

ABBYY Mobile Capture SDK

Developer's Guide

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Introducing ABBYY Mobile Capture

Welcome to ABBYY Mobile Capture.

ABBYY Mobile Capture is a software development kit that provides flexible methods of mobile data capture. The Mobile Capture SDK will automatically capture the image for further back-end processing or recognize the data from the document in real-time on the mobile device, requiring minimal interaction from the user.

Key features:

The ABBYY Mobile Capture SDK can power your applications with:

Out-of-the-box image capture: Easily add image capture with UI components by utilizing our API, to automatically capture the best quality image suitable for OCR for further back-end processing.

Automatic document detection: Detects document boundaries, crops and corrects perspective.

On device OCR: Automatically recognizes text from a static image or on the smartphones' camera preview screen from video stream by simply pointing the camera on the document or object.

Customizable data capture: Extract any specific data from a document by setting a regular expression describing the required content. Capture machine-readable zones (MRZ) or international bank account numbers (IBAN) by simply applying predefined profiles.

Out-of-the-box document capture: Easily add ready-made functionality to extract important fields from specific documents: passports, IDs, driver licenses, bank cards and others.

Ready-to-use business card reading: Allows automatic and convenient extraction of contact data from business cards by simply pointing the camera at the card to use within your mobile CRM or lead management app or for customer onboarding.

Out-of-the-box image capture scenario: Implement image capture by adding just a few lines of code to your app, using API that can draw UI, handle phone camera and perform image capture.

Translation: Provides built-in translation dictionaries; word-by-word and phrase-by-phrase.

Benefits:

- *Increase your customer retention rates:* Provide your customers with a seamless customer experience with a friendly mobile onboarding solution, meeting customers in their preferred channel with accurate results and minimal steps for the end user.
- *Get ahead of the competition:* Provide a better customer experience by minimizing the efforts by the end user to capture and deliver data within the onboarding experience with seamless accurate back-end integration to process the required information.
- *Optimize your development resources:* Easily integrate a pre-built comprehensive mobile capture solution into your mobile application.

Guided Tour

This section will help you to get started using ABBYY Mobile Capture.

- [How to Add the Library to Your Xcode Project](#)
- Implementation of any capture scenario, using the User Interface API
- Step-by-step guides to the simple scenarios:
 - [How to Capture Image from Camera](#)
 - [How to Capture Text from Camera](#)
 - [How to Recognize Text on Photos](#)
 - [How to Capture Data from Documents](#)
 - [How to Capture a Custom Data Field](#)
- [Code Samples](#)

How to Add the Library to Your Xcode Project

To create an application which uses ABBYY Mobile Capture SDK, you will need to add the library to your project, copy resource files and sign the framework. The configuring can be done mostly manually or by scripts. This is required for new projects only — packaged examples work out of the box.

Building application in manual mode

1. Add the frameworks from the **libs** folder to your project. Please keep strictly to the following order:
 - 1) AbbyyRtrSDK.framework
 - 2) AbbyyZlib.framework
 - 3) CustomAllocator.framework
 - 4) FineMachineLearning.framework
 - 5) FineObj.framework
 - 6) Image.Mobile.framework
 - 7) MobileImaging.framework
2. Add the **license** file to your project (simply drag and drop it into your project window).
3. Select your project in the **Target** group and open the **Build Phases** tab. In the **Link Binary With Libraries** section, click "+" and add the **AbbyyRtrSDK.framework**.
4. Open the **General** tab and add all the frameworks to the section **Embedded Binaries**.
5. Now you need to add the resource files and set up the copying rules. See Distribution Kit for a detailed description of the necessary resources. To add the resource files do the following:
 - 1) Go to **Build Phases** and add a new **Copy Files** phase.
 - 2) In the **Destination** field, specify **Resources**.
 - 3) In the **Subpath** field, specify **bcr, dictionaries, patterns, translation** and other required resource files.
6. Finally, add framework signing:
 - 1) In **Build Phases**, add a new **Run Script** phase.
 - 2) Run the **copy_frameworks.sh** script that removes the frameworks for the non-active CPU architectures (the complete list depends on the project settings), and sign the resulting framework. This is a required step before uploading your application to App Store.

```
/bin/sh "${SRCROOT}/../libs/copy_frameworks.sh"
```

Building application using scripts

1. Add the **license** file to your project (simply drag and drop it into your project window).

2. Add the **AbbyRtrSDK.framework** from the **libs** folder to your project.
3. Select your project in the **Target** group and open the **Build Phases** tab. In the **Link Binary With Libraries** section, click "+" and add the **AbbyRtrSDK.framework**.
4. Add all the other frameworks to your project using script:
 - a. In **Build Phases**, add a new **Run Script** phase.
 - b. Run the **copy_frameworks.sh** script to add all the frameworks to you project. It will also remove from the frameworks the non-active CPU architectures (the complete list depends on the project settings) and sign the resulting framework. This is a required step before uploading your application to App Store.

```
/bin/sh "${SRCROOT}/../libs/copy_frameworks.sh"
```

5. Now you need to add the resource files and set up the copying rules:
 - a. In **Build Phases**, add a new **Run Script** phase.
 - b. Run the **copy_assets.py** script to automatically copy all resource files to corresponding destinations and add necessary dictionaries. Your scenario may require only certain assets, therefor the script provides customizable settings: keys. Set the key value to copy only specified for the scenario source files. See the script file for details.

```
python "${SRCROOT}/../assets/copy_assets.py"
```

! **Important!** *Your application needs an Internet connection to gather the information about the current state of the library.*

How to Capture Image from Camera

This guide helps you to implement the whole image capture scenario including the user interface part with just a little effort.

The purpose of image capture scenario is to enable your application to capture the image from the smartphone camera preview frames. Once you begin capturing, the Mobile Capture engine will automatically receive new camera frames, detecting the quality assessment of the captured image to OCR and filtering out low quality photos. This process is continued until the result reaches the required stability level. Accessible image is cropped and justified. Then it can be compressed and exported to the processing server.

There are three optimal variations of the scenario, providing different instruments for image capture integration into your project:

- **Multipage image capture scenario**, including API for ready-to-use user interface implementation. This is the easiest to integrate case. Use this API to implement an onboarding document capture application, to capture large document batches with no page limit or fixed number of documents with different page size. Test such supported features as interface elements and working with photo gallery and customize them according to your needs.
- **One-page image capture scenario** with API for user interface implementation. This case is useful for scenarios, when a single page capture with basic user interface elements should be performed.
- **Image capture API** for specific cases when a custom user interface is implemented and only the processing mechanisms are required.

Below you can find detailed "How to..." for each of these scenarios, demonstrating ABBYY Mobile Capture API usage.

How to Implement Multipage Image Capture with User Interface

Note: Before you begin, see [How to Add the Library to Your Xcode Project](#).

