

Foxit PDF SDK for Java 11.1 Upgrade Warnings

This document contains a list of items that developers looking to upgrade to Foxit PDF SDK for Java 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 com.foxit.sdk.**ActionCallback** class, add some new callback functions as below:

```
void notifyBeginDoJob(PDFDoc document, int event_type)

void notifyAfterDataChange(PDFDoc document, JavascriptModifyItemInfo modify_item_info)

void notifyEndDoJob(PDFDoc document, int event_type)

boolean initModifyItem(PDFDoc document, int item_type, int page_index, String dict_name)

void resetModifyItem(PDFDoc document)

int getVisiblePageCount(PDFDoc document)

int getVisiblePage(PDFDoc document, int index)
```

- In com.foxit.sdk.addon.xfa.**DocProviderCallback** class, add a new callback function as below:

```
void notifyWidgetChangeInfo(XFADoc doc, XFAWidgetModifyInfo change_info)
```

- In com.foxit.sdk.addon.ocr.**OCRCallback**, add a new callback function as below:

```
boolean isImageIgnored(ImageObject 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
com.foxit.sdk. ActionCallback	RectF getPageWindowRect()	RectF getPageWindowRect(PDFDoc document, int page_index)
com.foxit.sdk.pdf.annotations. IconProviderCallback	PDFPage getIcon(int annot_type, String icon_name, long color)	PDFPage getIcon(int annot_type, String icon_name, long color, PDFDictionary annot_dict)

Class	SDK 11.0	SDK 11.1
com.foxit.sdk.addon.conversion.pdf2office. PDF2WordSettingData	PDF2WordSettingData(boolean enable_retain_page_layout, boolean enable_generate_headers_and_footers, boolean enable_generate_footnotes_and_endnotes, boolean enable_generate_page_rendered_break)	PDF2WordSettingData(boolean enable_retain_page_layout, boolean enable_generate_headers_and_footers, boolean enable_generate_footnotes_and_endnotes, boolean enable_generate_page_rendered_break, int max_blank_paragraphs_per_page_bottom)
	void set(boolean enable_retain_page_layout, boolean enable_generate_headers_and_footers, boolean enable_generate_footnotes_and_endnotes, boolean enable_generate_page_rendered_break)	void set(boolean enable_retain_page_layout, boolean enable_generate_headers_and_footers, boolean enable_generate_footnotes_and_endnotes, boolean enable_generate_page_rendered_break, int max_blank_paragraphs_per_page_bottom)
com.foxit.sdk.addon.conversion.pdf2office. PDF2ExcelSettingData	PDF2ExcelSettingData(String decimal_symbol, String thousands_separator, int workbook_settings)	PDF2ExcelSettingData(String decimal_symbol, String thousands_separator, int workbook_settings, boolean enable_aggressive_table_repair, boolean include_watermarks)
	void set(String decimal_symbol, String thousands_separator, int workbook_settings)	void set(String decimal_symbol, String thousands_separator, int workbook_settings, boolean enable_aggressive_table_repair, boolean include_watermarks)
com.foxit.sdk.addon.conversion.pdf2office. PDF2PowerPointSettingData	PDF2PowerPointSettingData(boolean enable_aggressively_split_sections)	PDF2PowerPointSettingData(boolean enable_aggressively_split_sections, boolean enable_adapt_to_largest_page)
	void set(boolean enable_aggressively_split_sections)	void set(boolean enable_aggressively_split_sections, boolean enable_adapt_to_largest_page)
com.foxit.sdk.addon.conversion.pdf2office. PDF2OfficeSettingData	PDF2OfficeSettingData(String metrics_data_folder_path, boolean enable_ml_recognition, Range page_range, boolean include_pdf_comments, PDF2WordSettingData word_setting_data, PDF2PowerPointSettingData power_point_setting_data, PDF2ExcelSettingData excel_setting_data, boolean enable_trailing_space, boolean include_images, int timeout)	PDF2OfficeSettingData(String metrics_data_folder_path, boolean enable_ml_recognition, Range page_range, boolean include_pdf_comments, PDF2WordSettingData word_setting_data, PDF2PowerPointSettingData power_point_setting_data, PDF2ExcelSettingData excel_setting_data, boolean enable_trailing_space, boolean include_images, int timeout, boolean enable_matching_system_fonts)
