

# Foxit PDF SDK for Node.js 11.1 Upgrade Warnings

This document contains a list of items that developers looking to upgrade to Foxit PDF SDK for Node.js 11.1 from previous version should pay attention to. Changes to code may be required in order for your projects to compile using the new version.

## Upgrading to version 11.1 from version 11.0

If you are upgrading from version 11.0 to version 11.1, please take note of the changes that occurred between version 11.0 and version 11.1.

- In FSDK.**ActionCallback** class, add some new callback functions as below:

```
NotifyBeginDoJob(document, event_type)
NotifyAfterDataChange(document, modify_item_info)
NotifyEndDoJob(document, event_type)
InitModifyItem(document, item_type, page_index, dict_name)
ResetModifyItem(document)
GetVisiblePageCount(document)
GetVisiblePage (document, index)
```

- In FSDK.**DocProviderCallback** class, add a new callback function as below:

```
NotifyWidgetChangeInfo(doc, change_info)
```

- In FSDK.**OCRCallback**, add a new callback function as below:

```
IsImageIgnored (image_object)
```

- Some APIs have been changed in version 11.1. The following table lists the APIs mapping between version 11.0 and 11.1.

Class	SDK 11.0	SDK 11.1
FSDK. <b>ActionCallback</b>	GetPageWindowRect()	GetPageWindowRect( <b>document</b> , <b>page_index</b> )
FSDK. <b>IconProviderCallback</b>	GetIcon(annot_type, icon_name, color)	GetIcon(annot_type, icon_name, color, <b>annot_dict</b> )
FSDK. <b>PDF2WordSettingData</b>	constructor(enable_retain_page_layout, enable_generate_headers_and_footers, enable_generate_footnotes_and_endnotes, enable_generate_page_rendered_break)	constructor(enable_retain_page_layout, enable_generate_headers_and_footers, enable_generate_footnotes_and_endnotes, enable_generate_page_rendered_break, <b>max_blank_paragraphs_per_page_bottom</b> )

Class	SDK 11.0	SDK 11.1
	Set(enable_retain_page_layout, enable_generate_headers_and_footers, enable_generate_footnotes_and_endnotes, enable_generate_page_rendered_break)	Set(enable_retain_page_layout, enable_generate_headers_and_footers, enable_generate_footnotes_and_endnotes, enable_generate_page_rendered_break, <b>max_blank_paragraphs_per_page_bottom</b> )
FSDK.PDF2ExcelSettingData	constructor(decimal_symbol, thousands_separator, workbook_settings)	constructor(decimal_symbol, thousands_separator, workbook_settings, <b>enable_aggressive_table_repair, include_watermarks</b> )
	Set(decimal_symbol, thousands_separator, workbook_settings)	Set(decimal_symbol, thousands_separator, workbook_settings, <b>enable_aggressive_table_repair, include_watermarks</b> )
FSDK.PDF2PowerPointSettingData	constructor(enable_aggressively_split_sections)	constructor(enable_aggressively_split_sections, <b>enable_adapt_to_largest_page</b> )
	Set(enable_aggressively_split_sections)	Set(enable_aggressively_split_sections, <b>enable_adapt_to_largest_page</b> )
FSDK.PDF2OfficeSettingData	constructor(metrics_data_folder_path, enable_ml_recognition, page_range, include_pdf_comments, word_setting_data, power_point_setting_data, excel_setting_data, enable_trailing_space, include_images, timeout)	constructor(metrics_data_folder_path, enable_ml_recognition, page_range, include_pdf_comments, word_setting_data, power_point_setting_data, excel_setting_data, enable_trailing_space, include_images, timeout, <b>enable_matching_system_fonts</b> )
	Set(metrics_data_folder_path, enable_ml_recognition, page_range, include_pdf_comments, word_setting_data, power_point_setting_data, excel_setting_data, enable_trailing_space, include_images, timeout)	Set(metrics_data_folder_path, enable_ml_recognition, page_range, include_pdf_comments, word_setting_data, power_point_setting_data, excel_setting_data, enable_trailing_space, include_images, timeout, <b>enable_matching_system_fonts</b> )
FSDK.Convert	static FromWord(src_word_file_path, src_file_password, saved_pdf_path, setting_data)	static FromWord(src_word_file_path, src_file_password, saved_pdf_path, setting_data, <b>engine</b> )
	static FromExcel(src_excel_file_path, src_file_password, saved_pdf_path, setting_data)	static FromExcel(src_excel_file_path, src_file_password, saved_pdf_path, setting_data, <b>engine</b> )
	static FromPowerPoint(src_ppt_file_path, src_file_password, saved_pdf_path, setting_data)	static FromPowerPoint(src_ppt_file_path, src_file_password, saved_pdf_path, setting_data, <b>engine</b> )
FSDK.OCRConfig	constructor(is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode, is_sequentially_process)	constructor(is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode, is_sequentially_process, <b>is_auto_overwrite_resolution, resolution_to_overwrite, confidence</b> )
	Set(is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode, is_sequentially_process)	Set(is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode, is_sequentially_process,

