

Foxit PDF SDK for iOS 9.1 Upgrade Warnings

This document contains a list of items that developers looking to upgrade to Foxit PDF SDK for iOS 9.1 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 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.

- The following three classes have been removed from version 9.1:

```
FSPSinkPointdataArray  
FSPSinkPointData  
FSPSinkData
```

- Some APIs have been changed in version 9.1. The following table lists the APIs mapping between version 9.0 and 9.1.

Class(.java)	SDK 9.0	SDK 9.1
FSPDFPage	-(FSRectF*)addText: (NSString *)text rect: (FSRectF*)rect style: (FSRichTextStyle*)style rotation: (FSRotation)rotation;	-(FSRectF*)addText: (NSString *)text rect: (FSRectF*)rect style: (FSRichTextStyle*)style rotation: (int)rotation rotate_point: (FSRotationPointOptions)rotate_point disable_embed_font: (BOOL)disable_embed_font;
	-(void)set: (FSFont*)font text_size: (float)text_size text_alignment: (FSAlignment)text_alignment text_color: (unsigned int)text_color is_bold: (BOOL)is_bold is_italic: (BOOL)is_italic is_underline: (BOOL)is_underline is_strikethrough: (BOOL)is_strikethrough mark_style: (FSRichTextStyleCornerMarkStyle)mark_style;	-(void)set: (FSFont*)font text_size: (float)text_size text_alignment: (FSAlignment)text_alignment text_color: (unsigned int)text_color is_bold: (BOOL)is_bold is_italic: (BOOL)is_italic is_underline: (BOOL)is_underline is_strikethrough: (BOOL)is_strikethrough mark_style: (FSRichTextStyleCornerMarkStyle)mark_style char_space: (float)char_space word_space: (float)word_space;
FSSignature	-(FSProgressive*)startSignBySignArray: (NSString *)cert_path cert_password: (NSString *)cert_password digest_algorithm: (FSSignatureDigestAlgorithm)digest_algorithm signature_array: (FSSignatureArray*)signature_array save_path: (NSString *)save_path client_data: (NSData *)client_data pause: (id<FSPauseCallback>)pause;	removed

Class(.java)	SDK 9.0	SDK 9.1
	- (FSPProgressive*)startSignBySignArrayAdditio nalDict: (NSString *)cert_path cert_password: (NSString *)cert_password digest_algorithm: (FSSignatureDigestAlgorithm)digest_algorith m signature_array: (FSSignatureArray*)signature_array additional_dict: (FSPDFDictionary*)additional_dict save_path: (NSString *)save_path client_data: (NSData *)client_data pause: (id<FSPauseCallback>)pause;	removed
FSTiledWatermarkSettings	-(id)initWithRow_space: (float)row_space col_space: (float)col_space rotation: (float)rotation opacity: (int)opacity scale: (int)scale;	-(id)initWithRow_space: (float)row_space col_space: (float)col_space rotation: (float)rotation opacity: (int)opacity scale: (int)scale flags: (unsigned int)flags;
	-(void)set: (float)row_space col_space: (float)col_space rotation: (float)rotation opacity: (int)opacity scale: (int)scale;	-(void)set: (float)row_space col_space: (float)col_space rotation: (float)rotation opacity: (int)opacity scale: (int)scale flags: (unsigned int)flags;
FSRichTextStyle	-(id)initWithFont: (FSFont*)font text_size: (float)text_size text_alignment: (FSAlignment)text_alignment text_color: (unsigned int)text_color is_bold: (BOOL)is_bold is_italic: (BOOL)is_italic is_underline: (BOOL)is_underline is_strikethrough: (BOOL)is_strikethrough mark_style: (FSRichTextStyleCornerMarkStyle)mark_style;	-(id)initWithFont: (FSFont*)font text_size: (float)text_size text_alignment: (FSAlignment)text_alignment text_color: (unsigned int)text_color is_bold: (BOOL)is_bold is_italic: (BOOL)is_italic is_underline: (BOOL)is_underline is_strikethrough: (BOOL)is_strikethrough mark_style: (FSRichTextStyleCornerMarkStyle)mark_style char_space: (float)char_space word_space: (float)word_space;
	-(void)set: (FSFont*)font text_size: (float)text_size text_alignment: (FSAlignment)text_alignment text_color: (unsigned int)text_color is_bold: (BOOL)is_bold is_italic: (BOOL)is_italic is_underline: (BOOL)is_underline is_strikethrough: (BOOL)is_strikethrough mark_style: (FSRichTextStyleCornerMarkStyle)mark_style;	-(void)set: (FSFont*)font text_size: (float)text_size text_alignment: (FSAlignment)text_alignment text_color: (unsigned int)text_color is_bold: (BOOL)is_bold is_italic: (BOOL)is_italic is_underline: (BOOL)is_underline is_strikethrough: (BOOL)is_strikethrough mark_style: (FSRichTextStyleCornerMarkStyle)mark_style char_space: (float)char_space word_space: (float)word_space;

Upgrading to version 9.0 from version 8.4

If you are upgrading from version 8.4 to version 9.0, please take note of the changes that occurred between version 8.4 and version 9.0.

In the **FSPDFViewCtrl** class, the parameters of **refresh** function have been changed:

SDK 8.4:

- (void)refresh:(CGRect)rect pageIndex:(int)pageIndex needRender:(BOOL)needRender
pageContentChange:(BOOL)pageContentChange;

SDK 9.0:

- (void)refresh:(CGRect)rect pageIndex:(int)pageIndex needRender:(BOOL)needRender
clearCache:(BOOL)clearCache;

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.

- From 8.4 version, the **FSPagingSeal** class has been removed.
- Some attributes or APIs have been changed in version 8.4. The following table lists the changes between version 8.3 and 8.4.

