API Guide

sign pro PDF API Guide

Contents

Downloads 1
API Modes 3
Starting sign pro PDF API 3
Read File 3
Submit 4
Browse 4
Command Line 4
Demonstration 5
Text Tag Mode 5
API Mode 8
SharePoint 10
OneDrive 11
Troubleshooting 12
Error starting API 12
Invalid JSON 12
Error message displayed by sign pro PDF 12

Downloads

The zip file API-Demo-V4.zip contains samples as follows:

API Guide

Unzipped file: C:\API-Demo	Description
bin\	Contains test app
scripts\API Command Demo	Contains API command tests in .txt files with supporting PDF files
scripts\Text Tag Demo	Contains text tag command tests in .txt files with supporting PDF files

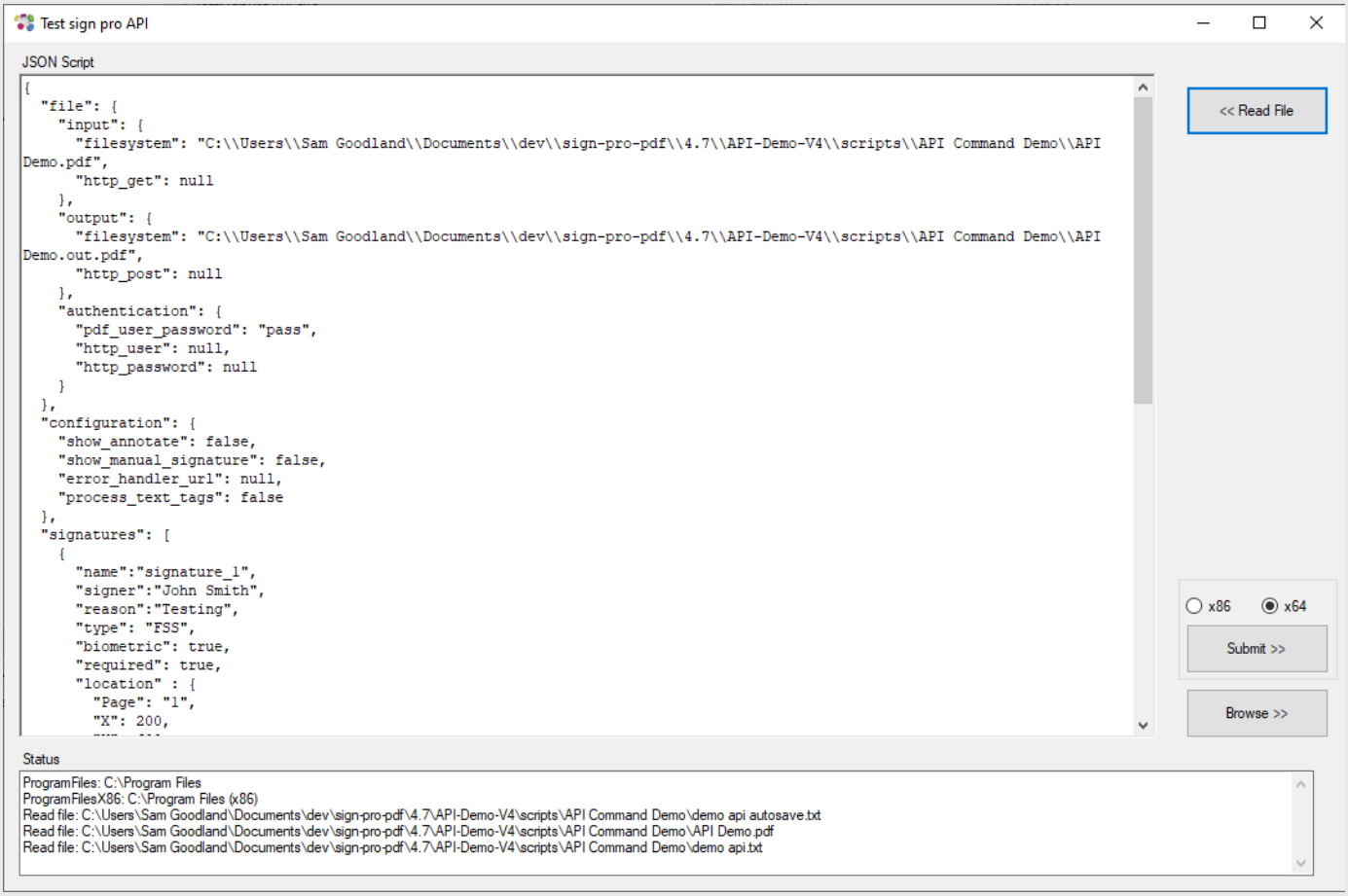
API Modes

There are two modes of API operation:

- Text Tag Mode: in this mode sign pro PDF instructions are inserted in text tags within the PDF
- API Mode: in this mode all of the sign pro PDF instructions are included in the command-line

Starting sign pro PDF API

To simplify testing the demo application **TestSignProAPI.exe** is included.



Read File

This will read a JSON script file into a text box.
The JSON script can be edited before starting the sign pro app.
The read operation replaces the original text as follows:

- ($currentdir) is converted to the path of the loaded file
- escape code backslash '\' converted to '\\'

Browse to the scripts folder and select one of the JSON script .txt files provided in either:
- scripts\\API Command Demo
- scripts\TextTag Demo

The script files are configured to demonstrate the API with the PDF files included. Once the file has been read into the edit window the contents can be modified to trial alternative API functions.

Preprocessor: Note that the original file contents text string '($currentdir)' is converted to the current folder name to simplify script file management. This means that the script folders can be relocated and continue to function correctly.

Submit

