

KeyView

Software Version 12.4

PDF Export SDK C Programming Guide



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

This section describes the KeyView Export SDK package.

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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 12.4 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++ 2013 and Microsoft Visual C++ 2010 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_12.4_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 License Key page opens.

5. Type the company name and license key that were provided when you purchased KeyView, and then click **Next**.
 - The company name is case sensitive.
 - The license key is a string that contains 31 characters.

NOTE: The installation program validates the company name and license key and generates the file `install\OS\bin\kv.lic` (where `install` is your chosen installation folder and `OS` is the name of the operating system platform). The license information is validated when the KeyView API is used. If you do not enter a license key at this step, or if you enter invalid information, the KeyView SDK is installed, but the API does not function. When you obtain a valid license key, you can either re-install the KeyView SDK, or manually update the license key file (`kv.lic`) with the new information. For more information, see [License Information, on the next page](#).

The Pre-Installation Summary dialog box opens.

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

The SDK is installed.

7. 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.

You are asked for license information.

5. At the **Company Name** prompt, type the company name that was provided when you purchased KeyView, and then press `Enter`. The company name is case sensitive.

6. At the **License Key** prompt, type the license key that was provided when you purchased KeyView, and then press `Enter`. The license key is a string that contains 31 characters.

NOTE: The installation program generates the file `install\OS\bin\kv.lic` (where `install` is your chosen installation folder and `OS` is the name of the operating system platform). The license information is validated when the KeyView API is used. If you do not enter a license key at this step, or if you enter invalid information, the KeyView SDK is installed but the API does not function. When you obtain a valid license key, you can either re-install the KeyView SDK, or manually update the license key file (`kv.lic`) with the new information. For more information, see [License Information, below](#).

The Pre-Installation summary is displayed.

7. 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 149](#)).
- 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

During installation, the installation program generates the `install/OS/bin/kv.lic` file, where `install` is the directory in which you installed KeyView, and `OS` is the operating system. This file is opened and validated when the KeyView API is used.

The `kv.lic` file contains the organization name and the 31-digit license key you specified during installation. The contents of a `kv.lic` file looks similar to the following:

```
Company Name  
XXXXXXXX-XXXXXXXX-XXXXXXXX-XXXXXXXX
```

The license key controls whether the following are enabled:

- the full version of the KeyView SDK
- the trial version of the KeyView SDK
- language detection and advanced document readers—The following components are considered advanced features, and are licensed separately:
 - Microsoft Outlook Personal Folders (PST) readers (`pstsr`, `pstnsr`, and `pstxsr`)
 - Lotus Notes database (NSF) reader (`nsfsr`)

- Mailbox (MBX) reader (`mbxsr`)
- Character set detection library (`kvlangdetect`)

If you change the license key at any time, you must update the licensing information in the `kv.lic` file. See [Update License Information](#).

Enable Advanced Document Readers

To enable advanced readers in one of the KeyView SDKs, you must obtain an appropriate license key from Micro Focus and update the installed license key with the new information as described in [Update License Information](#).

Update License Information

If you currently have an evaluation version of KeyView and have purchased 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 was installed with the original version of the KeyView SDK.

If you installed a full version of KeyView, but did not enter licensing information at the time of installation, you must also update the license information.

To update the information, do one of the following:

- Manually update the license information that is stored in the text file named `kv.lic`.
- Re-install the product and enter the new license information when prompted.

To update the KeyView license information

1. Open the license key file, `kv.lic`, in a text editor. The file is in the `install\OS\bin` directory, where `install` is the directory in which you installed KeyView, and `OS` is the operating system. The file contains the following text:

```
COMPANY NAME  
XXXXXXXX-XXXXXXXX-XXXXXXXX-XXXXXXXX
```

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

```
install\pdfexport\programs\program_name
```

where *install* is the path name of the Export installation directory, and *program_name* is the name of the sample program.

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.

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.

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.

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, on the next page](#).

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</code> <i>password</i>	This option specifies a password, <i>password</i> , for the input file to allow KeyView to open it.
<code>-s</code> <i>width</i> <i>height</i>	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.

• KVPDFGetInterface()	24
• fpConvertFileToFile()	24
• fpGetFileInfo()	25
• fpInit()	26
• fpShutdown()	27

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 fpInit() .
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 KVStructInit() 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 fpInit() .
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.

Syntax

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

Arguments

pszKeyViewDir	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>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\(\)](#), 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 `fpInit()` (or `NULL`).

fpShutdown()

This function terminates a PDF Export session that was initialized by [fpInit\(\)](#), 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](#) 29
- [KVDocInfo](#) 30
- [KVPDFInterface](#) 30
- [KVStructHead](#) 31
- [KVPDFState](#) 31
- [KVPDFContext](#) 32
- [KVPDFOptions](#) 33

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 <code>ENdocAttributes</code> 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 `kvtypes.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 `kvtypes.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 KVStructHead , on page 31.
<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](#) 35
- [KVErrCode](#) 36
- [KVErrCodeEx](#) 38
- [KVCharSet](#) 41
- [ENdocFmt](#) 41

