

# Regula Document Reader COM server

Version 6.5.0

Programmers Guide

Edition from 26/07/2022

New in 6.4.0

New properties:

- [PDFResults](#)
- [RFIDUseShortFileID](#)

New in 6.3.0

New properties:

- [ShowResultLED](#)

New methods:

- [HealthCheck](#)

New in 6.1.0

New properties:

- [CheckStatusLiveFaceComparison](#)
- [CheckStatusVDS](#)
- [IsBusy](#)

New methods:

- [SetDefaultOptions](#)

New in 5.6.0

New properties:

- [BSITR03135Results](#)

New in 5.5.0

New properties:

- [FaceAPIServiceTimeout](#)
- [FPCompareLibName](#)
- [FPCompareThreshold](#)
- [FPScanLibName](#)
- [FPScanQualityThreshold](#)
- [FPScanTimeout](#)
- [LiveCameraDepth](#)

New methods:

- [FPCompare](#)
- [FPScan](#)
- [FPScanUI](#)
- [GetReaderGraphicsBitmapByFieldTypeAndSource](#)
- [GetReaderGraphicsFileImageByFieldTypeAndSource](#)

New in 5.4.0

New methods:

- [SetRFIDTCCParams](#)

New in 5.3.0

New properties:

- [GroupResultsByStatus](#)

New in 5.2.0

New properties:

- [ActiveRFIDDeviceIdx](#)
- [AvailableRFIDDevices](#)
- [AvailableRFIDDevicesCount](#)
- [LiveCameraCount](#)
- [LiveCameraDevices](#)
- [LiveCameraTimeout](#)

New in 5.1.0

New properties:

- [AutoLiveCaptureOnScan](#)
- [CheckStatusLiveComparison](#)
- [DatabaseInfo](#)
- [DepersonalizeLog](#)
- [DoLiveFaceCaptureInParallel](#)
- [DoLiveFaceComparison](#)
- [FaceAPICustomURL](#)
- [FaceAPIThreshold](#)
- [FaceAPIType](#)
- [LiveCameraFaceWidthThreshold](#)
- [LiveCameraIndex](#)

- [LiveCameraResolution](#)
- [LiveCameraRotation](#)
- [LiveCameraSaveFaces](#)
- [LiveCameraSaveVideo](#)
- [LiveCameraShowWindow](#)
- [LiveCameraSource](#)
- [LiveCameraUrl](#)
- [LiveCameraVideoQuality](#)
- [RFIDUseSAM](#)
- [SaveLiveCaptureToScanFolder](#)

New events

- [OnExtPortraitRequest](#)

New methods:

- [AppendPortrait](#)
- [AppendPortraitFromFile](#)
- [AppendRFIDData](#)
- [AppendRFIDDataFromFile](#)
- [ComparePortraits](#)
- [CustomProcess](#)
- [DoLiveFaceCapture](#)
- [PKDAddResource](#)
- [PKDAddResourceFromFile](#)
- [PKDClearPAStore](#)
- [PKDClearTAStore](#)
- [PKDRefreshPAStore](#)
- [PKDRefreshTAStore](#)
- [ShowPrintDialog](#)

New in 4.15.1

New methods:

- [CheckRFIDResultJSON](#)

New in 4.12.5

New properties:

- [EncryptionPassword](#)
- [EncryptResults](#)
- [TrustDPI](#)
- [UserData](#)

New in 4.12.3

New methods:

- [GetLED](#)

New in 4.12.1

New properties:

- [DebugLogsFolder](#)
- [RFIDRestartOnPCSCError](#)

New in 4.11.3:

New properties:

- [RFIDIsDeviceReady](#)
- [RFIDWaitForInsertTimeout](#)

New in 4.11.1:

New properties:

- [ExtendProcessingModes](#)
- [ProcessingParams](#)
- [RFIDWaitForCryptKeyTimeout](#)
- [TrustVideoDetectionResult](#)
- [VideoDetectionDivider](#)
- [VideoDetectionLowSensibility](#)

New events:

- [OnVideoDetectionFrame](#)

New in 4.10.2:

New properties:

- [ManualEject](#)
- [StopProcessOnBadImage](#)

New methods:

- [AddActiveLight](#)
- [EjectDocument](#)

New in 4.10.1:

Breaking changes:

- [RFIDIsExpectedChipFound](#) is now Variant/dynamic/Boolean instead of Boolean (may return Null).

New properties:

- [IsNotBlackListed](#)
- [DeviceCameraSerialNumber](#)
- [DeviceUID](#)
- [JSONImageResults](#)
- [JSONResults](#)
- [DoDetectDocument](#)
- [DoImageQA](#)
- [SelectedDeviceName](#)
- [RFIDUsePKDDS](#)

New methods:

- [CheckReaderResultJSON](#)

New in 4.9.7:

New properties:

- [RFIDProfilerType](#)
- [ShowNextPageRequest](#)

New in 4.9.6:

New properties:

- [AsyncResultsSaving](#)
- [CurrentDebugLogFileName](#)
- [CustomUpdateServerHost](#)
- [CustomUpdateServerUsername](#)
- [CustomUpdateServerPassword](#)
- [FeedbackUserEmail](#)
- [FeedbackUserName](#)
- [LexAnalysisDepth](#)
- [OCRFieldsFilter](#)
- [QuickMRZProcessing](#)
- [RFIDIsExpectedChipFound](#)
- [RFIDUseEmbeddedPKD](#)
- [RFIDUseOnlyExternalCSCAForML](#)

- [SDKPackageVersion](#)

New methods:

- [CheckUpdates](#)
- [GetReaderGraphicsFileImageByFieldType](#)
- [GetRFIDGraphicsFileImageByFieldType](#)
- [PlaySound](#)

New events:

- [OnImageReady](#)
- [OnProcessingStarted](#)

New in 4.9.1:

New properties:

- [CanProcessImages](#)
- [DatabaseID](#)
- [DatabaseVersion](#)
- [DeviceLabelSerialNumber](#)
- [DoNoColorCompensation](#)
- [DoNoDistortionCompensation](#)
- [DoSilentDBUpdate](#)
- [RFIDEDLDatagroups](#)

New methods:

- [AppendImageFromFile](#)
- [ReportCurrentSampleIssue](#)

New events:

- [OnResultReadyXML](#)

New in 4.8.6:

New properties:

- [LoadDatabase](#)
- [QuickBoardingPassProcessing](#)

New methods:

- [CancelOpticalOperation](#)

New in 4.8.5:



New properties:

- [RFIDOnlineTAToSignDataType](#)

New in 4.8.3:

New properties:

- [BatteryCount](#)
- [ClearListOnStartAndConnect](#)
- [DoRFIDDriverLog](#)
- [DoShowWarningsAsErrors](#)
- [RFIDDriverVersion](#)
- [RFIDFirmwareVersion](#)
- [RFIDVersion](#)

New methods:

- [BatteryStatusByIdx](#)
- [SaveConfig](#)

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## GENERAL DESCRIPTION

COM interface for Regula Document Reader SDK provided for simplicity of device integration on different development platforms and consistency of behavior and results obtained.

Here are main benefits of COM server usage instead of low-level integration of dlls:

- COM running in a separate process and does not consume your main process memory and does not affect your app stability;
- All data exchange made in XML format with backward compatibility support and great possibilities for future extension;
- COM manages the reader devices itself, from outside visible as one device (optical + RFID) – no need to handle both devices separately and no need to synchronize them;
- To start using the device you literally need to write only couple lines of code – create object, connect the device, assign event handler, obtain the result in handler;
- As COM (OLE) technology created for great applications interoperability, this allows you using the reader almost in any application/technology/platform: C# .NET, C++, VB.NET, VBA, Delphi, JavaScript, LotusScript, etc.
- All customers running the same COM and it is easy to reproduce any issues raised and support it.

Main component of the COM interface is `RegulaReaderClass`, which implements `IRegulaReader` and `IRegulaReaderEvents` interfaces. You can find description of each property and method of that class below.

## USAGE

### .NET usage

Add reference to Regula Document Reader Library on the COM page of the Reference manager dialog in MS VisualStudio for .NET project COM usage. This will automatically create and add reference to the Interop wrapper assembly to READERDEMO to your project.

After you would need to create in class a variable for the object of RegulaReader type:

```
RegulaReader m_RegulaReader = new RegulaReader();
```

Please look at sample project in “C:\Program Files (x86)\Regula\Samples\Reader SDK\C#” and “C:\Program Files (x86)\Regula\Samples\Reader SDK\VB.NET” folders.

### Delphi usage

READERDEMO\_TLB.pas file included in the SDK package, so you just need to add it to your Delphi project.

After you would need to declare a variable for the object of RegulaReader type and create an object:

```
var
```

```
    Reader: RegulaReader;
```

```
begin
```

```
    Reader := CoRegulaReader.Create;
```

```
...
```

```
end.
```

You should also call CoInitialize(nil) prior to creating the object.

Please look at sample project in “C:\Program Files (x86)\Regula\Samples\Reader SDK\Delphi” folder.

## REFERENCE

### Properties

#### ActiveDeviceIdx

Property name	ActiveDeviceIdx
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns index of currently active connected device. Should not be greater than value returned by <a href="#">AvailableDevicesCount</a> property.

#### ActiveLanguage

Property name	ActiveLanguage
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns name of the language used for Document Reader application interface. Value is the English name of the language. If language with such name not available, then no changes applied.

#### ActiveRFIDDeviceIdx

Property name	ActiveRFIDDeviceIdx
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns index of currently active connected RFID device. Should not be greater than value returned by <a href="#">AvailableRFIDDevicesCount</a> property.

#### AllowWindowClosing

Property name	AllowWindowClosing
Type	Boolean
Accessibility	Read/Write
Description	This property enables or disables Document Reader application closing when closing the main application window. If it is false, when closing the main window, the application does not close but folds.



### AsyncResulttsSaving

Property name	AsyncResulttsSaving
Type	Boolean
Accessibility	Read/Write
Description	This property enables or disables asynchronous saving of the optical scanning and processing results. If enabled, results saving (images, XML results, logs, etc.) will start in a separate thread right after optical process is finished. Your application may receive control already (or you receive <a href="#">OnProcessingFinished</a> event) and in the same time, saving will occur. Intended use for this property is reducing processing time if enabled. If disabled, all result saving operations will be finished before your application will receive control after processing (or you receive <a href="#">OnProcessingFinished</a> event).

### AutoConnect

Property name	AutoConnect
Type	Boolean
Accessibility	Read/Write
Description	This property enables or disables automatic device connection when running the application. If true and device unplugged and plugged again, and it would be connected automatically.

### AutoLiveCaptureOnScan

Property name	AutoLiveCaptureOnScan
Type	Boolean
Accessibility	Read/Write
Description	This property enables or disables automatic face capture process start together with document scanning. Enabled by default. This property is relevant if <a href="#">DoLiveFaceComparison</a> is set to true.

### AutoLoadFDS

Property name	AutoLoadFDS
Type	Boolean
Accessibility	Read/Write
Description	This property enables or disables automatic connection to the documents database (PASSPORT/FDS) when connecting the reader if database is installed and available.

### AutoLoadVS

Property name	AutoLoadVS
Type	Boolean
Accessibility	Read/Write
Description	Deprecated since SDK 4.8.1.

### AutoScan

Property name	AutoScan
Type	Boolean
Accessibility	Read/Write
Description	This property enables or disables automatic scanning and processing start upon detection of document presence.

### AvailableDevices

Method name	AvailableDevices
Parameters	int Index – index of the device in the available devices list.
Returns	Dynamic – string with device name or null if no device with such index exists.
Description	This method returns device name specified by index in Index parameter from the list of available devices. Index should be less than <a href="#">AvailableDevicesCount</a> property value.

### AvailableDevicesCount

Property name	AvailableDevicesCount
Type	Integer
Accessibility	Read only
Description	This property returns number of available devices in the system. Use <a href="#">ActiveDeviceIdx</a> property to select specific one.

### AvailableRFIDDevices

Method name	AvailableRFIDDevices
Parameters	int Index – index of the device in the available RFID devices list.
Returns	Dynamic – string with device name or null if no RFID device with such index exists.

Description This method returns RFID device name specified by index in Index parameter from the list of available devices. Index should be less than [AvailableRFIDDevicesCount](#) property value.

#### AvailableRFIDDevicesCount

Property name AvailableRFIDDevicesCount

Type Integer

Accessibility Read only

Description This property returns number of available devices in the system. Use [ActiveRFIDDeviceIdx](#) property to select specific one.

#### AvailableGraphicFormats

Method name AvailableGraphicFormats

Parameters int Index – index of the format in the available graphical formats list.

Returns Dynamic – string with extension of graphic format or null if no format with such index exists.

