

DocsConverter API Guide



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Sending Requests

1.1. Introduction

DocsConverter provides URL that handles conversion requests. You can convert files into other formats by accessing this page's URL and combining various parameters.

Commonly used URL of the page is as follows:

URL: `http://[Conversion Server Domain]:[PORT]/hermes/convert.hs`

1.2. Examples of API Use

You can combine the following URL with some parameters to receive conversion requests and output responses.

```
http://conversionServer:8080/hermes/convert.hs
?inputfile=c:\testfiles\sample.hwp
&filter=hwp-html
&ignorecache=true
```

```
http://10.1.0.50:8080/hermes/convert.hs
?inputfile=http://website_url/sample.ppt
&filter=ppt-html4m
&ignorecache=true
&responsetype=unidoc
&firstpage=1
&lastpage=3
```

API Reference

2.1. Introduction

Some of parameters are mandatory, some have default values and other are optional.

2.2. API Request Parameters

Parameters	Description	Option
inputfile	Type the path (URL) for the converted files. You can use URL or URI which is accessible from the DocsConverter server. When using URL, it should be encoded in UTF8. ex) inputfile=http://www.document.com:8002/ms/word.docx	required
filter	Give the name of the conversion filter. For backward compatibility you can use the file format with hyphen (-) as a name or combine two parameters: inputtype and outputtype. ex) filter=doc-html or inputtype=doc&outputtype=html	required
async	Set up the asynchronous action. The asynchronous action enables sending the success code to the client regardless of conversion progress after adding a document to be converted to the target file list. If you set async=true, the server will reply promptly before completing the file conversion. You will be able to access the converted files by sending the same request with an option 'async=false' (default). If you set async=true, the server will reply promptly before completing the file conversion. Set the ignorecache parameter to 'false' because if the ignorecache parameter is set to 'true,' the conversion result is removed. If the cache action is needed, use the async=true&ignorecache=true value first time only to request, and after that always request to convert using the async=false&ignorecache=false value. Options: true or false (default)	optional (false)
ignorecache	To ignore the cache and force the file conversion again, set this value to 'true'. Options: true or false (default)	optional (false)
viewtype	Set the view type for the result of conversion. <ul style="list-style-type: none">• N/A (default) : it does not provide any view type if no parameter is set.• HView: it does provide webview if there is output result for web. ex) viewtype=hview	optional
responsetype	Set the response type to receive the converted result. <ul style="list-style-type: none">• xml (default) : conversion file in the XML type	optional (xml)

Parameters	Description	Option
	<ul style="list-style-type: none"> • json: conversion file in the JSON type • unidoc: conversion file in the UNIDOC type • zip: compressed files in the ZIP type 	
checksum	<p>To ensure that your request is unique, set this to any value you want. This option may be used when you need to differentiate between requests with the exact same parameters. If you don't use this option, the server considers the requests the same and will return the cached result. By using this option, you can ensure an unique result.</p> <p>ex) checksum=fromServer001_0921311 (an arbitrary value)</p>	optional
imagetype	<p>Set the conversion result in an image format. Available options vary depending on filters. Usually PNG and JPG are available for all image-output filters. You can find the available formats for each filter in filter specification guide.</p> <p>Option: png (default), jpg, gif, tif, bmp, svg, psd, pdf</p>	optional (png)
resolution	<p>Set the DPI of the output image. When this value is set, width or height values are ignored. Not all the image type filters support this option. Please check what are available in filter specification.</p> <p>ex) resolution=96 (the default value varies depending on the filter type)</p>	optional
firstpage	<p>Set the first page of the conversion document. If the firstpage parameter is not set, 1 is used as a default value to indicate the first page and this parameter is supported by some filters.</p> <p>ex) firstpage=3</p>	optional
lastpage	<p>Set the last page of the conversion document. If the lastpage parameter is not set, the last page is used as a default value to indicate the last page and this parameter is supported by some filters.</p> <p>ex) lastpage=5</p>	optional
filename	<p>Set this parameter to manage origin file name on log table. Note that the file name should be encoded using URL encoding.</p> <p>ex) filename=filename.doc</p>	optional
filetype	<p>Set this parameter to manage origin file extension on log table by specifying the file type.</p> <p>ex) filetype=doc</p>	optional
extras	<p>Set this parameter to manage extra information such as watermark. Parameter seperator is a comma (,).</p> <p>ex) extras=watermarkText=WATERMARK,watermarkRotation=45,watermark Position=center</p>	optional

Response

3.1. Introduction

DocsConverter converts input files and saves the results in the repository. Then the server replies by sending one of the following response types: XML, JSON, UNIDOC or ZIP.