Introduction

The enumerated types are in `adinfo.h`, `kverrorcodes.h`, `kvtypes.h`, `kv.h`, and `kvextract.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 `kvtypes.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 `kverrors.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_ADSNotFound	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 KVOpen stream
failure */
KVError_InterfaceFunctionNotFound, /* 23 Interface function not found */
KVError_InputFileNotFound, /* 24 Cannot find input file*/
KVError_OpenOutputFileFailed, /* 25 Cannot open output file*/
KVError_MemoryLeak, /* 26 Memory leak*/
KVError_MemoryOverwrite, /* 27 Memory overwrite*/
KVError_GPF, /* 28 Exception during oop filtering*/
KVError_OopCore, /* 29 Core dump in child process*/
KVError_KVoopLogFailed, /* 30 Creation of oop error log failed*/
KVError_OverNestedFileLimit, /* 31 File exceeds nested file limit*/
KVError_PSTAccessFailed, /* 32 Access failed on PST files*/
KVError_PasswordRequired, /* 33 Password required to access file*/
KVError_InvalidArgs /* 34 Input argument/structure is invalid*/
KVError_ReaderUsageDenied, /* 35 Reader requires a valid license*/
KVError_OopBadConfig, /* 36 Config buffer data was incomplete*/
KVError_OopBrokenPipe, /* 37 Read/write to/from pipe failed*/
KVError_OopPipeOEF, /* 38 Pipe was closed prior to read/write*/
KVError_IPCTimeOut, /* 39 Pipe/socket timed out on poll/select*/
KVError_InvalidOopDriverSignature, /* 40 Client sent request to OOP server but
context driver does not exist on the server*/
KVError_InvalidOopServiceSignature, /* 41 Client sent request to OOP service that
does not exist*/
KVError_ZeroFile, /* 42 Input file is empty or zero bytes */
KVError_CompressionNotSupported /* 43 File or subfile is compressed with
unsupported method *//KVError_NoTemplates /* 44 No templates found (nsfsr) */
KVError_NoMainTemplate /* 45 No main template found (nsfsr) */
KVError_InvalidTemplate /* 46 Invalid template (nsfsr) */
KVError_TemplateError /* 47 Template error (nsfsr) */
KVError_IsADirectory /* 48 A directory exists at the given pathname */
KVError_Last /* 49 */
}
KVErrorCodeEx;
```

Enumerators

<code>KVError_OpenStreamFailure = KVERR_ArchiveFatalError +1</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"> • A Microsoft Outlook client is not installed. • A Microsoft Outlook client is installed, but is not the default email client.

	<ul style="list-style-type: none"> • A Microsoft Outlook client is installed, but is not configured correctly. • The PST file is corrupt. • The PST file is read-only (PST files must allow read and write access). • The MAPI call fails. • The bit editions of Microsoft Outlook do not match the bit editions of the KeyView software. <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 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_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 35](#).
- 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 135](#).

ENdocFmt

This enumerated type defines the document formats that KeyView can detect. See [Detected Formats, on page 73](#).

Part 4: Appendixes

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

- [Supported Formats](#)
- [Detected Formats](#)
- [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 process (either filter, convert, or display).

- [Supported Formats](#) 43

Supported Formats

The tables in this section provide the following information:

- The file formats supported by the Filter API, Export API, Viewing API, and File Extraction API. The supported versions and the format's extension are also listed. All of the formats listed in this section can be detected by the KeyView format detection module (kwad). For a complete list of formats that can be detected, see [Detected Formats, on page 73](#).
- The file formats for which KeyView can detect and extract the character set and metadata information (properties such as title, author, and subject).

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. In this case, either the operating system code page or the character set specified in the API is used.

- The document reader used to filter each format.

Key to Support Tables

Symbol	Description
Y	The format is supported. You can extract metadata for this format. You can determine the character set for this format.
N	The format is not supported. You cannot extract metadata for this format. You cannot determine the character set for this format.
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.

Archive Formats

Supported Archive Formats

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
7-Zip	4.57	z7zsr, multiarcsr ¹	7Z	N	N	Y	Y	N	n/a	N
AD1	n/a	ad1sr	AD1	N	N	Y	Y	N	n/a	N
ARJ	n/a	multiarcsr	ARJ	N	N	N	Y	N	n/a	N
B1	n/a	b1sr	B1	N	N	Y	Y	N	n/a	N
BinHex	n/a	kvhqxsr	HQX	N	N	Y	Y	N	n/a	N
Bzip2	n/a	bzip2sr	BZ2	N	N	Y	Y	N	n/a	N
CPIO (copy-in-and-out archiver)	n/a	multiarcsr		N	N	N	Y	N	n/a	N
Debian binary package	n/a	multiarcsr	DEB	N	N	N	Y	N	n/a	N
DOS/Windows Object Library	n/a	multiarcsr	LIB, A	N	N	N	Y	N	n/a	N
Expert Witness Compression Format (EnCase)	6	encasesr	E01, L01	N	N	Y	Y	N	n/a	N
	7	encase2sr	Lx01	N	N	Y	Y	N	n/a	N

¹7zip is supported with the multiarcsr reader on some platforms for Extract.

Supported Archive Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
GZIP	2	kvgzsr	GZ	N	N	N	Y	N	n/a	N
		kvgz	GZ	N	N	Y	N	N	n/a	N
ISO	n/a	isosr	ISO	N	N	Y	Y	N	n/a	N
Java Archive	n/a	unzip	JAR	N	N	Y	Y	N	n/a	N
Legato EMailXtender Archive	n/a	emxsr	EMX	N	N	Y	Y	N	n/a	N
LZMA compressed data	n/a	multiarcsr	LZMA	N	N	N	Y	N	n/a	N
MacBinary	n/a	macbinsr	BIN	N	N	Y	Y	N	n/a	N
Mac Disk Copy Disk Image	n/a	dmgsr	DMG	N	N	Y	Y	N	n/a	N
Mac OS-X (Mach-O) executable	n/a	multiarcsr		N	N	N	Y	N	n/a	N
Microsoft Backup File	n/a	bkfsr	BKF	N	N	Y	Y	N	n/a	N
Microsoft Cabinet format	1.3	cabsr	CAB	N	N	Y	Y	N	n/a	N
Microsoft Compiled HTML Help	3	chmsr	CHM	N	N	Y	Y	N	n/a	N
Microsoft Compressed Folder	n/a	lzhsr	LZH LHA	N	N	N	Y	N	n/a	N
Microsoft Power BI Desktop format	n/a	unzip	PBIX	N	N	N	Y	N	n/a	N
MSI (Microsoft Installer)	n/a	multiarcsr	MSI	N	N	N	Y	N	n/a	N

Supported Archive Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
PKZIP	through 9.0	unzip	ZIP	N	N	Y	Y	N	n/a	N
RAR archive	2.0 through 3.5	rarsr	RAR	N	N	N	Y	N	n/a	N
RAR5 archive	5	multiarcsr	RAR5	N	N	N	Y	N	n/a	N
RPM (package manager file)	n/a	multiarcsr	RPM	N	N	N	Y	N	n/a	N
SUN PEX Binary Archive	n/a	multiarcsr		N	N	Y	Y	N	n/a	N
Tableau Packaged Data Source format	n/a	unzip	TDSX	N	N	N	Y	N	n/a	N
Tableau Packaged Workbook format	n/a	unzip	TWBX	N	N	N	Y	N	n/a	N
Tape Archive	n/a	tarsr	TAR	N	N	Y	Y	N	n/a	N
UNIX Compress	n/a	kvzeesr	Z	N	N	N	Y	N	n/a	N
		kvzee	Z	N	N	Y	N	N	n/a	N
UUEncoding	all versions	uudsr	UUE	N	N	Y	Y	N	n/a	N
XZ	n/a	multiarcsr	XZ	N	N	N	Y	N	n/a	N
Windows Imaging Format	n/a	multiarcsr	WIM	N	N	N	Y	N	n/a	N

Supported Archive Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Windows Scrap File	n/a	olesr	SHS	N	N	N	Y	N	n/a	N
WinZip	through 10	unzip	ZIP	N	N	Y	Y	N	n/a	N
XAR (Extensible Archive)	n/a	multiarcsr		N	N	N	Y	N	n/a	N
Zipped Keyhole Markup Language	n/a	unzip	ZIP	N	N	N	Y	N	n/a	N

Binary Format

Supported Binary Formats

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Executable	n/a	exesr	EXE	N	N	Y	N	N	n/a	N
Link Library	n/a	exesr	DLL	N	N	Y	N	N	n/a	N

Computer-Aided Design Formats

Supported CAD Formats

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
AutoCAD Drawing	R13, R14, R15/2000, 2004, 2007, 2010, 2013, 2018	kpODArdr kpDWGrdr ¹	DWG	Y	Y	Y	N	Y	Y	N
AutoCAD Drawing Exchange	R13, R14, R15/2000, 2004, 2007, 2010, 2013	kpODArdr kpDXFrdr ²	DXF	Y	Y	Y	N	Y	Y	N
CATIA formats	5	kpCATrdr	CAT ³	Y	N	N	N	Y	N	N
Microsoft Visio	4, 5, 2000, 2002, 2003, 2007, 2010 ⁴	vsdsr	VSD	Y	Y	Y	Y ⁵	Y	Y	N
		kpVSD2rdr	VSD, VSS VST	Y	Y	Y	N	Y	Y	N

¹The 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.

²The 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.

³All CAT file extensions, for example CATDrawing, CATProduct, CATPart, and so on.

⁴Viewing 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.

⁵Extraction of embedded OLE objects is supported for Filter on Windows platforms only.

Supported CAD Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
	2013	ActiveX components	VSDM VSSM VSTM VSDX VSSX VSTX	N	N	Y ¹	N	Y	N	N
		kpVSDXrdr	VSDM VSSM VSTM VSDX VSSX VSTX	Y	Y	Y	Y	Y	Y	N
Unigraphics (UG) NX		kpUGrdr	PRT	Y	N	N	N	N	N	N

Database Formats

Supported Database Formats

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
dBase Database	III+, IV	dbfsr	DBF	Y	Y	Y	N	N	N	N

¹Visio 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.

Supported Database Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Microsoft Access	95, 97, 2000, 2002, 2003, 2007, 2010, 2013, 2016	mdbsr	MDB, ACCDB	Y	T	T	N	N	Y ¹	N
Microsoft Project	2000, 2002, 2003, 2007, 2010, 2013, 2016	mppsr	MPP	Y	Y	Y	Y	Y	Y	N

Desktop Publishing

Supported Desktop Publishing Formats

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Microsoft Publisher	98 to 2016	mspubsr	PUB	Y	T	T	Y	Y	Y	N

Display Formats

Supported Display Formats

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Adobe PDF	1.1 to 1.7, 2.0	pdfsr	PDF	Y	Y	N	Y ²	Y	Y	N
		pdf2sr	PDF	N	Y	N	N	N	N	N

¹Charset is not supported for Microsoft Access 95 or 97.

²Includes support for extraction of subfiles from PDF Portfolio documents.

Supported Display Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
		kppdfdr	PDF	N	Y	Y	N	N	N	N
		kppdf2rdr ¹	PDF	N	N	Y	N	N	N	N

Graphic Formats

Supported Graphic Formats

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Computer Graphics Metafile	n/a	kpcgmrdr ²	CGM	Y	Y	Y	N	N	N	N
CorelDRAW ³	through 9.0 10, 11, 12, X3	kpcdrdr	CDR	N	Y	Y	N	N	N	N
DCX Fax System	n/a	kpcxdr	DCX	N	Y	Y	N	N	N	N
Digital Imaging & Communications in	n/a	dcmsr	DCM	M	N	N	N	Y	N	N

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

²Files with non-partitioned data are supported.

³CDR/CDR with TIFF header.

Supported Graphic Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Medicine (DICOM)										
Encapsulated PostScript (raster)	TIFF header	kpepsrdr	EPS	N	Y	Y	N	N	N	N
Enhanced Metafile	n/a	kpemfrdr	EMF	Y	Y	Y	N	Y	N	N
GIF	87, 89	kpgifrdr	GIF	N	Y	Y	N	N	N	N
		gifsr		M	M	N	N	Y	N	N
ISO-BMFF JPEG 2000 compound image	n/a	kpjp2000rdr	JPM	N	Y	Y	N	N	N	N
		jp2000sr		M	M	N	N	Y	N	N
ISO-BMFF JPEG 2000 image	n/a	kpjp2000rdr	JP2	N	Y	Y	N	N	N	N
		jp2000sr		M	M	N	N	Y	N	N
ISO-BMFF JPEG 2000 with extensions	n/a	kpjp2000rdr	JPX	N	Y	Y	N	N	N	N
		jp2000sr		M	M	N	N	Y	N	N
JBIG2	n/a	kpJBIG2rdr	JBIG2	N	Y	Y	N	N	N	N
JPEG	n/a	kpjpgdrdr	JPEG	N	Y	Y	N	N	N	N
		jpgsr		M	M	N	N	Y	N	N
JPEG 2000	n/a	kpjp2000rdr	JP2, JPF, J2K, JPWL, JPX, PGX	N	Y	Y	N	N	N	N
		jp2000sr		M	M	N	N	Y	N	N

Supported Graphic Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
JPEG 2000 PGX Verification Model image	n/a	kppj2000rdr	PGX	N	Y	Y	N	N	N	N
		jp2000sr		M	M	N	N	Y	N	N
Lotus AMIDraw Graphics	n/a	kpsdwrdr	SDW	N	Y	Y	N	N	N	N
Lotus Pic	n/a	kppicrdr	PIC	Y	Y	Y	N	N	N	N
Macintosh Raster	2	kppctrdr	PIC PCT	N	Y	Y	N	N	N	N
MacPaint	n/a	kpmacrdr	PNTG	N	Y	Y	N	N	N	N
Microsoft Office Drawing	n/a	kpmsordr	MSO	N	Y	Y	N	N	N	N
Omni Graffiti	n/a	kpGFLrdr	GRAFFLE	Y	N	N	N	Y	Y	N
PC PaintBrush	3	kppcxrdr	PCX	N	Y	Y	N	N	N	N
Portable Network Graphics	n/a	kppngrdr	PNG	N	Y	Y	N	N	N	N
		pngsr	PNG	M	M	N	N	Y	N	N
Scalable Vector Graphics	n/a	xmlsr	SVG	Y	T	T	N	Y	Y	N
SGI RGB Image	n/a	kpsgirdr	RGB	N	Y	Y	N	N	N	N
Sun Raster Image	n/a	kpsunrdr	RS	N	Y	Y	N	N	N	N

Supported Graphic Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Tagged Image File	through 6.0 ¹	tifsr	TIFF	M	M	N	N	Y	N	N
		kptifrd	TIFF	N	Y	Y	N	N	N	N
Truevision Targa	2	kpTGArdr	TGA	N	Y	Y	N	N	N	N
Windows Animated Cursor	n/a	kpanirdr	ANI	N	Y	Y	N	N	N	N
Windows Bitmap	n/a	kpbmprdr	BMP	N	Y	Y	N	N	N	N
		bmpsr	BMP	M	M	N	N	Y	N	N
Windows Icon Cursor	n/a	kpicordr	ICO	N	Y	Y	N	N	N	N
Windows Metafile	3	kpwmfrdr	WMF	Y ²	Y	Y	N	N	N	N
WordPerfect Graphics 1	1	kpwpgrdr	WPG	N	Y	Y	N	N	N	N
WordPerfect Graphics 2	2, 7	kpwg2rdr	WPG	N	Y	Y	N	N	N	N

¹The 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.

²Windows 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).

Mail Formats

Supported Mail Formats

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Documentum EMCMF	n/a	msgsr	EMCMF	N	N	Y	Y	Y	Y	N
Domino XML Language ¹	n/a	dxlsr	DXL	N	N	Y	Y	Y	N	N
GroupWise FileSurf	n/a	gwfssr	GWFS	N	N	Y	Y	Y	N	N
Legato Extender	n/a	onmsr	ONM	N	N	Y	Y	Y	N	N
Lotus Notes database	4, 5, 6.0, 6.5, 7.0, 8.0	nsfsr	NSF	N	N	Y	Y	Y	N	N
Mailbox ²	Thunderbird 1.0, Eudora 6.2	mbxsr ³	MBX	N	N	T	Y	Y	Y	N
Microsoft	2004	entsr	various	N	N	Y	Y	Y	Y	N

¹Supports non-encrypted embedded files only.

²KeyView supports MBX files created by Eudora Email and Mozilla Thunderbird. MBX files created by other common mail applications are typically filtered, converted, and displayed.

³This reader supports both clear signed and encrypted S/MIME. KeyView supports S/MIME for PST, EML, MBX, and MSG files.

Supported Mail Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Entourage Database										
Microsoft Outlook	97, 2000, 2002, 2003, 2007, 2010, 2013, 2016, 2019	msgsr ¹	MSG, OFT	Y	T	T	Y	Y	Y ²	N
Microsoft Outlook DBX	5.0, 6.0	dbxsr	DBX	N	N	Y	Y	Y	Y	N
Microsoft Outlook Express	Windows 6 MacIntosh 5	emlsr ³	EML	Y	T	T	Y	Y	Y	N
		mbxsr ⁴	EML	N	N	T	Y	Y	Y	N
Microsoft Outlook iCalendar	1.0, 2.0	icssr	ICS, VCS	N	N	Y	Y	Y	Y	N
Microsoft Outlook for Macintosh	2011	olmsr	OLM	N	N	Y	Y	N	Y	N
Microsoft Outlook Offline Storage File	97, 2000, 2002, 2003, 2007, 2010, 2013	pffsr ⁵	OST	N	N	Y	Y	Y	Y	N

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

²Returns "Unicode" character set for version 2003 and up, and "Unknown" character set for previous versions.

³This reader supports both clear signed and encrypted S/MIME. KeyView supports S/MIME for PST, EML, MBX, and MSG files.

⁴This reader supports both clear signed and encrypted S/MIME. KeyView supports S/MIME for PST, EML, MBX, and MSG files.

⁵The reader pffsr is available only on Windows and Linux.

Supported Mail Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Microsoft Outlook Personal Folder ¹	97, 2000, 2002, 2003, 2007, 2010, 2013, 2016, 2019	pstsr ²	PST	N	N	Y	Y	Y	N	N
	97, 2000, 2002, 2003, 2007, 2010, 2013	pstnsr	PST	N	N	Y	Y	Y	Y	N
	97, 2000, 2002, 2003, 2007, 2010, 2013, 2016, 2019	pstxsr	PST	N	N	Y	Y	Y	Y	N
Microsoft Outlook vCard Contact	2.1, 3.0, 4.0	vcfsr	VCF	Y	Y	T	N	Y	N	N