1. Add the [NSCameraUsageDescription](#) and [NSPhotoLibraryUsageDescription](#) keys into the info.plist file for requesting access to the device's camera and to the user's photo library.
2. Create an instance of the [AUICaptureController](#) interface for managing user interface and starting capture scenario. On this step you can use the properties of this interface to tune the user interface appearance and the settings of the camera.
3. To get access to the processing mechanisms for chosen scenario create an [RTREngine](#) object using the [sharedEngineWithLicenseData:](#) method. The method requires an [NSData](#) object containing your license data. For example, you can use [dataWithContentsOfFile:](#) to create a data object, then pass this object to the [sharedEngineWithLicenseData:](#) method.
4. Create an instance of an interface inherited from the [AUICaptureScenario](#) for managing the capture scenario. Choose the inherited interface for the multipage image capture scenario: [AUIMultiPageImageCaptureScenario](#) interface. Pass the previously created [RTREngine](#) object and a full path to a folder, that will be a page storage, as input parameters to the [constructor](#).
5. Use the properties of the [AUIMultiPageImageCaptureScenario](#) interface for flexible tuning of your application. I.e., depending on your application goal you can tune the presets of the scenario user interface and image count requirements:
 - define the [requiredPageCount](#) property for fixing an exact number of images to be captured or allow unlimited image capture;
 - to customize interface string resources, do the following:
 - define custom string resources in the [AUIMultiPageResourceType](#) enumeration
 - set these resources to the user interface setting using the [captureScenario:stringForResourceType:forPageAtIndex:](#) method of the [AUIMultiPageUISettings](#) protocol
 - set the [uiSettings](#) property to the [AUIMultiPageUISettings](#).
6. Implement the delegate interface, corresponding to the scenario object, and its methods. I.e. for [AUIMultiPageImageCaptureScenarioDelegate](#) interface you should implement these methods:
 - a. The [captureScenario:didFinishWithResult:](#) method returns the [AUIMultiPageImageCaptureResult](#) object providing access to the result images
 - b. The [captureScenario:onCloseWithResult:](#) method notifies that the scenario was canceled by user
 - c. The [captureScenario:didFailWithError:](#) method delivers error messages.
7. Add the instance of the interface as a **delegate** property of the [AUIMultiPageImageCaptureScenario](#) object.
8. Set the created scenario object as a **captureScenario** property of the [AUICaptureController](#) object. Scenario will start immediately at the camera start.
9. If any error occurs while processing, the capture scenario becomes temporary passive and the **paused** property of the [AUICaptureController](#) object is set to **true**.
10. Process the messages sent by scenario to the delegate object. The result will be delivered as an [AUIMultiPageImageCaptureResult](#) object providing access to the result images.

How to Implement One-Page Image Capture with User Interface

Note: Before you begin, see [How to Add the Library to Your Xcode Project](#).

1. Add the [NSCameraUsageDescription](#) and [NSPhotoLibraryUsageDescription](#) keys into the info.plist file for requesting access to the device's camera and to the user's photo library.
2. Create an instance of the [AUICaptureController](#) interface for managing user interface and starting capture scenario. On this step you can use the properties of this interface to tune the user interface appearance and the settings of the camera.
3. To get access to the processing mechanisms for chosen scenario create an [RTREngine](#) object using the [sharedEngineWithLicenseData:](#) method. The method requires an [NSData](#) object containing your license data. For example, you can use [dataWithContentsOfFile:](#) to create a data object, then pass this object to the [sharedEngineWithLicenseData:](#) method.

4. Create an instance of an interface inherited from the [AUICaptureScenario](#) for managing the capture scenario. Choose the inherited interface for the image capture scenario: [AUIImageCaptureScenario](#) interface. Pass the previously created [RTEngine](#) object as an input parameter to the constructor.
5. Implement the delegate interface, corresponding to the scenario object, and its methods. I.e. for [AUIImageCaptureScenarioDelegate](#) interface you should implement these methods:
 - a. The [captureScenario:didCaptureImageWithResult:](#) method returns the result image as a [AUIImageCaptureResult](#) object
 - b. The [captureScenario:didFailWithError:](#) method delivers error messages
 - c. The [captureScenarioDidCancel:](#) method notifies that the scenario was canceled.
6. Add the instance of the interface as a **delegate** property of the [AUIImageCaptureScenario](#) object.
7. Set the created scenario object as a **captureScenario** property of the [AUICaptureController](#) object. Scenario will start immediately at the camera start.
8. If any error occurs while processing, the capture scenario becomes temporary passive and the **paused** property of the [AUICaptureController](#) object is set to **true**.
9. Process the messages sent by scenario to the delegate object. The result will be delivered as an [AUIImageCaptureResult](#) object, storing the captured image.

How to Implement Image Capture Processing

Note: Before you begin, see [How to Add the Library to Your Xcode Project](#).

To implement the image capture scenario, follow these steps:

1. Implement a delegate conforming to the [RTRImageCaptureServiceDelegate](#) protocol. The delegate will handle messages from the image capture service. Here are the recommendations on what its methods should do:
 - The [onBufferProcessedWithStatus:result:](#) method is where you work with the results, display them to the user, etc.
 - The [onError:](#) method is for handling processing errors.
 - The [onWarning:](#) method can optionally be used to show warnings to the user.
2. Create an [RTEngine](#) object using the [sharedEngineWithLicenseData:](#) method. The method requires an [NSData](#) object containing your license data. For example, you can use [dataWithContentsOfFile:](#) to create a data object, then pass this object to the [sharedEngineWithLicenseData:](#) method.
3. Use the [createImageCaptureServiceWithDelegate:](#) method of the [RTEngine](#) object to create a background image capture service. Only one instance of the service per application is necessary: multiple threads will be started internally.
4. Implement a delegate that adopts the [AVCaptureVideoDataOutputSampleBufferDelegate](#) protocol. Instantiate an [AVCaptureSession](#) object, add video input and output and set the video output delegate. When the delegate receives a video frame via the [captureOutput:didOutputSampleBuffer:fromConnection:](#) method, pass this frame on to the image capture service by calling the [addSampleBuffer:](#) method.
We recommend using the `AVCaptureSessionPreset1920x1080` preset for your [AVCaptureSession](#).
Also note that your video output must be configured to use the `kCVPixelFormatType_32BGRA` video pixel format.
5. Process the messages sent by the service to the [RTRImageCaptureServiceDelegate](#) delegate object. The result will be delivered via the [onBufferProcessedWithStatus:result:](#) method. It also reports the result stability status, which indicates if the result is available and if it is likely to be improved by adding further frames (see the *Status* parameter).
6. Process the delivered result using the [RTRImagingCoreAPI](#) functionality:
 - load the captured image to an [RTRCoreAPIImage](#) protocol instance;

- crop it with the [RTRCoreAPICropOperation](#) in case the lens correction is required.
7. Export the processed result to the server in one of available formats: [JPG](#), [JPG 2000](#), [PNG](#) or [PDF](#). It is recommended to use the [RTRCoreAPIExportCompressionNormalLevel](#) compression mode for saving high quality while reducing image size.
 8. When pausing or quitting the application, call the [stopTasks](#) method to stop processing and clean up image buffers. The image capture service keeps its configuration settings and necessary resources. The processing will start automatically on the new call to the [addSampleBuffer:](#) method.

See the description of classes and methods in the [API Reference](#) section.

How to Capture Text from Camera with iOS

This guide walks you through a simple real-time text capture scenario, in which the user points the device's camera at the text to be recognized.

How it Works

The purpose of Mobile Capture SDK for OCR development is to enable your application to capture information directly from the smartphone camera preview frames, without actually snapping a picture. Once you start capturing, the Mobile Capture SDK engine will automatically receive new camera frames and process them, using each new frame to verify and improve the recognition result from the previous frame. This process is continued until the result reaches the required stability level. Combining several images enables Mobile Capture SDK to recognize text even in situation when it is hard to obtain a still photo of suitable quality for recognition.

Note that Mobile Capture SDK also supports recognizing text on an image that was already saved to a file, which allows it to process existing photos, scanned texts, and so on. See [How to Recognize Text on Photos](#) for the description of this scenario.