	void set(String metrics_data_folder_path, boolean enable_ml_recognition, Range page_range, boolean include_pdf_comments, PDF2WordSettingData word_setting_data, PDF2PowerPointSettingData power_point_setting_data, PDF2ExcelSettingData excel_setting_data, boolean enable_trailing_space, boolean include_images, int timeout)	void set(String metrics_data_folder_path, boolean enable_ml_recognition, Range page_range, boolean include_pdf_comments, PDF2WordSettingData word_setting_data, PDF2PowerPointSettingData power_point_setting_data, PDF2ExcelSettingData excel_setting_data, boolean enable_trailing_space, boolean include_images, int timeout, boolean enable_matching_system_fonts)

Class	SDK 11.0	SDK 11.1
com.foxit.sdk.addon.conversion. Convert	static void fromWord(String src_word_file_path, String src_file_password, String saved_pdf_path, Word2PDFSettingData setting_data)	static void fromWord(String src_word_file_path, String src_file_password, String saved_pdf_path, Word2PDFSettingData setting_data, int engine)
	static void fromExcel(String src_excel_file_path, String src_file_password, String saved_pdf_path, Excel2PDFSettingData setting_data)	static void fromExcel(String src_excel_file_path, String src_file_password, String saved_pdf_path, Excel2PDFSettingData setting_data, int engine)
	static void fromPowerPoint(String src_ppt_file_path, String src_file_password, String saved_pdf_path, PowerPoint2PDFSettingData setting_data)	static void fromPowerPoint(String src_ppt_file_path, String src_file_password, String saved_pdf_path, PowerPoint2PDFSettingData setting_data, int engine)
com.foxit.sdk.addon.ocr. OCRConfig	OCRConfig(boolean is_detect_pictures, boolean is_remove_noise, boolean is_correct_skew, boolean is_enable_text_extraction_mode, boolean is_sequentially_process)	OCRConfig(boolean is_detect_pictures, boolean is_remove_noise, boolean is_correct_skew, boolean is_enable_text_extraction_mode, boolean is_sequentially_process, boolean is_auto_overwrite_resolution, int resolution_to_overwrite, int confidence)
	void set(boolean is_detect_pictures, boolean is_remove_noise, boolean is_correct_skew, boolean is_enable_text_extraction_mode, boolean is_sequentially_process)	void set(boolean is_detect_pictures, boolean is_remove_noise, boolean is_correct_skew, boolean is_enable_text_extraction_mode, boolean is_sequentially_process, boolean is_auto_overwrite_resolution, int resolution_to_overwrite, int confidence)
com.foxit.sdk.addon.ocr. OCR	void oCRPDFPage(PDFPage pdf_page, boolean is_editable)	void oCRPDFPage(PDFPage pdf_page, boolean is_editable, OCRProgressCallback callback)
	void oCRPDFPage(PDFPage pdf_page, boolean is_editable, OCRConfig config)	void oCRPDFPage(PDFPage pdf_page, boolean is_editable, OCRConfig config, OCRProgressCallback callback)
	void oCRPDFDocument(PDFDoc pdf_doc, boolean is_editable)	void oCRPDFDocument(PDFDoc pdf_doc, boolean is_editable, OCRProgressCallback callback)
	void oCRPDFDocument(PDFDoc pdf_doc, boolean is_editable, OCRConfig config)	void oCRPDFDocument(PDFDoc pdf_doc, boolean is_editable, OCRConfig config, OCRProgressCallback callback)
	void oCRPDFDocuments(OCRSettingDataArray settingdata_array)	void oCRPDFDocuments(OCRSettingDataArray settingdata_array, OCRProgressCallback callback)
	void oCRConvertTo(int format, String src_pdf_path, String password, String saved_file_path, Range page_range, boolean is_retain_flow_text)	void oCRConvertTo(int format, String src_pdf_path, String password, String saved_file_path, Range page_range, boolean is_retain_flow_text, OCRProgressCallback callback)

Class	SDK 11.0	SDK 11.1
	void oCRConvertTo(int format, String src_pdf_path, String password, String saved_file_path, Range page_range, boolean is_retain_flow_text, OCRConfig config)	void oCRConvertTo(int format, String src_pdf_path, String password, String saved_file_path, Range page_range, boolean is_retain_flow_text, OCRConfig config, OCRProgressCallback callback)

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.

- For Foxit PDF SDK for Linux (x86 and x64), the minimum supported version of GCC compiler has been upgraded from gcc4.9.4 to gcc5.4.
- The multi-thread-safe API `static void com.foxit.sdk.common.Library.enableThreadSafety(boolean 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 int com.foxit.sdk.common.Library.initialize(String sn, String key, boolean is_optimize_memory, boolean enable_js_xfa_threadsafety)`, allowing users to enable document-level thread safety for XFA and JavaScript.

- In `com.foxit.sdk.addon.tablegenerator.TableGeneratorCallback` class, add a new callback function as below:

```
PageBasicInfo getNewPageBasicInfo (int page_index, float rest_table_height, float 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
<code>com.foxit.sdk.pdf.PDFDoc</code>	<code>PagingSealSignature</code> <code>addPagingSealSignature (Range page_range, float width, float height)</code>	<code>PagingSealSignature</code> <code>addPagingSealSignature (Range page_range, float width, float height, boolean to_check_permission)</code>

Class	SDK 10.1	SDK 11.0
com.foxit.sdk.addon.ocr. OCRConfig	OCRConfig (boolean is_detect_pictures, boolean is_remove_noise, boolean is_correct_skew, boolean is_enable_text_extraction_mode)	OCRConfig (boolean is_detect_pictures, boolean is_remove_noise, boolean is_correct_skew, boolean is_enable_text_extraction_mode, boolean is_sequentially_process)
	void set (boolean is_detect_pictures, boolean is_remove_noise, boolean is_correct_skew, boolean is_enable_text_extraction_mode)	void set (boolean is_detect_pictures, boolean is_remove_noise, boolean is_correct_skew, boolean is_enable_text_extraction_mode, boolean is_sequentially_process)
com.foxit.sdk.addon.xfa. DocProviderCallback	void setFocus (XFAWidget xfa_widget)	void setFocus (XFAWidget xfa_widget, boolean is_relayout)
com.foxit.sdk.common. Library	static int initialize (String sn, String key, boolean is_optimize_memory)	static int initialize (String sn, String key, boolean is_optimize_memory, boolean enable_js_xfa_threadsafety)
com.foxit.sdk.addon.conversion. HTML2PDFSettingData	HTML2PDFSettingData (float page_width, float page_height, boolean is_to_page_scale, RectF page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag, int page_mode, boolean to_generate_bookmarks, int scaling_mode, int encoding_format, boolean to_render_images, boolean to_remove_underline_for_link, boolean to_set_headerfooter, String headerfooter_title, String headerfooter_url, String bookmark_root_name, boolean to_resize_objects, boolean to_print_background, boolean to_optimize_tag_tree, int media_style, boolean to_load_active_content, boolean to_disable_sandbox, boolean to_use_blacklist)	HTML2PDFSettingData (float page_width, float page_height, boolean is_to_page_scale, RectF page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag, int page_mode, boolean to_generate_bookmarks, int scaling_mode, int encoding_format, boolean to_render_images, boolean to_remove_underline_for_link, boolean to_set_headerfooter, String headerfooter_title, String headerfooter_url, String bookmark_root_name, boolean to_resize_objects, boolean to_print_background, boolean to_optimize_tag_tree, int media_style, boolean to_load_active_content, boolean to_disable_sandbox, boolean to_use_blacklist, boolean to_hide_header, boolean to_hide_footer, boolean to_deny_local_file_access)
	void set (float page_width, float page_height, boolean is_to_page_scale, RectF page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag, int page_mode, boolean to_generate_bookmarks, int scaling_mode, int encoding_format, boolean to_render_images, boolean to_remove_underline_for_link,	void set (float page_width, float page_height, boolean is_to_page_scale, RectF page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag, int page_mode, boolean to_generate_bookmarks, int scaling_mode, int encoding_format, boolean to_render_images, boolean to_remove_underline_for_link, boolean to_set_headerfooter, String headerfooter_title, String

Class	SDK 10.1	SDK 11.0
	boolean to_set_headerfooter, String headerfooter_title, String headerfooter_url, String bookmark_root_name, boolean to_resize_objects, boolean to_print_background, boolean to_optimize_tag_tree, int media_style, boolean to_load_active_content, boolean to_disable_sandbox, boolean to_use_blacklist)	headerfooter_url, String bookmark_root_name, boolean to_resize_objects, boolean to_print_background, boolean to_optimize_tag_tree, int media_style, boolean to_load_active_content, boolean to_disable_sandbox, boolean to_use_blacklist, boolean to_hide_header, boolean to_hide_footer, boolean to_deny_local_file_access)

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 com.foxit.sdk.pdf.**TiledWatermarkSettings** class:
 - add a new function called [setFlags \(int value\)](#). 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 call the [setFlags \(int value\)](#) function to set the watermark flags to [com.foxit.sdk.pdf.TiledWatermarkSettings.e_FlagOnTop](#).
 - the constructor function of **TiledWatermarkSettings** has added a new parameter as below:

SDK 10.0:

```
TiledWatermarkSettings (float row_space, float col_space, float rotation, int opacity, int scale)
```

SDK 10.1:

```
TiledWatermarkSettings (float row_space, float col_space, float rotation, int opacity, int scale, int flags)
```

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

SDK 10.0:

```
void set (float row_space, float col_space, float rotation, int opacity, int scale)
```

SDK 10.1:

```
void set (float row_space, float col_space, float rotation, int opacity, int scale, int flags)
```

- In `com.foxit.sdk.addon.conversion.pdf2office.PDF2WordSettingData` class:

1. add two new properties as below:

```
boolean enable_generate_headers_and_footers;  
boolean enable_generate_footnotes_and_endnotes;
```

2. the constructor function of **PDF2WordSettingData** has added two new parameters as below:

SDK 9.2:

```
PDF2WordSettingData(boolean enable_retain_page_layout)
```

SDK 10.0:

```
PDF2WordSettingData(boolean enable_retain_page_layout, boolean  
enable_generate_headers_and_footers, boolean  
enable_generate_footnotes_and_endnotes)
```

3. the function **set** has added two new parameters as below:

SDK 9.2:

```
void set(boolean enable_retain_page_layout)
```

SDK 10.0:

```
void set(boolean enable_retain_page_layout, boolean  
enable_generate_headers_and_footers, boolean  
enable_generate_footnotes_and_endnotes)
```

- In the `com.foxit.sdk.common` package:

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

From version 10.1, the `PostScriptDeviceSettingData` class has been renamed to **`PrintDeviceSettingData`**, and it is applicable to all platforms (Windows, Linux, and Mac). The `Renderer.Renderer(PostScriptDeviceSettingData print_param, String dest_file_path)` function has been changed to `Renderer.Renderer(PrintDeviceSettingData print_param, String dest_file_path)`, 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 `com.foxit.sdk.pdf.graphics.ImageObject` class, the `cloneBitmap(GraphicsObjects graphics_objects)` function has been deprecated and replaced with `cloneBitmap(PDFPage page, GraphicsObjects graphics_objects)`.
- In `com.foxit.sdk.addon.conversion.pdf2office.PDF2OfficeSettingData` class:
 1. the function `setMetrics_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.

Upgrading to version 10.0 from version 9.2

If you are upgrading from version 9.2 to version 10.0, please take note of the changes that occurred between version 9.2 and version 10.0.

- For Compliance module, the compliance resource files have been updated, please contact Foxit support team or sales team to get the latest resource files package.

Only the latest engine can be used with version 10.0, using the older engine will cause errors. Version 9.2 is not compatible with the latest engine, it will throw errors in multi-threading situations.

