all of the file formats that can be detected by KeyView, with associated category values for use in the `formats_e.ini` file. The following tables provide the list of possible file classes and minor formats.

- [File Classes](#)
- [Minor Formats](#)

### File Classes

Attribute Number	Description	File class
0	No file class	AutoDetNoFormat
01	Word processor	adWORDPROCESSOR
02	Spreadsheet	adSPREADSHEET
03	Database	adDATABASE
04	Raster image	adRASTERIMAGE
05	Vector graphic	adVECTORGRAPHIC
06	Presentation	adPRESENTATION

**File Classes, continued**

Attribute Number	Description	File class
07	Executable	adEXECUTABLE
08	Encapsulation	adENCAPSULATION
09	Sound	adSOUND
10	Desktop publishing	adDESKTOPPUBLSH
11	Outline/planning	adOUTLINE
12	Miscellaneous	adMISC
13	Mixed format	adMIXED
14	Font	adFONT
15	Time scheduling	adSCHEDULE
16	Communications	adCOMMUNICATION
17	Object module	adOBJECTMODULE
18	Library module	adLIBRARY
19	Fax	adFAXFORMAT
20	Movie	adMOVIE
21	Animation	adANIMATION
22	Source Code	adSOURCECODE
23	Computer-Aided Design	adCAD
24	BI and analysis tools	adANALYTICS
25	Scientific data	adSCIENTIFIC
26	Geographic Info System	adGIS

**Minor Formats**

Attribute Number	Minor Format
00	Minor format not defined
01	Standard
02	Book

**Minor Formats, continued**

<b>Attribute Number</b>	<b>Minor Format</b>
03	Chart
04	Macro
05	Text
06	Binary
07	PC
08	Windows
09	DOS
10	Macintosh
11	RGB
12	TIFF
13	IFF
14	Experimental
15	Format Information
16	RLE
17	Symbol
18	Old
19	Footnote
20	Style
21	Palette
22	Configuration
23	Activity
24	Resource
25	Calculation
26	Glossary
27	Spelling
28	Thesaurus

**Minor Formats, continued**

<b>Attribute Number</b>	<b>Minor Format</b>
29	Hyphenation
30	Miscellaneous
31	UNIX
32	VAX
33	Driver
34	Archive

# Appendix E: Files Required for Redistribution

This section lists the Export files that can be redistributed in your applications under the licensing agreement. Unless noted, these files are in the directory *install\OS\bin*, where *install* is the path of the Export installation directory and *OS* is the operating system platform.

- [Core Files](#) ..... 174
- [Support Files](#) ..... 175
- [Document Readers and Writers](#) ..... 177

**NOTE:** On Windows systems, the libraries are .dll files. On UNIX systems, the libraries are .so, .a, or .sl files.

## Core Files

The following core files can be redistributed with your application.

File	Description
formats_e.ini	Initialization file. For more information on this file, see <a href="#">Determine Format Support, on page 166</a> .
*htmllexport.*	Required by the Java API.
KeyView.jar	Interface for Java support. <b>NOTE:</b> This file can be found at the path <i>install/javaapi/KeyView.jar</i> where <i>install</i> is the Export SDK installation directory.
kpifcnvt.*	Graphic conversion routines.
kpifutil.*	Graphic utility routines.
kvdecrypt.*	Decryption utility functions
kvxtract.*	File Extraction interface.
kvexport.*	Export C API. Interface to the HTML and XML Export C APIs.
kvexportdotnet.*	Interface for .NET support.
kvolefio.*	Embedded OLE object writer.
kvpdf.*	PDF Export C API.
kvutil.*	Internal KeyView utility functions.
kvxpgsa.*	Interface between presentations or graphic readers and the Export API.

File	Description
kvxssa.*	Interface between spreadsheet readers and the Export API.
kvxwpsa.*	Interface between word processing readers and the Export API.
kvzip.*	Zip writer
kwad.*	File auto-recognition module.
regsvr32.exe	A Microsoft Windows program used to register in-process COM objects.
txtcnv.*	Converter for document token stream.
*xmlexport.*	Required by the Java API.
vcredist\*	(Windows platforms only) Microsoft Visual C++ Redistributable Packages. <b>NOTE:</b> This folder can be found in the Export SDK installation directory.