Description This method returns extension of graphic format specified by index in Index parameter from the list of available for saving image graphic formats. Index should be less than [GraphicFormatsCount](#) property value.

#### AvailableLanguages

Method name AvailableLanguages

Parameters int Index – index of the language in the available languages list.

Returns Dynamic – string with language name or null if no format with such index exists.

Description This method returns language name specified by index in Index parameter from the list of available application languages. Index should be less than [LanguagesCount](#) property value.

#### BAC

Property name BAC

Type String

Accessibility Read only

Description Deprecated since SDK 4.8.1. Use [CheckStatusRFIDBAC](#) property instead.

#### BatteryCount

Property name BatteryCount

Type	Integer
Accessibility	Read only
Description	If connected device contains battery inside (mobile complex), this property returns positive number of available batteries, and zero otherwise.

#### BatteryPresent

Property name	BatteryPresent
Type	Boolean
Accessibility	Read only
Description	If connected device contains battery inside (mobile complex), this property returns true, and false otherwise.

#### BatteryStatus

Property name	BatteryStatus
Type	Integer
Accessibility	Read only
Description	This property returns status of the device's battery. See <i>RPRM_Command_Options_Get_BatteryStatus</i> command for details.

#### BSITR03135Results

Property name	BSITR03135Results
Type	Boolean
Accessibility	Read/Write
Description	This property enables or disables BSI TR-03135 compliant processing log generation. Disabled by default.

#### CalibrationNeeded

Property name	CalibrationNeeded
Type	Boolean
Accessibility	Read only
Description	If active connected device require calibration, this property returns true and false otherwise.

### CanAuthenticity

Property name	CanAuthenticity
Type	Integer
Accessibility	Read only
Description	This property returns OR-combination of <i>eRPRM_Authenticity</i> enumeration elements as available authenticity checks for the active connected device. See <i>RPRM_Command_Options_GetSDKAuthCapabilities</i> command for more details.

### CanBARCODE

Property name	CanBARCODE
Type	Boolean
Accessibility	Read only
Description	This property returns true if barcode reading capability is available for the active connected device.

### CanBayerImages

Property name	CanBayerImages
Type	Boolean
Accessibility	Read only
Description	This property returns true if <i>RPRM_Capabilities_RAW_ImageData</i> is available for the active connected device. For internal use.

### CanDocumentType

Property name	CanDocumentType
Type	Boolean
Accessibility	Read only
Description	This property returns true if document type identification capability is available for the active connected device.

### CanFDS

Property name	CanFDS
Type	Boolean
Accessibility	Read only

Description This property returns true if reference documents database integration connectivity is available for the active connected device.

#### CanLocateDocument

Property name CanLocateDocument

Type Boolean

Accessibility Read only

Description This property returns true if document location on the image capability is available for the active connected device.

#### CanMRZOCR

Property name CanMRZOCR

Type Boolean

Accessibility Read only

Description This property returns true if MRZ OCR capability is available for the active connected device.

#### CanMRZTestQuality

Property name CanMRZTestQuality

Type Boolean

Accessibility Read only

Description This property returns true if MRZ QA capability is available for the active connected device.

#### CanOCRAnalyze

Property name CanOCRAnalyze

Type Boolean

Accessibility Read only

Description This property returns true if text data analyze, verification and comparison capability is available for the active connected device.

#### CanProcessImages

Property name CanProcessImages

Type Boolean

Accessibility	Read only
Description	This property returns true if external images processing capability is available for the active connected device.

#### CanSaveFiles

Property name	CanSaveFiles
Type	Boolean
Accessibility	Read only
Description	This property returns true if graphical file saving capability is available for the active connected device.

#### CanScan

Property name	CanScan
Type	Boolean
Accessibility	Read only
Description	This property returns true if image-scanning capability is available for the active connected device.

#### CanVisualGraphics

Property name	CanVisualGraphics
Type	Boolean
Accessibility	Read only
Description	This property returns true if graphic/photo field detection and cropping capability is available for the active connected device.

#### CanVisualOCR

Property name	CanVisualOCR
Type	Boolean
Accessibility	Read only
Description	This property returns true if Visual OCR capability is available for the active connected device.

#### CheckStatusComplete

Property name	CheckStatusComplete
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Type	Variant/dynamic
Accessibility	Read only
Description	This property returns complete final document processing result. Possible values are True, False and Null (not available).

#### CheckStatusLiveComparison

Property name	CheckStatusLiveComparison
Type	Boolean
Accessibility	Read only
Description	Deprecated since 6.1. Please use <i>CheckStatusLiveFaceComparison</i> instead.

#### CheckStatusLiveFaceComparison

Property name	CheckStatusLiveFaceComparison
Type	Variant/dynamic
Accessibility	Read only
Description	This property returns the result of facial comparison (live face vs document portrait). If a document contains a RFID chip, the live face image will be compared with the facial image extracted from the chip (DG2). In case there is no chip in a document, the live face will be compared with the holder's portrait printed on the data page. This property is relevant if <a href="#">DoLiveFaceComparison</a> is set to true, otherwise returns Null.

#### CheckStatusMRZ

Property name	CheckStatusMRZ
Type	Variant/dynamic
Accessibility	Read only
Description	This property returns MRZ reading and processing result. Possible values are True, False and Null (not available).

#### CheckStatusOptical

Property name	CheckStatusOptical
Type	Variant/dynamic
Accessibility	Read only
Description	This property returns overall document optical processing result. Possible values are True, False and Null (not available).



#### CheckStatusRFID

Property name	CheckStatusRFID
Type	Variant/dynamic
Accessibility	Read only
Description	This property returns overall document RFID processing result. Possible values are True, False and Null (not available).

#### CheckStatusRFIDAA

Property name	CheckStatusRFIDAA
Type	Variant/dynamic
Accessibility	Read only
Description	This property returns RFID active authentication processing result. Possible values are True, False and Null (not available).

#### CheckStatusRFIDBAC

Property name	CheckStatusRFIDBAC
Type	Variant/dynamic
Accessibility	Read only
Description	This property returns RFID BAC authentication processing result. Possible values are True, False and Null (not available).

#### CheckStatusRFIDCA

Property name	CheckStatusRFIDCA
Type	Variant/dynamic
Accessibility	Read only
Description	This property returns RFID chip authentication processing result. Possible values are True, False and Null (not available).

#### CheckStatusRFIDPA

Property name	CheckStatusRFIDPA
Type	Variant/dynamic
Accessibility	Read only

Description This property returns RFID passive authentication processing result. Possible values are True, False and Null (not available).

#### CheckStatusRFIDPACE

Property name CheckStatusRFIDPACE

Type Variant/dynamic

Accessibility Read only

Description This property returns RFID PACE authentication processing result. Possible values are True, False and Null (not available).

#### CheckStatusRFIDRI

Property name CheckStatusRFIDRI

Type Variant/dynamic

Accessibility Read only

Description This property returns RFID restricted identification processing result. Possible values are True, False and Null (not available).

#### CheckStatusRFIDTA

Property name CheckStatusRFIDTA

Type Variant/dynamic

Accessibility Read only

Description This property returns RFID terminal authentication processing result. Possible values are True, False and Null (not available).

#### CheckStatusSecurity

Property name CheckStatusSecurity

Type Variant/dynamic

Accessibility Read only

Description This property returns security checks combined processing result. Possible values are True, False and Null (not available).

#### CheckStatusSecurityComplex

Property name CheckStatusSecurityComplex

Type Variant/dynamic

Accessibility	Read only
Description	This property returns security checks combined processing result based on multiple pages data. Possible values are True, False and Null (not available).

#### CheckStatusTextComparison

Property name	CheckStatusTextComparison
Type	Variant/dynamic
Accessibility	Read only
Description	This property returns text fields analyze and verification combined result. Possible values are True, False and Null (not available).

#### CheckStatusVDS

Property name	CheckStatusVDS
Type	Variant/dynamic
Accessibility	Read only
Description	This property returns VDS (Visible Digital Seal) verification result. Possible values are True, False and Null (not available, not performed).

#### ChipWasDetected

Property name	ChipWasDetected
Type	Boolean
Accessibility	Read only
Description	This property returns true if RFID chip presence detected during last scan, otherwise returns false.

#### ClearListOnStartAndConnect

Property name	ClearListOnStartAndConnect
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether list of scanned documents cleared and reset on each application start or device connection.

#### ClearPeriod

Property name	ClearPeriod
Type	Integer

Accessibility	Read/Write
Description	This property sets or returns value for the period in seconds, after which all results from the last scan or processing automatically removed from the memory and from interface.

### CompressionRatio

Property name	CompressionRatio
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns image compression ratio for saving images in specific graphic formats (JPEG, JPEG2000). Possible values from 1 to 10. See <i>RPRM_Command_Options_GraphicFormat_SetCompressionRatio</i> command for details.

### Connected

Property name	Connected
Type	Boolean
Accessibility	Read only
Description	This property returns true if there is active connected reader available, otherwise returns false.

### CurrentDebugLogFileName

Property name	CurrentDebugLogFileName
Type	Variant/dynamic/string
Accessibility	Read only
Description	For internal use.

### CurrentDocumentType

Property name	CurrentDocumentType
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns document identifier for using by default for document processing instead of document identification.

### CurrentResultsFolder

Property name	CurrentResultsFolder
Type	Variant/dynamic/string
Accessibility	Read only
Description	This property returns folder path with stored results for the last performed scan if available, otherwise returns Null.

### CustomDocTypeMode

Property name	CustomDocTypeMode
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns document type recognition mode. If set to false then mode is automatic (by default), otherwise <a href="#">CurrentDocumentType</a> property value used for template selection for further document processing.

### CustomUpdateServerHost

Property name	CustomUpdateServerHost
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns server host name used for checking and downloading template database updates. If empty, our FTP server is used.

### CustomUpdateServerPassword

Property name	CustomUpdateServerPassword
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns password used for connecting to <a href="#">CustomUpdateServerHost</a> for checking and downloading template database updates.

### CustomUpdateServerUsername

Property name	CustomUpdateServerUsername
Type	Variant/dynamic/string
Accessibility	Read/Write

Description This property sets or returns user name used for connecting to [CustomUpdateServerHost](#) for checking and downloading template database updates.

#### DatabaseID

Property name DatabaseID

Type Integer

Accessibility Read only

Description Deprecated in 5.1.0. Use [DatabaseInfo](#) instead.

#### DatabaseInfo

Property name DatabaseInfo

Type Variant/dynamic/string

Accessibility Read/Write

Description This property returns information about connected templates database in JSON format, including its version, type id, and contents stat. Should be used instead of deprecated [DatabaseID](#) property. We may include different document sets in different database types and type id is used for database type identification for correct licensing and updating process. Returns empty string if no database connected.

#### DatabaseVersion

Property name DatabaseVersion

Type Variant/dynamic/string

Accessibility Read only

Description This property returns current connected template database version. Returns empty string if no database connected.

#### DebugLogsFolder

Property name DebugLogsFolder

Type Variant/dynamic/string

Accessibility Read/Write

Description This property sets or returns folder path, where debug logs will be saved. This folder used for saving the DbgView output into files and for saving debug reports. Property value comes into effect after [DoReaderLog](#) property re-enabled. By default, this property has value `%AppData%\Regula\Logs`.

## DefaultDetailsPage

Property name	DefaultDetailsPage
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns index of the active tab in the details panel in the Document Reader application. Possible values are stored in settings file RegulaReader.ini. Below are default values

[Detail pages]

0=strMRZ

1=strVisualZone

2=strRFIDParsed

3=strRFIDBinary

4=strBarcode

5=strTextComparison

6=strGraphicComparison

7=strSecurityFeatures

## DepersonalizeLog

Property name	DepersonalizeLog
Type	Boolean
Accessibility	Read/Write
Description	This property enables or disables personal data (e.g. MRZ data) referencing in the log file. If enabled, personal data is not included. Disabled by default.

## DetectAnyDocFormat

Property name	DetectAnyDocFormat
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether special any document format detection mode is enabled. In this mode, any rectangular shaped object considered document and cropped from the image. Property value if false by default, and only standard document format (ID1, ID2, and ID3) shaped objects considered

document. This property value also affects document detection when video detection mode enabled (see [UseVideodetection](#) property).

#### DeviceAvailableLights

Property name	DeviceAvailableLights
Type	Integer
Accessibility	Read only
Description	This property returns OR-combination of <i>eRPRM_Lights</i> enumeration elements as available lights for the active connected device. See <i>TRegulaDeviceProperties</i> structure for more details.

#### DeviceAvailableVideoModes

Property name	DeviceAvailableVideoModes
Type	Integer
Accessibility	Read only
Description	This property returns OR-combination of <i>eRPRM_VideoModes</i> enumeration elements as available video modes for the active connected device. See <i>TRegulaDeviceProperties</i> structure for more details.