Select Submit to validate and encode the JSON structure entered in the edit window. There is an option to submit as x86 or x64. If successful the sign pro PDF application is started with the command-line parameters:

```
C:\Program Files (x86)\Wacom sign pro PDF\Sign Pro PDF.exe -api signpro:<base64-json>
```

To support signpro v3, Ctrl-Submit starts the signpro application as:

```
C:\Program Files (x86)\Wacom sign pro PDF\ WacomGSS.signpro.exe -api signpro:<base64-json>
```

The operation can be started manually by entering the command in a DOS command prompt. Either copy the encoded string from the status window or encode the JSON structure using an online utility such as https://www.base64encode.org/

Browse

Alternatively, users have the option to select the EXE manually if it's not installed in the standard location under Program Files by using "Browse".

Command Line

Once the JSON structure has been saved it can be passed in the command line for direct processing, e.g.:

```
C:\Program Files (x86)\Wacom sign pro PDF\Sign Pro PDF.exe -apiFile C:\dev\json-file.txt
```

For successful operation file parameters will be saved with the full pathname, e.g.:

```
"input": {
      "filesystem": "C:\\docs\\mydoc.pdf",
      "http_get": null
    },
```

In addition, the sign pro PDF installer creates the file association for the extension `.signpro` A JSON file saved with the .signpro extension can then be double-clicked to launch the application with direct processing.

Demonstration

Text Tag Mode

The file "**API Demo Text Tags.pdf**" demonstrates the use of text tags.
The Tags in the file are as follows:
Create signature area on Page 1 & 3:
{{[[Type=Signature,Page=1:3,Height=44,Width=150,X=200,Y=600,Name=TestSignature,Signe r=John Smith,Reason=Testing]]}}
Create Initials area on Page2:
{{[[Type=Initial,Page=2,Name=InitialsTest,Signer=John Smith,Reason=Test initials,X=72,Y=72]]}}