## Support Files

The following support files can be redistributed with your application.

File	Description
datafiles\*	(Folder) Required by kvlangdetect.
NSFtemplates\*	(Folder) Templates used by nsfsr to format Lotus mail notes.
7z.*	Required by z7zsr and multiarcsr.
bentofio.*	Required by 1123sr.* and kpprzrdr.*.
browser.dll	Required by PDF export on Windows.
cbmap.map	Character mappings for Adobe Portable Document Format (PDF).
CEBDLL.dll	Required by cebsr.
chartbls.ux	Character mapping tables.
chmdll.*	Required by chmsr.
codeidentifierplugin.*	Required for source code identification.
cpstsdk*	Required by pstxsr.
DFECore.dll	Required by cebsr.
Filter.dll	Required by cebsr.
headless_lib.pak	Required by PDF export on Windows.

File	Description
icudtl.dat	Required by PDF export on Windows.
kp3dwrld.*	Required for 3D charts.
kpchtrdr.*	Required for all spreadsheets (chart support).
kpjavwrt.*	Java utility routines.
kpjpeg.*	JPEG file interchange format shared routines.
kppng.*	Portable Network Graphics (PNG) utilities.
kvlangdetect.*	Utility functions for language and character set detection.
kvxconfig.ini	Contains element extraction settings for source XML files.
kvgraph.*	Required for all spreadsheets (chart support).
kvpie.*	Required for all spreadsheets (chart support).
kvradar.*	Required for all spreadsheets (chart support).
kv.lic	Contains license information for KeyView products. This file is opened and validated when a KeyView API is used.
kvraster.class	Java program used to convert vector graphics on UNIX and Linux.
kvthread.*	Required for multithreaded out-of-process functionality.
kvVector.class	Java applet used to convert vector graphics on UNIX and Linux.
kvvector.jar	Java applet used to convert vector graphics on UNIX and Linux. This must reside in the output directory.
*langdetecttext.*	Required by kvlangdetect.*
libbrowser.so	Required by PDF export on Linux.
libcrypto*	SSL utility functions used by KeyView mail format readers.
libgcc_s.so.1	Required by PDF export on Linux.
libgomp.so.1	Required by PDF export on Linux.
libpff.*	Required by pffsr.
libstdc++.so.6	Required by PDF export on Linux.
libstlport.so.1	(Solaris platforms only) Solaris Studio Redistributable. This file is located in <i>install/OS/lib</i> .
libwkoopclient.so	Required by PDF export on Linux.



File	Description
natives_blob.bin	Required by PDF export on Windows.
oleaut32.*	Microsoft OLE Automation Controls.
olepro32.*	Microsoft OLE property support library.
Osmesa.dll	Required by PDF export on Windows.
servant.*	Executable required for out-of-process conversions.
snapshot_blob.bin	Required by PDF export on Windows.
unzipjpg.*	Required for JPEG decompression.
WKOOP.cfg	Configuration information required by WKOOP.exe (in PDF Export).
WKOOP.exe	Executable required for PDF export.
wkoopClient.dll	Required by PDF export on Windows.
wpmap.*	Extended character mapping for WordPerfect and Corel Presentation.
xmlsh.*	Contains a library of content handlers for each XML file type. Required by the Expat XML parser.

## Document Readers and Writers

The following readers and writers can be redistributed with your application.

File	Description
ad1sr.*	AD1 Evidence file reader
afsr.*	ASCII reader
assr.*	Applix spreadsheet reader
awsr.*	Applix Words reader
bkfsr.*	Microsoft Backup File reader
bmpsr.*	Windows bitmap (BMP) reader
bzip2sr.*	Bzip2 reader
cabsr.*	Microsoft Cabinet format reader
cebsr.*	Founder Chinese E-paper Basic reader
chmsr.*	Microsoft Compiled HTML Help reader