- If you are using an older version of Windows (for example, Windows 7 and Windows Server 2008), you may need to visit this link <https://support.microsoft.com/en-us/help/4019990/update-for-the-d3dcompiler-47-dll-component-on-windows> to download and install the "D3DCOMPILER_47.dll". If you do not do this, you may encounter errors.
- In `com.foxit.sdk.addon.conversion.pdf2office.PDF2WordSettingData` class:
 1. add two new properties as below:

```
boolean enable_generate_headers_and_footers;  
boolean enable_generate_footnotes_and_endnotes;
```


- the constructor function of **PDF2WordSettingData** has added two new parameters as below:

SDK 9.2:

```
PDF2WordSettingData(boolean enable_retain_page_layout)
```

SDK 10.0:

```
PDF2WordSettingData(boolean enable_retain_page_layout, boolean  
enable_generate_headers_and_footers, boolean  
enable_generate_footnotes_and_endnotes)
```

- the function **set** has added two new parameters as below:

SDK 9.2:

```
void set(boolean enable_retain_page_layout)
```

SDK 10.0:

```
void set(boolean enable_retain_page_layout, boolean  
enable_generate_headers_and_footers, boolean  
enable_generate_footnotes_and_endnotes)
```

- In com.foxit.sdk.addon.conversion.pdf2office.**PDF2OfficeSettingData** class:

- add two new properties as below:

```
PDF2PowerPointSettingData power_point_setting_data;  
PDF2ExcelSettingData excel_setting_data;
```

- the constructor function of **PDF2OfficeSettingData** has added two new parameters as below:

SDK 9.2:

```
PDF2OfficeSettingData(String metrics_data_folder_path, boolean enable_ml_recognition,  
Range page_range, boolean include_pdf_comments, PDF2WordSettingData  
word_setting_data)
```

SDK 10.0:

```
PDF2OfficeSettingData(String metrics_data_folder_path, boolean enable_ml_recognition,  
Range page_range, boolean include_pdf_comments, PDF2WordSettingData  
word_setting_data, PDF2PowerPointSettingData power_point_setting_data,  
PDF2ExcelSettingData excel_setting_data)
```

- the function **set** has added two new parameters as below:

SDK 9.2:

```
void set(String metrics_data_folder_path, boolean enable_ml_recognition, Range
page_range, boolean include_pdf_comments, PDF2WordSettingData word_setting_data)
```

SDK 10.0:

```
void set(String metrics_data_folder_path, boolean enable_ml_recognition, Range
page_range, boolean include_pdf_comments, PDF2WordSettingData word_setting_data,
PDF2PowerPointSettingData power_point_setting_data, PDF2ExcelSettingData
excel_setting_data)
```

Upgrading to version 9.2 from version 9.1

If you are upgrading from version 9.1 to version 9.2, please take note of the changes that occurred between version 9.1 and version 9.2.

- For OCR module, the OCR engine for Linux x64 has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.
- For PDF to Office module, the version of the PDF to Office resource files package naming Foxit PDF Conversion SDK (C++) should be 1.5 or higher.
- In com.foxit.sdk.addon.conversion.pdf2office.**PDF2OfficeSettingData** class:

- the constructor function of **PDF2OfficeSettingData** has added three new parameters as below:

SDK 9.1:

```
PDF2OfficeSettingData(String metrics_data_folder_path, boolean enable_ml_recognition)
```

SDK 9.2:

```
PDF2OfficeSettingData(String metrics_data_folder_path, boolean enable_ml_recognition,
Range page_range, boolean include_pdf_comments, PDF2WordSettingData
word_setting_data)
```

- the function **set** has added three new parameters as below:

SDK 9.1:

```
void set (String metrics_data_folder_path, boolean enable_ml_recognition)
```

SDK 9.2:

```
void set (String metrics_data_folder_path, boolean enable_ml_recognition, Range  
page_range, boolean include_pdf_comments, PDF2WordSettingData  
word_setting_data)
```

- In com.foxit.sdk.**ActionCallback** class, add five new callback functions as below:

```
void enablePageLoop(boolean is_loop)  
boolean isPageLoop()  
void setDefaultPageTransitionMode(String trans_type, String trans_di)  
boolean isCurrentDocOpenedInBrowser()  
void postMessageToHtml(WStringArray message)
```

Upgrading to version 9.1 from version 9.0

If you are upgrading from version 9.0 to version 9.1, please take note of the changes that occurred between version 9.0 and version 9.1.

- For Compliance module, the compliance resource files have been updated, please contact Foxit support team or sales team to get the latest resource files package.
- In com.foxit.sdk.**ActionCallback** class:
 1. add a new callback function as below:

```
SOAPResponseInfo soapRequest (SOAPRequestProperties request_params)
```

2. the function **openDoc** has been changed as below:

SDK 9.0:

```
boolean openDoc (String file_path, String password)
```

SDK 9.1:

```
PDFDoc openDoc (String file_path, String password)
```

Upgrading to version 9.0 from version 8.4.2

If you are upgrading from version 8.4.2 to version 9.0, please take note of the changes that occurred between version 8.4.2 and version 9.0.

- For HTML to PDF module, the HTML to PDF engine has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.

- For Compliance module, the compliance resource files for **Linux** have been updated, please contact Foxit support team or sales team to get the latest resource files package.
- For OCR module, the OCR engine for Windows has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.
- The version of clang used for building and compiling the Foxit PDF SDK for Mac (x64) has been upgraded from 9.1.0 to 11.0.3.
- In com.foxit.sdk.**ActionCallback** class:
 1. add four new callback functions as below:

```
void query (String keywords, int search_scope, SearchOption search_option, String
di_path)

SearchIndexConfig addSearchIndex (String di_path, boolean is_selected)

boolean removeSearchIndex (SearchIndexConfig search_index_config)

WStringArray getSignatureAPStyleNameList ()
```

2. the function **selectPageNthWord** has been changed as below:

SDK 8.4.2:

```
void selectPageNthWord (int page_index, int word_index, boolean is_show_selection)
```

SDK 9.0:

```
void selectPageNthWord (int page_index, int start_offset, int end_offset, boolean
is_show_selection)
```

Upgrading to version 8.4.2 from version 8.4.1

There is only one minor upgrade warning in this release when moving from version 8.4.1 to version 8.4.2:

- For OCR module, the OCR engine has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.