Implementation

 **Note:** Before you begin, see [How to Add the Library to Your Xcode Project](#).

To implement the real-time text capture scenario, follow these steps:

1. Implement a delegate conforming to the [RTRTextCaptureServiceDelegate](#) protocol. The delegate will handle messages from the text capture service. Here are the recommendations on what its methods should do:
 - The [onBufferProcessedWithTextLines:resultStatus:](#) method is where you work with the results, display them to the user, etc.
 - The [onError:](#) method is for handling processing errors.
 - The [onWarning:](#) method can optionally be used to show warnings to the user.
2. Create an [RTREngine](#) object using the [sharedEngineWithLicenseData:](#) method. The method requires an [NSData](#) object containing your license data. For example, you can use [dataWithContentsOfFile:](#) to create a data object, then pass this object to the [sharedEngineWithLicenseData:](#) method.
3. Use the [createTextCaptureServiceWithDelegate:](#) method of the [RTREngine](#) object to create a background text capture service. Only one instance of the service per application is necessary: multiple threads will be started internally.
4. Configure the text capture service:

- If you are using a recognition language different from English, specify it using the [setRecognitionLanguages](#): method. Multiple languages are also supported, although setting too many languages may decrease recognition performance.
 - Your application can automatically translate the recognized text. To enable translation, add a dictionary using the [setTranslationDictionary](#): method.
Note that when a dictionary is set, recognition results are returned in the target language, and text in the source language is no longer available.
 - It is also recommended to call the [setAreaOfInterest](#): method to specify the rectangular area on the frame where the text is likely to be found. For example, your application may show a highlighted rectangle in the UI into which the end users will try to fit the text they are capturing. The best result is achieved when the area of interest does not touch the boundaries of the frame but has a margin of at least half the size of a typical printed character.
5. Implement a delegate that adopts the [AVCaptureVideoDataOutputSampleBufferDelegate](#) protocol. Instantiate an [AVCaptureSession](#) object, add video input and output and set the video output delegate. When the delegate receives a video frame via the [captureOutput:didOutputSampleBuffer:fromConnection](#): method, pass this frame on to the text capture service by calling the [addSampleBuffer](#): method.
We recommend using the `AVCaptureSessionPreset1280x720` preset for your [AVCaptureSession](#). Also note that your video output must be configured to use the `kCVPixelFormatType_32BGRA` video pixel format.
 6. Process the messages sent by the service to the [RTRTextCaptureServiceDelegate](#) delegate object. The result will be delivered via the [onBufferProcessedWithTextLines:resultStatus](#): method. It also reports the result stability status, which indicates if the result is available and if it is likely to be improved by adding further frames (see the *resultStatus* parameter). Use it to determine whether your application should stop processing and display the result to the user. We do not recommend using the result until the stability level has reached at least [RTRResultStabilityAvailable](#).
The result consists of one or more text lines represented by objects of the [RTRTextLine](#) class. Each [RTRTextLine](#) contains information about the bounding quadrangle of a single line of text, and the recognized text as a string.
Work with the results on your side.
 7. When pausing or quitting the application, call the [stopTasks](#) method to stop processing and clean up image buffers. The text capture service keeps its configuration settings (language, area of interest) and necessary resources. The processing will start automatically on the new call to the [addSampleBuffer](#): method.

See the description of classes and methods in the [API Reference](#) section.

How to Recognize Text on Photos

This guide explains how Mobile Capture SDK can be used as a common OCR solution, recognizing text on existing images.

How it Works

Mobile Capture SDK provides access to single image processing functions, enabling the generic OCR functionality. This scenario works with any image file you can load to memory. It does not require access to the camera on the device.

Implementation

Note: Before you begin, see [How to Add the Library to Your Xcode Project](#).

To implement the image recognition scenario, follow these steps:

1. Create an **RTREngine** object using the **sharedEngineWithLicenseData:** method. The method requires an **NSData** object containing your license data. For example, you can use **dataWithContentsOfFile:** to create a data object, then pass this object to the **sharedEngineWithLicenseData:** method.
2. Use the **createCoreAPI** method of the **RTREngine** object to create a recognizer object which conforms to the **RTRCoreAPI** protocol.
3. If you want to change recognition settings, use the **textRecognitionSettings** property of the recognizer object (**RTRCoreAPITextRecognitionSettings** protocol).
 - If you are using a recognition language different from English, specify it using the **setRecognitionLanguages:** method. Multiple languages are also supported, although setting too many languages may decrease recognition performance.
 - It is also recommended to call the **setAreaOfInterest:** method to specify the rectangular area of the image where to search for text. For example, your application may provide controls that allow user to select a smaller part of image for recognition if needed. Also, best results are achieved when the area of interest does not cover the whole image but has a margin of at least half the size of a typical printed character.
4. The **processingSettings** property of the recognizer object (**RTRCoreAPIProcessingSettings** protocol) allows you to set the number of processing threads.
5. Recognition starts with a call to the **recognizeTextOnImage:onProgress:onTextOrientationDetected:error:** method. It requires you to implement the following callbacks (passed as arguments to this method):
 - A progress callback (*onProgress*) that receives estimated completion percentage and warnings. This callback should return a **BOOL** value. The return value can be used to interrupt processing: return **TRUE** to terminate the current operation, **FALSE** to continue.
 - A callback that informs you when the image orientation is detected (*onTextOrientationDetected*).
 - A callback to handle errors (*error*).

Please note, that the method is synchronous (blocking) and should not be used on UI thread.
6. When finished, the **recognizeTextOnImage:onProgress:onTextOrientationDetected:error:** method will return an array of **RTRTextBlock** objects which contain the results of recognition for the text areas found on the image. Each **RTRTextBlock** is an array containing one or more text lines represented by **RTRTextLine** objects. Each **RTRTextLine** contains information about the bounding quadrangle for a single line of text and the recognized text.
Work with the results on your side.

See the description of classes and methods in the [API Reference](#) section.

How to Capture Data from Documents

This guide describes the procedure you need to follow to create an application which captures data from a specified type of document, without snapping a photo.

How it Works

In data capture scenarios, the processing quality is improved by the fact that we know which kind of data fields may be expected on the document. When you start capturing, you specify the type of document you are going to recognize (a data capture profile). The Mobile Capture SDK engine will automatically receive new camera frames and process them, trying to apply corresponding result schemes. The engine uses each new frame to verify and improve the recognition result from the previous frame. This process is

continued until a specific result scheme is matched and the result reaches the required stability level.

For some data capture profiles, there are two or more corresponding result schemes. The difference between a data capture profile and a result scheme is the following:

- A data capture profile is the general type of document you specify to the engine — for example, a bank card or some document with a machine-readable zone (MRZ).
- A result scheme is a more specific identifier of the recognized document, returned by the engine — for example, an embossed or unembossed bank card, or a specific MRZ (from a passport, visa, travel document, and so on).

The profile you specify determines which result schemes may be applied during recognition, and the result scheme determines which document fields will be recognized and returned as the result. Data capture profiles and corresponding result schemes supported in Mobile Capture library are detailed in [Data Capture Profiles](#); see also the summary below in [Supported ID Documents](#).

Note that Mobile Capture SDK also allows you to create custom data capture profiles for documents that are not supported out-of-the-box. See [How to Capture a Custom Data Field](#) for the description of this scenario.

Supported Documents

Mobile Capture SDK provides predefined data capture profiles for many types of data, including:

- machine-readable zone ([MRZ](#)) in various documents,
- international bank account numbers ([IBAN](#)),
- [bank card](#) details,
- data from [ID documents](#):
 - ID cards,
 - passports,
 - driver's licenses, and other.

Recognizing with predefined profiles does not require you to set specific rules or specify regular expressions that should match document fields. You simply specify a data capture profile (the general type of a document) and get recognized data with a more specific result scheme identifying the recognized document.