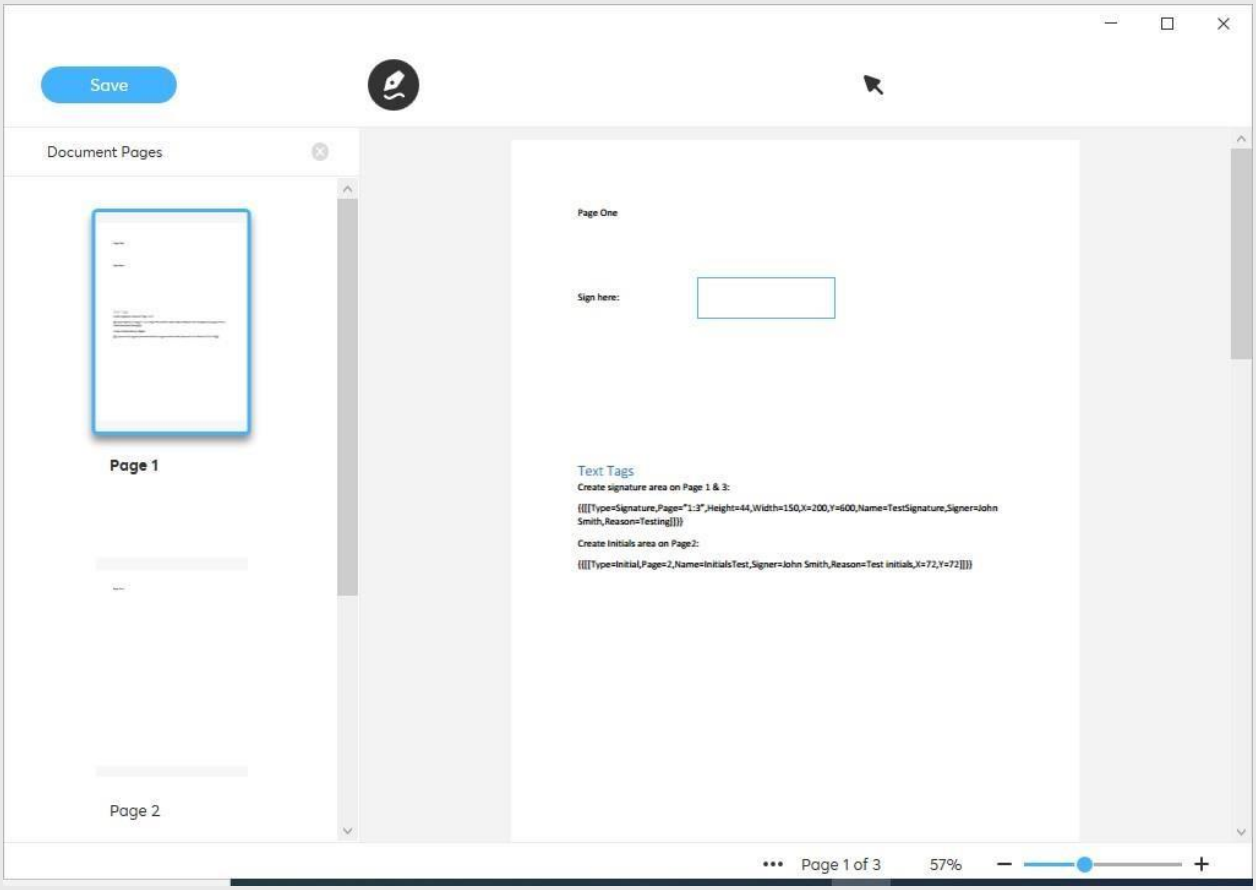
To start the demonstration select the 'demo text tags.txt' script then press Submit:

```
{
  "file": {
    "input": {
      "filesystem": "C:\\API-Demo\\scripts\\TextTag Demo\\API Demo - Text  Tags.pdf",
      "http_get": null
    },
    "output": {
      "filesystem": "C:\\API-Demo\\scripts\\TextTag Demo\\API-Demo - Text
Tags.out.pdf",
      "http_post": null
},
    "authentication": {
      "pdf_user_password": null,
      "http_user": null,
```

```
    "http_password": null
  }
},
"configuration": {
  "show_annotate": false,
  "show_manual_signature": false,
  "error_handler_url": null,
  "process_text_tags": true
},
"initials": null  }
```

The command starts sign pro PDF and creates the signing areas defined:

API Guide



In this demo sign pro PDF has been started without manual signature placement or annotations enabled. By modifying the JSON structure these can be enabled in subsequent tests, e.g.:

```
"configuration": {
   "show_annotate": true,
   "show_manual_signature": true,
   "error_handler_url": null,
   "process_text_tags": true    },
```

Similarly the JSON structure can be modified to test other functions, such as document password protection.