Class	SDK 8.3	SDK 8.4
UIExtensionsManager	+(void)printDoc:(FSPDFDoc*)doc animated:(BOOL)animated jobName:(nullable NSString*)jobName delegate:(nullable id<UIPrintInteractionControllerDelegate>)delegate completionHandler:(nullable UIPrintInteractionCompletionHandler)completion;	+(void)printDoc:(FSPDFDoc *)doc animated:(BOOL)animated inWindow:(UIWindow *)window jobName:(nullable NSString *)jobName delegate:(nullable id<UIPrintInteractionControllerDelegate>)delegate completionHandler:(nullable UIPrintInteractionCompletionHandler)c ompletion;
	+ (void)printDoc:(FSPDFDoc *)doc fromRect:(CGRect)rect inView:(UIView *)view animated:(BOOL)animated jobName:(nullable NSString*)jobName delegate:(nullable id<UIPrintInteractionControllerDelegate>)delegate completionHandler:(nullable UIPrintInteractionCompletionHandler)completion;	+ (void)printDoc:(FSPDFDoc *)doc fromRect:(CGRect)rect inView:(UIView *)view animated:(BOOL)animated inWindow:(UIWindow *)window jobName:(nullable NSString *)jobName delegate:(nullable id<UIPrintInteractionControllerDelegate>)delegate completionHandler:(nullable UIPrintInteractionCompletionHandler)c ompletion;
FSBarcode	-(FSBitmap*)generateBitmap: (NSString*)info format: (FSBarcodeFormat)format unit_width: (int)unit_width unit_height: (int)unit_height	-(FSBitmap*)generateBitmap: (NSString*)info format: (FSBarcodeFormat)format unit_width: (int)unit_width height: (int)height

Class	SDK 8.3	SDK 8.4
	level: (FSBarcodeQRErrorCorrectionLevel)level;	level: (FSBarcodeQRErrorCorrectionLevel)level;
FSPDFPage	-(BOOL)transform: (FSMatrix2D*)matrix need_transform_clip_path: (BOOL)need_transform_clip_path;	-(BOOL)transform: (FSMatrix2D*)matrix need_transform_clip_path: (BOOL)need_transform_clip_path need_transform_annotations: (BOOL)need_transform_annotations;
FSAnnotType	FSAnnotPagingSeal = 29	removed

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.

- The **FSAnnotPermissionDelegate** Protocol has been renamed to **FSAnnotsPermissionDelegate**, and the following two methods have been changed:

Class	SDK 8.2	SDK 8.3
UIExtensionsManager	@property (nonatomic, weak) id<FSAnnotPermissionDelegate>	@property (nonatomic, weak) id<FSAnnotsPermissionDelegate>
FSPDFViewCtrl	+(BOOL)handleADALResponse:(nonnull NSURL *)response sourceApplication:(nullable NSString *)sourceApplication;	+((BOOL)handleMSALResponse:(nonnull NSURL *)response sourceApplication:(nullable NSString *)sourceApplication;

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.

- The enumeration class **FSUIManagerStatePageNavigate** has been removed from version 8.2.
- Some APIs have been changed in version 8.2. The following table lists the changes between version 8.1 and 8.2.

Class	SDK 8.1	SDK 8.2
FSTableOfContentsConfig	-(id)initWithTitle: (NSString *)title bookmark_level_array: (FSInt32Array*)bookmark_level_array is_show_serial_number: (BOOL)is_show_serial_number;	-(id)initWithTitle: (NSString *)title bookmark_level_array: (FSInt32Array*)bookmark_level_array is_show_serial_number: (BOOL)is_show_serial_number include_toc_pages: (BOOL) include_toc_pages;
	-(void)set: (NSString *)title bookmark_level_array: (FSInt32Array*)bookmark_level_array is_show_serial_number: (BOOL)is_show_serial_number;	-(void)set: (NSString *)title bookmark_level_array: (FSInt32Array*)bookmark_level_array is_show_serial_number: (BOOL)is_show_serial_number include_toc_pages: (BOOL) include_toc_pages;
FSPDFDoc	-(void) addTableOfContents: (NSString *)title bookmark_level_array: (FSInt32Array*)bookmark_level_array;	-(void) addTableOfContentsWithTitle: (NSString *)title bookmark_level_array: (FSInt32Array*)bookmark_level_array;
FSPDFPage	- (FSSignature*)addSignatureWithSignatureType: (FSRectF*)rect field_name: (NSString *)field_name signature_type: (FSSignatureSignatureType)signature_type;	- (FSSignature*)addSignatureWithSignatureType: (FSRectF*)rect field_name: (NSString *)field_name signature_type: (FSSignatureSignatureType)signature_type to_check_permission: (BOOL) to_check_permission;

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.

- From 8.1 version, the whole **FSPSInkData**, **FSPSInkPointDataArray** and **FSPSInkPointData** classes have been removed.
- In enumeration of **FSMarkupState**, the value of FSMarkupStateNone has been changed:

SDK 8.0:

```
FSMarkupStateNone=7
```

SDK 8.1:

```
FSMarkupStateNone=0
```

- Some attributes or APIs have been changed in version 8.1. The following table lists the changes between version 8.0 and 8.1.

Class	SDK 8.0	SDK 8.1
FSIdentityProperties	-(id)initWithCorporation: (NSString *)corporation email: (NSString *)email login_name: (NSString *)login_name name: (NSString *)name;	removed
	-(void)set: (NSString)corporation email: (NSString)email login_name: (NSString)login_name name: (NSString)name;	-(void)set: (NSString *)corporation email: (NSString *)email login_name: (NSString)login_name name: (NSString *)name first_name: (NSString *)first_name last_name: (NSString *)last_name title: (NSString *)title department: (NSString)department;
FSFreeText	-(BOOL)isTextOverflow;	removed
	-(void)setTextOverflow: (BOOL)is_text_overflow;	-(void)allowTextOverflow: (BOOL)is_text_overflow;
FSPSInk	@property (nonatomic, copy, getter=getPSInkData) FSPSInkData* pSInkData;	removed
FSForm	-(void)reload;	removed

Upgrading to version 8.0 from version 7.6

Foxit PDF SDK for iOS 8.0 is a major new version of Foxit PDF SDK for iOS. In this release, the built-in UI in the UI Extensions Component has changed dramatically. Please take note of the changes that occurred between version 7.6 and version 8.0 if you are upgrading from version 7.6 to version 8.0.

1. Some attributes or APIs have been changed in version 8.0. The following table lists the changes between version 7.6 and 8.0.

Class	SDK 7.6	SDK 8.0
FSRMSEncryptData	-(id) initWithIs_encrypt_metadata: (BOOL) is_encrypt_metadata publish_license: (NSString *) publish_license server_eul_list: (NSArray< NSData * > *) server_eul_list irm_version: (float) irm_version FSFieldFlagTextDoNotScroll = 0x400, FSFieldFlagTextComb = 0x800,	-(id) initWithIs_encrypt_metadata: (BOOL) is_encrypt_metadata publish_license: (NSData *) publish_license server_eul_list: (NSArray< NSData * > *) server_eul_list irm_version: (float) irm_version FSFieldFlagTextDoNotScroll = 0x1000, FSFieldFlagTextComb = 0x2000
MoreMenuItem	-(NSString*) text	-(NSString*) title
	-(id< MoreMenuItemAction >) callBack	-(id< MoreItemActionProtocol >) callBack
	-(UIView*) customView	-(UIView*) menuView

Class	SDK 7.6	SDK 8.0
PanelHost	- (void) reloadSegmentView	- (void) reloadData
UIExtensionsManager	- (UIToolbar*) topToolbar	- (FSMainTopbar*) topToolbar
	- (UIToolbar*) bottomToolbar	- (FSMainBottombar*) bottomToolbar
	- (SettingBar*) settingBar	- (FSSettingBar*) settingBar
	- (BOOL) needScreenLock	removed
	- (NSMutableDictionary *) getTopToolbarItemHiddenStatus	- (NSMutableDictionary *) getToolbarItemHiddenStatus
	- (NSMutableDictionary *) getBottomToolbarItemHiddenStatus	
	- (void) setToolbarItemHiddenWithTag: (NSInteger) itemTag hidden: (BOOL) isHidden	- (void) setToolbarItemHiddenWithTag: (FS_TOOLBAR_ITEM_TAG) itemTag hidden: (BOOL) isHidden

2. Some classes or header files have been changed in version 8.0. The following table lists the changes between version 7.6 and 8.0.