#### DeviceCameraSerialNumber

Property name	DeviceCameraSerialNumber
Type	Variant/dynamic/string
Accessibility	Read only
Description	This property returns active connected device camera internal unique identifier as text. For internal use.

#### DeviceFeatures

Property name	DeviceFeatures
Type	Integer
Accessibility	Read only
Description	This property returns OR-combination of <i>eRPRM_DeviceAdditionalFeatures</i> enumeration elements as available features for the active connected device. See <i>TRegulaDeviceProperties</i> structure for more details.



### DeviceID

Property name	DeviceID
Type	Variant/dynamic/string
Accessibility	Read only
Description	This property returns active connected device model identifier as text. For internal use.

### DeviceLabelSerialNumber

Property name	DeviceLabelSerialNumber
Type	Variant/dynamic/string
Accessibility	Read only
Description	This property returns active connected device physical label serial number as text. See <i>TRegulaDeviceProperties</i> structure for more details.

### DeviceSerialNumber

Property name	DeviceSerialNumber
Type	Variant/dynamic/string
Accessibility	Read only
Description	This property returns active connected device hardware serial number as text. See <i>TRegulaDeviceProperties</i> structure for more details.

### DeviceUID

Property name	DeviceUID
Type	Variant/dynamic/string
Accessibility	Read only
Description	This property returns active connected device unique identifier as text. For internal use.

### DoAppendVisa

Property name	DoAppendVisa
Type	Boolean
Accessibility	Read/Write
Description	Deprecated since SDK 4.8.1

### DoAuthenticity

Property name	DoAuthenticity
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns OR-combination of <i>eRPRM_Authenticity</i> enumeration elements that used as a list of authenticity checks to perform during document processing.

### DoBARCODE

Property name	DoBARCODE
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether barcode reading mode enabled and performed during document processing.

### DoChangeOrientationByFace

Property name	DoChangeOrientationByFace
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether result images rotation by face position mode enabled and performed during document processing.

### DoCheckUpdates

Property name	DoCheckUpdates
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether presence of new SDK and template database versions monitored on our FTP server or your custom FTP server specified by <a href="#">CustomUpdateServerHost</a> property.

### DocTypeAdvScheme

Property name	DocTypeAdvScheme
Type	Boolean
Accessibility	Read/Write
Description	For internal use.

### DoDetectDocument

Property name	DoDetectDocument
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether document detection only mode enabled and performed during document processing. This is useful for preprocessing of the external images. If no document found on the image, no need to make any other time-consuming processing of this image. Dedicated to service usage.

### DoDocumentType

Property name	DoDocumentType
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether document type identification mode enabled and performed during document processing.

### DoExtMRZTestQuality

Property name	DoExtMRZTestQuality
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether extended MRZ QA mode enabled and performed during document processing.

### DoGraphics

Property name	DoGraphics
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether face detection and graphic fields extraction mode enabled and performed during document processing.

### DoHideMinimized

Property name	DoHideMinimized
Type	Boolean
Accessibility	Read/Write

Description This property sets or returns whether application hidden from taskbar when main window is minimized.

#### DoImageQA

Property name DoImageQA

Type Boolean

Accessibility Read/Write

Description This property sets or returns whether input images QA for glares and focus performed during document processing. This is useful for preprocessing of the external images. If QA not passed, no need to make any other time-consuming processing of this image. Dedicated to service usage.

#### DoLiveFaceCaptureInParallel

Property name DoLiveFaceCaptureInParallel

Type Boolean

Accessibility Read/Write

Description This property enables or disables live face capture process in parallel with optical scanning. Enabled by default. This is useful for better compatibility with low-performance hardware.

#### DoLiveFaceComparison

Property name DoLiveFaceComparison

Type Boolean

Accessibility Read/Write

Description This property enables or disables live face capture and comparison of the obtained image with the document portrait using external camera. Disabled by default.

#### DoLocateDocument

Property name DoLocateDocument

Type Boolean

Accessibility Read/Write

Description This property sets or returns whether document location on the image and cropping mode enabled and performed during document processing.

### DoLog

Property name	DoLog
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether both optical reader control library and RFID reader control library logging enabled and performed during operations.

### DoLotusEvent

Property name	DoLotusEvent
Type	Boolean
Accessibility	Read/Write
Description	For internal use.

### DoMRZOOCR

Property name	DoMRZOOCR
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether MRZ OCR mode enabled and performed during document processing.

### DoMRZTestQuality

Property name	DoMRZTestQuality
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether MRZ QA mode enabled and performed during document processing.

### DoNoColorCompensation

Property name	DoNoColorCompensation
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether lighting unevenness compensation performed during document processing. This is useful for slow Atom based PCs, when only MRZ & RFID are required.

### DoNoDistortionCompensation

Property name	DoNoDistortionCompensation
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether distortion compensation performed during document processing. This is useful for slow Atom based PCs, when only MRZ & RFID are required.

### DoOCRAalyze

Property name	DoOCRAalyze
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether text data analyze, verification and comparison mode enabled and performed during document processing.

### DoORACLEEvent

Property name	DoORACLEEvent
Type	Boolean
Accessibility	Read/Write
Description	For internal use.

### DoReaderLog

Property name	DoReaderLog
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether optical reader control library logging capability enabled and performed during operations.

### DoReceiveAllScannedImages

Property name	DoReceiveAllScannedImages
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether all captured images receiving mode enabled and performed during document processing.

### DoReceiveBayerImages

Property name	DoReceiveBayerImages
Type	Boolean
Accessibility	Read/Write
Description	For internal use.

### DoReceiveImages

Property name	DoReceiveImages
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether captured images receiving mode enabled and performed during document processing.

### DoReceiveUncroppedImages

Property name	DoReceiveUncroppedImages
Type	Boolean
Accessibility	Read/Write
Description	Deprecated since SDK 4.7.1

### DoRFID

Property name	DoRFID
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether RFID reader enabled, functioning and involved in document processing. Used to enable or disable RFID device.

### DoRFIDDriverLog

Property name	DoRFIDDriverLog
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether RFID reader low-level communication information between driver and the device logging enabled and performed during operations. Only active when <a href="#">DoRFIDLog</a> is enabled.

### DoRFIDLog

Property name	DoRFIDLog
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether RFID reader control library logging capability enabled and performed during operations.

### DoSendErrorReports

Property name	DoSendErrorReports
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether error reports would be sent automatically to Regula Support on occurrence.

### DoShowCandidats

Property name	DoShowCandidats
Type	Boolean
Accessibility	Read/Write
Description	For internal use.

### DoShowDetails

Property name	DoShowDetails
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns visibility of “Details” panel on the main application window.

### DoShowErrorMessage

Property name	DoShowErrorMessage
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns visibility of “Message log” tab on “Details” panel. If enabled, this tab will be always visible and active. All notifications and error messages are displayed on this tab.



### DoShowMenuToolbars

Property name	DoShowMenuToolbars
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns visibility of main menu and toolbar on the main application window.

### DoShowResultPopup

Property name	DoShowResultPopup
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether result popup window raised after document processing is finished. If enabled, this popup window will appear even if main application window hidden.

### DoShowRFIDProgress

Property name	DoShowRFIDProgress
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns visibility of status window displaying RFID reading progress during processing.

### DoShowShortResults

Property name	DoShowShortResults
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns visibility of extended details on the “Results” panel. If enabled, only statuses visible.

### DoShowStatusBar

Property name	DoShowStatusBar
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns visibility of status bar on the main application window.

### DoShowWarningsAsErrors

Property name	DoShowWarningsAsErrors
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether RFID warnings treated as errors in <a href="#">CheckStatusRFID</a> and <a href="#">CheckStatusComplete</a> values calculations.

### DoSilentDBUpdate

Property name	DoSilentDBUpdate
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether silent installation of template database update enabled after successful automatic download. Effective when <a href="#">DoCheckUpdates</a> property enabled.

### DoSound

Property name	DoSound
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether sound notifications enabled. Sound notifications are available for different document processing result statuses and calibration process.

### DoTimeLog

Property name	DoTimeLog
Type	Boolean
Accessibility	Read/Write
Description	For internal use.

### DoVisualOCR

Property name	DoVisualOCR
Type	Boolean
Accessibility	Read/Write

**Description** This property sets or returns whether visual OCR mode enabled and performed during document processing.

#### EncryptionPassword

**Property name** EncryptionPassword

**Type** Variant/dynamic/string

**Accessibility** Write only

**Description** This property sets the password to be used when encrypting scanning and processing results if [EncryptResults](#) property is set to True. Empty by default.

#### EncryptResults

**Property name** EncryptResults

**Type** Boolean

**Accessibility** Read/Write

**Description** This property sets or returns whether encryption of scanning and processing results is enabled. If enabled, all scanning and processing results will be saved in encrypted storage file instead of a folder. Asynchronous results saving option will be disabled if encryption is enabled.

#### ExtendProcessingModes

**Property name** ExtendProcessingModes

**Type** Boolean

**Accessibility** Read/Write

**Description** This property sets or returns whether processing modes will be automatically extended to required based on requested modes or you will specify exactly what should be done. For example, if you need to do Visual OCR, usually we need to crop document and recognize its type. However, in some cases you may want to skip some steps and perform certain steps only for speeding up the processing time.

#### FaceAPICustomURL

**Property name** FaceAPICustomURL

**Type** Variant/dynamic/string

**Accessibility** Read/Write

**Description** This property sets or returns the URL of the face matching service. It should include the port and address (IP or DNS). This property is used when [FaceAPIType](#) is custom. Empty by default.

### FaceAPIServiceTimeout

Property name	FaceAPIServiceTimeout
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns a timeout in milliseconds for Face API service communication. 3000 by default.

### FaceAPIThreshold

Property name	FaceAPIThreshold
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns the threshold value used to determine the value of <a href="#">CheckStatusLiveComparison</a> . 75 by default.

### FaceAPIType

Property name	FaceAPIType
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns the location of the face matching service. It can be a locally installed service, Regula service on the Internet or custom customer service installed, for instance, on a local PC. By default, it is a locally installed service.

### FeedbackUserEmail

Property name	FeedbackUserEmail
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns the email used for sending the support request tickets to our support system.

### FeedbackUserName

Property name	FeedbackUserName
Type	Variant/dynamic/string
Accessibility	Read/Write

Description This property sets or returns the user name used for sending the support request tickets to our support system (for correct naming).

#### FPCompareLibName

Property name FPCompareLibName

Type Variant/dynamic/string

Accessibility Read/Write

Description This property sets or returns the library name that will be used for performing fingerprint comparison. This library should be present in the SDK folder. It is a wrapper over some 3<sup>rd</sup> party comparison algorithm, that should be installed separately from SDK. Empty by default.

#### FPCompareThreshold

Property name FPCompareThreshold

Type Integer

Accessibility Read/Write

Description This property sets or returns a threshold value for accepting the fingerprint comparison result. This value depends on the selected fingerprint comparison algorithm provider in [FPCompareLibName](#).

#### FPScanLibName

Property name FPScanLibName

Type Variant/dynamic/string

Accessibility Read/Write

Description This property sets or returns the library name that will be used for performing fingerprint scanning. This library should be present in the SDK folder. It is a wrapper over some 3<sup>rd</sup> party fingerprint scanner library, that should be installed separately from SDK. Empty by default.

#### FPScanQualityThreshold

Property name FPScanQualityThreshold

Type Integer

Accessibility Read/Write

Description This property sets or returns a threshold value for accepting a fingerprint image on scan. This value depends on the selected fingerprint scanner provider in [FPScanLibName](#).

### FPScanTimeout

Property name	FPScanTimeout
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns a timeout in milliseconds for scanning fingerprints with <a href="#">FPScan</a> or <a href="#">FPScanUI</a> methods. Scanning will finish with an obtained result if an image of the expected quality will be available before the timeout, or with an error, if not. 5000 by default.

### FrequencyDivider

Property name	FrequencyDivider
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns videochip frequency divider value. After applying changes to this value, device require re-calibration. For more details, see <i>RPRM_Command_Device_SetFrequencyDivider</i> , <i>RPRM_Command_Device_GetFrequencyDivider</i> and <i>RPRM_Command_Device_Get_Calibration_FrequencyDivider</i> commands description.

### FullScreen

Property name	FullScreen
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether full screen display mode selected in main application window.

### GlareCompensation

Property name	GlareCompensation
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether glare compensation mode enabled and performed during document scanning.

### GraphicFormatsCount

Property name	GraphicFormatsCount
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Type	Integer
Accessibility	Read only
Description	This property returns the number of different graphical formats available for saving images.