MRZ

Mobile Capture SDK can automatically detect and recognize the machine-readable zone (MRZ) on various ID documents: passports, ID cards, travel documents, and other. For details on supported MRZ types and recognized data, see [MRZ profiles](#).

- Document holder's personal number
- Document expiry date

IBAN

Mobile Capture SDK allows to automatically detect and extract international bank account numbers for Germany, France, Spain, and the United Kingdom. IBAN can be extracted from any document.



Bank card

Mobile Capture SDK can capture data from debit and credit cards, embossed and unembossed.





When recognizing a bank card, Mobile Capture SDK will detect and extract the card number, cardholder's full name, and date of expiry.

ID documents

Mobile Capture SDK can automatically extract data from various ID documents such as ID cards, driver's licenses, passports, and other documents from different countries (see [Data Capture Profiles](#) for detailed information).



For example, when recognizing the front side of a German ID card, Mobile Capture SDK will detect and extract the following data:

- Document number
- Document holder's first and last name, nationality, date and place of birth
- RFID number
- Document expiry date

The rest of the data in the German ID card scheme is recognized from the back side of the card; note that the data capture profile you specify and the result data scheme are the same for both card sides.

Business card

Mobile Capture SDK can automatically extract data from various business cards (see [Business cards schema description](#) for detailed information).



On the business card, recognized by Mobile Capture SDK, the following data will be detected and extracted:

- First Name/Last Name
- Phone and/or mobile phone number
- Fax number
- Web address
- Mailing and E-mail address
- Company name
- Job title

The recognition languages of the business card can be specified via data capture profile settings. Please note, that capturing business cards with non-Latin scripts requires English language for E-mail and Web address recognition.

! Important! For best business cards recognition accuracy Full High Definition (Full HD) camera stream is required.

Implementation

! Note: Before you begin, see [How to Add the Library to Your Xcode Project](#).

To implement the document data capture scenario, follow these steps:

1. Implement a delegate conforming to the [RTRDataCaptureServiceDelegate](#) protocol. The delegate will handle messages from the data capture service. Here are the recommendations on what its methods should do:
 - The [onBufferProcessedWithDataScheme:dataFields:resultStatus:](#) method is where you work with the results, display them to the user, etc.
 - The [onError:](#) method is for handling processing errors.
 - The [onWarning:](#) method can optionally be used to show warnings to the user.

2. Create an [RTREngine](#) object using the [sharedEngineWithLicenseData:](#) method. The method requires an [NSData](#) object containing your license data. For example, you can use [dataWithContentsOfFile:](#) to create a data object, then pass this object to the [sharedEngineWithLicenseData:](#) method.
3. Use the [createDataCaptureServiceWithDelegate:profile:](#) method of the [RTREngine](#) object to create a background recognition service. Set the type of document you are going to capture using the *profile* parameter — for example, "IBAN" or "MRZ". The service is created and will further work with this profile (for a full list of available profiles, see [Data Capture Profiles](#)). Only one instance of the service per application is necessary: multiple threads will be started internally.
4. We recommend calling the [setAreaOfInterest:](#) method to specify the rectangular area on the frame where the document is likely to be found. For example, your application may show a highlighted rectangle in the UI into which the end user will try to fit the page they are capturing. The best result is achieved when the area of interest does not touch the boundaries of the frame but has a margin of at least half the size of a typical printed character.
5. Implement a delegate that adopts the [AVCaptureVideoDataOutputSampleBufferDelegate](#) protocol. Instantiate an [AVCaptureSession](#) object, add video input and output and set the video output delegate. When the delegate receives a video frame via the [captureOutput:didOutputSampleBuffer:fromConnection:](#) method, pass this frame on to the data capture service by calling the [addSampleBuffer:](#) method. We recommend using the `AVCaptureSessionPreset1280x720` preset for your [AVCaptureSession](#). Also note that your video output must be configured to use the `kCVPixelFormatType_32BGRA` video pixel format.
6. Process the messages sent by the service to the [RTRDataCaptureServiceDelegate](#) delegate object. The result will be delivered via the [onBufferProcessedWithDataScheme:dataFields:resultStatus:](#) method:
 - an [RTRDataScheme](#) object; use its `id` property to determine what recognition scheme has been applied to the document (some profiles provide two or more recognition result schemes), and its `name` property to display a human-readable description to the user, if needed. For details on recognition schemes corresponding to the profile you selected, see [Data Capture Profiles](#).

! Important! *If `nil` is passed instead of a valid [RTRDataScheme](#) object, the data scheme has not yet been matched, which may mean that the document the user is trying to recognize is not a passport. In this case, the results are not usable.*

 - an array of [RTRDataField](#) objects, each representing one of the fields found and recognized. An [RTRDataField](#) object provides the identifier and the human-readable name for the field, the field text, and its location.
 - the result stability status, which indicates if the result is available and if it is likely to be improved by adding further frames. Use it to determine whether the application should stop processing and display the result to the user. We do not recommend using the result until the stability level has reached at least [RTRResultStabilityAvailable](#) and the data scheme has been matched.
7. Save the results for the recognized page. Call the [stopTasks](#) method to stop processing and clean up image buffers. The data capture service keeps its configuration settings (such as area of interest) and necessary resources. The processing will start automatically on the new call to the [addSampleBuffer:](#) method.

See the description of classes and methods in the [API Reference](#) section.

How to Capture a Custom Data Field with iOS

This section contains a step-by-step guide to creating an application that captures a single custom data field.

How it Works

With Mobile Capture SDK you can create custom data capture profiles for documents that are not supported out-of-the-box. In the corresponding result schemes you define custom data fields. (Currently, only one scheme per profile is supported, and only one field may be defined in the scheme). To tell the recognition engine that some text string is a data value (a field value), you will have to specify a regular expression that should match the strings you are looking for. The value may be a date, some code with a known format, and so on: the more specific the data is, the easier it would be to capture it.

This guide uses an alphanumeric code as an example of data that can be captured. Code format is the following: it contains 15 characters that are either digits or capital letters, and the first two characters are always digits. Example: 69KL46D7WF2AR5U.

Implementation

Note: Before you begin, see [How to Add the Library to Your Xcode Project](#).

Implementing the delegates

1. Implement a delegate conforming to the [RTRDataCaptureServiceDelegate](#) protocol. The delegate will handle messages from the data capture service. Here are the recommendations on what its methods should do:
 - The [onBufferProcessedWithDataScheme:dataFields:resultStatus:](#) method is where you work with the results, display them to the user, etc.
 - The [onError:](#) method is for handling processing errors.
 - The [onWarning:](#) method can optionally be used to show warnings to the user.
2. Implement a delegate that adopts the [AVCaptureVideoDataOutputSampleBufferDelegate](#) protocol. Instantiate an [AVCaptureSession](#) object, add video input and output and set the video output delegate. When the delegate receives a video frame via the [captureOutput:didOutputSampleBuffer:fromConnection:](#) method, pass this frame on to the data capture service by calling the [addSampleBuffer:](#) method of the [RTRDataCaptureService](#) object. We recommend using the `AVCaptureSessionPreset1280x720` preset for your [AVCaptureSession](#). Also note that your video output must be configured to use the `kCVPixelFormatType_32BGRA` video pixel format.