Text Mail (MIME)	n/a	emlsr ³	various	Y	T	T	Y	Y	Y	N
		mbxsr ⁴	various	Y	T	T	Y	Y	Y	N
Transport Neutral Encapsulation Format	n/a	tnfsr	various	N	N	Y	Y	Y	Y	N

¹KeyView 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.

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

³This reader supports both clear signed and encrypted S/MIME. KeyView supports S/MIME for PST, EML, MBX, and MSG files.

⁴This reader supports both clear signed and encrypted S/MIME. KeyView supports S/MIME for PST, EML, MBX, and MSG files.

Multimedia Formats

Viewing SDK plays some multimedia files using the Windows Media Control Interface (MCI). MCI is a set of Windows APIs that communicate with multimedia devices.

Supported Multimedia Formats

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
3GPP video file	n/a	mpeg4sr	3GP	M	N	N	N	Y	N	N
3GPP2 video file	n/a	mpeg4sr	3G2	M	N	N	N	Y	N	N
Adobe Flash Player audio	n/a	mpeg4sr	F4A	M	N	N	N	Y	N	N
Adobe Flash Player audio book	n/a	mpeg4sr	F4B	M	N	N	N	Y	N	N
Adobe Flash Player protected video	n/a	mpeg4sr	F4P	M	N	N	N	Y	N	N
Adobe Flash Player video	n/a	mpeg4sr	F4V	M	N	N	N	Y	N	N
Apple ISO-BMFF QuickTime video	n/a	MCI	QT MOV	N	N	Y	N	N	N	N
Apple MPEG-4 Part 14 audio	n/a	mpeg4sr	M4A	M	N	N	N	Y	N	N
Apple MPEG-4 Part 14 audio book	n/a	mpeg4sr	M4B	M	N	N	N	Y	N	N
Apple MPEG-4 Part 14 protected audio	n/a	mpeg4sr	M4P	M	N	N	N	Y	N	N
Apple MPEG-4 Part 14	n/a	mpeg4sr	M4V	M	N	N	N	Y	N	N

Supported Multimedia Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
video										
Audible Enhanced Audiobook	n/a	mpeg4sr	AAX	M	N	N	N	Y	N	N
KDDI video file	n/a	MCI		N	N	Y	N	N	N	N
Advanced Systems Format	1.2	asfsr	ASF WMA WMV	N	N	N	N	Y	N	N
Audio Interchange File Format	n/a	MCI	AIFF	N	N	Y	N	N	N	N
		aifsr	AIFF	M	N	N	N	Y	N	N
ISO-BMFF MPEG-4 with AVC extension	n/a	mpeg4sr		M	N	N	N	Y	N	N
Microsoft Wave Sound	n/a	MCI	WAV	N	N	Y	N	N	N	N
		rifsr	WAV	M	N	N	N	Y	N	N
MIDI	n/a	MCI	MID	N	N	Y	N	N	N	N
Mobile QuickTime video	n/a	mpeg4sr	MQV	M	N	N	N	Y	N	N
Motion JPEG 2000	n/a	kpjp2000rdr	MJ2 MJP2	N	Y	Y	N	N	N	N
		jp2000sr		M	M	N	N	Y	N	N
MPEG-1 Audio layer 3	ID3 v1 and v2	MCI	MP3	N	N	Y	N	N	N	N
		mp3sr	MP3	M	M	Y	N	Y	N	N

Supported Multimedia Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
MPEG-1 Video	2, 3	MCI	MPG	N	N	Y	N	N	N	N
MPEG-2 Audio	n/a	MCI	MPEGA	N	N	Y	N	N	N	N
MPEG-21	n/a	mpeg4sr		M	N	N	N	Y	N	N
MPEG-4 Audio	n/a	mpeg4sr	MP4 3GP	M	N	N	N	Y	N	N
Nero AAC audio	n/a	mpeg4sr		M	N	N	N	Y	N	N
Nero MPEG-4 profile	n/a	mpeg4sr		M	N	N	N	Y	N	N
Nero MPEG-4 profile with AVC extension	n/a	mpeg4sr		M	N	N	N	Y	N	N
NeXT/Sun Audio	n/a	MCI	AU	N	N	Y	N	N	N	N
NTT MPEG-4	n/a	mpeg4sr		M	N	N	N	Y	N	N
QuickTime Movie	2, 3, 4	MCI	QT MOV	N	N	Y	N	N	N	N
Sony PSP MPEG-4	n/a	mpeg4sr	MP4	M	N	N	N	Y	N	N
Sony XAVC video	n/a	mpeg4sr		M	N	N	N	Y	N	N
Windows Video	2.1	MCI	AVI	N	N	Y	N	N	N	N

NOTE: Depending on the default multimedia player installed on your computer, the View API might not be able to play some supported multimedia formats. To play multimedia files, the View API uses the Windows Media Control Interface (MCI) to communicate with the multimedia player installed on your computer. If the player does not play a multimedia file that is supported by the Viewing SDK, the View API cannot play the file.

If you cannot play a supported multimedia file by using the View API, install a different multimedia player or compressor/decompressor (codec) component.

Presentation Formats

Supported Presentation Formats

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Apple iWork Keynote	2, 3, '08, '09	kpIWPGGrdr	GZ	Y	Y	Y	N	Y	Y	N
	'13, '16, '18 iCloud 2018	kpIWPG13rdr ¹	KEY	Y	T	N	N	N	N	N
Applix Presents	4.0, 4.2, 4.3, 4.4	kpagrdr	AG	Y	Y	Y	N	N	N	N
Corel Presentations	6, 7, 8, 9, 10, 11, 12, X3	kpshwrdr	SHW	Y	Y	Y	N	N	N	N
Extensible Forms Description Language	n/a	kpXFDLrdr	XFD XFDL	Y	Y	Y	N	Y	Y	N
Lotus Freelance Graphics	96, 97, 98, R9, 9.8	kprrzrdr	PRZ	Y	Y	Y	N	N	N	N
Lotus Freelance Graphics 2	2	kprrdr	PRE	Y	Y	Y	N	N	N	N

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

Supported Presentation Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Macromedia Flash	through 8.0	swfsr	SWF	Y	Y	Y	N	N	Y ¹	N
Microsoft PowerPoint Macintosh	98	kpp40rdr	PPT	Y	Y	Y	N	N	N	N
	2001, v.X, 2004	kpp97rdr	PPT PPS POT	Y	Y	Y	N	P	Y	N
Microsoft PowerPoint PC	4	kpp40rdr	PPT	Y	Y	Y	N	P	N	N
Microsoft PowerPoint Windows	95	kpp95rdr	PPT	Y	Y	Y	N	P	Y	N
Microsoft PowerPoint Windows	97, 2000, 2002, 2003	kpp97rdr	PPT PPS POT	Y	Y	Y	Y	P	Y	Y ²
Microsoft PowerPoint Windows XML	2007, 2010, 2013, 2016, 2019	kpppxrdr	PPTX PPTM POTX POTM PPSX PPSM PPAM	Y	Y	Y	Y	Y	Y	Y

¹The character set cannot be determined for versions 5.x and lower.

²Slide footers are supported for Microsoft PowerPoint 97 and 2003.

Supported Presentation Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
OASIS Open Document Format	1, 2 ¹	kpodfrdr	SXD SXI ODG ODP	Y	Y	Y	Y ²	Y	Y	N
OpenOffice Impress, LibreOffice Impress	1 to 5	sosr	SXI SXP ODP	Y	T	T	N	Y	Y	N
StarOffice Impress	3, 4, 5	kpsddrdr	SDA SDD	Y	T	N	N	N	N	N
	6, 7, 8, 9	sosr	SXI SXP ODP	Y	T	T	N	Y	Y	N

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

²Supported using the o1esr embedded objects reader.

Spreadsheet Formats

Supported Spreadsheet Formats

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Apple iWork Numbers	'08, '09	iwsssr	GZ	Y	Y	Y	N	Y	Y	N
	'13, '16, '18, iCloud 2018	iwss13sr ¹	NUMBERS	Y	T	T	N	N	Y	N
Applix Spreadsheets	4.2, 4.3, 4.4	assr	AS	Y	Y	Y	N	N	Y	N
Comma Separated Values	n/a	csvsr	CSV	Y	Y	Y	N	N	N	N
Corel Quattro Pro	5, 6, 7, 8	qpssr	WB2 WB3	Y	Y	Y	N	P	Y	N
	X4	qpwsr	QPW	Y	N	Y	N	P	Y	N
Data Interchange Format	n/a	difsr		Y	Y	Y	N	N	N	N
Lotus 1-2-3	96, 97, R9, 9.8	l123sr	123	Y	Y	Y	N	P	Y	N
Lotus 1-2-3	2, 3, 4, 5	wkssr	WK4	Y	Y	Y	N	N	Y	N
Lotus 1-2-3 Charts	2, 3, 4, 5	kpchtrdr	123	N	Y	Y	N	N	N	N
Microsoft Excel Charts	2, 3, 4, 5, 6, 7	kpchtrdr	XLS	N	Y	Y	N	N	N	N

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

Supported Spreadsheet Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Microsoft Excel Macintosh	98, 2001, v.X, 2004	xlssr	XLS	Y	Y	Y	Y ¹	Y	Y	N
Microsoft Excel Windows	2.2 through 2003	xlssr	XLS XLW XLT XLA	Y	Y	Y	Y ²	Y	Y	Y
Microsoft Excel Windows XML	2007, 2010, 2013, 2016, 2019	xlsxsr	XLSX XLTX XLSM XLTM XLAM	Y	Y	Y	Y	Y	Y	Y
Microsoft Excel Binary Format	2007, 2010, 2013, 2016	xlsbsr	XLSB	Y	Y	Y	N	Y	N	N
Microsoft Works Spreadsheet	2, 3, 4	mwssr	S30 S40	Y	Y	Y	N	N	Y	N
Microsoft Power BI	1.11	pbixsr	PBIX	Y	T	T	N	N	Y	N
OASIS Open Document Format	1, 2 ³	odfssr	ODS SXC STC	Y	Y	Y	Y ⁴	Y	Y	N

¹Supported using the embedded objects reader o1esr.

²Supported for versions 97 and higher using the embedded objects reader o1esr.

³Generated by OpenOffice Calc 2.0, StarOffice 8 Calc, and IBM Lotus Symphony Spreadsheet 3.0.

⁴Supported using the embedded objects reader o1esr.

Supported Spreadsheet Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
OpenOffice Calc, LibreOffice Calc	1 to 5	sosr	SXC ODS OTS	Y	T	T	N	Y	Y	N
StarOffice Calc	3, 4, 5	starcsr	SDC	Y	T	T	N	N	N	N
	6, 7, 8, 9	sosr	SXC ODS	Y	T	T	N	Y	Y	N

Text and Markup Formats

Supported Text and Markup Formats

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
ANSI	n/a	afsr	TXT	Y	Y	Y	N	N	N	N
ASCII	n/a	afsr	TXT	Y	Y	Y	N	N	N	N
HTML	3, 4	htmsr	HTM	Y	Y	Y	N	P	Y	N
Microsoft Excel Windows XML	2003	xmlsr	XML	Y	T	T	N	Y	Y	N
Microsoft Word Windows XML	2003	xmlsr	XML	Y	T	T	N	Y	Y	N
Microsoft Visio XML	2003	xmlsr	VDX VTX	Y	T	T	N	Y	Y	N
MIME HTML	n/a	mhtsr	MHT	Y	Y	Y	N	Y	Y	N
Rich Text Format	1 through	rtfsr	RTF	Y	Y	Y	N	P	Y	Y

Supported Text and Markup Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
	1.7									
Tableau Data Source format	n/a	xmlsr	TDS	Y	T	T	N	Y	Y	N
Tableau Map Source format	n/a	xmlsr	TMS	Y	T	T	N	Y	Y	N
Tableau Preferences format	n/a	xmlsr	TPS	Y	T	T	N	Y	Y	N
Tableau Workbook format	n/a	xmlsr	TWB	Y	T	T	N	Y	Y	N
Unicode HTML	n/a	unihtmlsr	HTM	Y	Y	Y	N	Y	Y	N
Unicode Text	3, 4	unistr	TXT	Y	Y	Y	N	N	Y	N
Vector Open Diagnostic Data Exchange Format	n/a	xmlsr	ODX	Y	T	T	N	Y	Y	N
XHTML	1.0	htmlsr	HTM	Y	Y	Y	N	Y	Y	N
XML (generic)	1.0	xmlsr	XML	Y	T	T	N	Y	Y	N

Word Processing Formats

Supported Word Processing Formats

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Adobe FrameMaker Interchange Format	5, 5.5, 6, 7	mifsr	MIF	Y	Y	Y	N	N	Y	N
Apple iChat Log	1, AV 2 AV 2.1, AV 3	ichatsr	ICHAT	Y	Y	Y	N	N	N	N

Supported Word Processing Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Apple iWork Pages	'08, '09	iwwpsr	GZ	Y	Y	Y	N	Y	Y	N
	'13, '16, '18 iCloud 2018	iwwp13sr 1	PAGES	Y	T	T	N	N	N	N
Applix Words	3.11, 4, 4.1, 4.2, 4.3, 4.4	awsr	AW	Y	Y	Y	N	N	Y	Y
Corel WordPerfect Linux	6.0, 8.1	wp6sr	WPS	Y	Y	Y	N	P	Y	N
Corel WordPerfect Macintosh	1.02, 2, 2.1, 2.2, 3, 3.1	wpmsr	WPM	Y	Y	Y	N	N	Y	N
Corel WordPerfect Windows	5, 5.1	wosr	WO	Y	Y	Y	N	P	Y	Y
Corel WordPerfect Windows	6, 7, 8, 9, 10, 11, 12, X3	wp6sr	WPD	Y	Y	Y	N	P	Y	Y
DisplayWrite	4	dw4sr	IP	Y	Y	Y	N	N	Y	N
Folio Flat File	3.1	foliosr	FFF	Y	Y	Y	N	Y	Y	Y
Founder Chinese E-	3.2.1	cebsr ²	CEB	Y	N	N	N	N	N	N

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

²This reader is only supported on Windows 32-bit platforms.

Supported Word Processing Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
paper Basic										
Fujitsu Oasys	7	oa2sr	OA2	Y	Y	Y	N	P	N	N
Haansoft Hangul	97	hwpsr	HWP	Y	Y	Y	N	Y	Y	N
	2002, 2005, 2007, 2010	hwposr	HWP	Y	Y	Y	Y	Y	Y	N
Health level7	2.0	hl7sr	HL7	Y	Y	Y	N	Y	Y	N
IBM DCA/RFT (Revisable Form Text)	SC23-0758-1	dcasr	DC	Y	Y	Y	N	N	Y	N
JustSystems Ichitaro	8 to 2013, 2018	jtdsr	JTD	Y	Y	Y	N	P	N	Y
Lotus AMI Pro	2, 3	lasr	SAM	Y	Y	Y	N	P	Y	Y
Lotus AMI Professional Write Plus	2.1	lasr	AMI	Y	Y	Y	N	N	N	Y
Lotus Word Pro	96, 97, R9	lwpsr	LWP	Y	Y	Y	N	P	N	Y
Lotus SmartMaster	96, 97	lwpsr	MWP	Y	Y	Y	N	N	N	N
Microsoft OneNote	2007, 2010, 2013, 2016	kpONErdr	ONE ONETOC2	Y	Y	Y	Y	N	Y	N
Microsoft OneNote Alternate Format	2007, 2010, 2013, 2016	onealtsr	ONE ONETOC2	Y	T	T	Y	N	N	N

Supported Word Processing Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Microsoft Word Macintosh	4, 5, 6, 98	mbsr	DOC	Y	Y	Y	N	Y	N	Y
	2001, v.X, 2004	mw8sr	DOC DOT	Y	Y	Y	Y ¹	Y	Y	N
Microsoft Word PC	4, 5, 5.5, 6	mwsr	DOC	Y	Y	Y	N	N	N	Y
Microsoft Word Windows	1.0, 2.0	misr	DOC	Y	Y	Y	N	N	N	Y
Microsoft Word Windows	6, 7, 8, 95	mw6sr	DOC	Y	Y	Y	N	Y	Y	Y
Microsoft Word Windows	97, 2000, 2002, 2003	mw8sr	DOC DOT	Y	Y	Y	Y ²	Y	Y	Y
Microsoft Word Windows XML	2007, 2010, 2013, 2016, 2019	mwxsr	DOCX DOCX DOTX DOTM	Y	Y	Y	Y	Y	Y	Y
Microsoft Word Windows Flat XML	2007, 2010, 2013, 2016	mwxsr	XML	Y	Y	Y	Y	Y	Y	Y
Microsoft Works	1, 2, 3, 4	mswsr	WPS	Y	Y	Y	N	N	N	Y

¹Supported using the embedded objects reader olesr.

²Supported using the embedded objects reader olesr.

Supported Word Processing Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
Microsoft Works	6, 2000	msw6sr	WPS	Y	Y	Y	N	N	N	Y
Microsoft Windows Write	1, 2, 3	mwsr	WRI	Y	Y	Y	N	N	Y	N
OASIS Open Document Format	1, 2 ¹	odfwpsr	ODT SXW STW	Y	Y	Y	Y ²	Y	Y	Y
Omni Outliner	v3, OPML, OOOutline	oo3sr	OO3 OPML OOUTLINE	Y	Y	Y	N	N	Y	N
OpenOffice Writer, LibreOffice Writer	1 to 5	sosr	SXW ODT	Y	T	T	N	Y	Y	N
Open Publication Structure eBook	2.0, 3.0	epubsr	EPUB	Y	Y	Y	N	Y	Y	N
pFiles	n/a	pfilesr	PFILE PBMP PGIF	Y ³	T ⁴	T ⁵	N	Y	N	N

¹Generated by OpenOffice Writer 2.0, StarOffice 8 Writer, and IBM Lotus Symphony Documents 3.0.

²Supported using the embedded objects reader o1esr.

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

⁴KeyView filters only the internal redirection text. The underlying document text is not accessible without the decryption key.

⁵KeyView filters only the internal redirection text. The underlying document text is not accessible without the decryption key.

Supported Word Processing Formats, continued

Format	Version	Reader	Extension	Filter	Export	View	Extract	Metadata	Charset	Header/Footer
			PJPG PPNG PTIF PTXT PXML							
StarOffice Writer	3, 4, 5	starwsr	SDW	Y	T	T	N	N	N	N
	6, 7, 8, 9	sosr	SXW ODT	Y	T	T	N	Y	Y	N
Skype Log	3	skypesr	DBB	Y	Y	Y	N	N	N	N
WordPad	through 2003	rtfsr	RTF	Y	Y	Y	N	P	Y	N
XML Paper Specification	n/a	xpsr	XPS	Y	T	T	N	N	N	N
XyWrite	4.12	xywsr	XY4	Y	Y	Y	N	N	N	N
Yahoo! Instant Messenger	n/a	yimsr ¹	DAT	Y	Y	Y	N	N	N	N

¹To 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 B: Detected Formats

This section lists the file formats that KeyView can detect.

- [Key to Detected Formats Table](#) 73
- [Detected Formats](#) 75

Key to Detected Formats Table

The detected 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">• In the C API, these values are defined in the <code>ENdocFmt</code> enumeration in <code>adDocFmt.h</code>.• In the .NET API these values are defined in the <code>Autonomy.API.Export.DocFormat</code> enumeration.• In the Java API these values are defined in the <code>com.verity.api.DocFormat</code> enumeration.
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. <p>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.</p>
File Class	The KeyView file class. <ul style="list-style-type: none">• In the C API, these values are defined in the <code>ENdocClass</code> enumeration in <code>adinfo.h</code>.• In the .NET API these values are defined in the

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

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
MSDOS_Batch_File_Fmt	3	2	MS-DOS Batch File	application/x-bat	BAT	adEXECUTABLE
Applix_Alis_Fmt	4	3	APPLIX ASTERIX		AX	adWORDPROCESSOR
BMP_Fmt	5	4	Windows Bitmap Image (BMP)	image/bmp	BMP	adRASTERIMAGE
CT_DEF_Fmt	6	5	Convergent Technologies DEF Comm. Format			adWORDPROCESSOR
Corel_Draw_Fmt	7	6	Corel Draw (up to version 13/X3)	application/coreldraw	CDR	adVECTORGRAPHIC
CGM_ClearText_Fmt	8	8	Computer Graphics Metafile (CGM)		CGM	adVECTORGRAPHIC
CGM_Binary_Fmt	9	8	Computer Graphics Metafile (CGM)	image/cgm	CGM	adVECTORGRAPHIC
CGM_Character_Fmt	10	8	Computer Graphics Metafile (CGM)		CGM	adVECTORGRAPHIC
Word_Connection_Fmt	11	9	Word Connection		CN	adWORDPROCESSOR
COMET_TOP_Word_Fmt	12	10	Nixdorf COMET TOP Financial Accounting software			adWORDPROCESSOR
CEOwrite_Fmt	13	11	CEOwrite		CW	adWORDPROCESSOR
DSA101_Fmt	14	12	DSA101 (Honeywell Bull)			adWORDPROCESSOR
DCA_RFT_Fmt	15	13	DCA-RFT (IBM Revisable Form)	application/dca-rft	RFT, DC	adWORDPROCESSOR
CDA_DDIF_Fmt	16	14	CDA / DDIF		DDIF	adWORDPROCESSOR
DG_CDS_Fmt	17	16	DG Common Data Stream (CDS)		CDS	adWORDPROCESSOR
Micrografx_Draw_Fmt	18	18	Windows Draw (Micrografx)		DRW	adVECTORGRAPHIC
Data_Point_VistaWord_Fmt	19	19	Vistaword		DV	adWORDPROCESSOR