#### GroupResultsByStatus

Property name	GroupResultsByStatus
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether scanning and processing results will be saved into subfolders of the <i>ResultsFolder</i> based on the <i>CheckStatusComplete</i> value. Disabled by default. Possible subfolders are: OK, Fail, Unknown.

#### InBackground

Property name	InBackground
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether background mode selected in application. In background mode all GUI hidden and there is no overhead for displaying results or updating interface. Main application window hidden from both taskbar and desktop, tray icon hidden, no dialogs pop up. Application is visible only in task manager.

#### InCalibration

Property name	InCalibration
Type	Boolean
Accessibility	Read only
Description	This property returns whether calibration process in progress.

#### IsBusy

Property name	IsBusy
Type	Boolean
Accessibility	Read only
Description	This property checks if scanning, processing, or RFID chip reading is in progress.

#### IsDeviceReady

Property name	IsDeviceReady
Type	Boolean
Accessibility	Read only
Description	This property returns whether device connected and ready for operation.

#### IsDocumentReady

Property name	IsDocumentReady
Type	Boolean
Accessibility	Read only
Description	This property returns whether document is placed on the reader and its presence detected by a sensor (optical or video).

#### IsDocumentRecognized

Property name	IsDocumentRecognized
Type	Variant/dynamic/Boolean
Accessibility	Read only
Description	This property returns whether document type identified during last performed scan and processing.

#### IsMobileComplex

Property name	IsMobileComplex
Type	Boolean
Accessibility	Read only
Description	This property returns whether connected device is a mobile complex.

#### IsNotBlacklisted

Property name	IsNotBlacklisted
Type	Boolean
Accessibility	Read only
Description	This property returns whether processed document/person not found on the hit list (dbBlacklist.dll plugin). Available by request.



### IsVSInstalled

Property name	IsVSInstalled
Type	Boolean
Accessibility	Read only
Description	Deprecated.

### JSONImageResults

Property name	JSONImageResults
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether image-scanning results saved in JSON format in folders specified by <a href="#">ResultsFolder</a> and <a href="#">RecentResultsFolder</a> properties.

### JSONResults

Property name	JSONResults
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether all scanning and processing results saved in JSON format in folders specified by <a href="#">ResultsFolder</a> and <a href="#">RecentResultsFolder</a> properties.

### LanguagesCount

Property name	LanguagesCount
Type	Boolean
Accessibility	Read only
Description	This property returns number of system interface languages available.

### LexAnalysisDepth

Property name	LexAnalysisDepth
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns OR combination of <i>eLexAnalysisDepth</i> enumeration elements to specify parameters and exceptions applied in lexical analysis process.

### LiveCameraCount

Property name	LiveCameraCount
Type	Integer
Accessibility	Read only
Description	This property returns number of available web cameras in the system. Use <a href="#">LiveCameraIndex</a> property to select specific one.

### LiveCameraDepth

Property name	LiveCameraDepth
Type	Boolean
Accessibility	Read/Write
Description	This property enables/disables the usage of camera depth information when capturing a person's live picture. This depth information may be available if an Intel D4xx camera is used, and its SDK is correctly installed. The depth information is used for liveness check. False by default.

### LiveCameraDevices

Method name	LiveCameraDevices
Parameters	int Index – index of the web camera in the available cameras list.
Returns	Dynamic – string with web camera name or null if no camera with such index exists.
Description	This method returns web camera name specified by index in Index parameter from the list of available cameras. Index should be less than <a href="#">LiveCameraCount</a> property value.

### LiveCameraFaceWidthThreshold

Property name	LiveCameraFaceWidthThreshold
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns the threshold value of face width relative to the camera frame width. This threshold is used to define whether a facial image is not too small and will be accepted for processing. 10% by default.

### LiveCameraIndex

Property name	LiveCameraIndex
Type	Integer

Accessibility	Read/Write
Description	This property sets or returns the index of the active camera in the system. 0 by default. This property is used when there are several cameras in the system.

#### LiveCameraResolution

Property name	LiveCameraResolution
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns the camera resolution used to capture faces. By default, it is set to "480p". Other options are "720p", "1080p".

#### LiveCameraRotation

Property name	LiveCameraRotation
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns the rotation angle of the camera frame used for face capture. NONE by default. Other options are "CLOCKWISE", "COUNTERCLOCKWISE".

#### LiveCameraSaveFaces

Property name	LiveCameraSaveFaces
Type	Boolean
Accessibility	Read/Write
Description	This property enables or disables saving captured live face images used for face matching to the results folder. Disabled by default.

#### LiveCameraSaveVideo

Property name	LiveCameraSaveVideo
Type	Boolean
Accessibility	Read/Write
Description	This property enables or disables saving videos of capturing live face images used for face matching to the results folder. Disabled by default.

### LiveCameraShowWindow

Property name	LiveCameraShowWindow
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether to display video from the camera during the live face capture process in a separate interface window. Disabled by default.

### LiveCameraSource

Property name	LiveCameraSource
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns the type of the camera used for face capture. It can be a web camera (0) or IP camera (1). Web camera (0) by default.

### LiveCameraTimeout

Property name	LiveCameraTimeout
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns capture timeout in milliseconds for obtaining live portrait from selected web camera during live comparison process. 5000 by default.

### LiveCameraUrl

Property name	LiveCameraUrl
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns the URL for an IP camera. HTTP and RTSP are supported. Empty by default. This is relevant when <a href="#">LiveCameraSource</a> is set to IP camera (1).

### LiveCameraVideoQuality

Property name	LiveCameraVideoQuality
Type	Integer

Accessibility	Read/Write
Description	This property sets or returns the quality of saved video which impacts the video file size. 100% (no compression) by default.

#### LoadDatabase

Property name	LoadDatabase
Type	Boolean
Accessibility	Read/Write
Description	This property sets or return whether templates database should be loaded on device connection.

#### MakeScannedList

Property name	MakeScannedList
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether list of scanned documents created during scanning and processing documents.

#### ManualEject

Property name	ManualEject
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether ejection of the card will be done automatically (false by default) on processing finished. If set to true, then you may eject the card manually by using <a href="#">EjectDocument</a> method. This property is only effective specifically on 72x3 devices.

#### MinimizeOnRun

Property name	MinimizeOnRun
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether main application window minimized on application start and absent from task bar.

### MRZAdvScheme

Property name	MRZAdvScheme
Type	Boolean
Accessibility	Read/Write
Description	For internal use.

### MRZFileName

Property name	MRZFileName
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns the file name for saving MRZ text results.

### MRZFontsLimit

Property name	MRZFontsLimit
Type	Integer
Accessibility	Read/Write
Description	For internal use.

### MultiPageProcessing

Property name	MultiPageProcessing
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether multipage processing mode enabled during document scanning and processing. If enabled, then depending on the availability of dependent pages description in the database they processed together as one document on consequent scanning. For example, ID card from both sides. Note, that page with owner's photo should always come first when scanning.

### OCRFieldsFilter

Property name	OCRFieldsFilter
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns whether all available OCR fields will be recognized and returned (null property value) or only fields with types in a string (comma-separated list of <i>eVisualFieldType</i> enumeration integer raw values, like "3,4,5").

### OptionsEnabled

Property name	OptionsEnabled
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether “Options” button/menu item are visible and enabled on the main application window. If enabled, users may change application options by opening “Options” dialog by clicking this button/menu item.

### OracleButtonName

Property name	OracleButtonName
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	For internal use.

### PA\_CSCA\_Certificate

Property name	PA_CSCA_Certificate
Type	Variant/dynamic
Accessibility	Read/Write
Description	Deprecated since SDK 4.8.1.

### PA\_DS\_Certificate

Property name	PA_DS_Certificate
Type	Variant/dynamic
Accessibility	Read/Write
Description	Deprecated since SDK 4.8.1.

### PagesCount

Property name	PagesCount
Type	Integer
Accessibility	Read only
Description	This property returns number of pages available with results after last document processing. Can be greater than 1 in case <a href="#">MultiPageProcessing</a> enabled.

## PDFResults

Property name	PDFResults
Type	Boolean
Accessibility	Read/Write
Description	If enabled, when scanning a document, a Report.PDF report will be generated in the result directory.

## ProcessingParams

Property name	ProcessingParams
Type	Variant/dynamic/string
Accessibility	Write only
Description	This property used to set all kind of possible parameters for processing in JSON format. Now, only implemented parameters are for images depersonalization. You may set removing fields (text or graphic) or areas from images in all lights for any or specific document (country, document format, specific document ID, etc.). This property accepts JSON string with specific parameters inside (see optical SDK documentation) or empty string to disable depersonalization. Disabled by default. In future, we plan to use this property for passing all configuration at once for convenience.

## PhotoFileName

Property name	PhotoFileName
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns the file name for saving cropped photo results.

## ProcessResultCode

Property name	ProcessResultCode
Type	Integer
Accessibility	Read only
Description	This property returns error code for optical processing part. Value is one of <i>eRPRM_ErrorCodes</i> enumeration elements.

## QuickBoardingPassProcessing

Property name	QuickBoardingPassProcessing
Type	Boolean



Accessibility	Read/Write
Description	This property sets or returns whether barcode reading on visible image will be performed ahead of all other processing on and if boarding pass barcode found all further processing would be cancelled. If enabled together with <a href="#">UseVideodetection</a> property, barcode reading and parsing of boarding passes, MRZ and Lexical analyze performed instantly on each frame when movement over the reader glass detected. This mode used for obtaining only MRZ from documents and barcodes from boarding passes without actually running a complete scan process. Results are available only by event <a href="#">OnResultReadyXML</a> .

#### QuickMRZProcessing

Property name	QuickMRZProcessing
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether MRZ reading on low-resolution image will be performed ahead of all other processing. If enabled together with <a href="#">UseVideodetection</a> property, MRZ and Lexical analyze performed instantly on each frame when movement over the reader glass detected. This mode used for obtaining only MRZ from documents without actually running a complete scan process. Results are available only by event <a href="#">OnResultReadyXML</a> .

#### RecentResults

Property name	RecentResults
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether application save scanning and processing results to a separate folder specified by <a href="#">RecentResultsFolder</a> property replacing previous scan results.

#### RecentResultsFolder

Property name	RecentResultsFolder
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns folder name and path for saving scanning and processing results that replaced on each scan.

#### ResultPhotoHeight

Property name	ResultPhotoHeight
---------------	-------------------

Type	Integer
Accessibility	Write only
Description	This property sets height in pixels for result images provided by the system. Images resized accordingly saving the proportions.

#### ResultsFolder

Property name	ResultsFolder
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns folder name and path for saving scanning and processing results in chronological order.

#### ResultsTaken

Property name	ResultsTaken
Type	Boolean
Accessibility	Read/Write
Description	For internal use.

#### RFID\_ResponseXML

Property name	RFID_ResponseXML
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns response XML filled by client application in the <a href="#">OnRFIDRequest</a> event handler. It is back to null value on every new scan.

#### RFIDAuthProcType

Property name	RFIDAuthProcType
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns RFID authentication procedure type. Value is one of <i>eRFID_AuthenticationProcedureType</i> enumeration elements.

#### RFIDBaseSMProcedure

Property name	RFIDBaseSMProcedure
---------------	---------------------

Type	Integer
Accessibility	Read/Write
Description	This property sets or returns RFID base security messaging procedure. Value is one of <i>eRFID_AccessControl_ProcedureType</i> enumeration elements.

#### RFIDBaudrate

Property name	RFIDBaudrate
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns maximum allowed RFID communication baud rate. Value is one of <i>eRFID_BaudRate</i> enumeration elements.

#### RFIDBufferSize

Property name	RFIDBufferSize
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns RFID reading buffer size in bytes.

#### RFIDChipExpected

Property name	RFIDChipExpected
Type	Boolean
Accessibility	Read only
Description	This property returns whether RFID chip expected for scanned document (on mobile complex only).

#### RFIDCryptKey

Property name	RFIDCryptKey
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	Deprecated since SDK 4.8.1. Use <a href="#">RFIDMRZ</a> and <a href="#">RFIDPassword</a> instead.

#### RFIDDatagroups

Property name	RFIDDatagroups
Type	Integer

Accessibility	Read/Write
Description	This property sets or returns OR combination of <i>eRFID_DataGroups</i> enumeration elements that used as a list of data groups to read from RFID chip for ePassport application in electronic documents.

#### RFIDDriverVersion

Property name	RFIDDriverVersion
Type	Variant/dynamic/string
Accessibility	Read only
Description	This property returns RFID reader driver version string.

#### RFIDEACPKDFolder

Property name	RFIDEACPKDFolder
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns folder path to EAC certificates local storage.