3.2. XML Type

XML response type is sent by default. For example:

- with no error

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <status>0</status>
  <resources>
    <resource>da695dd0225c-00001.png</resource>
    <resource>da695dd0225c-00002.png</resource>
    <resource>da695dd0225c-00003.png</resource>
  </resources>
</response>
```

- with error

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <status>-1</status>
  <error>
    <code>Error Code</code>
    <description><![CDATA Error Description]></description>
  </error>
</response>
```

- Element

Element	Description
status	This is the result status code. For the description of each code, check the Error Code section.
conversionTime	This is the result status code. The elapsed time between the request and the response.
resources > resource	The resource ID is required to access the converted files A "resources" element can have multiple "resource" elements.
resources > error > code	Error code varies depending on error type. Please check the Error Code section for details.

Element	Description
resources > error > description	This element contains error messages from the conversion module.

3.3. JSON Type

The JSON type response is similar to the XML type.

- with no error

```
{
  "response":
  {
    "status":0,
    "conversionTime":9031,
    "resources":
    [
      "f7/aa/32bc7ff207b88513d8483a067adb316f/document_0001.png",
      "f7/aa/32bc7ff207b88513d8483a067adb316f/document_0002.png",
      "f7/aa/32bc7ff207b88513d8483a067adb316f/document_003.png"
    ]
  }
}
```

- with error

```
{
  "response":
  {
    "status":-1,
    "conversionTime":46625,
    "error":
    {
      "code":3090000,
      "description":"Native program error occurred"
    }
  }
}
```

- Element

Element	Description
status	This is the result status code. For the description of each code, check the Error Code section.
conversionTime	This is the result status code. The elapsed time between the request and the response.
resources > resource	The resource ID is required to access the converted files. A "resources" element can have multiple "resource" elements.

Element	Description
resources > error > code	Error code varies depending on error type. Please check the Error Code section for details.
resources > error > description	This element contains error messages from the conversion module.

3.4. UNIDOC type

This response type is for "DocsConverter Viewer". Unlike the normal JSON response type, UNIDOC contains URL information needed to access the output results in "base-resource-path". All output files are listed in this response by their name. You can set accessible paths and port to configure "base-resource-path" in the P-Server configurations page.

- with no error

```
{
  "build-version": "20110916",
  "status": "0",
  "method": "POST",
  "filename": "sample.pdf",
  "filter": "pdf-image",
  "sphere-uri": "http://{HOST IP or domain}:{port number}//hermes/convert.hs
?inputfile=http://localhost:8080/hermes/sample/sample.pdf
&filter=pdf-image
&ignorecache=true
&responsetype=unidoc
&imagetype=png",
  "original-format": "pdf",
  "unipaper-format": "webview" | "photoview",
  "async-division": "1" (async) | "0",
  "security": "encrypted key",
  "base-resource-path": "http://{HOST IP or domain}:{port
number}//hermes/resource/store/7a/3a/35679ecdc24dfa8d4d3a81a2fb615736/",
  "resources": [ "document-0001.png", "document-0002.png", "document-0003.png", "document-0004.png" ]
}
```

- with error

```
{
  "build-version": "20110929",
  "status": "-1",
  "code": "3090000",
  "description": "Native program error occurred"
}
```

3.5. ZIP type

The ZIP type response is a compressed binary type containing all the converted output files.

- with no error (You will be able to download a file, sample01.zip, by sending a request like the following.)

```
http://conversionServer.com:8080/hermes/convert.hs
?inputfile=http://samples:8001/sample01.doc
&filter=doc-html
&responsetype=zip
```

- with error (You will receive a regular http error as shown below.)

```
HTTP Status 500 - 1010100:Failed to download a remote file: http://samples:8080/sample01.doc
```

Error Code

4.1. Introduction

DocsConverter attempts to return appropriate status codes for every request.

4.2. Error Code Table

Please refer to the following table for the error message as a response from server.

1000000	REQUEST_ERROR
1010000	REQUEST_IO_ERROR
1010100	REQUEST_IO_READ_ERROR
1010101	REQUEST_IO_READ_FILE_NOT_FOUND
1010200	REQUEST_IO_WRITE_ERROR
1019900	REQUEST_IO_UNDEFINED_ERROR
1020000	REQUEST_PARAMETER_ERROR
1020100	REQUEST_PARAMETER_MISSING_ERROR
1020200	REQUEST_PARAMETER_INCORRECT_ERROR
1029900	REQUEST_PARAMETER_UNDEFINED_ERROR
1030000	REQUEST_SOURCE_ERROR
1039900	REQUEST_SOURCE_UNDEFINED_ERROR
1040000	REQUEST_ADAPTER_ERROR
1049900	REQUEST_ADAPTER_UNDEFINED_ERROR
1050000	REQUEST_FILTER_ERROR
1060000	REQUEST_CKEY_ERROR
1060099	REQUEST_CKEY_NOT_FOUNT_ERROR
1990000	REQUEST_UNDEFINED_ERROR
2000000	CONVERSION_ERROR
2010000	CONVERSION_IO_ERROR
2010001	CONVERSION_IO_FILE_NOT_FOUND
2010100	CONVERSION_IO_READ_ERROR
2010200	CONVERSION_IO_WRITE_ERROR
2010300	CONVERSION_IO_DECRYPTION_ERROR
2019900	CONVERSION_IO_UNDEFINED_ERROR
2020000	CONVERSION_TIMEOUT_ERROR
2029900	CONVERSION_TIMEOUT_UNDEFINED_ERROR
2030000	CONVERSION_DOCUMENT_ERROR
2030100	CONVERSION_DOCUMENT_FORMAT_ERROR
2030200	CONVERSION_DOCUMENT_CORRUPTED_ERROR