Format Name	Number	Category	Description	MIME Type	Extension	File Class
DECdx_Fmt	20	20	DECdx		DX	adWORDPROCESSOR
Enable_WP_Fmt	21	21	Enable Word Processing		WPF	adWORDPROCESSOR
EPSF_Fmt	22	22	Encapsulated PostScript	application/postscript	EPS	AutoDetNoFormat
Preview_EPSF_Fmt	23	22	Encapsulated PostScript	application/postscript		AutoDetNoFormat
MS_Executable_Fmt	24	23	MSDOS/Windows Program	application/x-msdownload	EXE	adEXECUTABLE
G31D_Fmt	25	24	CCITT G3 1D			adRASTERIMAGE
GIF_87a_Fmt	26	25	Graphics Interchange Format (GIF87a)	image/gif	GIF	adRASTERIMAGE
GIF_89a_Fmt	27	25	Graphics Interchange Format (GIF89a)	image/gif	GIF	adRASTERIMAGE
HP_Word_PC_Fmt	28	26	HP Word PC		HW	adWORDPROCESSOR
IBM_1403_LinePrinter_Fmt	29	27	IBM 1403 Line Printer		I4	adWORDPROCESSOR
IBM_DCF_Script_Fmt	30	28	DCF Script		IC	adWORDPROCESSOR
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	Display Write		IP	adWORDPROCESSOR
Sun_Raster_Fmt	35	33	Sun Raster	image/x-cmu-raster	RAS	adRASTERIMAGE
Ami_Pro_Fmt	36	35	Lotus Ami Pro	application/x-lotus-amipro	SAM	adWORDPROCESSOR
Ami_Pro_StyleSheet_Fmt	37	35	Lotus Ami Pro Style Sheet			adWORDPROCESSOR
MORE_Fmt	38	36	MORE Database MAC			adOUTLINE
Lyrix_Fmt	39	37	Lyrix Word Processing			adWORDPROCESSOR
MASS_11_Fmt	40	38	MASS-11		M1	adWORDPROCESSOR
MacPaint_Fmt	41	39	MacPaint		PNTG	adRASTERIMAGE
MS_Word_Mac_Fmt	42	40	Microsoft Word for Macintosh (up to version 3)	application/msword	DOC	adWORDPROCESSOR
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
Multimate_Fmt	45	43	MultiMate		MM	adWORDPROCESSOR

Format Name	Number	Category	Description	MIME Type	Extension	File Class
Multimate_Fnote_Fmt	46	43	MultiMate Footnote File			adWORDPROCESSOR
Multimate_Adv_Fmt	47	43	MultiMate Advantage			adWORDPROCESSOR
Multimate_Adv_Fnote_Fmt	48	43	MultiMate Advantage Footnote File			adWORDPROCESSOR
Multimate_Adv_II_Fmt	49	43	MultiMate Advantage II			adWORDPROCESSOR
Multimate_Adv_II_Fnote_Fmt	50	43	MultiMate Advantage II Footnote File		FBX, FNX	adWORDPROCESSOR
Multiplan_PC_Fmt	51	44	Multiplan (PC)			adSPREADSHEET
Multiplan_Mac_Fmt	52	44	Multiplan (Mac)			adSPREADSHEET
MS_RTF_Fmt	53	45	Rich Text Format (RTF)	application/rtf	RTF	adWORDPROCESSOR
MS_Word_PC_Fmt	54	46	Microsoft Word for PC (up to version 6)	application/x-ms-wordpc	MW	adWORDPROCESSOR
MS_Word_PC_StyleSheet_Fmt	55	46	Microsoft Word for PC (up to version 6) Style Sheet			adWORDPROCESSOR
MS_Word_PC_Glossary_Fmt	56	46	Microsoft Word for PC (up to version 6) Glossary			adWORDPROCESSOR
MS_Word_PC_Driver_Fmt	57	46	Microsoft Word for PC (up to version 6) Driver			adWORDPROCESSOR
MS_Word_PC_Misc_Fmt	58	46	Microsoft Word for PC (up to version 6) Miscellaneous File			adWORDPROCESSOR
NBI_Async_Archive_Fmt	59	47	NBI Async Archive Format			adWORDPROCESSOR
Navy_DIF_Fmt	60	48	Navy DIF (document interchange format)		ND	adWORDPROCESSOR
NBI_Net_Archive_Fmt	61	49	NBI Net Archive Format		NN	adWORDPROCESSOR
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
ODA_Q1_12_Fmt	65	52	ODA / ODIF Q1 12		OD	adWORDPROCESSOR
OLIDIF_Fmt	66	53	OLIDIF (Olivetti)			adWORDPROCESSOR
Office_Writer_Fmt	67	55	Office Writer		OW	adWORDPROCESSOR
PC_Paintbrush_Fmt	68	56	PC Paintbrush Graphics (PCX)	image/vnd.zbrush.pcx	PCX	adRASTERIMAGE
CPT_Comm_Fmt	69	57	CPT Corporation word processor		PF	adWORDPROCESSOR

Format Name	Number	Category	Description	MIME Type	Extension	File Class
Lotus_PIC_Fmt	70	58	Lotus PIC	image/x-pict	PIC	adVECTORGRAPHIC
Mac_PICT_Fmt	71	59	QuickDraw Picture	image/x-pict	PCT	AutoDetNoFormat
Philips_Script_Word_Fmt	72	60	Philips Script			adWORDPROCESSOR
PostScript_Fmt	73	61	PostScript	application/postscript	PS	adVECTORGRAPHIC
PRIMEWORD_Fmt	74	62	PRIMEWORD			adWORDPROCESSOR
Quadratron_Q_One_v1_Fmt	75	63	Q-One V1.93J		Q1, QX	adWORDPROCESSOR
Quadratron_Q_One_v2_Fmt	76	64	Q-One V2.0		Q1, QX	adWORDPROCESSOR
SAMNA_Word_IV_Fmt	77	65	SAMNA Word		SAM	adWORDPROCESSOR
Ami_Pro_Draw_Fmt	78	66	Lotus Ami Pro Draw		SDW	adVECTORGRAPHIC
SYLK_Spreadsheet_Fmt	79	67	SYmbolic LinK (SYLK) format		SLK	adSPREADSHEET
SmartWare_II_WP_Fmt	80	68	Informix SmartWare II word processor		DOC	adWORDPROCESSOR
Symphony_Fmt	81	69	Lotus Symphony spreadsheet		WR1	adSPREADSHEET
Targa_Fmt	82	70	Targa image	image/x-tga	TGA	adRASTERIMAGE
TIFF_Fmt	83	71	Tag Image File Format (TIFF)	image/tiff	TIF, TIFF	adRASTERIMAGE
Targon_Word_Fmt	84	72	Targon Word		TW	adWORDPROCESSOR
Uniplex_Ucalc_Fmt	85	73	Uniplex Ucalc		SS	adSPREADSHEET
Uniplex_WP_Fmt	86	74	Uniplex word processor		UP	adWORDPROCESSOR
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
WANG_WPS_Comm_Fmt	90	78	WANG WPS		WF	adWORDPROCESSOR
WordPerfect_Mac_Fmt	91	79	WordPerfect MAC	application/x-corel-wordperfect		adWORDPROCESSOR
WordPerfect_Fmt	92	86	WordPerfect version 4	application/x-corel-wordperfect	WP, WP4	adWORDPROCESSOR
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

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
Windows_Metafile_Fmt	103	83	Windows Metafile	image/wmf	WMF	adVECTORGRAPHIC
Windows_Metafile_NoHdr_Fmt	104	83	Windows Metafile (no header)	image/wmf	WMF	adVECTORGRAPHIC
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	AutoDetNoFormat
WordStar_Fmt	107	87	WordStar		WS, WSD	adWORDPROCESSOR
WANG_WITA_Fmt	108	88	WANG WITA		WT	adWORDPROCESSOR
Xerox_860_Comm_Fmt	109	89	Xerox 860			adWORDPROCESSOR
Xerox_Writer_Fmt	110	91	Xerox Writer			adWORDPROCESSOR
DIF_SpreadSheet_Fmt	111	92	Data Interchange Format (DIF)	application/dif+xml	DIF	adSPREADSHEET
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
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
PowerPoint_97_Fmt	120	272	Microsoft PowerPoint 97	application/x-ms-powerpoint	PPT	adPRESENTATION
PageMaker_Mac_Fmt	121	100	PageMaker for Macintosh			adDESKTOPPUBLSH
PageMaker_Win_Fmt	122	101	PageMaker for Windows			adDESKTOPPUBLSH

Format Name	Number	Category	Description	MIME Type	Extension	File Class
MS_Works_Mac_WP_Fmt	123	103	Microsoft Works Word Processor for MAC	application/x-msworks	MWK	adWORDPROCESSOR
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
MS_Works_Mac_Comm_Fmt	126	106	Microsoft Works Communication for MAC	application/x-msworks		adCOMMUNICATION
MS_Works_DOS_WP_Fmt	127	107	Microsoft Works Word Processor for DOS	application/x-msworks	WPS	adWORDPROCESSOR
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
MS_Works_Win_WP_Fmt	130	227	Microsoft Works Word Processor for Windows	application/x-msworks	WPS, W40	adWORDPROCESSOR
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	S30, S40	adSPREADSHEET
PC_Library_Fmt	133	111	DOS/Windows Object Library	application/x-archive	LIB, A	adLIBRARY
MacWrite_Fmt	134	112	MacWrite	application/macwriteii		adWORDPROCESSOR
MacWrite_II_Fmt	135	113	MacWrite II	application/macwriteii		adWORDPROCESSOR
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	Maker Interchange Format (MIF)	application/x-mif	MIF	adWORDPROCESSOR
JPEG_File_Interchange_Fmt	143	118	JPEG Interchange Format	image/jpeg	JPG, JPEG	adRASTERIMAGE
Reflex_Fmt	144	119	Borland Reflex database			adDATABASE

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
MS_Windows_Write_Fmt	148	123	Microsoft Windows Write	application/x-ms-write	WRI	adWORDPROCESSOR
Quattro_Pro_DOS_Fmt	149	124	Quattro Pro for DOS	application/x-quattropro	WQ1	adSPREADSHEET
Quattro_Pro_Win_Fmt	150	184	Quattro Pro for Windows	application/x-quattro-win	WB1, WB2, WB3	adSPREADSHEET
Persuasion_Fmt	151	126	Adobe Persuasion			adPRESENTATION
Windows_Icon_Fmt	152	128	Windows Icon Format	image/ico	ICO	adRASTERIMAGE
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
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
PlanPerfect_Fmt	161	138	PlanPerfect			adSCHEDULE
WordPerfect_Auxiliary_Fmt	162	139	WordPerfect auxiliary file		WPW	adMISC
MS_WAVE_Audio_Fmt	163	141	Microsoft Wave	audio/wav	WAV	adSOUND
MIDI_Audio_Fmt	164	142	MIDI audio	audio/mid	MID, MIDI	adSOUND
AutoCAD_DXF_Binary_Fmt	165	143	AutoCAD DXF	image/x-dxf	DXF	adVECTORGRAPHIC
AutoCAD_DXF_Text_Fmt	166	143	AutoCAD DXF	image/x-dxf	DXF	adVECTORGRAPHIC
dBase_Fmt	167	144	dBase	application/x-dbf	DBF, VCX	adDATABASE
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
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
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
CSV_Fmt	180	153	CSV (Comma Separated Values)	text/csv	CSV	adSPREADSHEET
IBM_Writing_Assistant_Fmt	181	154	IBM Writing Assistant		IWA	adWORDPROCESSOR
WordStar_2000_Fmt	182	155	WordStar 2000		WS2	adWORDPROCESSOR
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
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	adSOUND

Format Name	Number	Category	Description	MIME Type	Extension	File Class
NeWS_Font_Fmt	197	162	NeWS bitmap font			adFONT
cpio_Archive_CRCldr_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/x-uencode	UUE	adENCAPSULATION
WriteNow_Fmt	204	168	WriteNow MAC			adWORDPROCESSOR
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
Stuffit_Fmt	210	175	Stuffit (MAC)	application/x-stuffit	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
Q_A_Win_Fmt	214	180	Q & A for Windows		JW	adWORDPROCESSOR
WPS_PLUS_Fmt	215	181	WPS-PLUS	application/vnd.ms-wpl	WPL	adWORDPROCESSOR
DCX_Fmt	216	182	DCX FAX Format(PCX images)	image/dcx	DCX	adFAXFORMAT
OLE_Fmt	217	183	OLE Compound Document		OLE	adENCAPSULATION
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
Compress_Fmt	223	192	Unix Compress	application/x-compress	Z	adENCAPSULATION
GZ_Compress_Fmt	224	198	GZ Compress	application/gzip	GZ	adENCAPSULATION

Format Name	Number	Category	Description	MIME Type	Extension	File Class
TAR_Fmt	225	194	TAR archive	application/tar	TAR	adENCAPSULATION
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	EVY	adWORDPROCESSOR
PDF_Fmt	230	200	Portable Document Format	application/pdf	PDF	adWORDPROCESSOR
BinHex_Fmt	231	206	BinHex	application/mac-binhex40	HQX	adENCAPSULATION
SMTP_Fmt	232	207	SMTP	message/rfc822	SMTP	adENCAPSULATION
MIME_Fmt	233	208	MIME (EML, MBX email) ¹	message/rfc822	EML, MBX	adENCAPSULATION
USENET_Fmt	234	264	USENET	message/news		adWORDPROCESSOR
SGML_Fmt	235	209	SGML	text/sgml	SGML	adWORDPROCESSOR
HTML_Fmt	236	210	HTML	text/html	HTM, HTML	adWORDPROCESSOR
ACT_Fmt	237	211	ACT! CRM software		ACT	adWORDPROCESSOR
PNG_Fmt	238	213	Portable Network Graphics (PNG)	image/png	PNG	adRASTERIMAGE
MS_Video_Fmt	239	214	Video for Windows (AVI)	video/avi	AVI	adMOVIE
Windows_Animated_Cursor_Fmt	240	215	Windows Animated Cursor		ANI	adRASTERIMAGE
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			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
AIFF_Fmt	248	223	Audio Interchange File Format (AIFF)	audio/aiff	AIF, AIFF	adSOUND
Amiga_MOD_Fmt	249	224	Amiga MOD		MOD	adSOUND
Amiga_IFF_8SVX_Fmt	250	225	Amiga IFF (8SVX) Sound	audio/x-8svx	IFF	adSOUND

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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_FLIC_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_Metafire_Fmt	256	235	QuickDraw 3D Metafile			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
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
SGI_Image_Fmt	268	247	SGI Image	image/sgi	RGB	adRASTERIMAGE
Lotus_ScreenCam_Fmt	269	248	Lotus ScreenCam	application/vnd.lotus-screencam	SCM	adANIMATION
MPEG_Audio_Fmt	270	249	MPEG Audio	audio/mpeg	MPEGA, MPG, MP3	adSOUND
FTP_Software_Session_Fmt	271	250	FTP Session Data		STE	adCOMMUNICATION
Netscape_Bookmark_File_Fmt	272	210	Netscape Bookmark File	text/html		adWORDPROCESSOR
Corel_Draw_CMV_Fmt	273	252	Corel CMV	application/cmv	CMV	adVECTORGRAPHIC
AutoDesk_DWG_Fmt	274	253	AutoDesk Drawing (DWG)	image/x-dwg	DWG	adVECTORGRAPHIC
AutoDesk_WHIP_Fmt	275	254	AutoDesk WHIP		WHP	adVECTORGRAPHIC
Macromedia_Director_Fmt	276	255	Macromedia Director	application/x-director	DCR	adANIMATION
Real_Audio_Fmt	277	256	Real Audio	audio/x-pn-realaudio	RM, RA	adSOUND

Format Name	Number	Category	Description	MIME Type	Extension	File Class
MSDOS_Device_Driver_Fmt	278	257	MSDOS Device Driver	application/octet-stream	SYS	adEXECUTABLE
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
Applix_Graphics_Fmt	282	262	Applix Graphics		AG	adPRESENTATION
MS_Access_Fmt	283	263	Microsoft Access (versions 1 and 2)	application/x-msaccess	MDB	adDATABASE
MS_Access_95_Fmt	284	263	Microsoft Access 95	application/msaccess	MDB	adDATABASE
MS_Access_97_Fmt	285	263	Microsoft Access 97	application/msaccess	MDB	adDATABASE
MacBinary_Fmt	286	265	MacBinary	application/x-macbinary	BIN	adENCAPSULATION
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
MS_Office_Drawing_Fmt	290	271	Microsoft Office Drawing			adVECTORGRAPHIC
XML_Fmt	291	285	XML	text/xml	XML	adWORDPROCESSOR
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
Lotus_123_Worksheet_Fmt	294	81	Lotus 1-2-3	application/x-lotus-123	WKS, WK1, WK3, WK4	adSPREADSHEET
Lotus_123_Format_Fmt	295	81	Lotus 1-2-3 Formatting	application/x-123	FM3	adSPREADSHEET
Lotus_123_97_Fmt	296	81	Lotus 1-2-3 97	application/x-lotus-123	123	adSPREADSHEET
Lotus_Word_Pro_96_Fmt	297	268	Lotus Word Pro 96	application/vnd.lotus-wordpro	LWP, MWP	adWORDPROCESSOR
Lotus_Word_Pro_97_Fmt	298	268	Lotus Word Pro 97	application/vnd.lotus-wordpro	LWP, MWP	adWORDPROCESSOR
Freelance_DOS_Fmt	299	140	Lotus Freelance for DOS	application/x-freelance	PRZ	adPRESENTATION
Freelance_Win_Fmt	300	140	Lotus Freelance for Windows	application/x-freelance	PRE	adPRESENTATION
Freelance_OS2_Fmt	301	140	Lotus Freelance for OS/2	application/x-freelance	PRS	adPRESENTATION
Freelance_96_Fmt	302	140	Lotus Freelance 96	application/x-freelance	PRZ	adPRESENTATION
Freelance_97_Fmt	303	140	Lotus Freelance 97	application/x-freelance	PRZ	adPRESENTATION
MS_Word_95_Fmt	304	189	Microsoft Word 95	application/msword	DOC	adWORDPROCESSOR

Format Name	Number	Category	Description	MIME Type	Extension	File Class
MS_Word_97_Fmt	305	269	Microsoft Word 97	application/msword	DOC, WPS, WBK	adWORDPROCESSOR
Excel_Fmt	306	90	Microsoft Excel (up to version 5)	application/x-ms-excel	XLS	adSPREADSHEET
Excel_Chart_Fmt	307	90	Microsoft Excel (up to version 5) chart	application/x-ms-excel	XLC	adSPREADSHEET
Excel_Macro_Fmt	308	90	Microsoft Excel (up to version 5) macro	application/vnd.ms-excel	XLM	adSPREADSHEET
Excel_95_Fmt	309	188	Microsoft Excel 95	application/x-ms-excel	XLS	adSPREADSHEET
Excel_97_Fmt	310	188	Microsoft Excel 97	application/x-ms-excel	XLS	adSPREADSHEET
Corel_Presentations_Fmt	311	127	Corel Presentations	application/x-corelpresentations	XFD, XFDL	adPRESENTATION