Loading the library and setting up the service

1. Create an [RTREngine](#) object using the [sharedEngineWithLicenseData:](#) method. The method requires an [NSData](#) object containing your license data. For example, you can use [dataWithContentsOfFile:](#) to create a data object, then pass this object to the [sharedEngineWithLicenseData:](#) method.
2. Use the [createDataCaptureServiceWithDelegate:profile:](#) method of the [RTREngine](#) object to create a background recognition service. The *profile* parameter should be left empty. Only one instance of the service per application is necessary: multiple threads will be started internally.
3. Call the [configureDataCaptureProfile](#) method of the [RTRDataCaptureService](#) object to create an [RTRDataCaptureProfileBuilder](#) object. Create a data scheme builder using the [addScheme:](#) method.

The scheme builder will allow you to specify a human-readable name for the scheme and to add field definitions.

4. Use the [addField](#) method to create a new field builder. Use [setName](#) to add a human-readable field name and [setRegex](#) to specify the regular expression that should match the field text. The *regex* parameter `@"[0-9]{2}[0-9A-Z]{13}"` — match 2 digits followed by 13 characters which are digits or capital letters.

Note: For details on regular expression syntax supported in ABBYY Mobile Capture SDK, see the [Regular Expressions](#) section.

An alphanumeric code needs no additional check besides the regular expression. However, there is the option of implementing a block which would perform additional validation after the data has passed the regular expression check, for example, calculate the field's checksum (see the [setPredicateBlock](#) method).

5. Call the [checkAndApply](#) method of the [RTRDataCaptureProfileBuilder](#) object to submit the profile for use in the data capture service. If an error is returned at this stage, it is probable the regular expression has mistakes in the syntax, please check it again.
6. We recommend also calling the [setAreaOfInterest](#) method to specify the rectangular area on the frame where the field is likely to be found. For example, your application may show a highlighted rectangle in the UI into which the end user will try to fit the page they are capturing. The best result is achieved when the area of interest does not touch the boundaries of the frame but has a margin of at least half the size of a typical printed character.

Processing

1. Process the messages sent by the service to the [RTRDataCaptureServiceDelegate](#) delegate object. The result will be delivered via the [onBufferProcessedWithDataScheme:dataFields:resultStatus](#) method:

- An [RTRDataScheme](#) object. Its **id** property should return the same identifier you specified in the custom profile.

Important! If *nil* is passed instead of a valid [RTRDataScheme](#) object, the data scheme has not yet been matched, which may mean that there is no data of the required type in the area of interest. In this case, the results are not usable.

- An array containing, in this case, one [RTRDataField](#) object which represents the extracted field. It provides the identifier and the human-readable name for the field, the field text, and its location.
 - The result stability status, which indicates if the result is available and if it is likely to be improved by adding further frames. Use it to determine whether the application should stop processing and display the result to the user. We do not recommend using the result until the stability level has reached at least [RTRResultStabilityAvailable](#) and the data scheme has been matched.
2. Save the results. Call the [stopTasks](#) method to stop processing and clean up image buffers. The data capture service keeps its configuration settings (the custom profile, the area of interest) and necessary resources. The processing will start automatically on the new call to the [addSampleBuffer](#) method.

See the description of classes and methods in the [API Reference](#) section.

Code Samples

The ABBYY Mobile Capture SDK distribution package includes several code samples that show API usage and provide examples of typical scenarios.

The code samples are found in the root folder of the distribution package. All samples are provided in Objective-C and/or Swift programming languages.

Sample scenario	Folder name	Description
Text Capture	sample-textcapture sample-textcapture-swift	A simple text capture scenario. The only setting available to the user is the text language.
Data Capture	sample-datacapture	The general data capture scenario showing how to capture a predefined document and a custom data field.
Image Capture	sample-imagecapture sample-imagecapture-swift	This simple image capture scenarios demonstrate how to automatically capture an image from the smartphone video preview frames.
	sample-ui-imagecapture	The image capture scenario and corresponding user interface implementation with the special API for UI.
Core API	sample-coreapi sample-coreapi-swift	The sample demonstrates a simple scenario of a single image processing with the core API.

Configuring the code samples

The samples can be opened and built right from where they are in the downloaded distribution package. To work with any of the code samples you need to do only a little configuring first.

1. Please change the bundle ID before building, modifying or otherwise using any of the samples.
2. All samples expect that the license file (named **license**) is found into the **assets** folder located in the distribution package root. Copy your license to this folder and rename the file if necessary (a license obtained from your supplier may have a different name).
You can also change the license file name or path in the sample code: see the RTRViewController implementation.

API Reference

This section describes the Objective-C API of ABBYY Mobile Capture SDK.

Classes

- [RTREngine](#)
- [RTRCharInfo](#)
- [RTRDataField](#)
- [RTRDataScheme](#)
- [RTREngineSettings](#)
- [RTRExtendedSettings](#)
- [RTRFileOutputStream](#)
- [RTRImageCaptureStatus](#)
- [RTRImageCaptureResult](#)
- [RTRMemoryOutputStream](#)
- [RTROutputStream](#)
- [RTRTextLine](#)
- [RTRTextBlock](#)

Protocols

- [RTRCoreAPI](#)
- [RTRCoreAPICropOperation](#)
- [RTRCoreAPIDetectDocumentBoundaryOperation](#)
- [RTRCoreAPIExportOperation](#)
- [RTRCoreAPIExportToJpeg2000Operation](#)
- [RTRCoreAPIExportToJpgOperation](#)
- [RTRCoreAPIExportToPdfOperation](#)
- [RTRCoreAPIExportToPngOperation](#)
- [RTRCoreAPIImage](#)
- [RTRCoreAPIImageOperation](#)
- [RTRCoreAPIOperation](#)
- [RTRCoreAPIProcessingSettings](#)
- [RTRCoreAPIQualityAssessmentForOCROperation](#)
- [RTRCoreAPIRotateOperation](#)
- [RTRCoreAPITextRecognitionSettings](#)
- [RTRDataCaptureProfileBuilder](#)
- [RTRDataCaptureService](#)
- [RTRDataCaptureServiceDelegate](#)
- [RTRDataFieldBuilder](#)
- [RTRDataSchemeBuilder](#)
- [RTRDataCaptureProfileBuilder](#)
- [RTRImageCaptureService](#)
- [RTRImageCaptureServiceDelegate](#)
- [RTRImagingCoreAPI](#)
- [RTROutputStream](#)
- [RTRQualityAssessmentForOCRBlock](#)
- [RTRRecognitionService](#)
- [RTRRecognitionServiceDelegate](#)
- [RTRTextCaptureService](#)
- [RTRTextCaptureServiceDelegate](#)

Enumerations

- [RTRCallbackWarningCode](#)
- [RTRCoreAPIExportCompressionLevel](#)
- [RTRCoreAPIPdfExportCompressionType](#)
- [RTRQualityAssessmentForOCRBlockType](#)
- [RTRResultStabilityStatus](#)

RTREngine class

The main ABBYY Mobile Capture SDK class which serves to initialize the library and create a background recognition service. It is a singleton class: only one instance may exist at a time. Repeated attempts to create an **RTREngine** object will return the same object.

Properties

Name	Type	Description
extendedSettings	RTREngineSettings , read-only	Additional settings for ABBYY Mobile Capture SDK engine which apply to all processing scenarios.

Methods

Name	Description
+ sharedEngineWithLicenseData:	Creates the RTREngine object or returns its existing instance.
- createCoreAPI	Creates a core API object which provides access to low-level single image processing functions.
- createDataCaptureServiceWithDelegate:profile:	Creates a background service for data capture.
- createTextCaptureServiceWithDelegate:	Creates a background service for text recognition.
- createImageCaptureServiceWithDelegate:	Creates a background service for image capture.