2030300	CONVERSION_DOCUMENT_VERSION_ERROR
2030400	CONVERSION_DOCUMENT_ENCRYPTED_ERROR
2030401	CONVERSION_DOCUMENT_ENCRYPTED_REQUIRE_PASSWORD_ERROR
2030402	CONVERSION_DOCUMENT_ENCRYPTED_INCORRECT_PASSWORD_ERROR
2030403	CONVERSION_DOCUMENT_ENCRYPTED_PDF_DISALLOWS_COPYING_ERROR
2030500	CONVERSION_DOCUMENT_SIZE_ZERO_ERROR
2030600	CONVERSION_DOCUMENT_SIZE_EXCEED_LIMIT_ERROR
2030700	CONVERSION_DOCUMENT_NO_PAGES_ERROR
2030800	CONVERSION_DOCUMENT_TOO_MANY_PAGES_ERROR
2039900	CONVERSION_DOCUMENT_UNDEFINED_ERROR
2040000	CONVERSION_OUT_OF_MEMORY_ERROR
2049900	CONVERSION_OUT_OF_MEMORY_UNDEFINED_ERROR
2050000	CONVERSION_UPLOAD_ERROR
2050200	CONVERSION_UPLOAD_FILE_SIZE_ERROR
2059900	CONVERSION_UPLOAD_UNDEFINED_ERROR
2060000	CONVERSION_LIMIT_STANDBY_ERROR
2060100	CONVERSION_LIMIT_FREE_MEMORY_ERROR
2990000	CONVERSION_UNDEFINED_ERROR
3000000	SYSTEM_ERROR
3010000	SYSTEM_IO_ERROR
3010001	SYSTEM_IO_READ_FILE_NOT_FOUND
3010100	SYSTEM_IO_READ_ERROR
3010200	SYSTEM_IO_WRITE_ERROR
3019900	SYSTEM_IO_UNDEFINED_ERROR
3020000	SYSTEM_OUT_OF_MEMORY_ERROR
3029900	SYSTEM_OUT_OF_MEMORY_UNDEFINED_ERROR
3030000	SYSTEM_TIMEOUT_ERROR
3039900	SYSTEM_TIMEOUT_UNDEFINED_ERROR
3040000	SYSTEM_CONFIG_ERROR
3049900	SYSTEM_CONFIG_UNDEFINED_ERROR
3050000	SYSTEM_LICENSE_ERROR
3050100	SYSTEM_LICENSE_EXPIRED_ERROR
3050200	SYSTEM_LICENSE_EXCEED_TRANSACTION_LIMIT_ERROR
3050201	SYSTEM_LICENSE_EXCEED_DAILY_TRANSACTION_LIMIT_ERROR
3050202	SYSTEM_LICENSE_EXCEED_MONTHLY_TRANSACTION_LIMIT_ERROR
3050203	SYSTEM_LICENSE_EXCEED_ANNUAL_TRANSACTION_LIMIT_ERROR
3050300	SYSTEM_LICENSE_NOT_PERMITTED_FEATURE_ERROR
3059900	SYSTEM_LICENSE_UNDEFINED_ERROR

3060000	SYSTEM_ADAPTER_ERROR
3069900	SYSTEM_ADAPTER_UNDEFINED_ERROR
3070000	SYSTEM_PROCESSOR_ERROR
3070003	SYSTEM_PROCESSOR_CONNECTION_BUSY_ERROR
3070004	SYSTEM_PROCESSOR_UNSUPPORTED_FEATURE_ERROR
3070100	SYSTEM_PROCESSOR_CONNECTION_FAIL_ERROR
3070200	SYSTEM_PROCESSOR_CONNECTION_TIMEOUT_ERROR
3079900	SYSTEM_PROCESSOR_UNDEFINED_ERROR
3080000	SYSTEM_CACHE_ERROR
3080100	SYSTEM_CACHE_READ_ERROR
3080200	SYSTEM_CACHE_WRITE_ERROR
3089900	SYSTEM_CACHE_UNDEFINED_ERROR
3090000	SYSTEM_NATIVE_ERROR
3090100	SYSTEM_NATIVE_COMMAND_NOT_FOUND_ERROR
3099900	SYSTEM_NATIVE_UNDEFINED_ERROR
3990000	SYSTEM_UNDEFINED_ERROR
4000000	LEGACY_ERROR
4010000	LEGACY_URL_ERROR
4019900	LEGACY_URL_UNDEFINED_ERROR
4020000	LEGACY_RESPONSE_ERROR
4029900	LEGACY_RESPONSE_UNDEFINED_ERROR
4030000	LEGACY_IO_ERROR
4990000	LEGACY_UNDEFINED_ERROR