SDK 7.6	SDK 8.0
MoreItemProtocol	MoreItemActionProtocol
SegmentView	removed
Defines.h	removed, and add FSUtilities.h
SettingBar.h	FSSettingBar.h

3. The header file **Defines.h** has been removed from version 8.0. Some constants in this header file have been updated in the newly added [FSUtilities.h](#). The following table lists the changes between version 7.6 and 8.0.

SDK 7.6	SDK 7.6	SDK 8.0	SDK 8.0
Defines.h	#define STATE_NORMAL	FSUtilities.h	FSUIManagerStateNormal
	#define STATE_REFLOW		FSUIManagerStateReflow
	#define STATE_SEARCH		FSUIManagerStateSearch
	#define STATE_EDIT		removed
	#define STATE_SIGNATURE		FSUIManagerStateFillSign
	#define STATE_FILLSIGN		FSUIManagerStateAnnotTool
	#define STATE_ANNOTTOOL		FSUIManagerStatePanZoom
	#define STATE_PANZOOM		FSUIManagerStatePageNavigate
	#define STATE_PAGENAVIGATE		FSUIManagerStatecreateForm
	#define STATE_CREATEFORM		FSUIManagerStateSpeech
	#define STATE_SPEECH		FS_TOOLBAR_ITEM_TAG_READING_BOOK MARK
	#define FS_TOPBAR_ITEM_BOOKMARK_TAG		FS_TOOLBAR_ITEM_TAG_BACK
	#define FS_TOPBAR_ITEM_BACK_TAG		FS_TOOLBAR_ITEM_TAG_MORE
	#define FS_TOPBAR_ITEM_MORE_TAG		

SDK 7.6	SDK 7.6	SDK 8.0	SDK 8.0
	#define FS_TOPBAR_ITEM_SEARCH_TAG		FS_TOOLBAR_ITEM_TAG_SEARCH
	#define FS_BOTTOMBAR_ITEM_PANEL_TAG		FS_TOOLBAR_ITEM_TAG_PANEL
	#define FS_BOTTOMBAR_ITEM_ANNOT_TAG		FS_TOOLBAR_ITEM_TAG_COMMENT
	#define FS_BOTTOMBAR_ITEM_SIGNATURE_TAG #define FS_BOTTOMBAR_ITEM_FILLSIGN_TAG		FS_TOOLBAR_ITEM_TAG_SIGN
	#define FS_BOTTOMBAR_ITEM_READMODE_TAG		removed

4. The **SettingBarDelegate** Protocol has been renamed to **FSSettingBarDelegate**, and the following two methods have been changed:

SDK 7.6	SDK 7.6	SDK 8.0	SDK 8.0
SettingBarDelegate	- (void) settingBar: (SettingBar *) settingBar setLockScreen: (BOOL) isLockScreen	FSSettingBarDelegate	- (void) settingBar: (FSSettingBar *) settingBar isLockScreen:(BOOL) isLockScreen
	- (void) settingBar: (SettingBar *) settingBar setNightMode:(BOOL) isNightMode		- (void) settingBar: (FSSettingBar *) settingBar isNightMode: (BOOL) isNightMod

Upgrading to version 7.6 from version 7.5.1

There are no upgrade warnings when moving from version 7.5.1 to version 7.6. In this release we worked hard to ensure that no modifications to existing code bases would be required when upgrading.

Upgrading to version 7.5.1 from version 7.5

Foxit PDF SDK for iOS 7.5.1 is a maintenance new version of Foxit PDF SDK for iOS. In this release, the minimum supported version of iOS has been upgraded to iOS 11, and it only supports 64-bit devices.

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 **FSHeaderFooter** class:

- The parameters of constructor function have been changed:

SDK 7.4:

initWithFont:	(FSFont*)	font
text_size:	(float)	text_size
text_color:	(unsigned int)	text_color
page_range:	(FSPageNumberRange*)	page_range
page_margin:	(FSRectF*)	page_margin
has_text_shrunked:	(BOOL)	has_text_shrunked
has_fixedsize_for_print:	(BOOL)	has_fixedsize_for_print
start_page_number:	(int)	start_page_number
content:	(FSHeaderFooterContent*)	content

SDK 7.5:

initWithFont:	(FSFont*)	font
text_size:	(float)	text_size
text_color:	(unsigned int)	text_color
page_range:	(FSPageNumberRange*)	page_range
page_margin:	(FSRectF*)	page_margin
has_text_shrunked:	(BOOL)	has_text_shrunked
has_fixedsize_for_print:	(BOOL)	has_fixedsize_for_print
start_page_number:	(int)	start_page_number
content:	(FSHeaderFooterContent*)	content
is_to_embed_font:	(BOOL)	is_to_embed_font
is_underline:	(BOOL)	is_underline

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

SDK 7.4:

(void) set:	(FSFont*)	font
text_size:	(float)	text_size
text_color:	(unsigned int)	text_color
page_range:	(FSPageNumberRange*)	page_range
page_margin:	(FSRectF*)	page_margin
has_text_shrunked:	(BOOL)	has_text_shrunked

has_fixedsize_for_print:	(BOOL)	has_fixedsize_for_print
start_page_number:	(int)	start_page_number
content:	(FSHeaderFooterContent*)	content
SDK 7.5:		
(void) set:	(FSFont*)	font
text_size:	(float)	text_size
text_color:	(unsigned int)	text_color
page_range:	(FSPageNumberRange*)	page_range
page_margin:	(FSRectF*)	page_margin
has_text_shrunked:	(BOOL)	has_text_shrunked
has_fixedsize_for_print:	(BOOL)	has_fixedsize_for_print
start_page_number:	(int)	start_page_number
content:	(FSHeaderFooterContent*)	content
is_to_embed_font:	(BOOL)	is_to_embed_font
is_underline:	(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 (**FSMonolImageSettingsImageCompressjpeg2**) of the enumeration class **FSMonolImageSettingsMonolImageCompressMode** has been renamed to **FSMonolImageSettingsImageCompressjbig2**.
- In **FSMarkup** class:

The functions below have been removed from version 7.4:

```
-(int) getStateAnnotCount: (FSMarkupStateModel) model
-(FSNote*) getStateAnnot: (FSMarkupStateModel) model index: (int) index
```

And then add a new function as below:

-(FSNoteArray*) getStateAnnots: (FSMarkupStateModel) model

- Some functions 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
FSMarkup	-(FSNote*) addStateAnnot: (FSMarkupStateModel) model state: (FSMarkupState) state	-(FSNote*) addStateAnnot: (NSString *) title model: (FSMarkupStateModel) model state: (FSMarkupState) state;
FSTextSearch	-(id) initWithDocument: (FSPDFDoc*) document cancel: (id<FSSearchCancelCallback>) cancel	-(id) initWithDocument: (FSPDFDoc*) document cancel: (id<FSSearchCancelCallback>) cancel flags: (int) flags

Upgrading to version 7.3 from version 7.2.1

There are no upgrade warnings when moving from version 7.2.1 to version 7.3. In this release we worked hard to ensure that no modifications to existing code bases would be required when upgrading.

Upgrading to version 7.2.1 from version 7.2

Foxit PDF SDK for iOS 7.2.1 is a minor new version of Foxit PDF SDK for iOS. In this release, the scan module has been extracted from the UI Extensions Component. It provides a framework (including scan UI) for scanning feature called "**FoxitPDFScanUI.framework**", as well as the open source project for the framework called "**pdfscan**". So that if you had integrated the scan module in your project, you should reference the "**FoxitPDFScanUI.framework**" in your code.

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.

- The item "**redact**" inside the "annotations" of the configuration JSON file has been renamed to "**redaction**".

- From 7.1 version, the whole <ConnectedPDFDelegate> Protocol, **FSClientInfo** and **FSConnectedPDF** classes have been removed.
- Some APIs have been changed in version 7.1. Note that the APIs related to ConnectedPDF in the FSPDFDoc class have also been removed. The following table lists the APIs mapping between version 7.0 and 7.1.

Class	SDK 7.0	SDK 7.1
FSPDFObjC	(BOOL)exportToFileStream: (id<FSFileReaderCallback>)stream;	(BOOL)exportToFileStream: (id<FSStreamCallback>)stream;
	(void)setDefaultServer: (int)index;	(void)setDefaultServerWithIndex: (int)index;
	(void)removeServer: (int)index;	(void)removeServerWithIndex: (int)index;
SettingBar	(instancetype)initWithUIExtensionsManager:(UIExtensionsManager)extensionsManager settingBarVC:(SettingBarViewC)settingBarVC;	removed
FSPDFDoc	-(BOOL)isCPDF	removed
	-(BOOL)isCDRM	removed
	-(NSString *)getDocURI	removed
	-(NSString *)getEndpoint	removed

Upgrading to version 7.0 from version 6.4

Foxit PDF SDK for iOS 7.0 is a major new version of Foxit PDF SDK for iOS. Please take note of the changes that occurred between version 6.4 and version 7.0 if you are upgrading from version 6.4 to version 7.0.

1. Classes and APIs changes

There were some changes to the classes and APIs in version 7.0. The following table lists the changes between version 6.4 and 7.0.

Class	SDK 6.4	SDK 7.0
FSPDFViewCtrl	-	setContinuous()
	-	isContinuous()
FSReflowPage	(FSMatrix2D*)getDisplayMatrix: (float)offset_x offset_y: (float)offset_y;	(FSMatrix2D*)getDisplayMatrix: (float)offset_x offset_y: (float)offset_y width: (int)width height: (int)height rotate: (FSRotation)rotate;
FSPDFViewControl	needLocalized	removed (replaced by the functions in FSLocalization class)
	rmsHandler	remove (replaced by isRMSProtected())

Class	SDK 6.4	SDK 7.0
FSLocalization	-	addLanguage()
	-	languageAbbr()
	-	tableName()
	-	currentLanguage
PanelHost	(instancetype)initWithSize:(CGSize)size panelTypes:(NSArray<NSNumber *> *)panelTypes	(instancetype)initWithFrame:(CGRect)frame
SegmentView	(id)initWithFrame:(CGRect)frame segmentItems:(NSArray *)items	(id)initWithFrame:(CGRect)frame (void)loadWithItems:(NSArray<SegmentItem*> *)items
SettingBar	(instancetype)initWithUIExtensionsManager:(UIExtensionsManager *)extensionsManager	(instancetype)initWithUIExtensionsManager:(UIExtensionsManager *)extensionsManager settingBarVC:(SettingBarViewC*)settingBarVC
IAnnotHandler	(void)addAnnot:(FSAnnot *)annot	(BOOL)addAnnot:(FSAnnot *)annot
	(void)addAnnot:(FSAnnot *)annot addUndo:(BOOL)addUndo	(BOOL)addAnnot:(FSAnnot *)annot addUndo:(BOOL)addUndo
	(void)modifyAnnot:(FSAnnot *)annot	(BOOL)modifyAnnot:(FSAnnot *)annot
	(void)modifyAnnot:(FSAnnot *)annot addUndo:(BOOL)addUndo	(BOOL)modifyAnnot:(FSAnnot *)annot addUndo:(BOOL)addUndo
	(void)removeAnnot:(FSAnnot *)annot	(BOOL)removeAnnot:(FSAnnot *)annot
	(void)removeAnnot:(FSAnnot *)annot addUndo:(BOOL)addUndo	(BOOL)removeAnnot:(FSAnnot *)annot addUndo:(BOOL)addUndo
UIExtensionsManagerDelegate	(void)uiextensionsManager:(UIExtensionsManager *)uiextensionsManager setTopToolBarHidden:(BOOL)hidden	(void)uiextensionsManager:(UIExtensionsManager *)uiextensionsManager onToolBar:(FSToolbarType)type hidden:(BOOL)hidden
	(BOOL)uiextensionsManager:(UIExtensionsManager *)uiextensionsManager openNewDocAtPath:(NSString *)path useNewTab:(BOOL)useNewTab	(BOOL)uiextensionsManager:(UIExtensionsManager *)uiextensionsManager openNewDocAtPath:(NSString *)path shouldCloseCurrentDoc:(BOOL)closeCurrentDoc

2. Renamed classes

Some classes are renamed from version 6.4 to 7.0.

SDK 6.4	SDK 7.0
MenuView	MoreMenuView
IMvCallback	MoreMenuItemAction
MenuItem	MoreMenuItem
MenuGroup	MoreMenuGroup

3. Enumeration changes

Some enumerations have been changed in version 7.0. The following table lists the changes between version 6.4 and 7.0.