#### RFIDEDLDatagroups

Property name	RFIDEDLDatagroups
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns OR combination of <i>eRFID_DataGroups</i> enumeration elements that used as a list of data groups to read from RFID chip for eDL application in electronic driver licenses.

#### RFIDErrorsListXML

Property name	RFIDErrorsListXML
Type	Variant/dynamic/string
Accessibility	Read only
Description	This property returns XML buffer containing list of errors and warnings occurred during last scan.

#### RFIDFirmwareVersion

Property name	RFIDFirmwareVersion
Type	Variant/dynamic/string

Accessibility	Read only
Description	This property returns RFID reader firmware version string.

#### RFIDIsDeviceReady

Property name	RFIDIsDeviceReady
Type	Variant/dynamic/Boolean
Accessibility	Read only
Description	This property returns whether RFID reader device is available, connected and ready for operation. If RFID reading is disabled via <a href="#">DoRFID</a> property it will also return False.

#### RFIDIsExpectedChipFound

Property name	RFIDIsExpectedChipFound
Type	Variant/dynamic/Boolean
Accessibility	Read only
Description	This property returns whether chip found if it was expected. If was not expected, returns null.

#### RFIDISOStrict

Property name	RFIDISOStrict
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns strictness level of handling the RFID processing according to ISO standards.

#### RFIDManualDetection

Property name	RFIDManualDetection
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns the way RFID chip presence detected. If enabled, chip detection is started only on document scanning and processing is started (either by sensor or programmatically). Otherwise, chip presence always automatically monitored by system when reader is connected.

## RFIDMRZ

Property name	RFIDMRZ
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns MRZ lines value as a security key for opening RFID security messaging session with a chip (BAC/PACE).

## RFIDOnlineTAToSignDataType

Property name	RFIDOnlineTAToSignDataType
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns data type returned for signature for Terminal Authentication with the TA_Signature request. Value is one of <i>eRFID_TerminalAuthenticationToSignDataType</i> enumeration elements.

## RFIDPACEPasswordType

Property name	RFIDPACEPasswordType
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns password type used for PACE. Value is one of <i>eRFID_Password_Type</i> enumeration elements.

## RFIDPassiveAuth

Property name	RFIDPassiveAuth
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether passive authentication performed during RFID processing.

## RFIDPassword

Property name	RFIDPassword
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns password value as a security key for opening RFID security messaging session with a chip (used for CAN\PIN for PACE\RI).

#### RFIDPKDFolder

Property name	RFIDPKDFolder
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns folder path to local storage of PKD certificates, used for passive authentication.

#### RFIDProcessResultCode

Property name	RFIDProcessResultCode
Type	Integer
Accessibility	Read only
Description	This property returns error code for RFID processing part. Value is one of <i>eRFID_ErrorCodes</i> enumeration elements.

#### RFIDProfilerType

Property name	RFIDProfilerType
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns profiler type used for verification of data from RFID and corresponding certificates. Value is one of <i>eRFID_SDK_ProfilerType</i> enumeration elements.

#### RFIDReadWithoutMRZ

Property name	RFIDReadWithoutMRZ
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether RFID reading occur regardless of security key availability.

#### RFIDRestartOnPCSCError

Property name	RFIDRestartOnPCSCError
Type	Boolean
Accessibility	Read/Write

**Description** This property sets or returns whether second RFID reading will be performed on smart card error during first reading (chip page lifted, document removed and inserted again during reading, lost connection to the chip, etc.). Enabled by default (Boolean, read/write).

#### RFIDSendCVCACertificates

**Property name** RFIDSendCVCACertificates  
**Type** Boolean  
**Accessibility** Read/Write  
**Description** Deprecated since SDK 4.8.1.

#### RFIDSkipAA

**Property name** RFIDSkipAA  
**Type** Boolean  
**Accessibility** Read/Write  
**Description** This property sets or returns whether Active authentication (AA) skipped during RFID reading and processing scenario, after Chip authentication (CA) already performed.

#### RFIDTerminalType

**Property name** RFIDTerminalType  
**Type** Integer  
**Accessibility** Read/Write  
**Description** This property sets or returns terminal type setting used during RFID reading and processing scenario. Value is one of *eRFID\_TerminalType* enumeration elements.

#### RFIDTrustPKD

**Property name** RFIDTrustPKD  
**Type** Boolean  
**Accessibility** Read/Write  
**Description** This property sets or returns whether certificates from local PKD storage set to maximum trust level.

#### RFIDUseEmbeddedPKD

**Property name** RFIDUseEmbeddedPKD



Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether PKD certificates, master lists and CRLs embedded in SDK database extracted to <a href="#">RFIDPKDFolder</a> and used for PA. If disabled, previously extracted files deleted from this folder. Enabled by default.

#### RFIDUseOnlyExternalCSCAForML

Property name	RFIDUseOnlyExternalCSCAForML
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether certificate master lists signature verified only using external CSCA certificates. If false, then MLS certificate contained in master list used if present.

#### RFIDUsePKDDS

Property name	RFIDUsePKDDS
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether DS certificate from SOD ignored and instead searched and taken from PKD.

#### RFIDUseSAM

Property name	RFIDUseSAM
Type	Boolean
Accessibility	Read/Write
Description	This property enables or disables the optional integrated cryptomodule used for reading of Chinese internal IDs. Disabled by default.

#### RFIDUseShortFileID

Property name	RFIDUseShortFileID
Type	Boolean
Accessibility	Read/Write
Description	Enables using the short file ID for data reading. Disabled by default.

### RFIDWaitForInsertTimeout

Property name	RFIDWaitForInsertTimeout
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns timeout in ms waiting for RFID chip to be detected before finishing reading attempt with <a href="#">WaitAndReadRFID</a> method if not.

### RFIDWaitForCryptKeyTimeout

Property name	RFIDWaitForCryptKeyTimeout
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns timeout in ms waiting for MRZ/CAN to become available after chip was detected before finishing reading attempt if not.

### RFIDVersion

Property name	RFIDVersion
Type	Variant/dynamic/string
Accessibility	Read only
Description	This property returns RFID SDK version string.

### RotateResultImages

Property name	RotateResultImages
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether result images rotated to be oriented to have photo positioned correctly vertical.

### SaveChangesOnExit

Property name	SaveChangesOnExit
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether changes made to application settings via COM interface saved when application closed.

### SaveImages

Property name	SaveImages
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether application save last scan image results after scanning and processing to the folders defined by <a href="#">CurrentResultsFolder</a> property and <a href="#">RecentResultsFolder</a> property.

### SaveLiveCaptureToScanFolder

Property name	SaveLiveCaptureToScanFolder
Type	Boolean
Accessibility	Read/Write
Description	This property enables or disables saving of the photos and videos to the scan results folder. Enabled by default.

### SaveOnlyIncorrectScans

Property name	SaveOnlyIncorrectScans
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether application save only incorrect scan results or all scans, regardless of the processing result. Depends on the MRZ checksums, text comparison, security checks and document identification results.

### SavingFormatExtension

Property name	SavingFormatExtension
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns graphical file extension (including period) for saving images.

### SDKPackageVersion

Property name	SDKPackageVersion
Type	Variant/dynamic/string
Accessibility	Read only
Description	This property returns version of installed SDK package.

### SelectedDeviceName

Property name	SelectedDeviceName
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns device name to use for connection with Connect method. If you have more than one device connected to the PC at a time, you can select which one you want to connect. This name you can obtain from <a href="#">AvailableDevices</a> method.

### SeparateOpticalReading

Property name	SeparateOpticalReading
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether optical scanning and RFID reading done in parallel or only optical. If enabled, only optical scanning and processing performed. You need to call RFID reading separately using <a href="#">WaitAndReadRFID</a> method.

### SeparatePhotos

Property name	SeparatePhotos
Type	Boolean
Accessibility	Read/Write
Description	Deprecated since SDK 4.7.1.

### ShowNextPageRequest

Property name	ShowNextPageRequest
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether dialog request for next available document page shown after scanning and processing of the document, if document has more than one-page templates.

### ShowResultLED

Property name	ShowResultLED
Type	Boolean

Accessibility	Read/Write
Description	This property sets whether to turn on/off LED indication of the document scanning result.

#### ShowTrayIcon

Property name	ShowTrayIcon
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns visibility of application tray icon.

#### ShowWaitDialogWhenHidden

Property name	ShowWaitDialogWhenHidden
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether wait dialog with progress shown during scanning and processing when main application window hidden.

#### SmartUV

Property name	SmartUV
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether SmartUV mode enabled. This mode allows capturing UV images without glare even with open lid.

#### StopProcessOnBadImage

Property name	StopProcessOnBadImage
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether image processing cancelled if input images quality check failed (false by default). This is only effective for images processing via <a href="#">DoProcessImages</a> method call. If <a href="#">DoLocateDocument</a> enabled, then before image quality check document detection on the image performed. If no document detected, then process cancelled.

### SystemBatteryStatus

Property name	SystemBatteryStatus
Type	Integer
Accessibility	Read only
Description	This property returns battery charge value in percent. You can check presence of the system battery using <a href="#">BatteryPresent</a> property.

### TA\_ChipSignature

Property name	TA_ChipSignature
Type	Variant/dynamic
Accessibility	Read/Write
Description	Deprecated since SDK 4.8.1.

### TA\_CVCA\_Link\_Certificate

Property name	TA_CVCA_Link_Certificate
Type	Variant/dynamic
Accessibility	Read/Write
Description	Deprecated since SDK 4.8.1.

### TA\_DV\_Certificate

Property name	TA_DV_Certificate
Type	Variant/dynamic
Accessibility	Read/Write
Description	Deprecated since SDK 4.8.1.

### TA\_IS\_Certificate

Property name	TA_IS_Certificate
Type	Variant/dynamic
Accessibility	Read/Write
Description	Deprecated since SDK 4.8.1.

### TA\_IS\_PrivateKey

Property name	TA_IS_PrivateKey
Type	Variant/dynamic

Accessibility	Read/Write
Description	Deprecated since SDK 4.8.1.

#### TextResultsFileName

Property name	TextResultsFileName
Type	Variant/dynamic/string
Accessibility	Read/Write
Description	This property sets or returns filename for saving text data results.

#### TrustDPI

Property name	TrustDPI
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether original DPI of external images will be kept or disregarded (default) while processing.

#### TrustVideoDetectionResult

Property name	TrustVideoDetectionResult
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether video detection results of document position used for document cropping if <a href="#">DoLocateDocument</a> enabled. If disabled, document location will be determined separately. This may affect performance/accuracy of cropping.

#### TXTResults

Property name	TXTResults
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether text data results saved to special file named as defined in <a href="#">TextResultsFileName</a> property in folders specified by <a href="#">ResultsFolder</a> property and by <a href="#">RecentResultsFolder</a> property.

#### UseVideodetection

Property name	UseVideodetection
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Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether document presence video detection mode enabled. If enabled, rectangular objects placed on the reader glass that are still for a moment considered document and detection event fired. Otherwise, document detection event fired only when document is covering optical sensor in the left far corner of the glass.

#### UserData

Property name	UserData
Type	Variant/dynamic/string
Accessibility	Read only
Description	For internal use.

#### UVExp

Property name	UVExp
Type	Integer
Accessibility	Read/Write
Description	This property sets or return default value for UV exposition applied for unrecognized documents. Possible values are from 1 to 10.

#### Version

Property name	Version
Type	Variant/dynamic/string
Accessibility	Read only
Description	This property returns optical SDK version string.

#### VideoDetectionDivider

Property name	VideoDetectionDivider
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns active camera video resolution used for video detection of document presence. Value is division factor from maximum original video mode resolution. By default set to minimum video mode size. See <a href="#">UseVideodetection</a> for details.



### VideoDetectionLowSensibility

Property name	VideoDetectionLowSensibility
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether low sensibility mode enabled. This mode used for readers installed in gates to track only changes in the reader view field that look like documents. Enabled by default.

### VideoMode

Property name	VideoMode
Type	Integer
Accessibility	Read/Write
Description	This property sets or returns active camera video mode. Value is one of the <i>eRPRM_VideoModes</i> enumeration elements. See <a href="#">DeviceAvailableVideoModes</a> property for details.

### WindowHandle

Property name	WindowHandle
Type	Integer
Accessibility	Read/Write
Description	For internal use.

### WorkTime

Property name	WorkTime
Type	Variant/dynamic/DateTime
Accessibility	Read only
Description	This property returns time elapsed from start of the last scanning and processing.

### XMLImageResults

Property name	XMLImageResults
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether image-scanning results saved in XML format in folders specified by <a href="#">ResultsFolder</a> and <a href="#">RecentResultsFolder</a> properties.

