

Foxit PDF SDK for .NET Core 8.4 Upgrade Warnings

This document contains a list of items that developers looking to upgrade to Foxit PDF SDK for .NET Core 8.4 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 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:

2. 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)
```

3. 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)
```

4. add a new callback function as below:

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

- In foxit.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, 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)
```

2. 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:

1. add four properties as below:

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

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 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. Word2PDFSettingData (only for Windows platform)	public Word2PDFSettingData(bool include_doc_props, bool convert_to_pdfa , 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, bool convert_to_pdfa)
	public void Set(bool include_doc_props, bool convert_to_pdfa , 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, bool convert_to_pdfa)
foxit.addon.conversion. Excel2PDFSettingData (only for Windows platform)	public Excel2PDFSettingData(bool include_doc_props, bool convert_to_pdfa , 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, bool convert_to_pdfa)
	public void Set(bool include_doc_props, bool convert_to_pdfa , 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, bool convert_to_pdfa)
foxit.pdf.annots. Markup	public Note AddStateAnnot(Markup.StateModel model, Markup.State state)	public Note AddStateAnnot(string title , Markup.StateModel model, Markup.State state)
foxit.pdf. TextSearch	public TextSearch(foxit.pdf.PDFDoc document, SearchCancelCallback cancel)	public TextSearch(foxit.pdf.PDFDoc document, SearchCancelCallback cancel, int flags)
foxit.pdf.annots. FreeText	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(int quality)	Public void SetQuality (ImageSettings.ImageCompressQuality 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(string cert, string issuer)	public CertIssuerPair(byte[] cert, byte[] issuer)
	public void Set(string cert, string issuer)	public void Set(byte[] cert, byte[] issuer)
CertVerifyResult	public CertVerifyResult(string cert, bool is_ca, bool is_trusted,...)	public CertVerifyResult(byte[] cert, bool is_ca, bool is_trusted,...)
	public void Set(string cert, bool is_ca, bool is_trusted,...)	public void Set(byte[] cert, bool is_ca, bool is_trusted,...)
Response	public Response(Response.ResponseType type, string response_data)	public Response(Response.ResponseType type, byte[] response_data)
	public void Set(Response.ResponseType type, string response_data)	public void Set(Response.ResponseType type, byte[] response_data)
TrustedCertStoreCallback	public virtual bool IsCertTrusted(string cert)	public virtual bool IsCertTrusted(byte[] cert)
RevocationCallback	public virtual StringArray GetCertChainFromSignature(string signature_content)	public virtual StringArray GetCertChainFromSignature(byte[] signature_content)
	public virtual CertVerifyResult VerifyOCSP(CertIssuerPair cert_issuer_pair, string ocs_data)	public virtual CertVerifyResult VerifyOCSP(CertIssuerPair cert_issuer_pair, byte[] ocs_data)

Class	SDK 7.0	SDK 7.1
	public virtual CertVerifyResult VerifyCRL(CertIssuerPair cert_issuer_pair, string crl_data)	public virtual CertVerifyResult VerifyCRL(CertIssuerPair cert_issuer_pair, byte[] crl_data)
	public virtual bool IsCA(string cert)	public virtual bool IsCA(byte[] cert)
	public virtual DateTime GetDTSTime(string signature_content)	public virtual DateTime GetDTSTime(byte[] signature_content)
	public virtual string GetTSTSignature(string signature_content)	public virtual string GetTSTSignature(byte[] signature_content)
	public virtual DateTime GetTSTTime(string signature_content)	public virtual DateTime GetTSTTime(byte[] signature_content)
	public virtual CertIssuerPair GetOCSPCertAndIssuer(string ocs_data, StringArray trust_cert_chain)	public virtual CertIssuerPair GetOCSPCertAndIssuer(byte[] ocs_data, StringArray trust_cert_chain)
	public virtual DateTime GetOCSPProducedAtTime(string ocs_data)	public virtual DateTime GetOCSPProducedAtTime(byte[] ocs_data)
	public virtual bool IsOCSPNeedCheck(string ocs_data)	public virtual bool IsOCSPNeedCheck(byte[] ocs_data)
	public virtual TimeRange GetCertValidTimeRange(string cert)	public virtual TimeRange GetCertValidTimeRange(byte[] cert)
	public virtual string GetOCSPSignature(string ocs_data)	public virtual string GetOCSPSignature(byte[] ocs_data)
	public virtual string GetCRLSignature(string crl_data)	public virtual string GetCRLSignature(byte[] crl_data)
	public virtual RevocationArrayInfo GetRevocationInfoFromSignatureData(string signature_content)	public virtual RevocationArrayInfo GetRevocationInfoFromSignatureData(byte[] 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
Charset foxit.common.Font. GetCharset (PDFDoc document)	CIDCharset foxit.common.Font. GetCIDCharset (PDFDoc document)
void foxit.pdf.annots.Line.SetMeasureUnit(int measure_type, string unit)	void foxit.pdf.annots.Line.SetMeasureUnit(MeasureType measure_type, string unit)
string foxit.pdf.annots.Line.GetMeasureUnit(int measure_type)	string foxit.pdf.annots.Line.GetMeasureUnit(MeasureType measure_type)

SDK 7.0	SDK 7.1
void foxit.pdf.annots.Line.SetMeasureConversionFactor(int measure_type, float factor)	void foxit.pdf.annots.Line.SetMeasureConversionFactor(MeasureType measure_type, float factor)
float foxit.pdf.annots.Line.GetMeasureConversionFactor(int measure_type)	float foxit.pdf.annots.Line.GetMeasureConversionFactor(MeasureType 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