Name	Description
- languagesAvailableForOCR	Returns the set of languages which can be used for text recognition.
- languagesAvailableForBCR	Returns the set of languages which can be used for text recognition.

sharedEngineWithLicenseData: method of the RTREngine class

Creates or returns the [RTREngine](#) object. Repeated calls to this method will result in the same object instance.

```
+ (instancetype) sharedEngineWithLicenseData: (NSData*) licenseData;
```

Parameters

licenseData

The license data to initialize ABBYY Mobile Capture SDK.

Return values

The method returns an instance of the [RTREngine](#) object, or **nil** if object creation failed.

createCoreAPI method of the RTREngine class

Creates a core API object which provides access to low-level single image processing functions.

```
- (id<RTRCoreAPI>) createCoreAPI;
```

Return values

The method returns an instance implementing the [RTRCoreAPI](#) protocol.

createDataCaptureServiceWithDelegate:profile: method of the RTREngine class

Creates a background recognition service to run in data capture mode. Only one instance of the service is necessary per application: multiple threads for processing will be started internally.

Before a call to this method, implement the [RTRDataCaptureServiceDelegate](#) protocol to work with processing results and handle errors and warnings.

```

- (id<RTRDataCaptureService>) createDataCaptureServiceWithDelegate:
(id<RTRDataCaptureServiceDelegate>) delegate profile: (NSString*) profile;

- (id<RTRDataCaptureService>) createDataCaptureServiceWithDelegate:
(id<RTRDataCaptureServiceDelegate>) delegate profile: (NSString*) profile
settings: (RTRExtendedSettings*) settings;
    
```

Parameters

delegate

The delegate object that implements the [RTRDataCaptureServiceDelegate](#) protocol for interacting with the service.

profile

The name of a data capture profile (data scheme) to use. For the available predefined profiles see [Data Capture Profiles](#).

Use an empty string or **nil** to configure your own profile for custom data field capture with the help of the [configureDataCaptureProfile](#) method of the [RTRDataCaptureService](#) protocol. You can also configure the predefined recognition languages using this method, if the data capture profile is set to [BusinessCards](#).

settings

[optional] Extended service configuration settings represented by an [RTRExtendedSettings](#) object.

Return values

The method returns an instance implementing the [RTRDataCaptureService](#) protocol.

createTextCaptureServiceWithDelegate: method of the RTREngine class

Creates a background recognition service to run in text capture mode. Only one instance of the service is necessary per application: multiple threads for processing will be started internally.

Before a call to this method, implement the [RTRTextCaptureServiceDelegate](#) protocol to work with processing results and handle errors and warnings.

```

- (id<RTRTextCaptureService>) createTextCaptureServiceWithDelegate:
(id<RTRTextCaptureServiceDelegate>) delegate;

- (id<RTRTextCaptureService>) createTextCaptureServiceWithDelegate:
(id<RTRTextCaptureServiceDelegate>) delegate
settings: (RTRExtendedSettings*) settings;
    
```

Parameters

delegate

The delegate object that implements the [RTRTextCaptureServiceDelegate](#) protocol for interacting with the service.

settings

[optional] The extended service configuration settings represented by an [RTRExtendedSettings](#) object.

Return values

The method returns an instance implementing the [RTRTextCaptureService](#) protocol.

createImageCaptureServiceWithDelegate: method of the RTREngine class

Creates a background recognition service to run in image capture mode. Only one instance of the service is necessary per application: multiple threads for processing will be started internally.

Before a call to this method, implement the [RTRImageCaptureServiceDelegate](#) protocol to work with processing results and handle errors and warnings.

```
- (id<RTRImageCaptureService>) createImageCaptureServiceWithDelegate:
(id<RTRImageCaptureServiceDelegate>) delegate;

- (id<RTRImageCaptureService>) createImageCaptureServiceWithDelegate:
(id<RTRImageCaptureServiceDelegate>) delegate
    settings: (RTRExtendedSettings*) settings;
```

Parameters

delegate

The delegate object that implements the [RTRImageCaptureServiceDelegate](#) protocol for interacting with the service.

settings

[optional] The extended service configuration settings represented by an [RTRExtendedSettings](#) object.

Return values

The method returns an instance implementing the [RTRImageCaptureService](#) protocol.

languagesAvailableForOCR method of the RTREngine class

Returns the set of languages which can be used for text recognition in the current application (for which the necessary resources are available).

```
- (NSSet*) languagesAvailableForOCR;
```

Return values

Returns a set of strings containing internal language names. See [Available Languages](#) for a complete list of languages and the corresponding internal names.

languagesAvailableForBcr method of the RTREngine class

Returns the set of languages which can be used for business cards recognition in the current application (for which the necessary resources are available).

```
- (NSSet*) languagesAvailableForBCR;
```

Return values

Returns a set of strings containing internal language names. See [Available Languages](#) for a complete list of languages and the corresponding internal names.

Services API

RTRDataCaptureService protocol

A background data capture service protocol. Inherits from the [RTRRecognitionService](#) protocol.

This protocol is adopted by the data capture service object returned by the [createDataCaptureServiceWithDelegate:profile:](#) method. Its methods are used to tune the processing settings, pass video frames from the camera to the background processing engine, and release the resources afterwards.

The data capture service requires a delegate that conforms to the [RTRDataCaptureServiceDelegate](#) protocol. The service informs the delegate when the result is ready, sends progress information, warnings and errors.

Methods

Name	Description
- addSampleBuffer:	Sends the video frame obtained from camera to the service. Inherited from the RTRRecognitionService protocol.

Name	Description
- configureDataCaptureProfile	Creates a profile builder object with which you will be able to configure the data capture service to recognize fields of a specific type.
- setAreaOfInterest:	Sets the search area on the frame. Inherited from the RTRRecognitionService protocol.
- stopTasks	Stops processing and releases the resources used by the service. Inherited from the RTRRecognitionService protocol.

addSampleBuffer: method of the RTRDataCaptureService protocol

Sends the video frame obtained from camera to the service.

Call this method to pass on the video sample buffer received by an [AVCaptureVideoDataOutputSampleBufferDelegate](#) object via the [captureOutput:didOutputSampleBuffer:fromConnection:](#) method. The service will pick the frames it needs from the sequence of the frames you supply.

Note: The video output must be configured to use the `kCVPixelFormatType_32BGRA` video pixel format. Other pixel formats are currently not supported.

```
- (void)addSampleBuffer:(CMSampleBufferRef)sampleBuffer;
```

Parameters

sampleBuffer

A [CMSampleBuffer](#) object containing the video frame data.

configureDataCaptureProfile method of the RTRDataCaptureService protocol

Creates a profile builder object with which you will be able to configure the data capture service to recognize fields of a specific type. This is the first step for capturing a custom field, without using any of the predefined data capture profiles, and makes sense only if you have left the profile name parameter empty when creating the data capture service.

```
- (id<RTRDataCaptureProfileBuilder>)configureDataCaptureProfile;
```

Return values

The method returns an instance implementing the [RTRDataCaptureProfileBuilder](#) protocol, or **nil** if a profile may not be configured (e.g. you have already specified a profile name on creating the data capture service).

setAreaOfInterest: method of the RTRDataCaptureService protocol

Sets the search area on the frame.

The size of the area of interest affects performance and the speed of convergence of the result. The best result is achieved when the area of interest does not touch the boundaries of the frame but has a margin of at least half the size of a typical printed character.

```
- (void) setAreaOfInterest: (CGRect) areaOfInterest;
```

Parameters

areaOfInterest

The rectangle specifying the area of interest in the image coordinates. Pass `CGRectZero` as this parameter to select the default area of interest that covers the whole frame (not recommended).

stopTasks method of the RTRDataCaptureService protocol

Stops processing and cleans up image buffers. The service keeps its configuration settings and necessary resources, so the processing will start automatically when the service receives a new frame.

```
- (void) stopTasks;
```

RTRDataCaptureServiceDelegate protocol

The protocol for a delegate object to receive results, status information, warnings and errors from the data capture service. Inherits from the [RTRRecognitionServiceDelegate](#) protocol. The methods are to be implemented on the client side.