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
Applix_Spreadsheets_Fmt	318	278	Applix Spreadsheets	application/x-applix-spreadsheet	AS	adSPREADSHEET
MS_Pocket_Word_Fmt	319	45	Microsoft Pocket Word		PWD	adWORDPROCESSOR
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
Excel_2000_Fmt	322	188	Microsoft Excel 2000	application/x-ms-excel	XLS	adSPREADSHEET
PowerPoint_2000_Fmt	323	272	Microsoft PowerPoint 2000	application/x-ms-powerpoint	PPT	adPRESENTATION
MS_Access_2000_Fmt	324	263	Microsoft Access 2000	application/x-msaccess	MDB	adDATABASE
MS_Project_4_Fmt	325	281	Microsoft Project 4		MPP	adSCHEDULE
MS_Project_41_Fmt	326	281	Microsoft Project 4.1		MPP	adSCHEDULE
MS_Project_98_Fmt	327	281	Microsoft Project 98	application/vnd.ms-project	MPP	adSCHEDULE
Folio_Flat_Fmt	328	282	Folio Flat File		FFF	adWORDPROCESSOR
HWP_Fmt	329	283	HWP (Arae-Ah Hangul)	application/x-hwp	HWP	adWORDPROCESSOR

Format Name	Number	Category	Description	MIME Type	Extension	File Class
ICHITARO_Fmt	330	284	ICHITARO (v4-10)		JTD	adWORDPROCESSOR
IS_XML_Fmt	331	273	Extended or Custom XML	text/xml	XML	adWORDPROCESSOR
Oasys_Fmt	332	286	Oasys	application/vnd.fujitsu.oasys	OAS, OA2, OA3	adWORDPROCESSOR
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
MS_Project_2000_Fmt	344	281	Microsoft Project 2000	application/vnd.ms-project	MPP	adSCHEDULE
MS_Outlook_Fmt	345	295	Microsoft Outlook message	application/vnd.ms-outlook	MSG, OFT	adENCAPSULATION
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
MS_Word_XML_Fmt	349	285	Microsoft Word 2003 XML	text/xml	XML	adWORDPROCESSOR
MS_Excel_XML_Fmt	350	285	Microsoft Excel 2003 XML	text/xml	XML	adWORDPROCESSOR
MS_Visio_XML_Fmt	351	285	Microsoft Visio 2003 XML	text/xml	VDX	adWORDPROCESSOR
SO_Text_XML_Fmt	352	314	OpenDocument format (OpenOffice 1/StarOffice 6,7) Text XML	application/vnd.sun.xml.writer	SXW	adWORDPROCESSOR
SO_Spreadsheet_XML_Fmt	353	315	OpenDocument format	application/vnd.sun.xml.calc	SXC, STC	adSPREADSHEET

Format Name	Number	Category	Description	MIME Type	Extension	File Class
			(OpenOffice 1/StarOffice 6,7) Spreadsheet XML			
SO_Presentation_XML_Fmt	354	316	OpenDocument format (OpenOffice 1/StarOffice 6,7) Presentation XML	application/vnd.sun.xml.impress	SXD, SXI	adPRESENTATION
XHTML_Fmt	355	296	XHTML	text/xhtml	XML, ASP	adWORDPROCESSOR
MS_OutlookPST_Fmt	356	297	Microsoft Outlook Personal Folders File (.pst)	application/vnd.ms-outlook-pst	PST	adENCAPSULATION
RAR_Fmt	357	298	RAR archive format	application/x-rar-compressed	RAR	adENCAPSULATION
Lotus_Notes_NSF_Fmt	358	299	IBM Lotus Notes Database NSF/NTF	application/x-lotus-notes	NSF	adENCAPSULATION
Macromedia_Flash_Fmt	359	300	Macromedia Flash (.swf)	application/x-shockwave-flash	SWF, SWD	adWORDPROCESSOR
MS_Word_2007_Fmt	360	301	Microsoft Word 2007 XML - Docx	application/x-ms-word07	DOCX, DOTX	adWORDPROCESSOR
MS_Excel_2007_Fmt	361	302	Microsoft Excel 2007 XML	application/x-ms-excel07	XLSX, XLTX	adSPREADSHEET
MS_PPT_2007_Fmt	362	303	Microsoft PowerPoint 2007 XML	application/x-ms-powerpoint07	PPTX, POTX, PPSX	adPRESENTATION
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
MS_Excel_Macro_2007_Fmt	367	308	Microsoft Excel Macro 2007 XML	application/x-ms-excel07m	XLSM, XLTM, XLAM	adSPREADSHEET
MS_PPT_Macro_2007_Fmt	368	309	Microsoft PPT Macro 2007 XML	application/x-ms-powerpoint07m	PPTM, POTM, PPSM, PPAM	adPRESENTATION
LZH_Fmt	369	310	LZH Archive	application/x-lzh-compressed	LZH, LHA	adENCAPSULATION
Office_2007_Fmt	370	311	Office 2007 document		XLSB	adMISC
MS_XPS_Fmt	371	312	Microsoft XML Paper Specification (XPS)	application/vnd.ms-xpsdocument	XPS	adWORDPROCESSOR
Lotus_Domino_DXL_Fmt	372	313	IBM Domino Data in XML format (.dxl)	text/xml	DXL	adENCAPSULATION
ODF_Text_Fmt	373	314	ODF Text	application/vnd.oasis.opendocument.text	ODT	adWORDPROCESSOR

Format Name	Number	Category	Description	MIME Type	Extension	File Class
ODF_Spreadsheet_Fmt	374	315	ODF Spreadsheet	application/vnd.oasis.opendocument.spreadsheet	ODS	adSPREADSHEET
ODF_Presentation_Fmt	375	316	ODF Presentation	application/vnd.oasis.opendocument.presentation	ODP	adPRESENTATION
Legato_Extender_ONM_Fmt	376	317	Legato Extender Native Message ONM	application/x-lotus-notes	ONM	adENCAPSULATION
bin_Unknown_Fmt	377	318	Bin unknown format (.xxx)			adWORDPROCESSOR
TNEF_Fmt	378	319	Transport Neutral Encapsulation Format (TNEF)	application/vnd.ms-tnef		adENCAPSULATION
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
WMA_Fmt	384	325	Windows Media Audio Format (WMA)	audio/x-ms-wma	WMA	adSOUND
WMV_Fmt	385	326	Windows Media Video Format (WMV)	video/x-ms-wmv	WMV	adMOVIE
EMX_Fmt	386	327	Legato EMailXtender Archives Format (EMX)		EMX	adENCAPSULATION
Z7Z_Fmt	387	328	7 Zip Format (7z)	application/7z	7Z	adENCAPSULATION
MS_Excel_Binary_2007_Fmt	388	329	Microsoft Excel Binary 2007	application/vnd.ms-excel.sheet.binary.macroenabled.12	XLSB	adSPREADSHEET
CAB_Fmt	389	330	Microsoft Cabinet File (CAB)	application/vnd.ms-cab-compressed	CAB	adENCAPSULATION
CATIA_Fmt	390	331	CATIA Formats (CAT*)		CATPART, CATPRODUCT 2	adVECTORGRAPHIC
YIM_Fmt	391	332	Yahoo Instant Messenger History		DAT	adWORDPROCESSOR
ODF_Drawing_Fmt	392	316	ODF Drawing/Graphics	application/vnd.oasis.opendocument.graphics	ODG	adVECTORGRAPHIC
Founder_CEB_Fmt	393	333	Founder Chinese E-paper Basic (ceb)	application/ceb	CEB	adWORDPROCESSOR
QPW_Fmt	394	334	Corel Quattro Pro 9+ for Windows	application/quattro-pro	QPW	adSPREADSHEET
MHT_Fmt	395	335	MHTML format (MHT) ¹	multipart/related	MHT, MHTML	adWORDPROCESSOR
MDI_Fmt	396	336	Microsoft Document Imaging Format	image/vnd.ms-modi	MDI	adRASTERIMAGE

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
IWSS_Fmt	399	339	Apple iWork Numbers format	application/vnd.apple.numbers	NUMBERS	adSPREADSHEET
IWPG_Fmt	400	340	Apple iWork Keynote format	application/vnd.apple.keynote	KEY	adPRESENTATION
BKF_Fmt	401	341	Windows Backup File		BKF	adENCAPSULATION
MS_Access_2007_Fmt	402	342	Microsoft Access 2007	application/msaccess	ACCDB	adDATABASE
ENT_Fmt	403	343	Microsoft Entourage Database Format			adENCAPSULATION
DMG_Fmt	404	344	Mac Disk Copy Disk Image File	application/x-apple-diskimage	DMG	adENCAPSULATION
CWK_Fmt	405	345	AppleWorks File	application/appleworks	CWK	adWORDPROCESSOR
OO3_Fmt	406	346	Omni Outliner V3 File		OO3	adWORDPROCESSOR
OPML_Fmt	407	347	Omni Outliner OPML File		OPML	adWORDPROCESSOR
Omni_Graffle_XML_Fmt	408	348	Omni Graffle XML File		GRAFFLE	adVECTORGRAPHIC
PSD_Fmt	409	349	Photoshop Document	image/vnd.adobe.photoshop	PSD, PSB	adRASTERIMAGE
Apple_Binary_PLList_Fmt	410	350	Apple Binary Property List format		PLIST	adMISC
Apple_iChat_Fmt	411	351	Apple iChat format		ICHAT	adWORDPROCESSOR
OOOUTLINE_Fmt	412	352	OOutliner File		OOOUTLINE	adWORDPROCESSOR
BZIP2_Fmt	413	353	Bzip 2 Compressed File	application/x-bzip2	BZ2	adENCAPSULATION
ISO_Fmt	414	354	ISO-9660 CD Disc Image Format	application/x-iso9660-image	ISO	adENCAPSULATION
DocuWorks_Fmt	415	355	DocuWorks Format	application/vnd.fujixerox.docuworks	XDW	adWORDPROCESSOR
RealMedia_Fmt	416	356	RealMedia Streaming Media	application/vnd.rn-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
Apple_XML_PLList_Fmt	421	367	Apple XML Property List format		PLIST	adMISC

Format Name	Number	Category	Description	MIME Type	Extension	File Class
OneNote_Fmt	422	368	OneNote Note Format	application/onenote	ONE	adWORDPROCESSOR
IFilter_Fmt	423	369	iFilter			adWORDPROCESSOR
Dicom_Fmt	424	370	Digital Imaging and Communications in Medicine (Dicom)	application/dicom	DCM	adRASTERIMAGE
EnCase_Fmt	425	371	Expert Witness Compression Format (EnCase)		E01, L01, Lx01	adENCAPSULATION
Scrap_Fmt	426	372	Shell Scrap Object File		SHS	adENCAPSULATION
MS_Project_2007_Fmt	427	373	Microsoft Project 2007	application/vnd.ms-project	MPP	adSCHEDULE
MS_Publisher_98_Fmt	428	374	Microsoft Publisher from version 98	application/x-mspublisher	PUB	adDESKTOPPUBLSH
Skype_Fmt	429	375	Skype Log File		DBB	adWORDPROCESSOR
HL7_Fmt	430	377	Health level7 message		HL7	adWORDPROCESSOR
MS_OutlookOST_Fmt	431	378	Microsoft Outlook Offline Folders File (OST)	application/vnd.ms-outlook-pst	OST	adENCAPSULATION
Epub_Fmt	432	379	Electronic Publication	application/epub+zip	EPUB	adWORDPROCESSOR
MS_OEDBX_Fmt	433	380	Microsoft Outlook Express DBX Message Database		DBX	adENCAPSULATION
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
Unicode_HTML_Fmt	441	388	Unicode HTML	text/html	HTM, HTML	adWORDPROCESSOR
CHM_Fmt	442	389	Microsoft Compiled HTML Help	application/x-chm	CHM	adENCAPSULATION
EMCMF_Fmt	443	390	Documentum EMCMF format		EMCMF	adENCAPSULATION

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
EFax_Fmt	447	394	eFax file		EFX	adRASTERIMAGE
AD1_Fmt	448	395	AD1 Evidence file		AD1	adENCAPSULATION
SketchUp_Fmt	449	396	Google SketchUp		SKP	adVECTORGRAPHIC
GWFS_Email_Fmt	450	397	Group Wise File Surf email		GWFS	adENCAPSULATION
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
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
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
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
MS_Visio_2013_Fmt	467	415	Microsoft Visio 2013	application/vnd.visio	VSDX, VSTX,	adPRESENTATION

Format Name	Number	Category	Description	MIME Type	Extension	File Class
					VSSX	
MS_Visio_2013_Macro_Fmt	468	415	Microsoft Visio 2013 macro	application/vnd.visio	VSDM, VSTM, VSSM	adPRESENTATION
ICHITARO_Compr_Fmt	469	417	ICHITARO Compressed format	application/x-js-taro	JTDC	adWORDPROCESSOR
IWWP13_Fmt	470	418	Apple iWork 2013 Pages format		IWA, PAGES	adWORDPROCESSOR
IWSS13_Fmt	471	419	Apple iWork 2013 Numbers format		IWA, NUMBERS	adSPREADSHEET
IWPG13_Fmt	472	420	Apple iWork 2013 Keynote format		IWA, KEY	adPRESENTATION
XZ_Fmt	473	421	XZ archive format	application/x-xz	XZ	adENCAPSULATION
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
MS_Visio_2013_Stencil_Macro_Fmt	478	415	MS Visio 2013 stencil Macro format	application/vnd.visio	VSSM	adPRESENTATION
MS_Visio_2013_Template_Fmt	479	415	MS Visio 2013 template format	application/vnd.visio	VSTX	adPRESENTATION
MS_Visio_2013_Template_Macro_Fmt	480	415	MS Visio 2013 template Macro format	application/vnd.visio	VSTM	adPRESENTATION
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
ISO_IEC_MPEG_4_Fmt	484	428	ISO/IEC MPEG-4 (ISO 14496) format	video/mp4	MP4	adMOVIE
RAR5_Fmt	485	429	RAR5 Format	application/x-rar-compressed	RAR	adENCAPSULATION
Unigraphics_NX_Fmt	486	362	Unigraphics (UG) NX CAD Format		PRT	adVECTORGRAPHIC
PTC_Creo_Fmt	487	430	PTC Creo CAD Format		ASM, PRT	adVECTORGRAPHIC
KML_Fmt	488	431	Keyhole Markup Language	application/vnd.google-earth.kml+xml	KML	adWORDPROCESSOR
KMZ_Fmt	489	432	Zipped Keyhole Markup Language	application/vnd.google-earth.kmz	KMZ	adWORDPROCESSOR
WML_Fmt	490	433	Wireless Markup Language	text/vnd.wap.wml	WML	adWORDPROCESSOR
ODF_Formula_Fmt	491	434	ODF Formula	application/vnd.oasis.opendocument.formula	ODF	adWORDPROCESSOR
SO_Text_Fmt	492	435	Star Office 4,5 Writer Text	application/vnd.stardivision.writer	SDW, SGL,	adWORDPROCESSOR

Format Name	Number	Category	Description	MIME Type	Extension	File Class
					VOR	
SO_Spreadsheet_Fmt	493	436	Star Office 4,5 Calc Spreadsheet	application/vnd.stardivision.calc	SDC	adSPREADSHEET
SO_Presentation_Fmt	494	437	Star Office 4,5 Impress Presentation	application/vnd.stardivision.draw	SDD, SDA	adPRESENTATION
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 ³	text/x-applescript	APPLESCRIPT	adSOURCECODE
Assembly_Fmt	499	441	Assembly Code ³	text/x-assembly		adSOURCECODE
C_Fmt	500	442	C Source Code ³	text/x-c	C, H	adSOURCECODE
Csharp_Fmt	501	443	C# Source Code ³	text/x-csharp	CS	adSOURCECODE
CPlusPlus_Fmt	502	444	C++ Source Code ³	text/x-c++	CPP, HPP	adSOURCECODE
Css_Fmt	503	445	Cascading Style Sheet ³	text/css	CSS	adSOURCECODE
Clojure_Fmt	504	446	Clojure Source Code ³	text/x-clojure	CLJ, CL2	adSOURCECODE
CoffeeScript_Fmt	505	447	CoffeeScript Source Code ³	text/x-coffeescript	COFFEE, CAKE	adSOURCECODE
Lisp_Fmt	506	448	Common Lisp Source Code ³	text/x-common-lisp	EL	adSOURCECODE
Dockerfile_Fmt	507	449	Dockerfile ³	text/x-dockerfile		adSOURCECODE
Eiffel_Fmt	508	450	Eiffel Source Code ³	text/x-eiffel	E	adSOURCECODE
Erlang_Fmt	509	451	Erlang Source Code ³	text/x-erlang	ERL, ES	adSOURCECODE
Fsharp_Fmt	510	452	F# Source Code ³	text/x-fsharp	FS	adSOURCECODE
Fortran_Fmt	511	453	Fortran Source Code ³	text/x-fortran	F	adSOURCECODE
Go_Fmt	512	454	Go Source Code ³	text/x-go	GO	adSOURCECODE
Groovy_Fmt	513	455	Groovy Source Code ³	text/x-groovy	GRT, GVV	adSOURCECODE
Haskell_Fmt	514	456	Haskell Source Code ³	text/x-haskell	HS	adSOURCECODE
Ini_Fmt	515	457	Initialization (INI) file ³	text/x-ini		adSOURCECODE
Java_Fmt	516	458	Java Source Code ³	text/x-java-source	JAVA	adSOURCECODE
Javascript_Fmt	517	459	Javascript Source Code ³	text/javascript	JS	adSOURCECODE
Lua_Fmt	518	460	Lua Source Code ³	text/x-lua	LUA	adSOURCECODE

Format Name	Number	Category	Description	MIME Type	Extension	File Class
Makefile_Fmt	519	461	Makefile ³	text/x-makefile	MAKE	adSOURCECODE
Mathematica_Fmt	520	462	Wolfram Mathematica Source Code ³	text/x-mathematica	M	adSOURCECODE
ObjC_Fmt	521	464	Objective-C Source Code ³	text/x-objc		adSOURCECODE
ObjCpp_Fmt	522	465	Objective-C++ Source Code ³	text/x-objectivec++		adSOURCECODE
ObjJ_Fmt	523	466	Objective-J Source Code ³	text/x-objectivej	J	adSOURCECODE
PHP_Fmt	524	467	PHP Source Code ³	text/x-php	PHP	adSOURCECODE
PLSQL_Fmt	525	468	PLSQL Source Code ³	text/x-plsql		adSOURCECODE
Pascal_Fmt	526	469	Pascal Source Code ³	text/x-pascal	PASCAL	adSOURCECODE
Perl_Fmt	527	470	Perl Source Code ³	text/x-perl	PL	adSOURCECODE
Powershell_Fmt	528	471	PowerShell Source Code ³	text/x-powershell	PS1	adSOURCECODE
Prolog_Fmt	529	472	Prolog Source Code ³	text/x-prolog	PRO, PROLOG	adSOURCECODE
Puppet_Fmt	530	473	Puppet Source Code ³	text/x-puppet	PP	adSOURCECODE
Python_Fmt	531	474	Python Source Code ³	text/x-python	PY	adSOURCECODE
R_Fmt	532	475	R Source Code ³	text/x-rsrc	R	adSOURCECODE
Ruby_Fmt	533	476	Ruby Source Code ³	text/x-ruby	RB	adSOURCECODE
Rust_Fmt	534	477	Rust Source Code ³	text/x-rust	RS	adSOURCECODE
Scala_Fmt	535	478	Scala Source Code ³	text/x-scala	SC	adSOURCECODE
Shell_Fmt	536	479	Shell Script ³	application/x-sh	SH	adSOURCECODE
Smalltalk_Fmt	537	480	Smalltalk Source Code ³	text/x-stsrc	ST	adSOURCECODE
ML_Fmt	538	481	Standard ML Source Code ³	text/x-ml	ML	adSOURCECODE