Enumeration	SDK 6.4	SDK 7.0
FSComparisonCompareType	FSComparisonCompareTypeTable	removed

Enumeration	SDK 6.4	SDK 7.0
	-	FSComparisonCompareTypeAll
FSSignatureStates	FSSignatureStateUnknown = 0x00000000	FSSignatureStateUnknown = 0x80000000
PDF_LAYOUT_MODE	PDF_LAYOUT_MODE_CONTINUOUS	removed (replaced by FSPDFViewCtrl::setContinuous/ FSPDFViewCtrl::isContinuous)

Upgrading to version 6.4 from version 6.3

There are no upgrade warnings when moving from version 6.3 to version 6.4. In this release we worked hard to ensure that no modifications to existing code bases would be required when upgrading.

Upgrading to version 6.3 from version 6.2.1

There are no upgrade warnings 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.

Upgrading to version 6.2.1 from version 6.2

There are no upgrade warnings 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.

Upgrading to version 6.2 from version 6.1

There are no upgrade warnings when moving from version 6.1 to version 6.2. In this release we worked hard to ensure that no modifications to existing code bases would be required when upgrading.

Upgrading to version 6.1 from version 6.0

There is only one upgrade warning 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.

The ***libFoxitRDKUIExtensions.a*** in the *"libs"* folder and associated header files, and the resource files needed for the built-in UI have been packaged to a single framework called ***"uiextensionsDynamic.framework"***. The library will be loaded internally, which reduces the operational processes and is more user-friendly. To learn more about how to integrate with

latest Foxit PDF SDK for iOS, see the "developer_guide_ios.pdf" in the "docs" folder. The following files that were required for previous release are no longer needed and should be removed from your project:

- libs/libFoxitRDKUIExtensions.a
- libs/uiextensions_src/UIExtensions/Resource

Upgrading to version 6.0 from version 5.1

If you are upgrading from version 5.1 to version 6.0, please take note of the changes that occurred between version 5.1 and version 6.0.

Note: In version 6.0, the name of the SDK has been changed from **Foxit MobilePDF SDK for iOS** to **Foxit PDF SDK for iOS**, which will belong to the Foxit PDF SDK products.

1. API Usage changes

In version 6.0, downcast was disabled for inherited classes. Caller should create or get a subclass object from the super object. For example:

Version 5.1:

```
// Example 1:
FSAnnot* a = [page getAnnot:0];
if([a getType] == e_annotUnderline)
{
    // Downcast.
    Underline* u = (Underline*)a;
    // Call methods such as [u xxx];
}

// Example 2:
FSPDFObject* obj = [dict getElement:@"key"];
if([obj getType] == e_objStream)
{
    // Downcast.
    FSPDFStream* stream = (FSPDFStream*)obj;
}
```

Version 6.0:

```

// Example1:
FSAnnot* a = [page getAnnot:0];
if([a getType] == FSAnnotUnderline)
{
    // Downcast disabled. Create an underline object from annot.
    FSUnderline * u = [[FSUnderline alloc] initWithAnnot:a];
    // Call methods such as [u xxx];
}

// Example2:
FSPDFObject* obj = [dict getElement:@"key"];
if([obj getType] == FSPDFObjectStream)
{
    // Get the subclass object from the super.
    FSPDFStream* stream = [obj getStream];
}

```

2. Enumeration Type changes

From version 6.0, all of the enumeration type like "e_XXX" have been renamed to "FSXXX".
For example:

Version 5.1:

```

e_annotUnderline
e_borderStyleSolid

```

Version 6.0:

```

FSAnnotUnderline
FSBorderInfoSolid

```

3. Classes changes

Some classes have been renamed and removed from version 6.0. The following table lists the class changes between version 5.1 and version 6.0.

SDK 5.1	SDK 6.0
FSActionHandler	FSActionCallback
FSAnnotIconProviderCallback	FSIconProviderCallback
FSAsyncFileReadCallback	FSAsyncReaderCallback
FSCertificateSecurityCallback	FSCertificateSecurityCallback

SDK 5.1	SDK 6.0
FSCertificateSecurityHandler	FSCertificateSecurityHandler
FSCustomSecurityCallback	FSCustomSecurityCallback
FSFileReadCallback	FSFileReaderCallback
FSFormControl	FSControl
FSFormField	FSField
FSFormFiller	FSFiller
FSFormFillerAssist	FSFillerAssist
FSNotifier	FSNotifierCallback
FSPauseCallback	FSPauseCallback
FSPDFFormXObject	FSFormXObject
FSPDFGraphicsObject	FSGraphicsObject
FSPDFGraphicsObjects	FSGraphicsObjects
FSPDFImageObject	FSImageObject
FSPDFMarkedContent	FSMarkedContent
FSPDFMetadata	FSMetadata
FSPDFPageLabels	FSPageLabels
FSPDFPageLinks	Removed
FSPDFPath	FSPath
FSPDFPathObject	FSPathObject
FSPDFShadingObject	FSShadingObject
FSPDFTextLink	FSTextLink
FSPDFTextObject	FSTextObject
FSPDFTextSearch	FSTextSearch
FSPDFTextSelect	FSTextPage
FSPDFTextState	FSTextState
FSPSICallback	FSPSICallback
FSRecoveryManager	Removed
FSSearchCallback	FSSearchCallback
FSSecurityCallback	FSSecurityCallback
FSSignatureCallback	FSSignatureCallback

Upgrading to version 5.1 from version 5.0

If you are upgrading from version 5.0 to version 5.1, please take note of the changes that occurred between version 5.0 and version 5.1.

For the version 5.1 release of Foxit MobilePDF SDK, there are some minor modifications to the APIs that should be noted before upgrading from version 5.0.

Some APIs have been changed from version 5.0 to version 5.1.