Class	SDK 11.0	SDK 11.1
		<b>is_auto_overwrite_resolution, resolution_to_overwrite, confidence)</b>
FSDK.OCR	OCRPDFPage(pdf_page, is_editable)	OCRPDFPage(pdf_page, is_editable, <b>callback</b> )
	OCRPDFPage(pdf_page, is_editable, config)	OCRPDFPage(pdf_page, is_editable, config, <b>callback</b> )
	OCRPDFDocument(pdf_doc, is_editable)	OCRPDFDocument(pdf_doc, is_editable, <b>callback</b> )
	OCRPDFDocument(pdf_doc, is_editable, config)	OCRPDFDocument(pdf_doc, is_editable, config, <b>callback</b> )
	OCRPDFDocuments(settingdata_array)	OCRPDFDocuments(settingdata_array, <b>callback</b> )
	OCRConvertTo(format, src_pdf_path, password, saved_file_path, page_range, is_retain_flow_text)	OCRConvertTo(format, src_pdf_path, password, saved_file_path, page_range, is_retain_flow_text, <b>callback</b> )
	OCRConvertTo(format, src_pdf_path, password, saved_file_path, page_range, is_retain_flow_text, config)	OCRConvertTo(format, src_pdf_path, password, saved_file_path, page_range, is_retain_flow_text, config, <b>callback</b> )

## Upgrading to version 11.0 from version 10.1

If you are upgrading from version 10.1 to version 11.0, please take note of the changes that occurred between version 10.1 and version 11.0.

- Starting from version 11.0, Node.js 8 and Node.js 9 will no longer be supported.
- For Foxit PDF SDK for Linux x64, the minimum supported version of GCC compiler has been upgraded from gcc4.9.4 to gcc5.4.
- The multi-thread-safe API [static FSDK.Library.EnableThreadSafety\(is\\_enable\\_thread\\_safety\)](#) is being gradually deprecated. Foxit PDF SDK will further enhance support for document-level thread safety. This requires users to ensure that each document runs on only one thread.

Furthermore, given the particularities of XFA and JavaScript, Foxit PDF SDK has introduced the parameter [enable\\_js\\_xfa\\_threadsafety](#) in [static FSDK.Library.Initialize\(sn, key, is\\_optimize\\_memory, enable\\_js\\_xfa\\_threadsafety\)](#), allowing users to enable document-level thread safety for XFA and JavaScript.

- In **FSDK.TableGeneratorCallback** class, add a new callback function as below:

```
GetNewPageBasicInfo (page_index, rest_table_height, table_width)
```

- Some APIs have been changed in version 11.0. The following table lists the APIs mapping between version 10.1 and 11.0.

