

# Foxit PDF SDK for .NET Core 10.0 Upgrade

## Warnings

This document contains a list of items that developers looking to upgrade to Foxit PDF SDK for .NET Core 10.0 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 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.

- In foxit.addon.conversion.pdf2office.**PDF2WordSettingData** class:

- add two new properties as below:

```
bool enable_generate_headers_and_footers;  
bool enable_generate_footnotes_and_endnotes;
```

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

SDK 9.2:

```
PDF2WordSettingData(bool enable_retain_page_layout)
```

SDK 10.0:

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

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

SDK 9.2:

```
void Set(bool enable_retain_page_layout)
```

SDK 10.0:

```
void Set(bool enable_retain_page_layout, bool enable_generate_headers_and_footers,  
bool enable_generate_footnotes_and_endnotes)
```

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

1. add two new properties as below:

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

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

SDK 9.2:

```
PDF2OfficeSettingData(string metrics_data_folder_path, bool enable_ml_recognition,  
Range page_range, bool include_pdf_comments, PDF2WordSettingData  
word_setting_data)
```

SDK 10.0:

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

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

SDK 9.2:

```
void Set(string metrics_data_folder_path, bool enable_ml_recognition, Range page_range,  
bool include_pdf_comments, PDF2WordSettingData word_setting_data)
```

SDK 10.0:

```
void Set(string metrics_data_folder_path, bool enable_ml_recognition, Range page_range,  
bool 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 foxit.addon.conversion.pdf2office.**PDF2OfficeSettingData** class:

1. add three new properties as below:

```
Range page_range;  
bool include_pdf_comments;  
PDF2WordSettingData word_setting_data;
```

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

SDK 9.1:

```
PDF2OfficeSettingData (string metrics_data_folder_path, bool enable_ml_recognition)
```

SDK 9.2:

```
PDF2OfficeSettingData (string metrics_data_folder_path, bool enable_ml_recognition,  
Range page_range, bool include_pdf_comments, PDF2WordSettingData  
word_setting_data)
```

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

SDK 9.1:

```
void Set (string metrics_data_folder_path, bool enable_ml_recognition)
```

SDK 9.2:

```
void Set (string metrics_data_folder_path, bool enable_ml_recognition, Range  
page_range, bool include_pdf_comments, PDF2WordSettingData word_setting_data)
```

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

```
virtual void EnablePageLoop(bool is_loop)  
virtual bool IsPageLoop()  
virtual void SetDefaultPageTransitionMode(string trans_type, string trans_di)  
virtual bool IsCurrentDocOpenedInBrowser()  
virtual 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.

- Remove the reference to **System.Drawing.Common**.
- 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 foxit.pdf.actions.**ActionCallback** class:
  1. add a new callback function as below:

```
virtual SOAPResponseInfo SoapRequest (SOAPRequestProperties request_params)
```

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

SDK 9.0:

```
virtual bool OpenDoc (string file_path, string password)
```

SDK 9.1:

```
virtual 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 foxit.pdf.actions.**ActionCallback** class:
  1. add four new callback functions as below:

```
virtual void Query (string keywords, ActionCallback.SearchScope search_scope,
SearchOption search_option, string di_path)

virtual SearchIndexConfig AddSearchIndex (string di_path, bool is_selected)

virtual bool RemoveSearchIndex (SearchIndexConfig search_index_config)

virtual WStringArray GetSignatureAPStyleNameList ()
```

- the function **SelectPageNthWord** has been changed as below:

SDK 8.4.2:

```
virtual void SelectPageNthWord (int page_index, int word_index, bool is_show_selection)
```

SDK 9.0:

```
virtual void SelectPageNthWord (int page_index, int start_offset, int end_offset, bool
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 **foxit.addon** to **foxit.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.