Class	SDK 5.0	SDK 5.1
FSPDFDoc	(FSProgressive* _Nullable)startImportPages: (int)dstIndex flags: (unsigned int)flags layerName: (NSString *)layerName srcDoc: (FSPDFDoc *)srcDoc pageRanges: (int *)pageRanges count: (int)count pause: (FSPauseCallback* _Nullable)pause;	(FSProgressive* _Nullable)startImportPages: (int)dstIndex flags: (FSImportFlags)flags layerName: (NSString * _Nullable)layerName srcDoc: (FSPDFDoc *)srcDoc pageRanges: (int *)pageRanges count: (int)count pause: (FSPauseCallback* _Nullable)pause;
FSFormFiller	(BOOL)setFocus: (FSFormControl*)control;	(BOOL)setFocus: (FSFormControl * _Nullable)control;
FSGraphState	(void)set: (FSRenderBlendMode)blendMode lineWidth: (float)lineWidth lineJoin: (FSLineJoinStyle)lineJoin miterLimit: (float)miterLimit lineCap: (FSLineCapStyle)lineCap dashPhase: (float)dashPhase dashes: (float *)dashes dashCount: (int)dashCount;	(void)set: (FSRenderBlendMode)blendMode lineWidth: (float)lineWidth lineJoin: (FSLineJoinStyle)lineJoin miterLimit: (float)miterLimit lineCap: (FSLineCapStyle)lineCap dashPhase: (float)dashPhase dashes: (NSArray<NSNumber *> *)dashes;
FSPDFViewCtrl	(void)registerLayoutChangedEventListener:(id<ILayoutEventListener>)listener;	(void)registerLayoutEventListener:(id<ILayoutEventListener>)listener;
	(void)unregisterLayoutChangedEventListener:(id<ILayoutEventListener>)listener;	(void)unregisterLayoutEventListener:(id<ILayoutEventListener>)listener;
FSBorderInfo:	(void)set: (float)width style: (FSBorderStyle)style intensity: (float)intensity dashPhase: (float)dashPhase dashes: (float *)dashes dashCount: (int)dashCount;	(void)set: (float)width style: (FSBorderStyle)style intensity: (float)intensity dashPhase: (float)dashPhase dashes: (NSArray<NSNumber *> *)dashes;

Upgrading to version 5.0 from version 4.0

Foxit MobilePDF SDK 5.0 is a major new version of Foxit MobilePDF SDK. Please take note of the changes that occurred between version 4.0 and version 5.0 if you are upgrading from version 4.0 to version 5.0.

1. Configuration file changes

In version 5.0, the "defaultReader" field has been removed from the configuration file, because it does not make sense.

2. Remove FSPDFReader class

In version 5.0, Foxit MobilePDF SDK for iOS removes the **FSPDFReader** class, and moves the wrapped APIs in FSPDFReader class to UI Extensions Component.

3. UI elements loading changes

In version 5.0, all UI elements including top/bottom bar are loaded by default as long as UIExtensionsManager is added. So, if you do not want to use the default basic UI design, you should disable the top toolbar and bottom toolbar using the following API calls:

```
(void)enableBottomToolbar:(BOOL)isEnabled;
(void)enableTopToolbar:(BOOL)isEnabled;
```

4. Renamed Enumerations

All of the enumerations have been renamed from version 4.0 to version 5.0.

SDK 4.0	SDK 5.0
FS_ACTIONTYPE	FSActionType
FS_ZOOMMODE	FSZoomMode
FS_ROTATION	FSRotation
FS_PROGRESSSTATE	FSProgressState
FS_DIBFORMAT	FSDIBFormat
FS_BITMAPINTERPOLATIONFLAG	FSBitmapInterpolationFlag
FS_ERRORCODE	FSErrorCode
FS_DISPLAYMODE	FSDisplayMode
FS_MODULENAME	FSModuleName
FS_MODULERIGHT	FSModuleRight
FS_DEFAULTAPFLAGS	FSDefaultAPFlags
FS_FONTSTYLES	FSFontStyles
FS_FONTCHARSET	FSFontCharSet
FS_STANDARDFONTID	FSStandardFontID
FS_PATHPOINTTYPE	FSPathPointType
FS_FLATTENOPTIONS	FSFlattenOptions
FS_PAGEBOX	FSPageBoxType
FS_ANNOTSTATEMODEL	FSAnnotStateModel
FS_ANNOTSTATE	FSAnnotState
FS_ANNOTPROPERTY	FSAnnotProperty
FS_FDFDOCTYPE	FSFDFDocType
FS_RANKMODE	FSRankMode
FS_ANNOTTYPE	FSAnnotType
FS_ANNOTFLAGS	FSAnnotFlags
FS_BORDERSTYLE	FSBorderStyle
FS_HIGHLIGHTINGMODE	FSHighLightingMode
FS_PAGELABELSTYLE	FSPageLabelStyle
FS_PASSWORDTYPE	FSPasswordType
FS_USERPERMISSIONS	FSUserPermissions
FS_SAVEFLAGS	FSSaveFlags
FS_IMPORTFLAGS	FSImportFlags
FS_PAGEPARSEFLAG	FSPageParseFlag
FS_CALC_MARGINMODE	FSCalcMarginMode

SDK 4.0	SDK 5.0
FS_BOOKMARKSTYLE	FSBookmarkStyle
FS_BOOKMARKPOSITION	FSBookmarkPosition
FS_NAMETREETYPE	FSNameTreeType
FS_FORMFIELDTYPE	FSFormFieldType
FS_FORMFIELDFLAGS	FSFormFieldFlags
FS_GRAPHICSOBJECTTYPE	FSGraphicsObjectType
FS_FILLMODE	FSFillMode
FS_RENDERBLENDMODE	FSRenderBlendMode
FS_LINEJOINTYPE	FSLineJoinStyle
FS_LINECAPTYPE	FSLineCapStyle
FS_TEXTMODE	FSTextMode
FS_IMAGECOLORSPACE	FSImageColorSpace
FS_LAYERUSAGETYPE	FSLayerUsageType
FS_LAYERUSAGESTATE	FSLayerUsageState
FS_PDFOBJECTTYPE	FSPDFObjectType
FS_REFLOWFLAGS	FSReflowFlags
FS_ENCRYPTTYPE	FSEncryptType
FS_CIPHERTYPE	FSCipherType
FS_SIGNATURESTATES	FSSignatureStates
FS_SIGNATUREAPFLAGS	FSSignatureFlags
FS_SIGNATUREKEYNAME	FSSignatureKeyName
FS_DIGEST_ALGORITHM	FSDigestAlgorithm
FS_SEARCHFLAG	FSSearchFlags
FS_RENDERCOLORMODE	FSRenderColorMode
FS_RENDERCONTENTFLAG	FSRenderContentFlag
FS_DEVICE TYPE	FSDeviceType

5. APIs and classes changes

Some APIs or classes have been changed from version 4.0 to version 5.0. **FSPDFLabel** class has been renamed to **FSPDFPageLabels**, and the name, parameter, and return value of some functions have been changed.