## XMLResults

Property name	XMLResults
Type	Boolean
Accessibility	Read/Write
Description	This property sets or returns whether all scanning and processing results saved in XML format in folders specified by <a href="#">ResultsFolder</a> and <a href="#">RecentResultsFolder</a> properties.

## Events

### OnExtPortraitRequest

Event name	OnExtPortraitRequest
Parameters	No
Description	This event raised each time immediately before portrait comparison is called to obtain external portrait photo for comparison (for example from external database). Portrait photo may be added by using <a href="#">AppendPortrait</a> and <a href="#">AppendPortraitFromFile</a> methods. It is raised in case portrait comparison is enabled in <a href="#">DoAuthenticity</a> property or <a href="#">ComparePortraits</a> is called.

### OnImageReady

Event name	OnImageReady
Parameters	int ALight, int APageIndex
Description	This event raised each time SDK result receiving callback called with <i>RPRM_ResultType_RawImage</i> result type. ALight parameter holds value with one of the <i>eRPRM_Lights</i> enumeration elements. APageIndex holds value of the page index for the image (zero based). This event is useful to obtain images from optical reader immediately on their availability using <a href="#">GetReaderBitmapImage</a> , <a href="#">GetReaderFileImage</a> and similar parameterized methods.

### OnNotificationOptical

Event name	OnNotificationOptical
Parameters	int ACode, int AValue
Description	This event raised each time SDK notification callback called. ACode parameter holds value with one of the <i>eRPRM_NotificationCodes</i> enumeration elements. AValue holds value in context of ACode. See <i>NotifyFunc()</i> for details.

### OnNotificationRFID

Event name	OnNotificationRFID
Parameters	int ACode, int AValue
Description	This event raised each time RFID SDK notification callback called. ACode parameter holds value with one of the <i>eRFID_NotificationCodes</i> enumeration elements. AValue holds value in context of ACode.

### OnPassiveAuthentication

Event name	OnPassiveAuthentication
Parameters	object Issuer, object SerialNumber, object SubjectKeyIdentifier
Description	Deprecated since SDK 4.8.1.

### OnProcessingFinished

Event name	OnProcessingFinished
Parameters	
Description	This event raised when scanning, processing and RFID reading finished completely. This means that at this point all results available already for retrieving.

### OnProcessingStarted

Event name	OnProcessingStarted
Parameters	
Description	This event raised when scanning of the document or processing of loaded images starts. It is to notify that new process is in progress.

### OnResultReady

Event name	OnResultReady
Parameters	int AType
Description	This event raised each time SDK result receiving callback called. AType parameter holds value with one of the <i>eRPRM_ResultType</i> enumeration elements. This means that result of this type is available for retrieving at this point. This is useful particularly for MRZ result, as you can obtain it immediately on availability.

## OnResultReadyXML

Event name	OnResultReadyXML
Parameters	int AType, object ResultXML
Description	This event raised each time SDK result receiving callback called and XML representation for this result type is available already. AType parameter holds value with one of the <i>eRPRM_ResultType</i> enumeration elements. This means that result of this type is available for retrieving at this point. ResultXML parameter holds XML representation of result. This is useful particularly for MRZ, Barcode and Lexical analyze results in <a href="#">QuickBoardingPassProcessing</a> mode (when <a href="#">UseVideodetection</a> enabled), as it available immediately, even without actually starting the scan.

## OnRFIDRequest

Event name	OnRFIDRequest
Parameters	object RequestXML
Description	This event raised each time RFID SDK require some information to be provided for further processing. RequestXML parameter holds XML with request and all necessary information required for providing response. You should provide response in XML format in <a href="#">RFID_ResponseXML</a> property. This event particularly used to provide necessarily certificates for Passive and Terminal authentication processes.

## OnTerminalAuthentication

Event name	OnTerminalAuthentication
Parameters	int step, object CAR, object Challenge
Description	Deprecated since SDK 4.8.1.

## OnVideoDetectionFrame

Event name	OnVideoDetectionFrame
Parameters	int SensorState, dynamic Image, dynamic MRZPosition
Description	This event raised each time SDK notification callback called with <i>RPRM_Notification_VideoFrame</i> notification code. SensorState parameter holds value with one of the <i>eDocStatus</i> enumeration elements. Image parameter holds byte array containing file data representation of image. MRZPosition holds JSON representation of <i>TBoundsResult</i> value of the MRZ position on the frame (if any). This event is useful to obtain images from optical reader immediately on their availability from video detection in real time.

## Methods

### AddActiveLight

Method name	AddActiveLight
Parameters	int ALight – light index presented by <i>eRPRM_Lights</i> enumeration element converted to integer.
Returns	void
Description	This method allows you to specify light you want to capture.

### AppendImage

Method name	AppendImage
Parameters	object AImage – byte array of source image graphic file.  object AFormat – graphical format of the source image as an extension string with a dot in front (i.e. “.jpg”).  int ALightType – image light index presented by <i>eRPRM_Lights</i> enumeration element converted to integer.  int APageIndex – image page index.
Returns	void
Description	This method allows you to pass image in memory to COM server for further processing, specifying the array of bytes of the image, its graphical format, light capturing condition and page index. Use <a href="#">DoProcessImages</a> for processing loaded images. When loading images for multiple pages, you should specify values to APageIndex parameters subsequently.

### AppendImageFromFile

Method name	AppendImageFromFile
Parameters	Object AFileName – full file name of the image to append. Only BMP and JPG currently supported.  int ALightType – image light index presented by <i>eRPRM_Lights</i> enumeration element converted to integer.  int APageIndex – image page index.
Returns	void
Description	This method allows you to pass image by its filename for further processing, specifying also light capturing condition and page index. Use <a href="#">DoProcessImages</a> for processing loaded images. When loading images for multiple pages, you should specify values to APageIndex parameters subsequently.

### AppendPortrait

Method name	AppendPortrait
Parameters	object AImage – byte array of portrait image to add string AFormat – image format extension, like “.jpg” int AType – portrait type, one of enum <i>eInputFaceType</i> members.
Returns	void
Description	This method allows manually adding portrait image as in-memory byte array for face matching.

### AppendPortraitFromFile

Method name	AppendPortraitFromFile
Parameters	string AFileName – name of portrait image file to add int AType – portrait type, one of enum <i>eInputFaceType</i> members.
Returns	Void
Description	This method allows manually adding portrait image from file for face matching.

### AppendRFIDData

Method name	AppendRFIDData
Parameters	object AData – byte array of data to add int AType – data type, one of enum <i>eRFID_DataFile_Type</i> members.
Returns	Void
Description	This method allows manually adding previously saved RFID data as in-memory byte array for re-processing using <a href="#">DoProcessImages</a> method.

### AppendRFIDDataFromFile

Method name	AppendRFIDDataFromFile
Parameters	string AFileName –name of data file to add int AType – portrait type, one of enum <i>eRFID_DataFile_Type</i> members.
Returns	void
Description	This method allows manually adding previously saved RFID data from file for re-processing using <a href="#">DoProcessImages</a> method.

### BatteryStatusByIdx

Method name	BatteryStatusByIdx
Parameters	int Aldx – index of the battery to query (zero based).
Returns	int
Description	This function returns status of selected by Aldx parameter device's battery. See <i>RPRM_Command_Options_Get_BatteryStatus</i> command for details. Aldx parameter value should be less than value returned by <a href="#">BatteryCount</a> .

### Calibrate

Method name	Calibrate
Parameters	No
Returns	void
Description	This method allows you to start camera calibration process. You asked to provide two test objects one after another in order to complete the process. You can cancel the process at any time.

### CancelOpticalOperation

Method name	CancelOpticalOperation
Parameters	No
Returns	void
Description	This method allows you to cancel any running optical operation like scanning or calibration. May call it from inside of notification event handlers, for example.

### CheckReaderImageLight

Method name	CheckReaderImageLight
Parameters	int Aldx – index of the image in the list of available result images list.
Returns	int – light index of the image presented by <i>eRPRM_Lights</i> enumeration element converted to integer.
Description	This method returns light index for the result image in the available images list with index Aldx.

### CheckReaderImagePageIndex

Method name	CheckReaderImagePageIndex
Parameters	int Aldx – index of the image in the list of available result images list
Returns	Int – page index of the image (zero based)

Description This method returns page index for the result image in the available images list with index Aldx.

### CheckReaderResult

Method name CheckReaderResult

Parameters int AType – result type to check presented by *eRPRM\_ResultType* enumeration element converted to integer.

int Aldx – index of the result of this type in the available results list.

int AOutput – OR-combination of *eRPRM\_OutputFormat* enumeration elements converted to integer.

object AParam – null or string with file name for saving the result

Returns int – handle of the container with result, or error code (if less than zero)

Description See *\_CheckResult* optical SDK function description for more details.

### CheckReaderResultFromList

Method name CheckReaderResultFromList

Parameters int AContainer – handle of the container with the result, taken from [CheckReaderResult](#) prior call.

int AOutput – one of *eOutputFormatField* enumeration elements converted to integer.

object AParam – null or string with file name for saving the result.

Returns int – field type presented by *eVisualFieldType* or *eGraphicFieldType* enumeration value converted to integer, or error code (*eRPRM\_ResultStatus* enumeration) if less than zero.

Description See *\_CheckResultFromList* optical SDK function description for more details.

### CheckReaderResultJSON

Method name CheckReaderResultJSON

Parameters int AType – result type to obtain presented by *eRPRM\_ResultType* enumeration element converted to integer.

int Aldx – index of the result in available results list.

int AOutput – not used, zero by default.

Returns dynamic – string with JSON result or null if such result is not present

Description This method returns JSON string with JSON representation of the optical result specified in AType parameter. You can get number of available results by calling



[IsReaderResultTypeAvailable](#) method with AType parameter value. If this value is greater than 1, then you may need to specify required result index in Aldx parameter (in case [MultiPageProcessing](#) mode enabled, for example). Usually this done in a loop.

Example:

```
int Count = IsResultTypeAvailable((int) eRPRM_ResultType.  
RPRM_ResultType_Visual_OCR_Extended);  
  
for(int i = 0; i<Count; i++)  
{  
  
string JSON = CheckReaderResultJSON((int) eRPRM_ResultType.  
RPRM_ResultType_Visual_OCR_Extended, i);  
  
}
```

#### CheckReaderResultXML

Method name	CheckReaderResultXML
Parameters	<p>int AType – result type to obtain presented by <i>eRPRM_ResultType</i> enumeration element converted to integer.</p> <p>int Aldx – index of the result in available results list.</p> <p>int AOutput – not used, zero by default.</p>
Returns	dynamic – string with XML result or null if such result is not present
Description	This method returns XML string with XML representation of the optical result specified in AType parameter. You can get number of available results by calling <a href="#">IsReaderResultTypeAvailable</a> method with AType parameter value. If this value is greater than 1, then you may need to specify required result index in Aldx parameter (in case <a href="#">MultiPageProcessing</a> mode enabled, for example). Usually this done in a loop.

Example:

```
int Count = IsResultTypeAvailable((int) eRPRM_ResultType.  
RPRM_ResultType_Visual_OCR_Extended);  
  
for(int i = 0; i<Count; i++)
```

```

{
string XML = CheckReaderResultXML((int) eRPRM_ResultType.
RPRM_ResultType_Visual_OCR_Extended, i);
}

```

### CheckRFIDResult

Method name	CheckRFIDResult
Parameters	<p>int AType – result type to obtain presented by <i>eRFID_ResultType</i> enumeration element converted to integer.</p> <p>int AOutput – OR-combination of <i>eRFID_OutputFormat</i> enumeration elements converted to integer.</p> <p>object AParam – null or string with file name for saving the result.</p>
Returns	int – handle of the container with result, or error code (if less than zero)
Description	See <i>_CheckResult</i> RFID SDK function description for more details.

### CheckRFIDResultFromList

Method name	CheckRFIDResultFromList
Parameters	<p>int AContainer – handle of the container with the result, taken from <a href="#">CheckRFIDResult</a> prior call.</p> <p>int AOutput – one of <i>eRFID_OutputFormatField</i> enumeration elements converted to integer.</p> <p>object AParam – null or string with file name for saving the result.</p>
Returns	int – field type presented by <i>eVisualFieldType</i> or <i>eGraphicFieldType</i> enumeration value converted to integer, or error code ( <i>eRFID_ResultStatus</i> enumeration) if less than zero.
Description	See <i>_CheckResultFromList</i> RFID SDK function description for more details.

