

Foxit PDF SDK for Java 8.4.2 Upgrade Warnings

This document contains a list of items that developers looking to upgrade to Foxit PDF SDK for Java 8.4.2 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 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)
```

- 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)

Class	SDK 7.3	SDK 7.4
	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.