Swift_Fmt	539	482	Swift Source Code ³	text/x-swift	SWIFT	adSOURCECODE
Tcl_Fmt	540	483	Tool Command Language (Tcl) Source Code ³	text/x-tcl	TM	adSOURCECODE
Tex_Fmt	541	484	TeX Typesetting File ³	application/x-tex		adSOURCECODE
TypeScript_Fmt	542	485	TypeScript Source Code ³	text/x-typescript	TS	adSOURCECODE
Verilog_Fmt	543	486	Verilog Source Code ³	text/x-verilog	V	adSOURCECODE
YAML_Fmt	544	487	YAML File ³	text/x-yaml	YML	adSOURCECODE
Wiki_Fmt	545	488	MediaWiki File	text/x-mediawiki		adWORDPROCESSOR

Format Name	Number	Category	Description	MIME Type	Extension	File Class
MS_Word_2007_Flat_XML_Fmt	546	301	Microsoft Word 2007 XML - Flat xml	text/xml	XML	adWORDPROCESSOR
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
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
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			adMOVIE
AMV_Fmt	571	512	AMV video file		AMV	adMOVIE

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
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		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

Format Name	Number	Category	Description	MIME Type	Extension	File Class
Adobe_Flash_Audio_Book_Fmt	598	539	Adobe Flash Player audio book	audio/mp4	F4B	adSOUND
Adobe_Flash_Audio_Fmt	599	540	Adobe Flash Player audio	audio/mp4	F4A	adSOUND
Adobe_Flash_Protected_Video_Fmt	600	541	Adobe Flash Player protected video	video/mp4	F4P	adMOVIE
Adobe_Flash_Video_Fmt	601	542	Adobe Flash Player video	video/x-f4v	F4V	adMOVIE
Audible_Audiobook_Fmt	602	543	Audible Enhanced Audiobook	audio/vnd.audible.aax	AAX	adSOUND
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
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
ISO_3GPP_Fmt	618	559	3GPP video file	video/3gpp	3GP	adMOVIE
ISO_JPEG2000_JP2_Fmt	619	560	ISO-BMFF JPEG 2000 image	image/jp2	JP2	adRASTERIMAGE
ISO_JPEG2000_JPM_Fmt	620	561	ISO-BMFF JPEG 2000 compound image	image/jpm	JPM	adRASTERIMAGE
ISO_JPEG2000_JPX_Fmt	621	562	ISO-BMFF JPEG 2000 with extensions	image/jpx	JPX	adRASTERIMAGE

Format Name	Number	Category	Description	MIME Type	Extension	File Class
ISO_QuickTime_Fmt	622	563	Apple ISO-BMFF QuickTime video	video/quicktime	QT, MOV	adMOVIE
KDDI_Video_Fmt	623	564	KDDI Video file	video/3gpp2		adMOVIE
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
MPEG4_M4A_Fmt	626	567	Apple MPEG-4 Part 14 audio	audio/x-m4a	M4A	adSOUND
MPEG4_M4B_Fmt	627	568	Apple MPEG-4 Part 14 audio book	audio/mp4	M4B	adSOUND
MPEG4_M4P_Fmt	628	569	Apple MPEG-4 Part 14 protected audio	audio/mp4	M4P	adSOUND
MPEG4_M4V_Fmt	629	570	Apple MPEG-4 Part 14 video	video/x-m4v	M4V	adMOVIE
MPEG4_Sony_PSP_Fmt	630	571	Sony PSP MPEG-4	audio/mp4	MP4	adSOUND
MPEG_21_Fmt	631	572	MPEG-21	audio/mp4		adMISC
Mobile_QuickTime_Fmt	632	573	Mobile QuickTime video	video/quicktime	MQV	adMOVIE
Motion_JPEG_2000_Fmt	633	574	Motion JPEG 2000	video/mj2	MJ2, MJP2	adMOVIE
NTT_MPEG4_Fmt	634	575	NTT MPEG-4	video/mp4		adMOVIE
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
Nero_MPEG4_Profile	637	578	Nero MPEG-4 profile	video/mp4		adMOVIE
OMA_DRM_Fmt	638	579	OMA DRM 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
JPEG_2000_PGX_Fmt	644	585	JPEG 2000 PGX Verification Model image		PGX	adRASTERIMAGE
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
VICAR_Fmt	647	588	VICAR image format		IMG	adRASTERIMAGE

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
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

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
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

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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 'Quantum' compression		EX_	adENCAPSULATION
DLS_Fmt	704	645	DLS Downloadable Sounds format		DLS	adSOUND
MS_Windows_Registry_Fmt	705	646	Microsoft Windows Registry format			adMISC
Microsoft_Help_2_0_Fmt	706	647	Microsoft Help 2.0 format		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

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
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
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
Tableau_Workbook_Fmt	742	683	Tableau Workbook format		TWB	adANALYTICS
Tableau_Packaged_Workbook_Fmt	743	684	Tableau Packaged Workbook		TWBX	adANALYTICS

Format Name	Number	Category	Description	MIME Type	Extension	File Class
			format			
Tableau_Extract_Fmt	744	685	Tableau Extract format		TDE	adANALYTICS
Tableau_Data_Source_Fmt	745	686	Tableau Data Source format		TDS	adANALYTICS
Tableau_Packaged_Data_Source_Fmt	746	687	Tableau Packaged Data Source format		TDSX	adANALYTICS
Tableau_Preferences_Fmt	747	688	Tableau Preferences format		TPS	adANALYTICS
Tableau_Map_Source_Fmt	748	689	Tableau Map Source format		TMS	adANALYTICS
ABAP_Fmt	749	690	ABAP Source Code ⁴	text/x-abap	ABAP	adSOURCECODE
AMPL_Fmt	750	691	AMPL Source Code ⁴		AMPL	adSOURCECODE
APL_Fmt	751	692	APL Source Code ⁴		APL	adSOURCECODE
ASN1_Fmt	752	693	ASN.1 Source Code ⁴		ASN	adSOURCECODE
ATS_Fmt	753	694	ATS Source Code ⁴			adSOURCECODE
Agda_Fmt	754	695	Agda Source Code ⁴	text/x-agda	AGDA	adSOURCECODE
Alloy_Fmt	755	696	Alloy Source Code ⁴	text/x-alloy	ALS	adSOURCECODE
Apex_Fmt	756	697	Apex Source Code ⁴		CLS	adSOURCECODE
Arduino_Fmt	757	698	Arduino Source Code ⁴	text/x-arduino	INO	adSOURCECODE
AsciiDoc_Fmt	758	699	AsciiDoc Source Code ⁴	text/x-asciidoc	ASC	adSOURCECODE
AspectJ_Fmt	759	700	AspectJ Source Code ⁴	text/x-aspectj	AJ	adSOURCECODE
Awk_Fmt	760	701	Awk Source Code ⁴	text/x-awk	AWK	adSOURCECODE
BlitzMax_Fmt	761	702	BlitzMax Source Code ⁴	text/x-bmx	BMX	adSOURCECODE
Bluespec_Fmt	762	703	Bluespec Source Code ⁴		BSV	adSOURCECODE
Brainfuck_Fmt	763	704	Brainfuck Source Code ⁴	text/x-brainfuck	B, BF	adSOURCECODE
Brightscript_Fmt	764	705	Brightscript Source Code ⁴		BRS	adSOURCECODE
CLIPS_Fmt	765	706	CLIPS Source Code ⁴		CLP	adSOURCECODE
CMake_Fmt	766	707	CMake Source Code ⁴	text/x-cmake	CMAKE	adSOURCECODE
COBOL_Fmt	767	708	COBOL Source Code ⁴	text/x-cobol	CBL, CCP, COB, CPY	adSOURCECODE
CWeb_Fmt	768	709	CWeb Source Code ⁴		W	adSOURCECODE
CartoCSS_Fmt	769	710	CartoCSS Source Code ⁴		MSS	adSOURCECODE

Format Name	Number	Category	Description	MIME Type	Extension	File Class
Ceylon_Fmt	770	711	Ceylon Source Code ⁴	text/x-ceylon	CEYLON	adSOURCECODE
Chapel_Fmt	771	712	Chapel Source Code ⁴		CHPL	adSOURCECODE
Clarion_Fmt	772	713	Clarion Source Code ⁴		CLW	adSOURCECODE
Clean_Fmt	773	714	Clean Source Code ⁴		DCL, ICL	adSOURCECODE
Component_Pascal_Fmt	774	715	Component Pascal Source Code ⁴	text/x-component-pascal	CP	adSOURCECODE
Cool_Fmt	775	716	Cool Source Code ⁴		CL	adSOURCECODE
Coq_Fmt	776	717	Coq Source Code ⁴	text/x-coq	V	adSOURCECODE
Creole_Fmt	777	718	Creole Source Code ⁴		CREOLE	adSOURCECODE
Crystal_Fmt	778	719	Crystal Source Code ⁴		CR	adSOURCECODE
Csound_Fmt	779	720	Csound Source Code ⁴		ORC	adSOURCECODE
Csound_Document_Fmt	780	721	Csound Document Source Code ⁴		CSD	adSOURCECODE
Cuda_Fmt	781	722	Cuda Source Code ⁴	text/x-cuda	CU	adSOURCECODE
D_Fmt	782	723	D Source Code ⁴	text/x-d	DCL, ICL	adSOURCECODE
DIGITAL_Command_Language_Fmt	783	724	DIGITAL Command Language Source Code ⁴		COM	adSOURCECODE
DTrace_Fmt	784	725	DTrace Source Code ⁴		D	adSOURCECODE
Dart_Fmt	785	726	Dart Source Code ⁴	text/x-dart	DART	adSOURCECODE
E_Fmt	786	727	E Source Code ⁴		E	adSOURCECODE
ECL_Fmt	787	728	ECL Source Code ⁴	application/x-ecl	ECL	adSOURCECODE
Elm_Fmt	788	729	Elm Source Code ⁴	text/x-elm	ELM	adSOURCECODE
Emacs_Lisp_Fmt	789	730	Emacs Lisp Source Code ⁴	text/x-emacs-lisp	EL	adSOURCECODE
EmberScript_Fmt	790	731	EmberScript Source Code ⁴		EM	adSOURCECODE
Fantom_Fmt	791	732	Fantom Source Code ⁴	application/x-fantom	FAN	adSOURCECODE
Forth_Fmt	792	733	Forth Source Code ⁴	text/x-forth	FOR, FORTH	adSOURCECODE
FreeMarker_Fmt	793	734	FreeMarker Source Code ⁴		FTL	adSOURCECODE
Frege_Fmt	794	735	Frege Source Code ⁴		FR	adSOURCECODE
G_code_Fmt	795	736	G-code Source Code ⁴		G	adSOURCECODE
GAMS_Fmt	796	737	GAMS Source Code ⁴		GMS	adSOURCECODE
GAP_Fmt	797	738	GAP Source Code ⁴			adSOURCECODE

Format Name	Number	Category	Description	MIME Type	Extension	File Class
GDScript_Fmt	798	739	GDScript Source Code ⁴		GD	adSOURCECODE
GLSL_Fmt	799	740	GLSL Source Code ⁴	text/x-glslsrc	GLSL	adSOURCECODE
Game_Maker_Language_Fmt	800	741	Game Maker Language Source Code ⁴		GML	adSOURCECODE
Gnuplot_Fmt	801	742	Gnuplot Source Code ⁴	text/x-gnuplot	GNU, GP	adSOURCECODE
Golo_Fmt	802	743	Golo Source Code ⁴		GOLO	adSOURCECODE
Gosu_Fmt	803	744	Gosu Source Code ⁴	text/x-gosu	GS	adSOURCECODE
Gradle_Fmt	804	745	Gradle Source Code ⁴		GRADLE	adSOURCECODE
GraphQL_Fmt	805	746	GraphQL Source Code ⁴		GRAPHQL	adSOURCECODE
Graphviz_DOT_Fmt	806	747	Graphviz (DOT) Source Code ⁴		DOT	adSOURCECODE
HLSL_Fmt	807	748	HLSL Source Code ⁴		HLSL	adSOURCECODE
Hack_Fmt	808	749	Hack Source Code ⁴			adSOURCECODE
Haml_Fmt	809	750	Haml Source Code ⁴	text/x-haml	HAML	adSOURCECODE
Handlebars_Fmt	810	751	Handlebars Source Code ⁴		HBS	adSOURCECODE
Hy_Fmt	811	752	Hy Source Code ⁴	text/x-hy	HY	adSOURCECODE
IDL_Fmt	812	753	IDL Source Code ⁴	text/x-idl	PRO	adSOURCECODE
IGOR_Pro_Fmt	813	754	IGOR Pro Source Code ⁴	text/ipf	IPF	adSOURCECODE
Idris_Fmt	814	755	Idris Source Code ⁴	text/x-idris	IDR	adSOURCECODE
Inform_7_Fmt	815	756	Inform 7 Source Code ⁴		I7X	adSOURCECODE
Ioke_Fmt	816	757	Ioke Source Code ⁴	text/x-iokesrc	IK	adSOURCECODE
Isabelle_Fmt	817	758	Isabelle Source Code ⁴	text/x-isabelle		adSOURCECODE
J_Fmt	818	759	J Source Code ⁴	text/x-j	IJS	adSOURCECODE
JSONiq_Fmt	819	760	JSONiq Source Code ⁴		JQ	adSOURCECODE
JSX_Fmt	820	761	JSX Source Code ⁴		JSX	adSOURCECODE
Jasmin_Fmt	821	762	Jasmin Source Code ⁴		J	adSOURCECODE
Jolie_Fmt	822	763	Jolie Source Code ⁴			adSOURCECODE
Julia_Fmt	823	764	Julia Source Code ⁴	text/x-julia	JL	adSOURCECODE
KiCad_Layout_Fmt	824	765	KiCad Layout Source Code ⁴			adSOURCECODE
KiCad_Schematic_Fmt	825	766	KiCad Schematic Source Code ⁴		SCH	adSOURCECODE

Format Name	Number	Category	Description	MIME Type	Extension	File Class
Kotlin_Fmt	826	767	Kotlin Source Code ⁴		KT	adSOURCECODE
LFE_Fmt	827	768	LFE Source Code ⁴	text/x-kotlin	LFE	adSOURCECODE
LOLCODE_Fmt	828	769	LOLCODE Source Code ⁴		LOL	adSOURCECODE
Lasso_Fmt	829	770	Lasso Source Code ⁴	text/x-lasso	LAS, LASSO	adSOURCECODE
Limbo_Fmt	830	771	Limbo Source Code ⁴	text/limbo		adSOURCECODE
LiveScript_Fmt	831	772	LiveScript Source Code ⁴	text/x-livescript	LS	adSOURCECODE
M_Fmt	832	773	M Source Code ⁴		M	adSOURCECODE
MAXScript_Fmt	833	774	MAXScript Source Code ⁴		MS	adSOURCECODE
Markdown_Fmt	834	775	Markdown Source Code ⁴		MD	adSOURCECODE
Matlab_Fmt	835	463	Matlab Source Code ⁴	text/x-matlab	M	adSOURCECODE
Max_Code_Fmt	836	776	Max Source Code ⁴		MXT	adSOURCECODE
Mercury_Fmt	837	777	Mercury Source Code ⁴			adSOURCECODE
Modelica_Fmt	838	778	Modelica Source Code ⁴	text/x-modelica	MO	adSOURCECODE
Modula_2_Fmt	839	779	Modula-2 Source Code ⁴	text/x-modula2	MOD	adSOURCECODE
Monkey_Fmt	840	780	Monkey Source Code ⁴	text/x-monkey	MONKEY	adSOURCECODE
Moocode_Fmt	841	781	Moocode Source Code ⁴	text/x-moocode	MOO	adSOURCECODE
NL_Fmt	842	782	NL Source Code ⁴		NL	adSOURCECODE
NSIS_Fmt	843	783	NSIS Source Code ⁴	text/x-nsis	NSI	adSOURCECODE
NetLogo_Fmt	844	784	NetLogo Source Code ⁴		NLOGO	adSOURCECODE
NewLisp_Fmt	845	785	NewLisp Source Code ⁴	text/x-newlisp	NL	adSOURCECODE
Nginx_Fmt	846	786	Nginx Source Code ⁴	text/x-nginx-conf	VHOST	adSOURCECODE
Nix_Fmt	847	787	Nix Source Code ⁴	text/x-nix	NIX	adSOURCECODE
Nu_Fmt	848	788	Nu Source Code ⁴		NU	adSOURCECODE
OCaml_Fmt	849	789	OCaml Source Code ⁴	text/x-ocaml		adSOURCECODE
OpenCL_Fmt	850	790	OpenCL Source Code ⁴		CL	adSOURCECODE
OpenEdge_ABL_Fmt	851	791	OpenEdge ABL Source Code ⁴	text/x-openedge		adSOURCECODE
OpenSCAD_Fmt	852	792	OpenSCAD Source Code ⁴		SCAD	adSOURCECODE
Ox_Fmt	853	793	Ox Source Code ⁴		OX	adSOURCECODE

Format Name	Number	Category	Description	MIME Type	Extension	File Class
Oxygene_Fmt	854	794	Oxygene Source Code ⁴		OXYGENE	adSOURCECODE
Oz_Fmt	855	795	Oz Source Code ⁴		OZ	adSOURCECODE
PAWN_Fmt	856	796	PAWN Source Code ⁴	text/x-pawn	PWN	adSOURCECODE
PLpgSQL_Fmt	857	797	PLpgSQL Source Code ⁴	text/x-plpgsql	PLSQL	adSOURCECODE
Pan_Fmt	858	798	Pan Source Code ⁴		PAN	adSOURCECODE
Parrot_Assembly_Fmt	859	799	Parrot Assembly Source Code ⁴		PASM	adSOURCECODE
PicoLisp_Fmt	860	800	PicoLisp Source Code ⁴			adSOURCECODE
Pike_Fmt	861	801	Pike Source Code ⁴	text/x-pike	PIKE	adSOURCECODE
Pony_Fmt	862	802	Pony Source Code ⁴		PONY	adSOURCECODE
Processing_Fmt	863	803	Processing Source Code ⁴		PDE	adSOURCECODE
PureBasic_Fmt	864	804	PureBasic Source Code ⁴		PB	adSOURCECODE
QMake_Fmt	865	805	QMake File ⁴			adSOURCECODE
RAML_Fmt	866	806	RAML Source Code ⁴		RAML	adSOURCECODE
RDoc_Fmt	867	807	RDoc Source Code ⁴		RDOC	adSOURCECODE
REXX_Fmt	868	808	REXX Source Code ⁴	text/x-rexx	REXX	adSOURCECODE
Racket_Fmt	869	809	Racket Source Code ⁴	text/x-racket		adSOURCECODE
Ragel_Fmt	870	810	Ragel Source Code ⁴			adSOURCECODE
Rascal_Fmt	871	811	Rascal Source Code ⁴		RSC	adSOURCECODE
Rebol_Fmt	872	812	Rebol Source Code ⁴	text/x-rebol	REB, REBOL	adSOURCECODE
Red_Fmt	873	813	Red Source Code ⁴	text/x-red	RED	adSOURCECODE
RenPy_Fmt	874	814	Ren'Py Source Code ⁴		RPY	adSOURCECODE
RenderScript_Fmt	875	815	RenderScript Source Code ⁴		RS	adSOURCECODE
Ring_Fmt	876	816	Ring Source Code ⁴		RING	adSOURCECODE
RobotFramework_Fmt	877	817	RobotFramework Source Code ⁴	text/x-robotframework	ROBOT	adSOURCECODE
SAS_Fmt	878	818	SAS Source Code ⁴		SAS	adSOURCECODE
SPARQL_Fmt	879	819	SPARQL format ⁴	application/sparql-query		adSOURCECODE
SQL_Fmt	880	820	SQL format ⁴	text/x-sql		adSOURCECODE
SQLPL_Fmt	881	821	SQLPL Source Code ⁴			adSOURCECODE

Format Name	Number	Category	Description	MIME Type	Extension	File Class
SaltStack_Fmt	882	822	SaltStack Source Code ⁴		SLS	adSOURCECODE
Scheme_Fmt	883	823	Scheme Source Code ⁴	text/x-scheme		adSOURCECODE
Scilab_Fmt	884	824	Scilab Source Code ⁴	text/scilab	SCI	adSOURCECODE
Squirrel_Fmt	885	825	Squirrel Source Code ⁴		NUT	adSOURCECODE
Stan_Fmt	886	826	Stan Source Code ⁴		STAN	adSOURCECODE
Stata_Fmt	887	827	Stata Source Code ⁴			adSOURCECODE
Stylus_Fmt	888	828	Stylus Source Code ⁴		STYL	adSOURCECODE
SuperCollider_Fmt	889	829	SuperCollider Source Code ⁴	text/supercollider	SC	adSOURCECODE
SystemVerilog_Fmt	890	830	SystemVerilog Source Code ⁴	text/x-systemverilog	SV	adSOURCECODE
TXL_Fmt	891	831	TXL Source Code ⁴		TXL	adSOURCECODE
Turing_Fmt	892	832	Turing Source Code ⁴		T	adSOURCECODE