### CheckRFIDResultJSON

Method name	CheckRFIDResultJSON
Parameters	<p>int AType – result type to obtain presented by <i>eRFID_ResultType</i> enumeration element converted to integer.</p> <p>int AOutput – not used, zero by default.</p>
Returns	dynamic – string with JSON result or null if such result is not present
Description	This method returns JSON string with JSON representation of the RFID result specified in AType parameter.

### CheckRFIDResultXML

Method name	CheckRFIDResultXML
Parameters	int AType – result type to obtain presented by <i>eRFID_ResultType</i> enumeration element converted to integer.  int AOutput – not used, zero by default.
Returns	dynamic – string with XML result or null if such result is not present
Description	This method returns XML string with XML representation of the RFID result specified in AType parameter.

### CheckUpdates

Method name	CheckUpdates
Parameters	No
Returns	void
Description	This method instantly checks for SDK and template database availability on our FTP server (or <a href="#">CustomUpdateServerHost</a> if set).

### ClearResults

Method name	ClearResults
Parameters	No
Returns	void
Description	This method clears all previous scanning results, both from interface and inside SDK, freeing allocated memory for these resources.

### ComparePortraits

Method name	ComparePortraits
Parameters	No
Returns	void
Description	This method performs face matching process.

### Connect

Method name	Connect
Parameters	No
Returns	void

**Description** This method allows you to connect and initialize the device, attached to PC. Both camera and RFID reader connected, if [DoRFID](#) property set to True. This method is synchronous and returns control to the application only when initialization done and device is ready to operate, or any error occurs. In case there is more than one reader, attached to the PC, by default first in the list connected. You can control which one you want to connect by using [ActiveDeviceIdx](#) property, specifying required one.

#### CustomProcess

**Method name** CustomProcess

**Parameters** Variant\dynamic|string AParams

**Returns** Variant\dynamic|string

**Description** For internal use

#### Disconnect

**Method name** Disconnect

**Parameters** No

**Returns** void

**Description** This method allows you to disconnect currently connected device. Method called automatically when you physically disconnect device from PC or dispose the COM object reference.

#### DoLiveFaceCapture

**Method name** DoLiveFaceCapture

**Parameters** No

**Returns** void

**Description** This method allows starting the face capture process manually.

#### DoProcessImage

**Method name** DoProcessImage

**Parameters** object AFilename – string with image file name to process.

**Returns** int – processing error code presented by *eRPRM\_ErrorCodes* enumeration element converted to integer

**Description** This method allows you to process previously saved image the same way as during scanning. You can specify image file name in AFilename parameter. Look for [DoProcessImages](#) method description for file naming rules.

## DoProcessImages

Method name	DoProcessImages
Parameters	object AFolder – string with folder name containing images to process or null in case of processing previously loaded images.
Returns	int – processing error code presented by <i>eRPRM_ErrorCodes</i> enumeration element converted to integer
Description	<p>This method allows you to process previously saved images the same way as during scanning. You can specify folder name containing images in AFolder parameter. Images should be named the same way as they are named when saved by application:</p> <ul style="list-style-type: none"><li>• WHITE.jpg or WHITE.bmp for visible image;</li><li>• IR.jpg or IR.BMP for infrared image;</li><li>• UV.jpg or UV.bmp for ultraviolet image;</li><li>• AXIAL_WHITE.jpg or AXIAL_WHITE.bmp for axial image;</li><li>• TRANSMITTED.jpg or TRANSMITTED bmp for transmitted image.</li></ul> <p>If you pass null value to the AFolder parameter, images previously loaded with <a href="#">AppendImage</a> or <a href="#">AppendImageFromFile</a> methods are processed.</p>

## EjectDocument

Method name	EjectDocument
Parameters	No
Returns	Void
Description	<p>This method allows you to eject the card manually from the reader. This is effective only on 72x3 devices. Together with <a href="#">ManualEject</a> property, this method may be helpful if you want to keep card inside the reader for some time after processing finished. If <a href="#">ManualEject</a> is set to true, but you still do not call this method, card ejected automatically after HW defined timeout.</p>

## FPCompare

Method name	FPCompare
Parameters	No
Returns	Integer
Description	This method allows running the fingerprint comparison process manually.

## FPScan

Method name	FPScan
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Parameters	int AFingerIndex – index of the scanned finger.
Returns	WordBool
Description	This method allows running the fingerprint scan process for the selected finger manually.

#### FPScanUI

Method name	FPScanUI
Parameters	No
Returns	Void
Description	This method shows the fingerprint scan UI dialog.

#### GetBarcodeModuleCount

Method name	GetBarcodeModuleCount
Parameters	No
Returns	int – number of barcode modules detected.
Description	int GetBarcodeModuleCount();  This method returns the number of barcode modules detected on the scanned images of the last document. If this method returns zero, this means either no barcodes found, either barcode reading is disabled.

#### GetBarcodeModuleDataByIdx

Method name	GetBarcodeModuleDataByIdx
Parameters	int Aldx – index of the barcode module from list of available modules in the results (zero based).
Returns	dynamic – byte array of data from barcode module or null, if no module with such index exists in the results.
Description	This method returns byte array of data from barcode module with index Aldx from list of available barcode modules on the scanned images of the last document. Aldx parameter value should be less than value returned by <a href="#">GetBarcodeModuleCount</a> .

#### GetGraphicFieldByTypeAndSource

Method name	GetGraphicFieldByTypeAndSource
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Parameters	<p>int AType –field type presented by <i>eGraphicFieldType</i> enumeration element converted to integer.</p> <p>int ASourceType – source type presented by the following enumeration elements converted to integer. Possible values are:</p> <ul style="list-style-type: none"> <li>• eRPRM_ResultType.RPRM_ResultType_Graphics,</li> <li>• eRPRM_ResultType.RPRM_ResultType_BarCodes_ImageData,</li> <li>• eRFID_ResultType.RFID_ResultType_RFID_ImageData</li> </ul>
Returns	dynamic – byte array containing graphical field image or null if no such field exists in results.
Description	This method returns byte array containing graphical field image of the type specified in AType parameter from source specified in ASourceType. Image presented in graphical format specified by <a href="#">SavingFormatExtension</a> property.

#### GetLED

Method name	GetLED
Parameters	int Idx – LED indicator index
Returns	int – current color of selected indicator.
Description	This method allows you to get current color of selected indicator by its index. Return value is one of the <i>eLED_Color</i> enumeration values.

#### GetImages

Method name	GetImages
Parameters	No
Returns	int – processing error code presented by <i>eRPRM_ErrorCodes</i> enumeration element converted to integer
Description	This method allows you to start scanning and processing of the document manually. If <a href="#">AutoScan</a> property set to True, there is no need to call this method, as scanning and processing initiated automatically by document presence. You should process events to get the processing finished notification. This method does nothing if the device is not connected.

#### GetMRZLines

Method name	GetMRZLines
Parameters	No
Returns	dynamic – string with MRZ lines or null is no MRZ result available.

Description This method returns MRZ lines as a combined single line, if MRZ detected and read during last scan. It is useful if you have existing system accepting data from swipe MRZ readers.

#### GetReaderBitmapImage

Method name GetReaderBitmapImage

Parameters int Aldx – index of image in list of available images

Returns dynamic – byte array containing bitmap image or null if no such index exists in the results.

Description This method returns byte array containing general view bitmap image from the list of available images with index specified in Aldx parameter. You can get number of available images by calling [IsReaderResultTypeAvailable](#) method with *eRPRM\_ResultType.RPRM\_ResultType\_RawImage* parameter.

#### GetReaderBitmapImageByLightIndex

Method name GetReaderBitmapImageByLightIndex

Parameters int ALight – light index of image to retrieve

Returns dynamic – byte array containing bitmap image or null if no such light exists in the results.

Description This method returns byte array containing general view bitmap image with light type specified in ALight parameter (one of *eRPRM\_Lights* enumeration elements converted to integer). This method returns first available image with requested light type from the list of available images.

#### GetReaderBitmapImageByLightIndexAndPageIndex

Method name GetReaderBitmapImageByLightIndexAndPageIndex

Parameters int ALight – light index of image to retrieve  
int APageIndex – index of the page

Returns dynamic – byte array containing bitmap image or null if no such light or page index exists in the results.

Description This method returns byte array containing general view bitmap image with light type specified in ALight parameter (one of *eRPRM\_Lights* enumeration elements converted to integer) and page index specified in APageIndex parameter. This method returns available image with requested light type and page index from the list of available images. APageIndex parameter value should be less than [PagesCount](#) property value.



### GetReaderEOSBitmapImage

Method name	GetReaderEOSBitmapImage
Parameters	int Aldx – index of image in list of available images
Returns	dynamic – byte array containing bitmap image or null if no such index exists in the results.
Description	See <a href="#">GetReaderBitmapImage</a> method description. This method returns high quality image for high-resolution devices.

### GetReaderEOSBitmapImageByLightIndex

Method name	GetReaderEOSBitmapImageByLightIndex
Parameters	int ALight – light index of image to retrieve
Returns	dynamic – byte array containing bitmap image or null if no such light exists in the results.
Description	See <a href="#">GetReaderBitmapImageByLightIndex</a> method description. This method returns high quality image for high-resolution devices.

### GetReaderEOSBitmapImageByLightIndexAndPageIndex

Method name	GetReaderEOSBitmapImageByLightIndexAndPageIndex
Parameters	int ALight – light index of image to retrieve int APageIndex – index of the page
Returns	dynamic – byte array containing bitmap image or null if no such light or page index exists in the results.
Description	See <a href="#">GetReaderBitmapImageByLightIndexAndPageIndex</a> method description. This method returns high quality image for high-resolution devices.

### GetReaderFileImage

Method name	GetReaderFileImage
Parameters	int Aldx – index of image in list of available images
Returns	dynamic – byte array containing file data representation of image or null if no such index exists in the results.
Description	This method returns byte array containing general view image from the list of available images with index specified in Aldx parameter. Image presented in graphical format specified by <a href="#">SavingFormatExtension</a> property. You can get number of available images by calling <a href="#">IsReaderResultTypeAvailable</a> method with <i>eRPRM_ResultType.RPRM_ResultType_FileImage</i> parameter.

### GetReaderFileImageByLightIndex

Method name	GetReaderFileImageByLightIndex
Parameters	int ALight – light index of image to retrieve
Returns	dynamic – byte array containing file data representation of image or null if no such light exists in the results.
Description	This method returns byte array containing general view image with light type specified in ALight parameter (one of <i>eRPRM_Lights</i> enumeration elements converted to integer). This method returns first available image with requested light type from the list of available images. Image presented in graphical format specified by <a href="#">SavingFormatExtension</a> property.

### GetReaderFileImageByLightIndexAndPageIndex

Method name	GetReaderFileImageByLightIndexAndPageIndex
Parameters	int ALight – light index of image to retrieve int APageIndex – index of the page
Returns	dynamic – byte array containing file data representation of image or null if no such light or page index exists in the results.
Description	This method returns byte array containing general view bitmap image with light type specified in ALight parameter (one of <i>eRPRM_Lights</i> enumeration elements converted to integer) and page index specified in APageIndex parameter. This method returns available image with requested light type and page index from the list of available images. Image presented in graphical format specified by <a href="#">SavingFormatExtension</a> property. APageIndex parameter value should be less than <a href="#">PagesCount</a> property value.

### GetReaderGraphicsBitmapByFieldType

Method name	GetReaderGraphicsBitmapByFieldType
Parameters	int AType – field type presented by an <i>eGraphicFieldType</i> enumeration element converted to integer.
Returns	dynamic – byte array containing bitmap image or null if no such field exists in the results.
Description	This method returns a byte array containing a graphical field bitmap image of the type specified in the AType parameter from the optical <i>eRPRM_ResultType.RPRM_ResultType_Graphics</i> result type.

### GetReaderGraphicsBitmapByFieldTypeAndSource

Method name	GetReaderGraphicsBitmapByFieldTypeAndSource
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Parameters	<p>int AType – field type presented by an <i>eGraphicFieldType</i> enumeration element converted to integer.</p> <p>int ASourceType – source type presented by an <i>eRPRM_ResultType</i> enumeration element converted to integer. Possible values are:</p> <ul style="list-style-type: none"> <li>• eRPRM_ResultType.RPRM_ResultType_Graphics,</li> <li>• eRPRM_ResultType.RPRM_ResultType_BarCodes_ImageData,</li> <li>• eRFID_ResultType.RFID_ResultType_RFID_ImageData,</li> <li>• RPRM_ResultType.RPRM_ResultType_FingerPrints.</li> </ul>
Returns	dynamic – byte array containing a bitmap image or null if no such field exists in the results.
Description	This method returns a byte array containing a graphical field bitmap image of the type specified in the AType parameter using the source of data set in the ASourceType parameter.