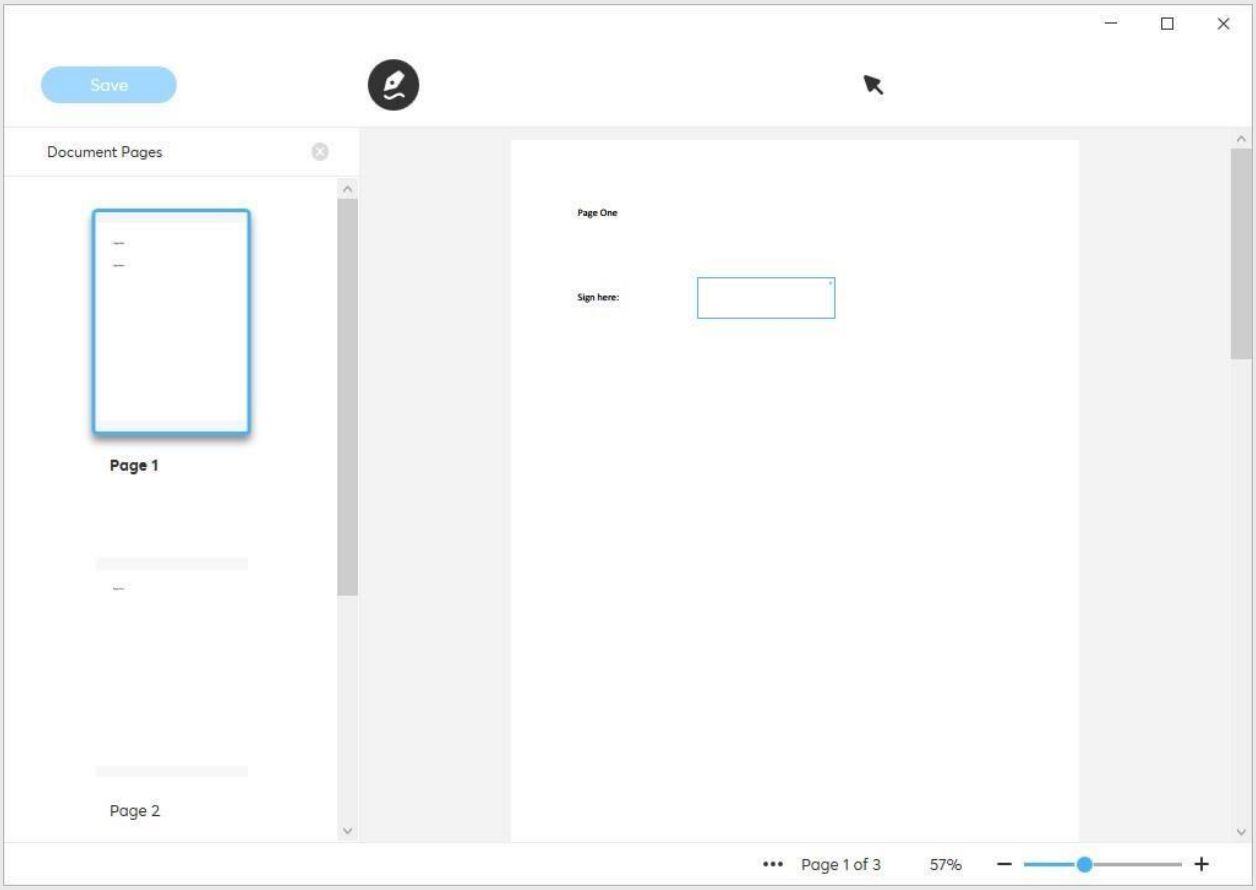
API Mode

The file “**API Demo.pdf**” can be used to demonstrate API mode where all commands are passed in the JSON structure.
Select the script file 'demo api.txt':

```
{
  "file": {
    "input": {
      "filesystem": "C:\\API-Demo\\scripts\\API Command Demo\\API Demo.pdf",
      "http_get": null
    },
    "output": {
      "filesystem": "C:\\API-Demo\\scripts\\API Command Demo\\API
Demo.out.pdf",
      "http_post": null
},
    "authentication": {
      "pdf_user_password": "pass",
      "http_user": null,
      "http_password": null
    }
  },
  "configuration": {
    "show_annotate": false,
    "show_manual_signature": false,
    "error_handler_url": null,
    "process_text_tags": false
  },
  "signatures": [
    {
      "name":"signature_1",
      "signer":"John Smith",
      "reason":"Testing",
      "type": "FSS",
      "biometric": true,
      "required": true,
      "location" : {
        "Page": "1",
        "X": 200,
        "Y": 600,
        "W": 150,
        "H": 44
```

```
      }
    },
    {
      "name":"signature_2",
      "signer":"Jane Smith",
      "reason":"Testing",
      "type": "FSS",
      "biometric": true,
      "required": true,
      "location" : {
        "Page": "3",
        "X": 200,
        "Y": 600,
        "W": 150,
        "H": 44
        }
    }],
  "initials": [
    {
      "name":"intials_1",
      "signer":"John Smith",
      "reason":"Test initials",
      "type": "FSS",
      "biometric": true,
      "required": true,
      "location" : {
        "Page": "2",
        "X": 77,
        "Y": 77
        }
    }]  }
```

The command starts sign pro PDF and creates the signing areas similar to the Text Tags demo. In this case signatures are marked as 'Required' and must be completed before the document can be saved:



SharePoint

When using SharePoint, functions such as registering an application or getting an access token need to be done via API calls.
For SharePoint, input parameters look something like:

```
"file": {
  "input": {
    "ms_graph": {
      "document_id": "012...",
      "user_email": "abc..."
    },
  },
  "output": {
    "ms_graph": {
      "document_id": "012...",
```

```
      "user_email": "abc..."
    },
  },
  "authentication": {