Turtle_Fmt	893	833	Turtle Source Code ⁴	text/turtle	TTL	adSOURCECODE
UrWeb_Fmt	894	834	UrWeb Source Code ⁴		UR, URS	adSOURCECODE
Vim_script_Fmt	895	835	Vim script File ⁴	text/x-vim	VIM	adSOURCECODE
Visual_Basic_Fmt	896	836	Visual Basic Source Code ⁴	text/x-vbasic	VB	adSOURCECODE
WebAssembly_Fmt	897	837	WebAssembly Source Code ⁴		WAT	adSOURCECODE
WebIDL_Fmt	898	838	WebIDL Source Code ⁴		WEBIDL	adSOURCECODE
X10_Fmt	899	839	X10 Source Code ⁴	text/x-x10	X10	adSOURCECODE
XQuery_Fmt	900	840	XQuery Source Code ⁴	text/xquery	XQM	adSOURCECODE
Xojo_Fmt	901	841	Xojo Source Code ⁴			adSOURCECODE
Xtend_Fmt	902	842	Xtend Source Code ⁴	text/x-xtend	XTEND	adSOURCECODE
YANG_Fmt	903	843	YANG Source Code ⁴		YANG	adSOURCECODE
Zephir_Fmt	904	844	Zephir Source Code ⁴		ZEP	adSOURCECODE
eC_Fmt	905	845	eC Source Code ⁴	text/x-ecsrc	EC	adSOURCECODE
reStructuredText_Fmt	906	846	reStructuredText Source Code ⁴	text/x-rst		adSOURCECODE
xBase_Fmt	907	847	xBase Source Code ⁴			adSOURCECODE
Windows_Installer_Fmt	908	848	MSI Windows Installer format	application/x-ole-storage	MSI	adENCAPSULATION
Autodesk_3ds_Max_Fmt	909	849	Autodesk 3ds Max format		MAX	adCAD

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
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
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	Xfdf	adWORDPROCESSOR
AxCrypt_Fmt	933	873	AxCrypt encrypted document	application/x-axcrypt	AXX	adENCAPSULATION

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
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
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	image/nitf	NTF, NITF	adRASTERIMAGE

Format Name	Number	Category	Description	MIME Type	Extension	File Class
			Format NITF image			
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
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

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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_Image_Fmt	984	924	Microsoft System Deployment Image SDI format		SDI	adMISC
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	adMISC
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
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

Format Name	Number	Category	Description	MIME Type	Extension	File Class
Android_Binary_XML_Fmt	1002	942	Android Binary XML (compressed by aapt) format	application/xml	XML	adWORDPROCESSOR
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
RSS_Fmt	1006	946	RSS syndication XML format	application/rss+xml	RSS	adWORDPROCESSOR
SMIL_Fmt	1007	947	Synchronized Multimedia Integration Language (SMIL) XML format	application/smil+xml	SMIL	adWORDPROCESSOR
XSLT_Fmt	1008	948	Extensible Stylesheet Language Transformations (XSLT) format	application/xslt+xml	XSL, XSLT	adWORDPROCESSOR
XML_Shareable_Playlist_Fmt	1009	949	XML Shareable Playlist Format (XSPF)	application/xspf+xml	XSPF	adWORDPROCESSOR
FictionBook_Fmt	1010	950	FictionBook e-book XML format	application/x-fictionbook+xml	FB2	adWORDPROCESSOR
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
Really_Simple_Discovery_Fmt	1013	953	Really Simple Discovery (RSD) XML format	application/rsd+xml	RSD	adWORDPROCESSOR
SBML_Fmt	1014	954	Systems Biology Markup Language (SBML) XML format	application/sbml+xml	SBML	adWORDPROCESSOR
SRU_Fmt	1015	955	Search/Retrieve via URL (SRU) XML format	application/sru+xml	SRU	adWORDPROCESSOR
SSML_Fmt	1016	956	Speech Synthesis Markup Language (SSML) XML format	application/ssml+xml	SSML	adWORDPROCESSOR
PLS_Fmt	1017	957	Pronunciation Lexicon Specification (PLS) XML format	application/pls+xml	PLS	adWORDPROCESSOR
TEI_Fmt	1018	958	Text Encoding Initiative (TEI) XML format	application/tei+xml	TEI	adWORDPROCESSOR
METS_Fmt	1019	959	Metadata Encoding and Transmission Standard (METS) XML format	application/mets+xml	METS	adWORDPROCESSOR
MODS_Fmt	1020	960	Metadata Object Description Schema (MODS) XML format	application/mods+xml	MODS	adWORDPROCESSOR
Metalink_Fmt	1021	961	Metalink XML format	application/metalink4+xml	METALINK	adWORDPROCESSOR

Format Name	Number	Category	Description	MIME Type	Extension	File Class
Open_eBook_Fmt	1022	962	Open eBook (OEBPS) XML format	application/oebps-package+xml	OPF	adWORDPROCESSOR
SRGS_Fmt	1023	963	Speech Recognition Grammar Specification (SRGS) XML format	application/srgs+xml	SRGS	adWORDPROCESSOR
SPARQL_Results_Fmt	1024	964	SPARQL Query Results XML format	application/sparql-results+xml	SRX	adWORDPROCESSOR
Adobe_XML_Data_Package_Fmt	1025	965	Adobe XML Data Package format	application/vnd.adobe.xdp+xml	XDP	adWORDPROCESSOR
ESzigno_Fmt	1026	966	e-Szigno signed xml document	application/vnd.eszigno3+xml	ES3	adWORDPROCESSOR
Mozilla_XUL_Fmt	1027	967	Mozilla XML User Interface Language (XUL) XML format	application/vnd.mozilla.xul+xml	XUL	adWORDPROCESSOR
SyncML_Fmt	1028	968	Synchronization Markup Language (SyncML) XML format	application/vnd.syncml+xml	XML	adWORDPROCESSOR
VoiceXML_Fmt	1029	969	VoiceXML (VXML) XML format	application/voicexml+xml	VXML	adWORDPROCESSOR
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
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
YIN_Fmt	1038	978	YIN XML format	application/yin+xml	YIN	adWORDPROCESSOR
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
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

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
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
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
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
ODF_Drawing_Template_Fmt	1060	316	ODF Drawing/Graphics Template	application/vnd.oasis.opendocument.graphics-template	OTG	adVECTORGRAPHIC
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
ODF_Spreadsheet_Template_Fmt	1063	315	ODF Spreadsheet Template	application/vnd.oasis.opendocument.spreadsheet-template	OTS	adSPREADSHEET

Format Name	Number	Category	Description	MIME Type	Extension	File Class
ODF_Text_Template_Fmt	1064	314	ODF Text Template	application/vnd.oasis.opendocument.text-template	OTT	adWORDPROCESSOR
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
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		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
XAML_Browser_Application_Fmt	1083	1018	XAML Browser Application (XBAP) format	application/x-ms-xbap	XBAP	adWORDPROCESSOR
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
Stuftit_X_Fmt	1086	1021	Stuftit X (SITX) archive format	application/x-stuftitx	SITX	adENCAPSULATION
FIG_Fmt	1087	1022	Facility for Interactive Generation of figures (FIG) image format	application/x-fig	FIG	adVECTORGRAPHIC

Format Name	Number	Category	Description	MIME Type	Extension	File Class
XPIInstall_Fmt	1088	1023	XPIInstall Cross-Platform Installer Module (XPI) format	application/x-xpinstall	XPI	adENCAPSULATION
XDF_Fmt	1089	1024	Extensible Data Format (XDF) XML format		XDF	adWORDPROCESSOR
MXML_Fmt	1090	1025	MXML UI markup language XML format		MXML	adWORDPROCESSOR
MusicXML_Fmt	1091	1026	MusicXML format	application/vnd.recordare.musicxml	MXL	adENCAPSULATION
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 (Text Compression for Reader) eBook format		TCR	adWORDPROCESSOR
IHEX_Fmt	1108	1043	Intel Hex format		IHEX	adENCAPSULATION
QCOW_Fmt	1109	1044	QEMU Copy On Write		QCOW	adENCAPSULATION
VDI_Fmt	1110	1045	VirtualBox Disk Image		VDI	adENCAPSULATION

Format Name	Number	Category	Description	MIME Type	Extension	File Class
OneNote_Alternate_Fmt	1111	1046	OneNote Alternative Packaging Format			adWORDPROCESSOR
RMS_Protected_Fmt	1112	1047	Rights Management Services (RMS)-protected format		PFILE, PPDF, PJPNG, PTXT	adWORDPROCESSOR
Portfolio_PDF_Fmt	1113	1048	Portfolio PDF File	application/pdf	PDF	adWORDPROCESSOR
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	adDESKTOPPUBLISH
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
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
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 ZTool (ZTL) format		ZTL	adCAD
Windows_Installer_Patch_Fmt	1126	1061	Microsoft Windows Installer Patch Package (MSP) format		MSP	adENCAPSULATION
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

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
WordPerfect_5_Fmt	1144	80	WordPerfect (version 5)	application/x-corel-wordperfect	WOP, DOC	adWORDPROCESSOR
WordPerfect_6_Fmt	1145	178	WordPerfect (version 6 and higher)	application/x-corel-wordperfect	WPD	adWORDPROCESSOR
WordPerfect_Graphics_1_Fmt	1146	85	WordPerfect Graphics (version 1)	application/vnd.wordperfect	WPG, QPG	AutoDetNoFormat
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,	adGIS

Format Name	Number	Category	Description	MIME Type	Extension	File Class
					PGW, SDW, TFW, WLD	
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, SLDASM	adCAD
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
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

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
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
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

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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
SQLite_Write_Ahead_Log_Fmt	1198	1129	SQLite Write-Ahead Log file		WAL	adDATABASE
SQLite_WAL_Index_Fmt	1199	1130	SQLite WAL-index (shm) file		SHM	adDATABASE
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
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
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 ⁴		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		MAP, CSF	adGIS

Format Name	Number	Category	Description	MIME Type	Extension	File Class
			Format 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_Fmt	1233	1164	Byte-compiled Lisp (Emacs/XEmacs)	application/x-bytecode.elisp	ELC	adEXECUTABLE
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

Format Name	Number	Category	Description	MIME Type	Extension	File Class
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

¹MHT, 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.

²All CAT file extensions, for example CATDrawing, CATProduct, CATPart, and so on.

³This format is returned only if you enable source code identification.

⁴This format is returned only if you enable extended source code identification.

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](#) 127
- [Coded Character Sets](#) 135

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
Archive			
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

Format	Single-byte	Multibyte	Bidirectional
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
Binary			
Executable (EXE)	n/a	n/a	n/a
Link Library (DLL)	n/a	n/a	n/a
Computer-aided Design			
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
Database			
dBase Database	Y	N	N
Microsoft Access (MDB)	Y	Y	N
Microsoft Project (MPP)	Y	Y	N
Desktop Publishing			
Microsoft Publisher	N	Y	N

Multibyte and bidirectional support, continued

Format	Single-byte	Multibyte	Bidirectional
Display			
Adobe Portable Document Format (PDF)	Y	Y ¹	Y
Graphics			
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

¹Multibyte 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

Format	Single-byte	Multibyte	Bidirectional
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
Mail			
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

Format	Single-byte	Multibyte	Bidirectional
Transport Neutral Encapsulation Format	Y	Y	Y
Multimedia			
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
Presentations			
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

Format	Single-byte	Multibyte	Bidirectional
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
Spreadsheets			
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 ¹
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 ²
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

Format	Single-byte	Multibyte	Bidirectional
OpenOffice Calc (ODS)	Y	Y	N
StarOffice Calc (ODS)	Y	Y	N
Text and Markup			
ANSI (TXT)	Y	Y	Y ²
ASCII (TXT)	Y	Y	Y ²
HTML (HTM)	Y	Y	Y ^{2, 2}
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 ³
Unicode HTML	Y	Y	Y ^{2,3}
Unicode Text (TXT)	Y	Y	Y ²
XHTML	Y	Y	Y ³
XML	Y	Y	Y
Word Processing			
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

Format	Single-byte	Multibyte	Bidirectional
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 ³
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 ³
Microsoft Word Windows V97 through 2003 (DOC)	Y	Y	Y ³
Microsoft Word Windows XML 2007 and 2010 (DOCX)	Y	Y	Y ³
Microsoft Word Macintosh (DOC)	Y	N	Y ³
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

¹The text direction in the output file might not be correct.

²In 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 `kvtypes.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

Coded Character Set	Description	Can be set as target charset?
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

Coded Character Set	Description	Can be set as target charset?
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

Coded Character Set	Description	Can be set as target charset?
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

Coded Character Set	Description	Can be set as target charset?
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 ¹
KVCS_8859_13	ISO 8859-13 (Latin 7 Baltic)	Y 1
KVCS_57002	ISCII Devanagari (x-iscii-de)	Y 1
KVCS_57003	ISCII Bengali (x-iscii-be)	Y 1
KVCS_57004	ISCII Tamil (x-iscii-ta)	Y1
KVCS_57005	ISCII Telugu (x-iscii-te)	Y1
KVCS_57006	ISCII Assamese (x-iscii-as)	Y1
KVCS_57007	ISCII Oriya (x-iscii-or)	Y1
KVCS_57008	ISCII Kannada (x-iscii-ka)	Y1
KVCS_57009	ISCII Malayalam (x-iscii-ma)	Y1
KVCS_57010	ISCII Gujarathi (x-iscii-gu)	Y1
KVCS_57011	ISCII Panjabi (x-iscii-pa)	Y 1
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

¹The 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](#) 141
- [Extract Format Information](#) 141
- [Determine Format Support](#) 141
- [Translate Format Information](#) 143
- [Determine a Document Reader](#) 145
- [Category Values in formats_e.ini](#) 145

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 [Supported Formats, on page 43](#).

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 143](#).

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 143](#).
- The reader associated with each format. See [Determine a Document Reader, on page 145](#).

- 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
```