File	Description
csvsr.*	Comma-Separated Values reader
dbfsr.*	dBase Database reader
dbxsr.*	Microsoft Outlook Express DBX reader
dcasr.*	Document Content Architecture/Revisable Form Text (DCA/RFT) reader
difsr.*	Data Interchange Format reader
dmgsr.*	Mac Disk Copy Disk Image File reader
dw4sr.*	DisplayWrite 4 reader
dx1sr.*	Domino XML Language reader
em1sr.*	Microsoft Outlook Express (EML) reader. This is used to convert EML files when the MBX reader is not licensed.
emxsr.*	Legato EMailXtender archive (EMX) reader
encasesr.*	Expert Witness Compression Format (EnCase) v6 reader
encase2sr.*	Expert Witness Compression Format (EnCase) v7 reader
entsr.*	Microsoft Entourage Database Format reader
epubsr.*	Open Publication Structure eBook reader
foliosr.*	Folio Flat File reader
gdsiisr.*	Graphic Database System (GDSII) reader
gifsr.*	Graphics Interchange Format (GIF) reader
gwfssr.*	GroupWise FileSurf reader
h17sr.*	Health level7 reader (metadata only)
htmsr.*	HTML and XHTML reader
hwposr.*	Hangul 2002, 2005, 2007 reader
hwpsr.*	Hangul 97 reader
ichatsr.*	Apple iChat Log reader
icssr.*	Microsoft Outlook iCalendar reader
isosr.*	ISO-9660 CD Disc Image Format reader
iwss13sr.*	iWork 13 Numbers reader
iwsssr.*	Apple iWork Numbers reader

File	Description
iwwp13sr.*	iWork 13 Pages reader
iwwpsr.*	Apple iWork Pages reader
jp2000sr.*	JPEG 2000 metadata reader
jpgsr.*	JPEG metadata reader
jtdsr.*	JustSystems Ichitaro reader
kpagrdr.*	Applix Presents reader
kpanindr.*	Animated cursor reader
kpbmprdr.*	Windows Bitmap reader
kpbmpwrt.*	Windows Bitmap writer
kpcdrdr.*	Corel Draw
kpcgmrdr.*	Computer Graphics Metafile reader
kpcgmwrt.*	Computer Graphics Metafile writer
kpdcxrdr.*	DCX (fax) reader
kpdwgrdr.*	AutoCAD Drawing format reader
kpdfxfrdr.*	AutoCAD Drawing Exchange format reader
kpemfrdr.*	Enhanced Metafile reader
kpemfwrt.*	Enhanced Metafile writer
kpepsrdr.*	Encapsulated PostScript (EPS) reader
kpgflrdr.*	OmniGraffle Picture reader
kpgifrdr.*	Graphic Interchange Format (GIF) reader
kpgifwrt.*	Graphic Interchange Format (GIF) writer
kpicondr.*	Windows Icon reader
kpiwpgdrdr.*	Apple iWork Keynote reader
kpiwpg13rdr.*	Apple iWork Keynote 13 reader
kpjbig2rdr.*	JBIG2 reader
kpjp2000rdr.*	JPEG 2000 reader
kpjpgdrdr.*	JPEG file interchange format reader

File	Description
kpjpgwrt.*	JPEG file interchange format writer
kpmacrdr.*	MacPaint reader
kpmsondr.*	Microsoft Office Drawing Objects (office 97, 2000, and XP) reader
kpnbmpdr.*	IBM Notes Bitmap reader (for embedded images in DXL files)
kpodfrdr.*	Oasis Open Document Format presentation (ODP) reader
kpodardr.*	AutoCAD reader (Windows only)
kpoxdrdr.*	Open Office XML Diagram Graphics reader
kpp40rdr.*	Microsoft PowerPoint PC 4.0 and PowerPoint Mac reader
kpp95rdr.*	Microsoft PowerPoint 95 reader
kpp97rdr.*	Microsoft PowerPoint 97 and higher reader
kppctrdr.*	Macintosh Quick Draw Picture (PICT) reader
kppcxrdr.*	PC Paintbrush (PCX) reader
kppdfdrdr.*	Adobe Portable Document File (PDF) graphic-based reader
kppdf2rdr.*	High-fidelity Adobe Portable Document File (PDF) graphic-based reader
kppicrdr.*	Pictor PC Paint format (PIC) reader
kppngrdr.*	Portable Network Graphics (PNG) reader
kppngwrt.*	Portable Network Graphics (PNG) writer
kpppxrdr.*	Microsoft PowerPoint XML reader 2007
kpprerdr.*	Lotus Freelance Graphics for Windows V2.0 reader
kpprzrdr.*	Lotus Freelance Graphics 96/97/98 reader
kprawrdr.*	ODA Internal Raster (RAW) Picture reader
kpsddrdr.*	StarOffice Draw / Impress reader
kpsdwrdr.*	Lotus Ami Pro Graphics reader
kpsgirdr.*	SGI RGB reader
kpshwrdr.*	Corel Presentations reader
kpsprdr.*	Shape Stream reader
kpsvgwrt.*	Scalable Vector Graphics (SVG) writer