Upgrading to version 8.4.1 from version 8.4

There are two minor upgrade warnings in this release when moving from version 8.4 to version 8.4.1:

- For HTML to PDF module, the HTML to PDF engine has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.
- The namespace of table generator related classes has been changed from **com.foxit.sdk.addon** to **com.foxit.sdk.addon.tablegenerator**. The classes are listed as follows:
 - TableBorderInfo
 - TableCellData
 - TableCellDataArray
 - TableCellDataColArray
 - TableCellIndexArray
 - TableData
 - TableGenerator

Upgrading to version 8.4 from version 8.3

If you are upgrading from version 8.3 to version 8.4, please take note of the changes that occurred between version 8.3 and version 8.4.

- GCC compiler update on Linux

Starting from version 8.4 Foxit PDF SDK for Linux (x86 and x64), the minimum supported version of GCC compiler has been upgraded from gcc4.8 to gcc4.9.4. For the SDK to work properly, make sure your current GCC version is 4.9.4 or higher, or the libstdc++.so.6 is 6.0.20 or higher.

- For OCR module, the OCR engine has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.
- In com.foxit.sdk.**ActionCallback** class:

1. Add thirty-one new callback functions as below:

```
void setCurrentPage(PDFDoc document, Destination destination)
void closeDoc(PDFDoc document, boolean is_prompt_to_save)
public boolean isLocalFile(PDFDoc document)
String getAttachmentsFilePath(PDFDoc pdf_doc, String name)
String getExtractedEmbeddedFilePath(PDFDoc pdf_doc, String name)
boolean print(PDFDoc document, PrintParams print_params)
String getUntitledBookmarkName()
WStringArray getPrinterNameList()
boolean addToolButton(ButtonItem button_item)
boolean removeToolButton(String button_name)
```

```

MenuListArray getMenuitemNameList()
boolean addMenuItem(MenuItemConfig menu_item_config, boolean is_prepend)
boolean addSubMenu(MenuItemConfig menu_item_config)
boolean showDialog(DialogDescriptionConfig dlg_config)
boolean getFullScreen()
void setFullScreen(boolean is_full_screen)
void onFieldValueChanged(String field_name, int type, WStringArray
value_before_changed, WStringArray value_after_changed)
void updateLogicalLabel()
int mailDoc(PDFDoc document, String to_address, String cc_address, String bcc_address,
String subject, String message, boolean is_ui)
String getTemporaryFileName(PDFDoc document, String file_suffix_name)
MediaPlayerCallback openMediaPlayer(PlayerArgs player_args)
String getTemporaryDirectory()
void scroll(PointF point)
void selectPageNthWord(int page_index, int word_index, boolean is_show_selection)
PointF getMousePosition()
RectF getPageWindowRect()
int getLayoutMode()
void setLayoutMode(int layout_mode, boolean is_cover_mode)
float getPageScale()
void setPageScale(int zoom_mode, Destination dest)
int getPageZoomMode()

```

- In com.foxit.sdk.pdf.**PDFPage** class:
 1. The function **transform** has added a new parameter as below:

SDK 8.3:

```
boolean transform(Matrix2D matrix, boolean need_transform)
```

SDK 8.4:

```
boolean transform(Matrix2D matrix, boolean need_transform_clip_path, boolean
need_transform_annotations)
```

- In com.foxit.sdk.pdf.**annots** package:
 1. Remove PagingSeal class.

Upgrading to version 8.3 from version 8.2

If you are upgrading from version 8.2 to version 8.3, please take note of the changes that occurred between version 8.2 and version 8.3.

- For HTML to PDF module, the HTML to PDF engine has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.
- In com.foxit.sdk.pdf.annots.**FreeText** class, the following two functions have been deprecated:

```
int getAlignment ()  
void setAlignment (int alignment)
```

- In foxit.pdf.actions.**ActionCallback** class:

1. the function **popupMenu** has added a new parameter as below:

SDK 8.2:

```
String popupMenu (MenuListArray menus)
```

SDK 8.3:

```
String popupMenu (MenuListArray menus, java.lang.Boolean is_selected_item)
```

2. the function **submitForm** has added a new parameter as below:

SDK 8.2:

```
boolean submitForm (PDFDoc document, byte[] form_data, String url)
```

SDK 8.3:

```
boolean submitForm (PDFDoc document, byte[] form_data, String url, int  
file_format_type)
```

3. add a new callback function as below:

```
MenuItemEx popupMenuEx (MenuItemExArray menus, java.lang.Boolean  
is_selected_item)
```

- In com.foxit.sdk.addon.conversion.**HTML2PDFSettingData** class:
 1. the constructor function of **HTML2PDFSettingData** has added new parameters as below:

SDK 8.2:

```
HTML2PDFSettingData (float page_width, float page_height, boolean is_to_page_scale,
RectF page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag,
int page_mode, boolean to_generate_bookmarks, int scaling_mode)
```