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

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

```
virtual void SetCurrentPage(PDFDoc document, Destination destination)
virtual void CloseDoc(PDFDoc document, bool is_prompt_to_save)
virtual bool IsLocalFile(PDFDoc document)
virtual string GetAttachmentsFilePath(PDFDoc pdf_doc, string name)
virtual string GetExtractedEmbeddedFilePath(PDFDoc pdf_doc, string name)
virtual bool Print(PDFDoc document, PrintParams print_params)
virtual string GetUntitledBookmarkName()
virtual WStringArray GetPrinterNameList()
virtual bool AddToolButton(ButtonItem button_item)
virtual bool RemoveToolButton(string button_name)
virtual MenuListArray GetMenuItemNameList()
virtual bool AddMenuItem(MenuItemConfig menu_item_config, bool is_prepend)
virtual bool AddSubMenu(MenuItemConfig menu_item_config)
virtual bool ShowDialog(DialogDescriptionConfig dlg_config)
virtual bool GetFullScreen()
virtual void SetFullScreen(bool is_full_screen)
virtual void OnFieldValueChanged(string field_name,
ActionCallback.JsFieldValueChangeType type, WStringArray value_before_changed,
WStringArray value_after_changed)
virtual void UpdateLogicalLabel()
virtual ActionCallback.JsMailResult MailDoc(PDFDoc document, string to_address, string
cc_address, string bcc_address, string subject, string message, bool is_ui)
virtual string GetTemporaryFileName(PDFDoc document, string file_suffix_name)
virtual MediaPlayerCallback OpenMediaPlayer(PlayerArgs player_args)
virtual string GetTemporaryDirectory()
virtual void Scroll(PointF point)
virtual void SelectPageNthWord(int page_index, int word_index, bool is_show_selection)
virtual PointF GetMousePosition()
```

```
virtual RectF GetPageWindowRect()
virtual ActionCallback.LayoutMode GetLayoutMode()
virtual void SetLayoutMode(ActionCallback.LayoutMode layout_mode, bool
is_cover_mode)
virtual float GetPageScale()
virtual void SetPageScale(Destination.ZoomMode zoom_mode, Destination dest)
virtual Destination.ZoomMode GetPageZoomMode()
```

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

SDK 8.3:

```
bool Transform(Matrix2D matrix, bool need_transform_clip_path )
```

SDK 8.4:

```
bool Transform(Matrix2D matrix, bool need_transform_clip_path, bool
need_transform_annotations)
```

- In foxit.pdf.**annots** namespace:
  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 foxit.pdf.annots.**FreeText** class, the following two functions have been deprecated:

```
Alignment GetAlignment ()
void SetAlignment (Alignment alignment)
```

- In foxit.pdf.actions.**ActionCallback** class:
  1. the function **PopupMenu** has added a new parameter as below:

SDK 8.2:

```
virtual string PopupMenu (MenuListArray menus)
```

SDK 8.3:

```
virtual string PopupMenu (MenuListArray menus, ref bool is_selected_item)
```

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

SDK 8.2:

```
virtual bool SubmitForm (PDFDoc document, global::System.IntPtr form_data, int length,  
string url)
```

SDK 8.3:

```
virtual bool SubmitForm (PDFDoc document, global::System.IntPtr form_data, int length,  
string url, FileFormatType file_format_type)
```

- add a new callback function as below:

```
virtual MenuItemEx PopupMenuEx (MenuItemExArray menus, ref bool is_selected_item)
```

- In foxit.addon.conversion.**HTML2PDFSettingData** class,

- the constructor function of **HTML2PDFSettingData** has added new parameters as below:

SDK 8.2:

```
HTML2PDFSettingData (float page_width, float page_height, bool is_to_page_scale, RectF  
page_margin, bool is_convert_link, Rotation rotate_degrees, bool is_generate_tag,  
HTML2PDFSettingData.HTML2PDFPageMode page_mode, bool to_generate_bookmarks,  
HTML2PDFSettingData.HTML2PDFScalingMode scaling_mode)
```

SDK 8.3:

```
HTML2PDFSettingData (float page_width, float page_height, bool is_to_page_scale, RectF  
page_margin, bool is_convert_link, Rotation rotate_degrees, bool is_generate_tag,  
HTML2PDFSettingData.HTML2PDFPageMode page_mode, bool to_generate_bookmarks,  
HTML2PDFSettingData.HTML2PDFScalingMode scaling_mode,  
HTML2PDFSettingData.HTML2PDFEncodingFormat encoding_format, bool  
to_render_images, bool to_remove_underline_for_link, bool to_set_headerfooter,  
string headerfooter_title, string headerfooter_url, string bookmark_root_name, bool  
to_resize_objects, bool to_print_background, bool to_optimize_tag_tree,  
HTML2PDFSettingData.HTML2PDFMediaStyle media_style)
```

- the function **Set** has added new parameters as below:

SDK 8.2:

```
void Set (float page_width, float page_height, bool is_to_page_scale, RectF page_margin,  
bool is_convert_link, Rotation rotate_degrees, bool is_generate_tag,
```



```
HTML2PDFSettingData.HTML2PDFPageMode page_mode, bool to_generate_bookmarks,  
HTML2PDFSettingData.HTML2PDFScalingMode scaling_mode)
```

SDK 8.3:

```
void Set (float page_width, float page_height, bool is_to_page_scale, RectF page_margin,  
bool is_convert_link, Rotation rotate_degrees, bool is_generate_tag,  
HTML2PDFSettingData.HTML2PDFPageMode page_mode, bool to_generate_bookmarks,  
HTML2PDFSettingData.HTML2PDFScalingMode scaling_mode,  
HTML2PDFSettingData.HTML2PDFEncodingFormat encoding_format, bool  
to_render_images, bool to_remove_underline_for_link, bool to_set_headerfooter,  
string headerfooter_title, string headerfooter_url, string bookmark_root_name, bool  
to_resize_objects, bool to_print_background, bool to_optimize_tag_tree,  
HTML2PDFSettingData.HTML2PDFMediaStyle 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 foxit.pdf.interform.**FillerAssistCallback** class, add a new callback function as below:

```
virtual void ReportInvalidValue (string form_field_name, string invalid_value)
```

- In foxit.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, bool is_to_page_scale, RectF  
page_margin, bool is_convert_link, Rotation rotate_degrees, bool is_generate_tag,  
HTML2PDFSettingData.HTML2PDFPageMode page_mode, bool to_generate_bookmarks)
```

SDK 8.2:

```
HTML2PDFSettingData (float page_width, float page_height, bool is_to_page_scale, RectF  
page_margin, bool is_convert_link, Rotation rotate_degrees, bool is_generate_tag,
```

```
HTML2PDFSettingData.HTML2PDFPageMode page_mode, bool to_generate_bookmarks,  
HTML2PDFSettingData.HTML2PDFScalingMode scaling_mode)
```

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

SDK 8.1:

```
void Set (float page_width, float page_height, bool is_to_page_scale, RectF page_margin,  
bool is_convert_link, Rotation rotate_degrees, bool is_generate_tag,  
HTML2PDFSettingData.HTML2PDFPageMode page_mode, bool to_generate_bookmarks)
```

SDK 8.2:

```
void Set (float page_width, float page_height, bool is_to_page_scale, RectF page_margin,  
bool is_convert_link, Rotation rotate_degrees, bool is_generate_tag,  
HTML2PDFSettingData.HTML2PDFPageMode page_mode, bool to_generate_bookmarks,  
HTML2PDFSettingData.HTML2PDFScalingMode 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 foxit.pdf.interform.**FillerAssistCallback** class, add seven callback functions as below:

```
virtual global::System.IntPtr CreatePopupMenu ()  
virtual bool AppendPopupMenuitem (global::System.IntPtr h_popup_menu,  
FillerAssistCallback.PopupMenuitem popup_menu_item, string default_string)  
virtual bool EnablePopupMenuitem (global::System.IntPtr h_popup_menu,  
FillerAssistCallback.PopupMenuitem popup_menu_item, bool is_enabled)  
virtual bool ShowPopupMenu (global::System.IntPtr h_popup_menu, PointF point)  
virtual void DestroyPopupMenu (global::System.IntPtr h_popup_menu)  
virtual void SetClipboardText (string text)  
virtual string GetClipboardText ()
```

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

- add four properties as below:

```
string department[get, set]  
string first_name[get, set]  
string last_name[get, set]
```

```
string title[get, set]
```

- 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 `foxit.pdf.actions.ActionCallback` class, add a new callback function as below:

```
virtual bool 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 **foxit.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, bool is_to_page_scale, RectF page_margin, bool is_convert_link, Rotation rotate_degrees, bool is_generate_tag, HTML2PDFSettingData.HTML2PDFPageMode page_mode)
```

SDK 8.0:

```
HTML2PDFSettingData (float page_width, float page_height, bool is_to_page_scale, RectF page_margin, bool is_convert_link, Rotation rotate_degrees, bool is_generate_tag, HTML2PDFSettingData.HTML2PDFPageMode page_mode, bool to_generate_bookmarks)
```

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

SDK 7.6:

```
Signature AddSignature (RectF rect, string field_name, Signature.SignatureType
signature_type)
```

SDK 8.0:

```
Signature AddSignature (RectF rect, string field_name, Signature.SignatureType signature_type,
bool 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 **foxit.pdf.actions.ActionCallback** class, add a new callback interface as below:
- ```
public virtual string BrowseFile(bool is_open_dialog, string file_format, string file_filter)
```
- In **foxit.pdf.LTVVerifier** class, remove the value (**e\_VerifyModeETSI**) of the enumeration **LTVVerifier.VerifyMode**.