Class	SDK 10.1	SDK 11.0
FSDK.PDFDoc	AddPagingSealSignature(page_range, width, height)	AddPagingSealSignature(page_range, width, height, <b>to_check_permission</b> )
FSDK.OCRConfig	constructor(is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode)	constructor(is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode, <b>is_sequentially_process</b> )
	Set(is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode)	Set(is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode, <b>is_sequentially_process</b> )
FSDK.DocProviderCallback	SetFocus(xfa_widget)	SetFocus(xfa_widget, <b>is_relyayout</b> )
FSDK.Library	static Initialize(sn, key, is_optimize_memory)	static Initialize(sn, key, is_optimize_memory, <b>enable_js_xfa_threadafety</b> )
FSDK.HTML2PDFSettingData	constructor(page_width, page_height, is_to_page_scale, page_margin, is_convert_link, rotate_degrees, is_generate_tag, page_mode, to_generate_bookmarks, scaling_mode, encoding_format, to_render_images, to_remove_underline_for_link, to_set_headerfooter, headerfooter_title, headerfooter_url, bookmark_root_name, to_resize_objects, to_print_background, to_optimize_tag_tree, media_style, to_load_active_content, to_disable_sandbox, to_use_blacklist)	constructor(page_width, page_height, is_to_page_scale, page_margin, is_convert_link, rotate_degrees, is_generate_tag, page_mode, to_generate_bookmarks, scaling_mode, encoding_format, to_render_images, to_remove_underline_for_link, to_set_headerfooter, headerfooter_title, headerfooter_url, bookmark_root_name, to_resize_objects, to_print_background, to_optimize_tag_tree, media_style, to_load_active_content, to_disable_sandbox, to_use_blacklist, <b>to_hide_header, to_hide_footer, to_deny_local_file_access</b> )
	Set(page_width, page_height, is_to_page_scale, page_margin, is_convert_link, rotate_degrees, is_generate_tag, page_mode, to_generate_bookmarks, scaling_mode, encoding_format, to_render_images,	Set(page_width, page_height, is_to_page_scale, page_margin, is_convert_link, rotate_degrees, is_generate_tag, page_mode, to_generate_bookmarks, scaling_mode, encoding_format, to_render_images,

Class	SDK 10.1	SDK 11.0
	to_remove_underline_for_link, to_set_headerfooter, headerfooter_title, headerfooter_url, bookmark_root_name, to_resize_objects, to_print_background, to_optimize_tag_tree, media_style, to_load_active_content, to_disable_sandbox, to_use_blacklist)	to_remove_underline_for_link, to_set_headerfooter, headerfooter_title, headerfooter_url, bookmark_root_name, to_resize_objects, to_print_background, to_optimize_tag_tree, media_style, to_load_active_content, to_disable_sandbox, to_use_blacklist, <b>to_hide_header,</b> <b>to_hide_footer,</b> <b>to_deny_local_file_access)</b>

## Upgrading to version 10.1 from version 10.0

If you are upgrading from version 10.0 to version 10.1, please take note of the changes that occurred between version 10.0 and version 10.1.

- In SDK.**TiledWatermarkSettings** class:
  - add a new attribute called **flags**. By default, the tiled watermark is no longer positioned at the top. To retain the original behavior, where the watermark appears at the top, you need to set the attribute **flags** to **FSDK.TiledWatermarkSettings.e\_FlagOnTop**.
  - the constructor function has added a new parameter as below:

SDK 10.0:

```
constructor(row_space, col_space, rotation, opacity, scale)
```

SDK 10.1:

```
constructor(row_space, col_space, rotation, opacity, scale, flags)
```

- the function **Set** has added a new parameter as below:

SDK 10.0:

```
Set(row_space, col_space, rotation, opacity, scale)
```

SDK 10.1:

```
Set(row_space, col_space, rotation, opacity, scale, flags)
```

- Before version 10.1, the `FSDK.PostScriptDeviceSettingData` class was only applicable to the Linux platform. The `FSDK.Renderer.Renderer(print_param:FSDK.PostScriptDeviceSettingData, dest_psfile_path:string)` function was also only applicable to the Linux platform and only supported rendering to generate PostScript files.

From version 10.1, the `FSDK.PostScriptDeviceSettingData` class has been renamed to `FSDK.PrintDeviceSettingData`, and it is applicable to all platforms (Windows and Linux). The `FSDK.Renderer.Renderer(print_param:FSDK.PostScriptDeviceSettingData, dest_psfile_path:string)` function has been changed to `FSDK.Renderer.Renderer(print_param:FSDK.PrintDeviceSettingData, dest_file_path:string)`, and it is applicable to all platforms, supporting rendering to generate PostScript and PDF files. However, generating PostScript files is also only supported on the Linux platform.

- In `FSDK.ImageObject` class, the `CloneBitmap(graphics_objects)` function has been deprecated and replaced with `CloneBitmap(page, graphics_objects)`.
- In `FSDK.PDF2OfficeSettingData` class:
  1. the property "`metrics_data_folder_path`" has been deprecated. Instead, metrics data will be included in the dynamic library of Foxit PDF Conversion SDK.
  2. the parameter "`metrics_data_folder_path`" in the constructor function of **`PDF2OfficeSettingData`** has been deprecated.
  3. the parameter "`metrics_data_folder_path`" in the function of **`Set`** has been deprecated.