SDK 8.3:

```
HTML2PDFSettingData (float page_width, float page_height, boolean is_to_page_scale,
RectF page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag,
int page_mode, boolean to_generate_bookmarks, int scaling_mode, int encoding_format,
boolean to_render_images, boolean to_remove_underline_for_link, boolean
to_set_headerfooter, String headerfooter_title, String headerfooter_url, String
bookmark_root_name, boolean to_resize_objects, boolean to_print_background,
boolean to_optimize_tag_tree, int media_style)
```

2. the function **set** has added new parameter as below:

SDK 8.2:

```
void set (float page_width, float page_height, boolean is_to_page_scale, RectF
page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag, int
page_mode, boolean to_generate_bookmarks, int scaling_mode)
```

SDK 8.3:

```
void set (float page_width, float page_height, boolean is_to_page_scale, RectF
page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag, int
page_mode, boolean to_generate_bookmarks, int scaling_mode, int encoding_format,
boolean to_render_images, boolean to_remove_underline_for_link, boolean
to_set_headerfooter, String headerfooter_title, String headerfooter_url, String
bookmark_root_name, boolean to_resize_objects, boolean to_print_background,
boolean to_optimize_tag_tree, int media_style)
```

Upgrading to version 8.2 from version 8.1

If you are upgrading from version 8.1 to version 8.2, please take note of the changes that occurred between version 8.1 and version 8.2.

- For Compliance module, the compliance resource files have been updated, please contact Foxit support team or sales team to get the latest resource files package.
- For HTML to PDF module, the HTML to PDF engine has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.
- In com.foxit.sdk.pdf.interform.**FillerAssistCallback** class, add a new callback function as below:


```
void reportInvalidValue (String form_field_name, String invalid_value)
```

- In com.foxit.sdk.addon.conversion.**HTML2PDFSettingData** class:
 1. the constructor function of **HTML2PDFSettingData** has added a new parameter as below:

SDK 8.1:

```
HTML2PDFSettingData (float page_width, float page_height, boolean is_to_page_scale,  
RectF page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag,  
int page_mode)
```

SDK 8.2:

```
HTML2PDFSettingData (float page_width, float page_height, boolean is_to_page_scale,  
RectF page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag,  
int page_mode, boolean to_generate_bookmarks, int scaling_mode)
```

2. the function **set** has added a new parameter as below:

SDK 8.1:

```
void set (float page_width, float page_height, boolean is_to_page_scale, RectF  
page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag, int  
page_mode, boolean to_generate_bookmarks)
```

SDK 8.2:

```
void set (float page_width, float page_height, boolean is_to_page_scale, RectF  
page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag, int  
page_mode, boolean to_generate_bookmarks, int scaling_mode)
```

Upgrading to version 8.1 from version 8.0

If you are upgrading from version 8.0 to version 8.1, please take note of the changes that occurred between version 8.0 and version 8.1.

- In com.foxit.sdk.pdf.interform.**FillerAssistCallback** class, add seven callback functions as below:

```
java.lang.Object createPopupMenu ()  
  
boolean appendPopupMenuitem (java.lang.Object h_popup_menu, int popup_menu_item,  
String default_string)  
  
boolean enablePopupMenuitem (java.lang.Object h_popup_menu, int popup_menu_item,  
boolean is_enabled)  
  
boolean showPopupMenu (java.lang.Object h_popup_menu, PointF point)
```

```
void destroyPopupMenu (java.lang.Object h_popup_menu)
void setClipboardText (String text)
String getClipboardText ()
```

- In com.foxit.sdk.**IdentityProperties** class:

1. add eight member functions as below:

```
String getDepartment ()
String getFirst_name ()
String getLast_name ()
String getTitle ()
void setDepartment (String value)
void setFirst_name (String value)
void setLast_name (String value)
void setTitle (String value)
```

2. the constructor function of **IdentityProperties** has added four new parameters as below:

SDK 8.0:

```
IdentityProperties (String corporation, String email, String login_name, String name)
```

SDK 8.1:

```
IdentityProperties (String corporation, String email, String login_name, String name, String first_name, String last_name, String title, String department)
```

3. the function **Set** has added four new parameters as below:

SDK 8.0:

```
void set (String corporation, String email, String login_name, String name)
```

SDK 8.1:

```
void set (String corporation, String email, String login_name, String name, String first_name, String last_name, String title, String department)
```

- In com.foxit.sdk.**ActionCallback** class, add a new callback function as below:

```
boolean setIdentityProperties (IdentityProperties identity_properties)
```

Upgrading to version 8.0 from version 7.6

There are two minor upgrade warnings in this release when moving from version 7.6 to version 8.0:

- In **com.foxit.sdk.addon.conversion.HTML2PDFSettingData** class, the constructor function of **HTML2PDFSettingData** has added a new parameter as below:

SDK 7.6:

```
HTML2PDFSettingData (float page_width, float page_height, boolean is_to_page_scale, RectF page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag, int page_mode)
```

SDK 8.0:

```
HTML2PDFSettingData (float page_width, float page_height, boolean is_to_page_scale, RectF page_margin, boolean is_convert_link, int rotate_degrees, boolean is_generate_tag, int page_mode, boolean to_generate_bookmarks)
```

- In **com.foxit.sdk.pdf.PDFPage** class, the function **AddSignature** has added a new parameter as below:

SDK 7.6:

```
Signature addSignature (RectF rect, String field_name, int signature_type)
```

SDK 8.0:

```
Signature addSignature (RectF rect, String field_name, int signature_type, boolean to_check_permission)
```

Upgrading to version 7.6 from version 7.5

There are two minor upgrade warnings in this release when moving from version 7.5 to version 7.6:

- In **com.foxit.sdk.ActionCallback** class, add a new callback interface as below:

```
public String browseFile(boolean is_open_dialog, String file_format, String file_filter)
```

- In **com.foxit.sdk.pdf.LTVVerifier** class, remove the constant value (**e_VerifyModeETSI**).