## 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, int text_color, PageNumberRange page_range, RectF
page_margin, bool has_text_shrunked,
bool has_fixedsize_for_print, int start_page_number, HeaderFooterContent content)
```

SDK 7.5:

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

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

SDK 7.4:

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

SDK 7.5:

```
void Set(Font font, float text_size, int text_color, PageNumberRange page_range, RectF
page_margin, bool has_text_shrunked, bool has_fixedsize_for_print, int start_page_number,
HeaderFooterContent content, bool is_to_embed_font, bool 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.

- The value (**e\_ImageCompressjpeg2**) of the enumeration class foxit.addon.optimization.MonolImageSettings.**MonolImageCompressMode** has been renamed to **e\_ImageCompressjbig2**.

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

The functions below have been removed from version 7.4:

```
public int GetStateAnnotCount(Markup.StateModel model)
public Note GetStateAnnot(Markup.StateModel model, int index)
```

And then add a new function as below:

```
public NoteArray GetStateAnnots(Markup.StateModel model)
```

- In foxit.pdf.actions.**ActionCallback** class, add three callback functions as below:

```
public virtual PDFDoc GetCurrentDoc()
public virtual PDFDoc CreateBlankDoc()
public virtual bool 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                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| foxit.addon.conversion. <b>Word2PDFSettingData</b><br>(only for Windows platform) | public Word2PDFSettingData(bool include_doc_props, <b>bool convert_to_pdfa</b> , Word2PDFSettingData.ConvertOptimizeOption optimize_option, Word2PDFSettingData.ConvertContentOption content_option, Word2PDFSettingData.ConvertBookmarkOption bookmark_option) | public Word2PDFSettingData(bool include_doc_props, Word2PDFSettingData.ConvertOptimizeOption optimize_option, Word2PDFSettingData.ConvertContentOption content_option, Word2PDFSettingData.ConvertBookmarkOption bookmark_option, <b>bool convert_to_pdfa</b> ) |

| Class                                                                              | SDK 7.3                                                                                                                                                                                                                                              | SDK 7.4                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                    | public void Set(bool include_doc_props, <b>bool convert_to_pdfa</b> , Word2PDFSettingData.ConvertOptimizeOption optimize_option, Word2PDFSettingData.ConvertContentOption content_option, Word2PDFSettingData.ConvertBookmarkOption bookmark_option) | public void Set(bool include_doc_props, Word2PDFSettingData.ConvertOptimizeOption optimize_option, Word2PDFSettingData.ConvertContentOption content_option, Word2PDFSettingData.ConvertBookmarkOption bookmark_option, <b>bool convert_to_pdfa</b> ) |
| foxit.addon.conversion. <b>Excel2PDFSettingData</b><br>(only for Windows platform) | public Excel2PDFSettingData(bool include_doc_props, <b>bool convert_to_pdfa</b> , Excel2PDFSettingData.ConvertQuality quality, bool ignore_print_area, Excel2PDFSettingData.ScaleType scale_type)                                                    | public Excel2PDFSettingData(bool include_doc_props, Excel2PDFSettingData.ConvertQuality quality, bool ignore_print_area, Excel2PDFSettingData.ScaleType scale_type, <b>bool convert_to_pdfa</b> )                                                    |
|                                                                                    | public void Set(bool include_doc_props, <b>bool convert_to_pdfa</b> , Excel2PDFSettingData.ConvertQuality quality, bool ignore_print_area, Excel2PDFSettingData.ScaleType scale_type)                                                                | public void Set(bool include_doc_props, Excel2PDFSettingData.ConvertQuality quality, bool ignore_print_area, Excel2PDFSettingData.ScaleType scale_type, <b>bool convert_to_pdfa</b> )                                                                |
| foxit.pdf.annots. <b>Markup</b>                                                    | public Note AddStateAnnot(Markup.StateModel model, Markup.State state)                                                                                                                                                                               | public Note AddStateAnnot( <b>string title</b> , Markup.StateModel model, Markup.State state)                                                                                                                                                        |
| foxit.pdf. <b>TextSearch</b>                                                       | public TextSearch(foxit.pdf.PDFDoc document, SearchCancelCallback cancel)                                                                                                                                                                            | public TextSearch(foxit.pdf.PDFDoc document, SearchCancelCallback cancel, <b>int flags</b> )                                                                                                                                                         |