Methods

Name	Description
- onBufferProcessedWithDataScheme:dataFields:resultStatus:	Notifies the delegate that a frame was recognized, delivers the result and status information.

Name	Description
- onError:	Notifies the delegate about an error. Inherited from the RTRRecognitionServiceDelegate protocol.
- onWarning:	Optional method. Informs the delegate about warnings from the service. Inherited from the RTRRecognitionServiceDelegate protocol.

onBufferProcessedWithDataScheme:dataFields:resultStatus: method of the RTRDataCaptureServiceDelegate protocol

Notifies the delegate that a frame was recognized, delivers the result and its stability status.

The result stability status should be used to determine if the accuracy is high enough for the result to be used for any practical purposes. We recommend not to use the data in any way until the stability level has reached at least [RTRResultStabilityAvailable](#) and the data scheme has been matched. When stability of the result has reached the desired level, the service may be stopped by calling the [stopTasks](#) method of the [RTRDataCaptureService](#) protocol.

This method is to be implemented on the client side. The implementation of this method will probably contain assessing the result plausibility, displaying the results to the user or using them in any other way you need.

```
- (void)onBufferProcessedWithDataScheme:(RTRDataScheme*) dataScheme
    dataFields:(NSArray<RTRDataField*>*) dataFields
        resultStatus:(RTRResultStabilityStatus) resultStatus;
```

Parameters

dataScheme

Information on the data scheme applied to the recognized frame, represented by a [RTRDataScheme](#) object.

! **Important!** If *nil* is passed instead of a valid [RTRDataScheme](#) object, the data scheme has not yet been matched, which may mean that the document the user is trying to recognize does not fit the data capture profile with which the data service was created. In this case, the results are not usable.

dataFields

The result as an array of data fields, represented by [RTRDataField](#) objects.

resultStatus

The estimate of how stable the result is, represented by an [RTRResultStabilityStatus](#) enumeration constant. It is not guaranteed that it ever reaches the desired level for a particular scene.

onError: method of the RTRDataCaptureServiceDelegate protocol

Notifies the delegate about an error.

```
- (void)onError:(NSError*) error;
```

Parameters

error

The error that has occurred.

onWarning: method of the RTRDataCaptureServiceDelegate protocol

Informs the delegate about warnings. This method is optional.

```
- (void)onWarning:(RTRCallbackWarningCode) warningCode;
```

Parameters

warningCode

The warning that has occurred, represented by an [RTRCallbackWarningCode](#) enumeration constant.

RTRDataCaptureProfileBuilder protocol

The protocol for a builder object which allows you to configure a custom data capture profile.

Methods

Name	Description
- checkAndApply	Submits the configured profile for use in the data capture service.
- addScheme:	Creates a new scheme in the data capture profile. Using the scheme builder you will then be able to add the data fields and define the rules to which they should conform.

Name	Description
- setRecognitionLanguages:	Sets the languages to be used for field recognition.

checkAndApply method of the RTRDataCaptureProfileBuilder protocol

Submits the configured profile for use in the data capture service.

This method should be called after all your modifications to the profile are completed. If this method call is successful, the service is ready to capture custom data fields as specified by the profile.

```
- (NSError*) checkAndApply;
```

Return values

The method returns **nil** if the profile was applied successfully. If there were some problems (for example, the regular expression is not valid), the error object is returned instead.

addScheme: method of the RTRDataCaptureProfileBuilder protocol

Creates a new scheme in the data capture profile. Using the scheme builder you will then be able to add the data fields and define the rules to which they should conform.

Note: *Currently, only one scheme may exist in the profile, and only one field may be defined in the scheme.*

```
- (id<RTRDataSchemeBuilder>) addScheme:(NSString*) id;
```

Parameters

id

The scheme identifier.

Return values

The method returns an instance implementing the [RTRDataSchemeBuilder](#) protocol.

setRecognitionLanguages: method of the RTRDataCaptureProfileBuilder protocol

Sets the languages to be used for recognition.

By default, only the English language is set. Setting the correct languages for your text will improve recognition accuracy. However, setting too many languages may decrease performance.

Use the [languagesAvailableForOCR](#) method to check which languages are supported in your application.

```
- (id<RTRDataCaptureProfileBuilder>) setRecognitionLanguages: (NSSet*)
recognitionLanguages;
```

Parameters

recognitionLanguages

The set of languages to be used for recognition, each language represented by its internal name as a string. See [Available Languages](#) for the list of languages and corresponding internal names.

Return values

The method returns the same [RTRDataCaptureProfileBuilder](#) object on which it was called.

RTRDataSchemeBuilder protocol

The protocol for a scheme builder object which lets you add fields to the scheme.

Note: *Currently, only one scheme may exist in the profile, and only one field may be defined in the scheme.*

Methods

Name	Description
- addField:	Adds a new field. The rules to which the data should conform may be specified later via the field builder object.
- setName:	Sets the scheme name.

addField: method of the RTRDataSchemeBuilder protocol

Adds a new field.

The rules to which the data should conform may be specified later via the field builder object.

Note: Currently, only one scheme may exist in the profile, and only one field may be defined in the scheme.

```
- (id<RTRDataFieldBuilder>) addField: (NSString*) id;
```

Parameters

id

The field identifier.

Return values

The method returns an instance implementing the [RTRDataFieldBuilder](#) protocol.

setName: method of the RTRDataSchemeBuilder protocol

Sets the scheme name.

```
- (id<RTRDataSchemeBuilder>) setName: (NSString*) name;
```

Parameters

name

The new scheme name.

Return values

The method returns the same [RTRDataSchemeBuilder](#) object on which it was called.

RTRDataFieldBuilder protocol

The protocol for a field builder object which allows you to set the name and rules for the data field.

Properties

Name	Type	Description
id	NSString*, read-only	Field identifier.

Methods

Name	Description
- setName:	Sets a human-readable name for the field.
- setPredicateBlock:	Sets the user-implemented validation block which will be called for further verification of the data (e.g. calculating the checksum) after it has passed the regular expression check.
- setRegex:	Sets the regular expression to match the field data.

setName: method of the RTRDataFieldBuilder protocol

Sets the field name.

```
- (id<RTRDataFieldBuilder>) setName: (NSString*) name;
```

Parameters

name

The new field name.

Return values

The method returns the same [RTRDataFieldBuilder](#) object on which it was called.

setPredicateBlock: method of the RTRDataFieldBuilder protocol

Sets the validation block which will be called for further verification of the data (e.g. calculating the checksum) after it has passed the regular expression check.

```
- (id<RTRDataFieldBuilder>) setPredicateBlock: (RTRFieldPredicateBlock) predicateBlock;
```

Parameters

predicateBlock

The user-implemented validation block of the type [RTRFieldPredicateBlock](#). May be **nil**, which means the data will not be verified.

Return values

The method returns the same [RTRDataFieldBuilder](#) object on which it was called.

setRegex: method of the RTRDataFieldBuilder protocol

Sets the regular expression that should match the field's text.

Note: For details on regular expression syntax supported in ABBYY Mobile Capture SDK, see the [Regular Expressions](#) section.

Important! If the field contains two or more matches for the specified regular expression, the engine will extract and return only the first one.

```
- (id<RTRDataFieldBuilder>) setRegex:(NSString*) regex;
```

Parameters

regex

A string describing the regular expression.