Upgrading to version 7.5 from version 7.4

There are two minor upgrade warnings in this release when moving from version 7.4 to version 7.5. In **foxit.pdf.HeaderFooter** class:

- The parameters of constructor function of **HeaderFooter** have been changed:

SDK 7.4:

```
HeaderFooter(Font font, float text_size, long text_color, PageNumberRange page_range, RectF page_margin, boolean has_text_shrunked, boolean has_fixedsize_for_print, int start_page_number, HeaderFooterContent content)
```

SDK 7.5:

```
HeaderFooter(Font font, float text_size, long text_color, PageNumberRange page_range, RectF page_margin, boolean has_text_shrunked, boolean has_fixedsize_for_print, int start_page_number, HeaderFooterContent content, boolean is_to_embed_font, boolean is_underline)
```

- The parameters of **set** function have been changed:

SDK 7.4:

```
void set(Font font, float text_size, long text_color, PageNumberRange page_range, RectF page_margin, boolean has_text_shrunked, boolean has_fixedsize_for_print, int start_page_number, HeaderFooterContent content)
```

SDK 7.5:

```
void set(Font font, float text_size, long text_color, PageNumberRange page_range, RectF page_margin, boolean has_text_shrunked, boolean has_fixedsize_for_print, int start_page_number, HeaderFooterContent content, boolean is_to_embed_font, boolean is_underline)
```

Upgrading to version 7.4 from version 7.3

If you are upgrading from version 7.3 to version 7.4, please take note of the changes that occurred between version 7.3 and version 7.4.

- In com.foxit.sdk.addon.optimization.**MonolImageSettings** class, the attribute below has been changed:

SDK 7.3: public final static int **e_ImageCompressjpeg2** = 10004;

SDK 7.4: public final static int **e_ImageCompressjbig2** = 10004;

- In com.foxit.sdk.pdf.annots.**Markup** class:

The functions below have been removed from version 7.4:

```
public int getStateAnnotCount(int model) throws com.foxit.sdk.PDFException  
public Note getStateAnnot(int model, int index) throws com.foxit.sdk.PDFException
```

And then add a new function as below:

```
public NoteArray getStateAnnots(int model) throws com.foxit.sdk.PDFException
```

- In com.foxit.sdk.**ActionCallback** class, add three callback functions as below:

```
public PDFDoc getCurrentDoc()
public PDFDoc createBlankDoc()
public boolean openDoc(String file_path, String password)
```

- Some APIs have been changed in version 7.4. The following table lists the APIs mapping between version 7.3 and 7.4.

Class	SDK 7.3	SDK 7.4
com.foxit.sdk.addon.conversion. Word2PDFSettingData (only for Windows platform)	public Word2PDFSettingData(boolean include_doc_props, boolean convert_to_pdfa , int optimize_option, int content_option, int bookmark_option)	public Word2PDFSettingData(boolean include_doc_props, int optimize_option, int content_option, int bookmark_option, boolean convert_to_pdfa)
	public void set(boolean include_doc_props, boolean convert_to_pdfa , int optimize_option, int content_option, int bookmark_option)	public void set(boolean include_doc_props, int optimize_option, int content_option, int bookmark_option, boolean convert_to_pdfa)
com.foxit.sdk.addon.conversion. Excel2PDFSettingData (only for Windows platform)	public Excel2PDFSettingData(boolean include_doc_props, boolean convert_to_pdfa , int quality, boolean ignore_print_area, int scale_type)	public Excel2PDFSettingData(boolean include_doc_props, int quality, boolean ignore_print_area, int scale_type, boolean convert_to_pdfa)
	public void set(boolean include_doc_props, boolean convert_to_pdfa , int quality, boolean ignore_print_area, int scale_type)	public void set(boolean include_doc_props, int quality, boolean ignore_print_area, int scale_type, boolean convert_to_pdfa)
com.foxit.sdk.pdf.annotations. Markup	public Note addStateAnnot(int model, int state) throws com.foxit.sdk.PDFException	public Note addStateAnnot(String title , int model, int state) throws com.foxit.sdk.PDFException
com.foxit.sdk.pdf. TextSearch	public TextSearch(PDFDoc document, SearchCancelCallback cancel) throws com.foxit.sdk.PDFException	public TextSearch(PDFDoc document, SearchCancelCallback cancel, int flags) throws com.foxit.sdk.PDFException
com.foxit.sdk.pdf.annotations. FreeText	void setTextMatrix(Matrix2D text_matrix)	deprecated
	Matrix2D getTextMatrix()	deprecated

Upgrading to version 7.3 from version 7.2

If you are upgrading from version 7.2 to version 7.3, please take note of the changes that occurred between version 7.2 and version 7.3.