| foxit.pdf.annots. <b>FreeText</b>                                                  | void SetTextMatrix(Matrix2D text_matrix)                                                                                                                                                                                                             | deprecated                                                                                                                                                                                                                                           |
|                                                                                    | Matrix2D GetTextMatrix()                                                                                                                                                                                                                             | deprecated                                                                                                                                                                                                                                           |

## Upgrading to version 7.3 from version 7.2

There are some minor upgrade warnings in this release when moving from version 7.2 to version 7.3:

- The enumeration **foxit.pdf.graphics.ImageObject.ColorSpace** has been changed to **foxit.common.ColorSpaceType**.
- The enumeration foxit.pdf.interform.Field.Flags.**e\_FlagChoiseMultiSelect** has been changed to foxit.pdf.interform.Field.Flags.**e\_FlagChoiceMultiSelect**.
- The TrustedCertStoreCallback class adds a new callback function (**virtual bool IsCertTrustedRoot (byte[] cert)**).

## Upgrading to version 7.2 from version 7.1

If you are upgrading from version 7.1 to version 7.2, please take note of the changes that occurred between version 7.1 and version 7.2.

The parameter type "**int**" of the function

**foxit.addon.optimization.ImageSettings.SetQuality** has been changed to

**"ImageSettings.ImageCompressQuality"** as shown in the below table:

| Class         | SDK 7.0                                     | SDK 7.1                                                                        |
|---------------|---------------------------------------------|--------------------------------------------------------------------------------|
| ImageSettings | Public void SetQuality( <b>int</b> quality) | Public void SetQuality<br>( <b>ImageSettings.ImageCompressQuality</b> quality) |

The parameter type "**string**" of some APIs have been changed to "**byte[]**", which are listed in the following table.

| Class                    | SDK 7.0                                                                                                   | SDK 7.1                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| CertIssuerPair           | public CertIssuerPair( <b>string</b> cert, <b>string</b> issuer)                                          | public CertIssuerPair( <b>byte[]</b> cert, <b>byte[]</b> issuer)                                          |
|                          | public void Set( <b>string</b> cert, <b>string</b> issuer)                                                | public void Set( <b>byte[]</b> cert, <b>byte[]</b> issuer)                                                |
| CertVerifyResult         | public CertVerifyResult( <b>string</b> cert, bool is_ca, bool is_trusted,...)                             | public CertVerifyResult( <b>byte[]</b> cert, bool is_ca, bool is_trusted,...)                             |
|                          | public void Set( <b>string</b> cert, bool is_ca, bool is_trusted,...)                                     | public void Set( <b>byte[]</b> cert, bool is_ca, bool is_trusted,...)                                     |
| Response                 | public Response(Response.ResponseType type, <b>string</b> response_data)                                  | public Response(Response.ResponseType type, <b>byte[]</b> response_data)                                  |
|                          | public void Set(Response.ResponseType type, <b>string</b> response_data)                                  | public void Set(Response.ResponseType type, <b>byte[]</b> response_data)                                  |
| TrustedCertStoreCallback | public virtual bool IsCertTrusted( <b>string</b> cert)                                                    | public virtual bool IsCertTrusted( <b>byte[]</b> cert)                                                    |
| RevocationCallback       | public virtual StringArray GetCertChainFromSignature( <b>string</b> signature_content)                    | public virtual StringArray GetCertChainFromSignature( <b>byte[]</b> signature_content)                    |
|                          | public virtual CertVerifyResult VerifyOCSP(CertIssuerPair cert_issuer_pair, <b>string</b> ocp_data)       | public virtual CertVerifyResult VerifyOCSP(CertIssuerPair cert_issuer_pair, <b>byte[]</b> ocp_data)       |
|                          | public virtual CertVerifyResult VerifyCRL(CertIssuerPair cert_issuer_pair, <b>string</b> crl_data)        | public virtual CertVerifyResult VerifyCRL(CertIssuerPair cert_issuer_pair, <b>byte[]</b> crl_data)        |