Class	SDK 4.0	SDK 5.0
FSPageLabel	FSPageLabel	FSPDFPageLabel
FSFreeText	(int)getAlignment;	(FSAlignment)getAlignment;
	(void)setAlignment: (int)alignment;	(void)setAlignment: (FSAlignment)alignment;

Class	SDK 4.0	SDK 5.0
FSPDFDoc	(enum FS_PROGRESSSTATE)startImportPagesFrom FilePath: (int)dstIndex flags: (unsigned int)flags layerName: (NSString *)layerName srcFilePath: (NSString *)srcFilePath password: (NSString *)password pageRanges: (int *)pageRanges count: (int)count pause: (FSPauseCallback*)pause;	(FSProgressive* _Nullable)startImportPagesFromFilePath: (int)dstIndex flags: (unsigned int)flags layerName: (NSString *)layerName srcFilePath: (NSString *)srcFilePath password: (NSString * _Nullable)password pageRanges: (int *)pageRanges count: (int)count pause: (FSPauseCallback* _Nullable)pause;
	(enum FS_PROGRESSSTATE)startImportPages: (int)dstIndex flags: (unsigned int)flags layerName: (NSString *)layerName srcDoc: (FSPDFDoc *)srcDoc pageRanges: (int *)pageRanges count: (int)count pause: (FSPauseCallback*)pause;	(FSProgressive*)startImportPages: (int)dstIndex flags: (unsigned int)flags layerName: (NSString *)layerName srcDoc: (FSPDFDoc *)srcDoc pageRanges: (int *)pageRanges count: (int)count pause: (FSPauseCallback* _Nullable)pause;
	(enum FS_PROGRESSSTATE)startParse: (unsigned int)flag pause: (FSPauseCallback*)pause isReparse: (BOOL)isReparse;	(FSProgressive *)startParse: (unsigned int)flag pause: (FSPauseCallback* _Nullable)pause isReparse: (BOOL)isReparse;
FSFormField	(FSFormControl*)getControl: (FSPDFPage*)page index: (int)index;	(FSFormControl*)getControl: (int)index;
FSFormControl	FSFormControl Inherits FSAnnot	FSFormControl Inherits NSObject
FSGraphState	(void)set: (enum FS_RENDERBLENDMODE)blendMode lineWidth: (float)lineWidth lineJoin: (enum FS_LINEJOINTYPE)lineJoin miterLimit: (float)miterLimit lineCap: (enum FS_LINECAPTYPE)lineCap dashPhase: (float)dashPhase dashes: (NSArray<NSNumber *>*)dashes;	(void)set: (FSRenderBlendMode)blendMode lineWidth: (float)lineWidth lineJoin: (FSLineJoinStyle)lineJoin miterLimit: (float)miterLimit lineCap: (FSLineCapStyle)lineCap dashPhase: (float)dashPhase dashes: (float *)dashes dashCount: (int)dashCount;
FSLayerContext	(FSPDFDoc*)getPDFDocument;	(FSPDFDoc*)getDocument;
FSReflowPage	(enum FS_PROGRESSSTATE)startParse: (FSPauseCallback*)pause;	(FSProgressive *)startParse: (FSPauseCallback* _Nullable)pause;
FSSignature	FSSignature inherits FSFormControl	FSSignature inherits FSFormField
	(enum FS_PROGRESSSTATE)startSign: (NSString *)savePath certPath: (NSString *)certPath certPassword: (NSString *)certPassword digestAlgorithm: (enum FS_DIGEST_ALGORITHM)digestAlgorithm pause: (FSPauseCallback*)pause clientData: (void*)clientData;	(FSProgressive *)startSign: (NSString *)cert_path cert_password: (NSString *)cert_password digest_algorithm: (FSDigestAlgorithm)digest_algorithm client_data: (void*)client_data pause: (FSPauseCallback*)pause save_path: (NSString *)save_path;
	(enum FS_PROGRESSSTATE)startVerify: (FSPauseCallback*)pause clientData:(void*)clientData;	(FSProgressive *)startVerify: (void*)client_data pause: (FSPauseCallback*)pause;
	(NSDate*)getSigningTime;	(NSDate*)getSignTime;
	(void)setSigningTime: (NSDate*)signTime;	(void)setSignTime: (NSDate*)signTime;

Class	SDK 4.0	SDK 5.0
FSRenderer	(enum FS_PROGRESSTATE)startRender: (FSPDFPage*)page matrix: (FSMatrix*)matrix pause: (FSPauseCallback*)pause;	(FSProgressive *)startRender: (FSPDFPage*)page matrix: (FSMatrix*)matrix pause: (FSPauseCallback* _Nullable)pause;
	(enum FS_PROGRESSTATE)startRenderReflowPage: (FSReflowPage*)reflowPage matrix: (FSMatrix*) matrix pause: (FSPauseCallback*)pause;	(FSProgressive *)startRenderReflowPage: (FSReflowPage*)reflowPage matrix: (FSMatrix*) matrix pause: (FSPauseCallback* _Nullable)pause;
	(enum FS_PROGRESSTATE)startRenderBitmap: (FSBitmap*)bitmap matrix: (FSMatrix*)matrix clipRect: (FSRectI*)clipRect interpolation: (int)interpolation pause: (FSPauseCallback*)pause;	(FSProgressive *)startRenderBitmap: (FSBitmap*)bitmap matrix: (FSMatrix*)matrix clipRect: (FSRectI*)clipRect interpolation: (int)interpolation pause: (FSPauseCallback* _Nullable)pause;

Most of the **create*** functions have been removed from version 5.0. Now you can use the constructors to instantiate an object directly.

Class	RDK 4.0	RDK 5.0
FSFileSpec	(FSFileSpec*)create:(FSPDFDoc*)pdfDoc;	(id)initWithPDFDoc:(FSPDFDoc*)pdfDoc;
	(FSFileSpec*)create:(FSPDFDoc*)pdfDoc pdfObject:(FSPDFObject*)pdfObject;	(id)initWithPDFDoc:(FSPDFDoc*)pdfDoc pdfObject:(FSPDFObject*)pdfObject;
FSFont	(FSFont*)create: (NSString*) fontName fontStyles: (unsigned int)fontStyles weight: (int)weight charset: (enum FS_FONTCHARSET) charset;	(id)initWithFontName: (NSString*) fontName fontStyles: (unsigned int)fontStyles weight: (int)weight charset: (FSFontCharSet) charset;
	(FSFont*)createStandard :(enum FS_STANDARDFONTID) fontID;	(id)initWithStandardFontID :(FSStandardFontID) fontID;
FSPDFPath	(FSPDFPath*) create;	(id)init;
FSFDFDoc	(FSFDFDoc*)create: (enum FS_FDFDOCTYPE)fdfDocType;	(id)initWithFDFDocType: (FSFDFDocType)fdfDocType;
	(FSFDFDoc*)loadFromFilePath: (NSString *)path;	(id)initWithFilePath: (NSString *)path;
	(FSFDFDoc*)loadFromMemory: (NSData *)buffer;	(id)initWithMemory: (NSData *)buffer;
	(FSFDFDoc*)loadFromHandler: (FSFileReadCallback *)fileRead;	(id)initWithHandler: (FSFileReadCallback *)fileRead;
FSSearchCallback	(FSDocumentsSource*)create: (NSString *)directory;	(id)initWithDirectory: (NSString *)directory;
FSFullTextSearch	(FSFullTextSearch*)create;	(id)init;
FSPDFDoc	(FSPDFDoc*)create;	(FSPDFDoc *)init;
	(FSPDFDoc*)createFromFilePath: (NSString *)path;	(FSPDFDoc*)initWithFilePath: (NSString *)path;
	(FSPDFDoc*)createFromMemory: (NSData *)buffer;	(FSPDFDoc*)initWithMemory: (NSData *)buffer;
	(FSPDFDoc*)createFromHandler: (FSFileReadCallback*)fileRead;	(FSPDFDoc*)initWithHandler: (FSFileReadCallback*)fileRead;