For the version 7.3 release of Foxit PDF SDK for Java, there are some minor changes as below:

- Move the following definitions from "com.foxit.sdk.pdf.graphics.ImageObject" to "com.foxit.sdk.common.Constants".

```
static final int e_ColorSpaceCalGray = 4
static final int e_ColorSpaceCalRGB = 5
static final int e_ColorSpaceDeviceCMYK = 3
static final int e_ColorSpaceDeviceGray = 1
static final int e_ColorSpaceDeviceN = 9
static final int e_ColorSpaceDeviceRGB = 2
static final int e_ColorSpaceICCBasedDeviceCMYK = 14
static final int e_ColorSpaceICCBasedDeviceGray = 12
static final int e_ColorSpaceICCBasedDeviceRGB = 13
static final int e_ColorSpaceInvalid = 0
static final int e_ColorSpaceLab = 6
static final int e_ColorSpacePattern = 11
static final int e_ColorSpaceSeparation = 8
```

- Change com.foxit.sdk.pdf.interform.Field.**e_FlagChoiseMultiSelect** to com.foxit.sdk.pdf.interform.Field.**e_FlagChoiceMultiSelect**.
- Add a new callback function (**boolean isCertTrustedRoot (byte[] cert)**) in the TrustedCertStoreCallback class.

Upgrading to version 7.2 from version 7.1

There are no upgrade warnings when moving from version 7.1 to version 7.2. In this release we worked hard to ensure that no modifications to existing code bases would be required when upgrading.

Upgrading to version 7.1 from version 7.0

If you are upgrading from version 7.0 to version 7.1, please take note of the changes that occurred between version 7.0 and version 7.1.

- From 7.1 version, the whole **com.foxit.sdk.addon.ConnectedPDF** class has been removed.
- Some APIs have been changed in version 7.1. Note that the APIs related to ConnectedPDF in the PDFDoc class have also been removed. The following table lists the APIs mapping between version 7.0 and 7.1.

SDK 7.0	SDK 7.1
int com.foxit.sdk.common.Font. getCharset (PDFDoc document)	int com.foxit.sdk.common.Font. getCIDCharset (PDFDoc document)
boolean com.foxit.sdk.pdf.PDFDoc.isCPDF()	Removed
boolean com.foxit.sdk.pdf.PDFDoc.isCDRM()	Removed
String com.foxit.sdk.pdf.PDFDoc.getDocURI()	Removed
String com.foxit.sdk.pdf.PDFDoc.getEndpoint()	Removed

Upgrading to version 7.0 from version 6.4

There are two minor upgrade warnings in this release when moving from version 6.4 to version 7.0:

- The value of **com.foxit.sdk.pdf.Signature.e_StateUnknown** has been changed from 0 to 0x80000000.
- The functions **com.foxit.sdk.pdf.Signature.startVerify** and **com.foxit.sdk.pdf.SignatureCallback.verifySigState** are only used to verify the integrity of a signature instead of the validity of a signature, so that the return value of **verifySigState** in the default signature callback has been changed from "VALID/INVALID" to "NOCHANGE/CHANGE".

Upgrading to version 6.4 from version 6.3

There are two minor upgrade warnings in this release when moving from version 6.3 to version 6.4.

- The function **com.foxit.sdk.common.Renderer.setTransformAnnotIcon** has been deprecated.
- The parameter "**is_transform_icon**" of the function **com.foxit.sdk.pdf.annots.Annot.getDeviceRect** has been deprecated.

Upgrading to version 6.3 from version 6.2.1

There is only one minor upgrade warning in this release when moving from version 6.2.1 to version 6.3. In this release we worked hard to ensure that no modifications to existing code bases would be required when upgrading.

The function name of **com.foxit.sdk.pdf.interform.Field.setDefaultValue** has been changed to **com.foxit.sdk.pdf.interform.Field.SetDefaultValue**.

Upgrading to version 6.2.1 from version 6.2

There is only one upgrade warning in this release when moving from version 6.2 to version 6.2.1. In this release we worked hard to ensure that no modifications to existing code bases would be required when upgrading.

Add a callback interface **WidgetEvent** in **com.foxit.sdk.addon.xfa.DocProviderCallback** class to execute xfa widget event when you create or destroy xfa widget.

Upgrading to version 6.2 from version 6.1.1

There is only one upgrade warning in this release when moving from version 6.1.1 to version 6.2. In this release we worked hard to ensure that no modifications to existing code bases would be required when upgrading.

The return type of `com.foxit.sdk.addon.xfa.XFADoc.exportData` has been changed from **void** to **boolean**.

Upgrading to version 6.1.1 from version 6.1

If you are upgrading from version 6.1 to version 6.1.1, please take note of the changes that occurred between version 6.1 and version 6.1.1.

For the version 6.1.1 release of Foxit PDF SDK for Java, there are two minor changes:

- Add a new class "com.foxit.sdk.common.fxcr.StreamCallback", and change the parameter in the `com.foxit.sdk.common.Image.saveAs` function from "public boolean com.foxit.sdk.common.Image.saveAs(**WriteCallback** file, String file_extension)" to "public boolean com.foxit.sdk.common.Image.saveAs(**StreamCallback** file, String file_extension)".
- Move the following definitions from "com.foxit.sdk.pdf.WatermarkSettings" to "com.foxit.sdk.common.Constants".

```
static final int    e_PosTopLeft = 0
static final int    e_PosTopCenter = 1
static final int    e_PosTopRight = 2
static final int    e_PosCenterLeft = 3
static final int    e_PosCenter = 4
static final int    e_PosCenterRight = 5
static final int    e_PosBottomLeft = 6
static final int    e_PosBottomCenter = 7
```



```
static final int    e_PosBottomRight = 8
```

If you use any of these functions in your code then you may need to update your code to reflect the change when moving to version 6.1.1.

Upgrading to version 6.1 from version 6.0

There are no upgrade warnings when moving from version 6.0 to version 6.1. In this release we worked hard to ensure that no modifications to existing code bases would be required when upgrading.