|                          | public virtual bool IsCA( <b>string</b> cert)                                                             | public virtual bool IsCA( <b>byte[]</b> cert)                                                             |
|                          | public virtual DateTime GetDTSTime( <b>string</b> signature_content)                                      | public virtual DateTime GetDTSTime( <b>byte[]</b> signature_content)                                      |
|                          | public virtual string GetTSTSignature( <b>string</b> signature_content)                                   | public virtual string GetTSTSignature( <b>byte[]</b> signature_content)                                   |
|                          | public virtual DateTime GetTSTTime( <b>string</b> signature_content)                                      | public virtual DateTime GetTSTTime( <b>byte[]</b> signature_content)                                      |
|                          | public virtual CertIssuerPair GetOCSPCertAndIssuer( <b>string</b> ocp_data, StringArray trust_cert_chain) | public virtual CertIssuerPair GetOCSPCertAndIssuer( <b>byte[]</b> ocp_data, StringArray trust_cert_chain) |

| Class | SDK 7.0                                                                                                               | SDK 7.1                                                                                                       |
|-------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|       | public virtual DateTime<br>GetOCSPProducedAtTime( <b>string</b><br>ocsp_data)                                         | public virtual DateTime<br>GetOCSPProducedAtTime( <b>byte[]</b> ocsp_data)                                    |
|       | public virtual bool<br>IsOCSPNeedCheck( <b>string</b> ocsp_data)                                                      | public virtual bool IsOCSPNeedCheck( <b>byte[]</b><br>ocsp_data)                                              |
|       | public virtual TimeRange<br>GetCertValidTimeRange( <b>string</b> cert)                                                | public virtual TimeRange<br>GetCertValidTimeRange( <b>byte[]</b> cert)                                        |
|       | public virtual string<br>GetOCSPSignature( <b>string</b> ocsp_data)                                                   | public virtual string<br>GetOCSPSignature( <b>byte[]</b> ocsp_data)                                           |
|       | public virtual string<br>GetCRLSignature( <b>string</b> crl_data)                                                     | public virtual string GetCRLSignature( <b>byte[]</b><br>crl_data)                                             |
|       | public virtual RevocationArrayInfo<br>GetRevocationInfoFromSignatureData( <b>stri</b><br><b>ng</b> signature_content) | public virtual RevocationArrayInfo<br>GetRevocationInfoFromSignatureData( <b>byte[]</b><br>signature_content) |

## 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 **foxit.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                                                                                                       |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Charset</b><br>foxit.common.Font. <b>GetCharset</b> (PDFDoc<br>document )                         | <b>CIDCharset</b> foxit.common.Font. <b>GetCIDCharset</b> (PDFDoc<br>document)                                |
| void foxit.pdf.annots.Line.SetMeasureUnit( <b>int</b><br>measure_type, string unit)                  | void foxit.pdf.annots.Line.SetMeasureUnit( <b>MeasureType</b><br>measure_type, string unit)                   |
| string foxit.pdf.annots.Line.GetMeasureUnit( <b>int</b><br>measure_type)                             | string<br>foxit.pdf.annots.Line.GetMeasureUnit( <b>MeasureType</b><br>measure_type)                           |
| void<br>foxit.pdf.annots.Line.SetMeasureConversionFac<br>tor( <b>int</b> measure_type, float factor) | void<br>foxit.pdf.annots.Line.SetMeasureConversionFactor( <b>Meas<br/>ureType</b> measure_type, float factor) |
| float<br>foxit.pdf.annots.Line.GetMeasureConversionFa<br>ctor( <b>int</b> measure_type)              | float<br>foxit.pdf.annots.Line.GetMeasureConversionFactor( <b>Meas<br/>ureType</b> measure_type)              |
| bool foxit.pdf.PDFDoc.IsCPDF()                                                                       | Removed                                                                                                       |
| bool foxit.pdf.PDFDoc.IsCDRM()                                                                       | Removed                                                                                                       |
| string foxit.pdf.PDFDoc.GetDocURI()                                                                  | Removed                                                                                                       |
| string foxit.pdf.PDFDoc.GetEndpoint()                                                                | Removed                                                                                                       |