File	Description
kpsunrdr.*	Sun Raster reader
kptgardr.*	Truevision Targa reader
kptifdr.*	Tagged Image File Format (TIFF) reader
kpvsd2rdr.*	Microsoft Visio reader
kpvsdxrdr.*	Microsoft Visio 2013 reader
kpwg2rdr.*	WordPerfect Graphics 2 reader
kpwmfrdr.*	Windows Metafile reader
kpwmfwrt.*	Windows Metafile writer
kpwgrdr.*	WordPerfect Graphics 1 reader
kpxfd1rdr.*	Extensible Forms Description Language reader
kvgzsr.*	GZIP reader
kvhqsr.*	BinHex reader
kvzeesr.*	UNIX Compress reader
l123sr.*	Lotus 123 v96/97/98 reader
lasr.*	Lotus AMI Pro reader
ltbenn30.dll	Lotus Word Pro support (supported on Windows x86 platform only)
ltscsn10.dll	Lotus Word Pro support (supported on Windows x86 platform only)
lwpapin.dll	Lotus Word Pro support (supported on Windows x86 platform only)
lwppann.dll	Lotus Word Pro support (supported on Windows x86 platform only)
lwpsr.dll	Lotus Word Pro reader (supported on Windows x86 platform only)
lzhsr.*	Microsoft Compression Folder reader
macbinsr.*	MacBinary reader
mbsr.*	Microsoft Word Macintosh reader
mbxsr.*	Mailbox (MBX) <sup>1</sup> and Microsoft Outlook Express (EML) reader
mdbsr.*	Microsoft Access reader.

<sup>1</sup>This reader is an advanced feature and is sold and licensed separately from KeyView Export SDK.

File	Description
mhtsr.*	MIME HTML reader
mifsr.*	Adobe Maker Interchange Format reader
misr.*	Microsoft Word 2 reader
mp3sr.*	MP3 reader for metadata extraction
mppsр.*	Microsoft Project reader
msgsr.*	Microsoft Outlook (MSG) reader
mspubsr.*	Microsoft Publisher reader
msw6sr.*	Microsoft Works 6 and 2000 reader
mswsr.*	Microsoft Works V1 and 2 reader
multiarcsr.*	ARJ reader
mw6sr.*	Microsoft Word 95 reader
mw8sr.*	Microsoft Word 97, 2000, and XP reader
mwsr.*	Microsoft Word for DOS and Microsoft Write reader
mwssr.*	Microsoft Works Spreadsheet reader
mwxsr.*	Microsoft Word 2007 XML reader
nsfsr.*	IBM Notes Database reader <sup>1</sup>
oa2sr.*	Fujitsu Oasys reader
odfssr.*	Oasis Open Document Format spreadsheets (ODS) reader
odfwpsr.*	Oasis Open Document Format word processing (ODT) reader
olesr.*	Embedded OLE object reader.
olmsr.*	Microsoft Outlook for Macintosh reader
onealtsr.*	Microsoft OneNote Alternate Format reader
onesr.*	Microsoft OneNote Format reader
onmsr.*	Legato EMailXtender Native Message reader
oo3sr.*	Omni Outliner reader

<sup>1</sup>This reader is an advanced feature and is sold and licensed separately from KeyView Export SDK.