#### GetReaderGraphicsFileImageByFieldType

Method name	GetReaderGraphicsFileImageByFieldType
Parameters	int AType – field type presented by an <i>eGraphicFieldType</i> enumeration element converted to integer.
Returns	dynamic – byte array containing graphical field file data representation of the image or null if no such field exists in the results.
Description	This method returns a byte array containing a graphical field image of the type specified in the AType parameter from the optical <i>eRPRM_ResultType.RPRM_ResultType_Graphics</i> result type. Image presented in graphical format specified by the <a href="#">SavingFormatExtension</a> property.

#### GetReaderGraphicsFileImageByFieldTypeAndSource

Method name	GetReaderGraphicsFileImageByFieldTypeAndSource
Parameters	<p>int AType – field type presented by an <i>eGraphicFieldType</i> enumeration element converted to integer.</p> <p>int ASourceType – source type presented by an <i>eRPRM_ResultType</i> enumeration element converted to integer. Possible values are:</p> <ul style="list-style-type: none"> <li>• eRPRM_ResultType.RPRM_ResultType_Graphics,</li> <li>• eRPRM_ResultType.RPRM_ResultType_BarCodes_ImageData,</li> <li>• eRFID_ResultType.RFID_ResultType_RFID_ImageData,</li> <li>• RPRM_ResultType.RPRM_ResultType_FingerPrints.</li> </ul>
Returns	dynamic – byte array containing graphical field file data representation of the image or null if no such field exists in the results.

Description This method returns a byte array containing a graphical field image of the type specified in the AType parameter using the source of data set in the ASourceType parameter. Image presented in graphical format specified by the [SavingFormatExtension](#) property.

#### GetRFIDDGRawData

Method name GetRFIDDGRawData

Parameters int AType – data group identifier presented by *eRFID\_DataFile\_Type* enumeration element converted to integer.

Returns dynamic – byte array, containing binary data from requested data group or null if no such data group exists in results.

Description This method returns byte array containing binary data from RFID chip data group specified by AType parameter in case this data group is available and read.

#### GetRFIDGraphicsBitmapByFieldType

Method name GetRFIDGraphicsBitmapByFieldType

Parameters int AType –field type presented by *eGraphicFieldType* enumeration element converted to integer.

Returns dynamic – byte array containing graphical field bitmap image or nul if no such field exists in results.

Description This method returns byte array containing graphical field bitmap image of the specified type specified in AType parameter from RFID *eRFID\_ResultType.RFID\_ResultType\_RFID\_ImageData* result type.

#### GetRFIDGraphicsFileImageByFieldType

Method name GetRFIDGraphicsFileImageByFieldType

Parameters int AType – field type presented by *eGraphicFieldType* enumeration element converted to integer.

Returns dynamic – byte array containing graphical field file data representation of image or null if no such field exists in the results.

Description This method returns byte array containing graphical field image of the specified type specified in AType parameter from RFID *eRFID\_ResultType.RFID\_ResultType\_RFID\_ImageData* result type. Image presented in graphical format specified by [SavingFormatExtension](#) property.

#### GetSnapshot

Method name GetSnapshot

Parameters	<p>int ALight – image light index presented by <i>eRPRM_Lights</i> enumeration element converted to integer.</p> <p>int AMode – reserved for internal use. Should be set to zero.</p>
Returns	Void
Description	This method allows you additionally to capture/recapture specific single image with light type specified in ALight parameter.

### GetTextFieldByType

Method name	GetTextFieldByType
Parameters	int AType –field type presented by <i>eVisualFieldType</i> enumeration element converted to integer.
Returns	dynamic – string with selected text field value or null if no such field exists in results
Description	<p>This method returns value of the text field specified by its type in AType parameter. Value encoded in UTF8. If the field of this type available, then its value obtained from <i>RPRM_ResultType_OCRLexicalAnalyze</i> result type in the following order:</p> <ul style="list-style-type: none"> <li>• if MRZ value is present, it will be taken;</li> <li>• if no MRZ, but RFID value is present, it will be taken;</li> <li>• if no MRZ, no RFID, but Barcode value is present, it will be taken;</li> <li>• if no MRZ, no RFID, no Barcode, but Visual OCR value is present, it will be taken;</li> <li>• if no MRZ, no RFID, no Barcode, no Visual OCR value of this field type is present – value will be null.</li> </ul>

### GetTextFieldByTypeAndLCID

Method name	GetTextFieldByTypeAndLCID
Parameters	<p>int AType –field type presented by <i>eVisualFieldType</i> enumeration element converted to integer.</p> <p>int ALCID – field Locale ID assigned by Microsoft (<a href="http://msdn.microsoft.com/en-us/goglobal/bb964664.aspx">http://msdn.microsoft.com/en-us/goglobal/bb964664.aspx</a>).</p>
Returns	dynamic – string with selected text field value or null if no such field exists in results
Description	This method returns value of the text field specified by its type in AType parameter and its Locale ID value specified in ALCID parameter. Same logic applied as in <a href="#">GetTextFieldByType</a> method except for LCID filter applied.

## GetTextFieldByTypeAndSource

Method name	GetTextFieldByTypeAndSource
Parameters	<p>int AType – field type presented by <i>eVisualFieldType</i> enumeration element converted to integer.</p> <p>int ASourceType – result type presented by <i>eRPRM_ResultType</i> enumeration element converted to integer. Possible values are:</p> <ul style="list-style-type: none"><li>• RPRM_ResultType_MRZ_OCR_Extended,</li><li>• RPRM_ResultType_Visual_OCR_Extended,</li><li>• RPRM_ResultType_BarCodes_ImageData,</li><li>• RPRM_ResultType_MagneticStripe_TextData.</li></ul> <p>bool AOriginalSource – option whether to retrieve or not result from original source.</p> <p>int ALCID – field Locale ID assigned by Microsoft (<a href="http://msdn.microsoft.com/en-us/goglobal/bb964664.aspx">http://msdn.microsoft.com/en-us/goglobal/bb964664.aspx</a>).</p>
Returns	dynamic – string with selected text field value or null if no such field exists in results
Description	This method returns value of the text field specified by its type in AType parameter and its Locale ID value specified in ALCID parameter using source of data set in ASourceType parameter. If AOriginalSource parameter value is set to True, data retrieved from original result type, otherwise from <i>RPRM_ResultType_OCRLexicalAnalyze</i> result type.

## HealthCheck

Method name	HealthCheck
Parameters	No
Returns	dynamic – string with JSON information about the state of the reader modules: <pre>function TRegulaReader.HealthCheck: OleVariant;</pre>
Description	This function returns JSON information about the state of the reader modules.

## Hide

Method name	Hide
Parameters	No
Returns	void
Description	This method allows you to hide Document reader application interface.

## HideResultPopup

Method name	HideResultPopup
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Parameters	No
Returns	Void
Description	This method allows you to hide result window that appears after scanning and processing finished when <a href="#">DoShowResultPopUp</a> property is set to True.

#### IsReaderResultTypeAvailable

Method name	IsReaderResultTypeAvailable
Parameters	int AType - one of <i>eRPRM_ResultType</i> enumeration elements converted to integer
Returns	int – number of results of the requested type available
Description	<p>This method returns the number of available results of the type specified in AType parameter.</p> <p>For example, to know whether image results are available and how many, you should call</p> <pre>int Count = IsReaderResultTypeAvailable(eRPRM_ResultType.eRPRM_ResultType_RawImage );</pre>

#### LED

Method name	LED
Parameters	<p>int AColor - <i>eLED_Color</i> enumeration element converted to integer</p> <p>int ABlinkRate – blinking rate (0 – still, greater values – faster blinking)</p> <p>int AIndex – LED number to control (0-3). Zero by default.</p>
Returns	Void
Description	This method allows you to control device LED. You can switch it off or on with selected color specified in AColor parameter, set blinking rate frequency specified in ABlinkRate parameter. Optionally you may specify LED number to control for devices with multiple LEDs.

#### PKDAddResource

Method name	PKDAddResource
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Parameters	<p>int AType – resource type, one of enum <i>eRFID_PKD_ResourceType</i> members.</p> <p>object AData – byte array of resource data.</p> <p>object AName – resource name, null or string.</p> <p>bool AutoRefresh – flag to update the storage automatically after adding a resource.</p>
Returns	void
Description	This method allows adding a resource (certificate, master list, defect list, etc.) to PKD as in-memory byte array.

#### PKDAddResourceFromFile

Method name	PKDAddResourceFromFile
Parameters	<p>int AType – resource type, one of enum <i>eRFID_PKD_ResourceType</i> members.</p> <p>string AFileName – resource file name.</p> <p>bool AutoRefresh – flag to update the storage automatically after adding a resource.</p>
Returns	void
Description	This method allows adding a resource (certificate, master list, defect list, etc.) to PKD from file by its name.

#### PKDClearPAStore

Method name	PKDClearPAStore
Parameters	No
Returns	void
Description	This method clears the part of PKD used for Passive Authentication.

#### PKDClearTASore

Method name	PKDClearTASore
Parameters	No
Returns	void
Description	This method clears the part of PKD used for Terminal Authentication.



### PKDRefreshPAStore

Method name	PKDRefreshPAStore
Parameters	No
Returns	void
Description	This method refreshes the part of PKD used for Passive Authentication. It should be called after calling the method <a href="#">PKDAddResource</a> to rebuild the PKD and apply changes if the <i>AutoRefresh</i> parameter is set to false.

### PKDRefreshTAStore

Method name	PKDRefreshTAStore
Parameters	No
Returns	void
Description	This method refreshes the part of PKD used for Terminal Authentication. It should be called after calling the method <a href="#">PKDAddResource</a> to rebuild the PKD and apply changes if the <i>AutoRefresh</i> parameter is set to false.

### PlaySound

Method name	PlaySound
Parameters	int ATimes
Returns	Void
Description	This method plays beep sound ATimes number of times. If device is equipped with buzzer, then sounds comes from it. If not – from PC.

### RefreshPACertStore

Method name	RefreshPACertStore
Parameters	No
Returns	int – number of certificates found and registered in the internal certificate storage.
Description	This method allows you to tell the COM server to refresh the internal PA certificates storage. Folder specified by <a href="#">RFIDPKDFolder</a> property would be re-read and certificates stored in it added to internal storage.

### ReportCurrentSampleIssue

Method name	ReportCurrentSampleIssue
Parameters	No

Returns	void
Description	This method allows you to share current document scanned images with support service immediately. This is useful for automating reporting process.

#### RFIDCancelReading

Method name	RFIDCancelReading
Parameters	No
Returns	void
Description	This method allows you to stop reading RFID chip at any moment.

#### SetActiveLights

Method name	SetActiveLights
Parameters	int ALights – OR-combination of <i>eRPRM_Lights</i> enumeration elements to capture converted to integer.
Returns	int – containing OR-combination of <i>eRPRM_Lights</i> enumeration elements converted to integer set.
Description	This method allows you to set light types to capture during scanning. You can also clear list of active lights to capture by passing 0 as parameter. You may also use <a href="#">AddActiveLight</a> method to add lights one by one. This is useful when you need to specify lights that are parts of another light value, like White_Side and White_Top are parts of White_Full, and it is not possible to set all three at a time via <a href="#">SetActiveLights</a> . Instead you should use <a href="#">AddActiveLight</a> for each of the lights.

#### SetDefaultOptions

Method name	SetDefaultOptions
Parameters	No
Returns	void
Description	This method allows you to reset all settings to default values. All the default values are stored in the settings file RegulaReader.ini.

#### SetRFIDTCCParams

Method name	SetRFIDTCCParams
Parameters	int AParams – connection parameters in JSON format, including URL of the TCC service, URL of the certificate to use for access and its passphrase.

Returns	int – error code. If there was no connection to the service or it was not possible to download certificate, response will be non-zero.
Description	This method allows you to set TCC service parameters to use (BSI TR-03129). In case these parameters are set correctly, then TCC will be accessed for certificates and signing the challenge during Terminal Authentication process when reading the chip.

#### SaveConfig

Method name	SaveConfig
Parameters	No
Returns	void
Description	This method allows you to save immediately all the configuration changes you have made programmatically.

#### Show

Method name	Show
Parameters	No
Returns	void
Description	This method allows you to show up Document Reader application interface.

#### ShowPrintDialog

Method name	ShowPrintDialog
Parameters	No
Returns	void
Description	This method allows you to display Print parameters dialog.

#### ShowVS

Method name	ShowVS
Parameters	No
Returns	void
Description	Deprecated since SDK 4.7.1.

#### WaitAndReadRFID

Method name	WaitAndReadRFID
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Parameters	No
Returns	void
Description	This method allows you to start process of processing RFID chip separately from optical scanning. Once you run this method, application will wait for RFID chip presence (with 10 seconds timeout) and once chip is present RFID reading will start. This method is asynchronous.