    "ms_graph_access_token": "xyz...",
  }, },
```

OneDrive

Like SharePoint, OneDrive's functions must once again be accessed by calling the app. Unlike SharePoint, a drive id is utilised instead of a user's email.

```
"file": {
  "input": {
    "ms_graph": {
      "document_id": "012...",
      "drive_id": "abc..."
    },
  },
  "output": {
    "ms_graph": {
      "document_id": "012...",
      "drive_id": "abc..."
    },
  },
  "authentication": {
    "ms_graph_access_token": "xyz...",
  },
},
```

In both cases, the app must be properly programmed to know or obtain the document_id, ms_graph_access_token and either drive_id or user_email.

Tablet Display Mode*

To set sign pro PDF to open on a display tablet, the following setting in user.config must be edited manually:

<setting name="TabletScreenSelection" serializeAs="String">
  <value></value>
</setting>

NB: there is no UI for changing it.

For use in the API, the setting is "tablet_selection" in the configuration section, eg:

```
"configuration": {
    "tablet_display": true,
    "tablet_selection": "bottom"
},
```

In each case, supported values are "left", "right", "top", "bottom", "first" and "last". The API value overrides (but does not overwrite) the config setting.

***NB: These settings should only be used for Citrix or RDP.**

Troubleshooting

Error starting API

To use the API functionality the sign pro PDF license must be set to Evaluation or Enterprise to include "SIGNPRO_API_ACCESS". If this is not enabled an error message will be displayed:

'API access prohibited'.

Invalid JSON

Before attempting to start sign pro PDF the test validates the JSON structure. An error message will be displayed in the Status window, for example a missing a comma:

```
Validating JSON...
After parsing a value an unexpected character was encountered: ".
Path 'file', line 17, position 2. Invalid Json
```

The structure must be corrected before attempting to submit.

Error message displayed by sign pro PDF

If the API commands cannot be processed an error message will be displayed. Check the content of the JSON structure and/or the text tags, particularly file paths.
The JSON structure can be validated online, for example here: https://jsonformatter.curiousconcept.com/