Class	RDk 4.0	RDk 5.0
FSPDFNameTree	(FSPDFNameTree*)create: (FSPDFDoc*)pdfDoc type: (enum FS_NAMETREETYPE)type;	(FSPDFNameTree *)initWithPDFDoc:(FSPDFDoc *)pdfDoc type:(FSNameTreeType)type;
FSFormFiller	(FSFormFiller*)create: (FSForm*)form assist: (FSFormFillerAssist*)assist;	(FSFormFiller *)initWithForm:(FSForm *)form assist:(FSFormFillerAssist *)assist;
FSLayerTree	(FSLayerTree*)create: (FSPDFDoc*)doc;	(FSLayerTree *)initWithPDFDoc:(FSPDFDoc *)doc;
FSLayerContext	(FSLayerContext*)create: (FSPDFDoc*)doc usageType: (enum FS_LAYERUSAGETYPE)usageType;	(FSLayerContext *)initWithPDFDoc:(FSPDFDoc *)doc usageType:(FSLayerUsageType)usageType;
FSReflowPage	(FSReflowPage*)create: (FSPDFPage*)pdfPage;	(FSReflowPage *)initWithPDFPage:(FSPDFPage *)pdfPage;
FSStdSecurityHandler	(FSStdSecurityHandler*)create;	(id)init;
FSCertificateSecurityHandler	(FSCertificateSecurityHandler*)create;	(id)init;
FSPDFTextSearch	(FSPDFTextSearch*)create: (FSPDFDoc*)pdfDoc pause: (FSPauseCallback*)pause;	(id)initWithPDFDoc: (FSPDFDoc*)pdfDoc pause: (FSPauseCallback* _Nullable)pause;
FSPDFTextSelect	(FSPDFTextSelect*)create: (FSPDFPage*)pPage;	(id)initWithPDFPage: (FSPDFPage*)pPage;
FSPDFPageLinks	(FSPDFPageLinks*)create: (FSPDFPage*)page;	(id)initWithPDFPage: (FSPDFPage*)page;
FSPSI	(FSPSI*)create: (FSBitmap*)bitmap simulate: (BOOL)simulate;	(id)initWithBitmap: (FSBitmap*)bitmap simulate: (BOOL)simulate;
	(FSPSI*)create: (int)width height: (int)height simulate: (BOOL)simulate;	(id)initWithWidth: (int)width height: (int)height simulate: (BOOL)simulate;
FSBitmap	(FSBitmap*)create: (int)width height: (int)height format: (enum FS_DIBFORMAT)format buffer: (unsigned char *)buffer pitch: (int)pitch;	(id)initWithWidth: (int)width height: (int)height format: (FS_DIBFormat)format buffer: (unsigned char * _Nullable)buffer pitch: (int)pitch;
FSRenderer	(FSRenderer*)create: (FSBitmap*)bitmap rgbOrder: (BOOL)rgbOrder;	(id)initWithBitmap: (FSBitmap*)bitmap rgbOrder: (BOOL)rgbOrder;

Some functions in **FSPDFDoc** class have been removed from version 5.0. Most of them are replaced by the functions in **FSPDFMetaData** and **FSPDFPageLabels** classes.

"registerDefaultSignatureHandler" interface in **FSLibrary** class has been removed from version 5.0.

Class 4.0	SDK 4.0	Class 5.0	SDK 5.0
FSPDFDoc	(BOOL)hasMetadataKey: (NSString *)key;	FSPDFMetaData	(BOOL) hasKey: (NSString *) key
	(FSDatetime*)getCreationDateTim e;	FSPDFMetaData	(FSDatetime * _Nullable) getCreationDateTim e
	(FSDatetime*)getModifiedDateTim e;	FSPDFMetaData	(FSDatetime * _Nullable) getModifiedDateTim e
	(void)setCreationDateTim (FSDatetime* __nonnull)dateTim;	FSPDFMetaData	(void) setCreationDateTim: (FSDatetime *) date_time

Class 4.0	SDK 4.0	Class 5.0	SDK 5.0
	(void)setModifiedDateTime: (NSDate *)date (NSDate *)date	FSPDFMetadata	(void) setModifiedDateTime: (NSDate *) date_time
	(NSString *)getMetadataValue: (NSString *)key	FSPDFMetadata	(NSString * _Nullable) getValue: (NSString *) key
	(int)getMetadataValueCount: (NSString *)key	FSPDFMetadata	(int) getValueCount: (NSString *) key
	(NSString *)getMetadataValueByIndex: (NSString *)key index: (int)index	FSPDFMetadata	(NSString *) getValueByIndex: (NSString *) key index: (int) index
	(void)setMetadataArray: (NSString *)key valueArray: (NSArray<NSString *> *)valueArray count: (int)count	FSPDFMetadata	(void) setValues: (NSString *) key value_array: (NSArray< NSString * > *) value_array
	(FSPDFPageLabel *)getPageLabelInfo: (int)index	FSPDFPageLabels	(id) initWithDocument: (FSPDFDoc *) document
	(int)getPageLabelRangeCount	removed	
FSLibrary	(BOOL)registerDefaultSignatureHandler	removed	

The **continue*** functions in version 4.0 have been replaced by **resume** interface in **FSProgressive** class.

Class 4.0	SDK 4.0	Class 5.0	SDK 5.0
FSPDFDoc	(enum FS_PROGRESSSTATE)continueImportPages	FSProgressive	(FSProgressState) resume
FSPDFPage	(enum FS_PROGRESSSTATE)continueParse		
FSReflowPage	(enum FS_PROGRESSSTATE)continueParse		
FSSignature	(enum FS_PROGRESSSTATE)continueSign (enum FS_PROGRESSSTATE)continueVerify		
FSFullTextSearch	(enum FS_PROGRESSSTATE)continueUpdateIndex		
FSRenderer	(enum FS_PROGRESSSTATE)continueRender		