File	Description
pbixsr.*	Microsoft Power BI file (PBIX) reader
pdf2sr.*	Alternative Adobe Portable Document Format file (PDF) reader
pdfsr.*	Adobe Portable Document File (PDF) reader
pffsr.*	Microsoft Outlook Offline Storage File reader
pfilesr.*	Microsoft Rights Management System encryption file reader
pngsr.*	Portable Network Graphics (PNG) reader
pstsr.dll	Microsoft Outlook Personal Folders file MAPI-based reader (supported on Windows platform only) <sup>1</sup>
pstnsr.*	Microsoft Outlook Personal Folders file native reader <sup>2</sup>
pstxsr.*	Microsoft Outlook Personal Folders file native reader <sup>3</sup>
qpssr.*	Quattro Pro spreadsheet reader
rarsr.*	RAR Archive reader
rtfsr.*	Microsoft Rich Text Format reader
skypesr.*	Skype log file reader
sosr.*	StarOffice/OpenOffice reader
starcsr.*	StarOffice Calc reader
starwsr.*	StarOffice Writer reader
swfsr.*	Macromedia Flash reader
tarsr.*	Tape archive reader
tifsr.*	TIFF reader (metadata only)
tnefsr.*	Transfer Neutral Encapsulation Format reader
unihtmlsr.*	Unicode HTML reader
unisir.*	Unicode reader
unzip.*	Zip file reader

<sup>1</sup>This reader is an advanced feature and is sold and licensed separately from KeyView Export SDK.

<sup>2</sup>This reader is an advanced feature and is sold and licensed separately from KeyView Export SDK.

<sup>3</sup>This reader is an advanced feature and is sold and licensed separately from KeyView Export SDK.

File	Description
uudsr.*	UUEncoding reader
vsdsr.*	Microsoft Visio reader
vcfsr.*	Microsoft Outlook vCard Contact reader
wkssr.*	Lotus 1-2-3 v2.0 through 5.0 reader
wosr.*	WordPerfect 5.x reader
wp6sr.*	WordPerfect 6.0 through 10.0 reader
wpmsr.*	WordPerfect for Macintosh reader
xlsbsr.*	Microsoft Office 2007 Excel Binary Format reader
xlssr.*	Microsoft Excel reader
xlsxsr.*	Microsoft Excel 2007 XML reader
xm1sr.*	Generic XML reader
xpssr.*	XML Paper Specification reader
xywsr.*	XYWrite reader
yimsr.*	Yahoo! Instant Messenger reader
z7zsr.*	7-Zip reader



# Appendix F: Password Protected Files

This section lists supported password-protected container and non-container files and describes how to open them.

- [Supported Password Protected File Types](#) ..... 185
- [Export Password Protected Files](#) ..... 186

## Supported Password Protected File Types

The following table lists the password-protected file types that KeyView supports.

### Key to support table

Symbol	Description
Y	Format is supported.
N	Format is not supported.
S	Support for viewing subfiles.
V	Support for viewing content.
P	Password required.
C	Password and certificate or User ID file required.

### Supported password-protected file types

File Type	Version	Filter	Export	Extract	View	Credentials
PST (Windows)	n/a	N	N	Y	S	P
PST (non-Windows) <sup>1</sup>	n/a	N	N	Y	S	N
ZIP	n/a	N	N	Y	S	P
7-Zip	n/a	N	N	Y	S	P
RAR	n/a	N	N	Y	S	P
SMIME in MSG, EML, MBX	n/a	N	N	Y	N	C

<sup>1</sup>The native PST readers, pstxsr and pstnsr, do not require credentials to open password-protected PST files that use compressible encryption.

**Supported password-protected file types, continued**

File Type	Version	Filter	Export	Extract	View	Credentials
Lotus Notes NSF	n/a	N	N	Y	N	C
Adobe PDF	n/a	Y	Y	Y	V	P
Microsoft Office	97-2003 2007 2010	Y	Y	Y	V	P

## Export Password Protected Files

To export a password-protected file, supply the password through the [KVPDFOptions](#) structure.

# Send documentation feedback

If you have comments about this document, you can [contact the documentation team](#) by email. If an email client is configured on this system, click the link above and an email window opens with the following information in the subject line:

## **Feedback on PDF Export SDK C Programming Guide (Micro Focus KeyView 12.7)**

Add your feedback to the email and click **Send**.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to [swpdl.idoldocsfeedback@microfocus.com](mailto:swpdl.idoldocsfeedback@microfocus.com).

We appreciate your feedback!