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.

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.

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 149](#) lists the document readers provided with KeyView.

Category Values in `formats_e.ini`

The [Detected 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

Attribute Number	Minor Format
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

Attribute Number	Minor Format
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](#) 149
- [Support Files](#) 150
- [Document Readers and Writers](#) 152

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 Determine Format Support, on page 141 .
htmllexport.	Required by the Java API.
KeyView.jar	Interface for Java support. NOTE: 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. NOTE: 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.*	Required by cebsr.
chartbls.ux	Character mapping tables.
chmdll.*	Required by chmsr.
codeidentifierplugin	Required for source code identification.
DFECore.*	Required by cebsr.
Filter.*	Required by cebsr.
headless_lib.pak	Required by PDF export on Windows.
icudtl.dat	Required by PDF export on Windows.

File	Description
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.
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.
libeay32.dll	(Windows platforms only) 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.
libwkoopclient.so	Required by PDF export on Linux.
natives_blob.bin	Required by PDF export on Windows.
oleaut32.*	Microsoft OLE Automation Controls.
olepro32.*	Microsoft OLE property support library.

File	Description
Osmesa.dll	Required by PDF export on Windows.
servant.exe	Executable required for out-of-process conversions.
snapshot_blob.bin	Required by PDF export on Windows.
unzipjpg.*	Required for JPEG decompression.
WK00P.cfg	Configuration information required by WK00P.exe (in PDF Export).
WK00P.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
csvsr.*	Comma-Separated Values reader
dbfsr.*	dBase Database reader
dbxsr.*	Microsoft Outlook Express DBX reader

File	Description
dcastr.*	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
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
iwwp13sr.*	iWork 13 Pages reader
iwwpsr.*	Apple iWork Pages reader
jp2000sr.*	JPEG 2000 metadata reader

File	Description
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
kpDXFrdr.*	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
kpicordr.*	Windows Icon reader
kpiwpgdrdr.*	Apple iWork Keynote reader
kpjbig2rdr.*	JBIG2 reader
kpjp2000rdr.*	JPEG 2000 reader
kpjpgdrdr.*	JPEG file interchange format reader
kpjpgwrt.*	JPEG file interchange format writer
kpnbmpdrdr.*	IBM Notes Bitmap reader (for embedded images in DXL files)
kpmacrdr.*	MacPaint reader
kpsordr.*	Microsoft Office Drawing Objects (office 97, 2000, and XP) reader

File	Description
kpodfrdr.*	Oasis Open Document Format presentation (ODP) reader
kp0DArdr.*	AutoCAD reader (Windows only)
kp0NErdr.*	Microsoft OneNote reader
kpoxdrdr.*	Open Office XML Diagram Graphics reader
kppdfdrdr.*	Adobe Portable Document File (PDF) graphic-based reader
kppdf2rdr.*	High-fidelity Adobe Portable Document File (PDF) graphic-based 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
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
kpsunrdr.*	Sun Raster reader
kptgardr.*	Truevision Targa reader
kptifdrdr.*	Tagged Image File Format (TIFF) reader
kpvsd2rdr.*	Microsoft Visio reader

File	Description
kpvsdxrdr.*	Microsoft Visio 2013 reader
kpwg2rdr.*	WordPerfect Graphics 2 reader
kpwmfrdr.*	Windows Metafile reader
kpwmfwrt.*	Windows Metafile writer
kpwpgrdr.*	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) ¹ and Microsoft Outlook Express (EML) reader
mdbsr.*	Microsoft Access reader.
mhtsr.*	MIME HTML reader
mifsr.*	Adobe Maker Interchange Format reader
misr.*	Microsoft Word 2 reader
mp3sr.*	MP3 reader for metadata extraction

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

File	Description
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 ¹
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
onmsr.*	Legato EMailXtender Native Message reader
oo3sr.*	Omni Outliner reader
pdf2sr.*	Alternative Adobe Portable Document Format file (PDF) reader
pdfsr.*	Adobe Portable Document File (PDF) reader
pffsr.*	Microsoft Outlook Offline Storage File reader
pngsr.*	Portable Network Graphics (PNG) reader
pstsr.dll	Microsoft Outlook Personal Folders file MAPI-based reader (supported on Windows platform only) ²

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

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

File	Description
pstnsr.*	Microsoft Outlook Personal Folders file native reader ¹
pstxsr.*	Microsoft Outlook Personal Folders file native reader ²
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
unihtmsr.*	Unicode HTML reader
unisr.*	Unicode reader
unzip.*	Zip file reader
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

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

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

File	Description
xlsxsr.*	Microsoft Excel 2007 XML reader
xmlsr.*	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](#) 160
- [Export Password Protected Files](#) 161

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) ¹	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

¹The 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.

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