Return values

The method returns the same [RTRDataFieldBuilder](#) object on which it was called.

RTRFieldPredicateBlock

This is a type definition for a user-defined validation block which will be called for further verification of the data (e.g. calculating the checksum) after it has passed the regular expression check.

A typical use for the validation block would be to calculate a checksum.

```
typedef BOOL (^RTRFieldPredicateBlock)(NSString* value);
```

Parameters

value

The string with the recognized text of the field.

Return values

The block must return TRUE if the data is correct, FALSE otherwise.

RTRImageCaptureService protocol

A background image capture service protocol. Inherits from the [RTRRecognitionService](#) protocol.

This protocol is adopted by the image capture service object returned by the [createImageCaptureServiceWithDelegate](#) method. Its methods are used to tune the processing settings, pass video frames from the camera to the background processing engine, and release the resources afterwards.

The image capture service requires a delegate that conforms to the [RTRImageCaptureServiceDelegate](#) protocol. The service informs the delegate when the result is ready, sends progress information, warnings and errors.

Properties

Name	Type	Description
aspectRatioMin	CGFloat	<p>Lower limit of the document's aspect ratio.</p> <p>This property is used in pair with the aspectRatioMax, defining an interval of acceptable aspect ratio values of the document to be captured. Setting aspect ratio will help to improve boundary detection accuracy.</p> <p>If only aspectRatioMax is set, aspectRatioMin will be set to 1.</p> <p>By default the property is set to 0 (aspect ratio is not set).</p>
aspectRatioMax	CGFloat	<p>Upper limit of document's aspect ratio.</p> <p>This property is used in pair with the aspectRatioMin, defining an interval of acceptable aspect ratio values of the document to be captured. Setting aspect ratio will help to improve boundary detection accuracy.</p> <p>If only aspectRatioMin is set, aspectRatioMax will be set to CGFLOAT_MAX.</p> <p>By default the property is set to 0 (aspect ratio is not set).</p>

Document aspect ratio setting is intended to specify the exact proportions of the target document, which will increase capture accuracy.

Notes:

- Aspect ratio detection requires the mobile device to be placed strictly horizontally over the document during image capture. In case the mobile device is tilted, camera will capture distorted image and the document aspect ratio may be detected incorrectly.
- The value of aspect ratio is calculated by division of the longer side to the shorter side and is expected to be greater than or equal to 1 (or 0 if not set). If neither **aspectRatioMin** nor **aspectRatioMax** are set, the values will be calculated from the **documentSize** setting.

Methods

Name	Description
- addSampleBuffer:	Sends the video frame obtained from camera to the service. Inherited from the RTRRecognitionService protocol.
- setAreaOfInterest:	Sets the search area on the frame. Inherited from the RTRRecognitionService protocol.
- setDocumentSize:	Sets the physical size of the document to be captured.
- stopTasks	Stops processing and releases the resources used by the recognition service. Inherited from the RTRRecognitionService protocol.

addSampleBuffer: method of the RTRImageCaptureService protocol

Sends the video frame obtained from camera to the service.

Call this method to pass on the video sample buffer received by an [AVCaptureVideoDataOutputSampleBufferDelegate](#) object via the [captureOutput:didOutputSampleBuffer:fromConnection:](#) method. The service will pick the frames it needs from the sequence of the frames you supply.

Note: The video output must be configured to use the `kCVPixelFormatType_32BGRA` video pixel format. Other pixel formats are currently not supported.

```
- (void)addSampleBuffer:(CMSampleBufferRef) sampleBuffer;
```

Parameters

sampleBuffer

A [CMSampleBuffer](#) object containing the video frame data.

setAreaOfInterest: method of the RTRImageCaptureService protocol

Sets the search area on the frame.

The size of the area of interest affects performance and the speed of convergence of the result. The best result is achieved when the area of interest does not touch the boundaries of the frame but has a margin of at least half the size of a typical printed character.

```
- (void) setAreaOfInterest: (CGRect) areaOfInterest;
```

Parameters

areaOfInterest

The rectangle specifying the area of interest in the image coordinates. Pass `CGRectZero` as this parameter to select the default area of interest that covers the whole frame (not recommended).

setDocumentSize: method of the RTRImageCaptureService protocol

Sets the physical size of the document to be captured.

The values set by this method are used in various purposes. Setting this parameter will help to improve document boundary detection accuracy and preserve aspect ratio after crop. Known physical size of the document is used for document orientation detection during capture. The image resolution is automatically calculated to the physical size before export.

```
- (void) setDocumentSize: (CGSize) size;
```

Parameters

size

The size of the document in millimeters.

stopTasks method of the RTRImageCaptureService protocol

Stops processing and cleans up image buffers. The service keeps its configuration settings and necessary resources, so the processing will start automatically when the service receives a new frame.

```
- (void) stopTasks;
```

RTRImageCaptureServiceDelegate protocol

The protocol for a delegate object to receive results, status information, warnings and errors from the text capture service. Inherits from the [RTRRecognitionServiceDelegate](#) protocol. The methods are to be implemented on the client side.

Methods

Name	Description
- onBufferProcessedWithStatus:result:	Notifies the delegate that the image was captured and delivers the result.
- onError:	Notifies the delegate about an error. Inherited from the RTRRecognitionServiceDelegate protocol.
- onWarning:	Optional method. Informs the delegate about warnings from the service. Inherited from the RTRRecognitionServiceDelegate protocol.

onBufferProcessedWithStatus:result: method of the RTRImageCaptureServiceDelegate protocol

Notifies the delegate that an image was captured and delivers the result.

When stability of the result has reached the desired level, the service may be stopped by calling the [stopTasks](#) method of the [RTRImageCaptureService](#) protocol.

This method is to be implemented on the client side. The implementation of this method will probably contain assessing the result plausibility, displaying the results to the user or using them in any way you need.

```
- (void)onBufferProcessedWithStatus:(RTRImageCaptureStatus*) status result:
(RTRImageCaptureResult*) result;
```

Parameters

status

The status of the image capture.

result

The result of the image capture.

onError: method of the RTRImageCaptureServiceDelegate protocol

Notifies the delegate about an error.

```
- (void)onError:(NSError*) error;
```

Parameters

error

The error that has occurred.

onWarning: method of the RTRImageCaptureServiceDelegate protocol

Informs the delegate about warnings. This method is optional.

```
- (void)onWarning:(RTRCallbackWarningCode) warningCode;
```

Parameters

warningCode

The warning that has occurred, represented by an [RTRCallbackWarningCode](#) enumeration constant.

RTRTextCaptureService protocol

A background text capture service protocol. Inherits from the [RTRRecognitionService](#) protocol.

This protocol is adopted by the text capture service object returned by the [createTextCaptureServiceWithDelegate:](#) method. Its methods are used to tune the processing settings, pass video frames from the camera to the background processing engine, and release the resources afterwards.

The text capture service requires a delegate that conforms to the [RTRTextCaptureServiceDelegate](#) protocol. The service informs the delegate when the result is ready, sends progress information, warnings and errors.

Methods

Name	Description
- addSampleBuffer:	Sends the video frame obtained from camera to the service. Inherited from the RTRRecognitionService protocol.

Name	Description
- setAreaOfInterest:	Sets the search area on the frame. Inherited from the RTRRecognitionService protocol.
- setRecognitionLanguages:	Sets the languages to be used for recognition.
- setTranslationDictionary:	Sets the name of the translation dictionary.
- stopTasks	Stops processing and releases the resources used by the recognition service. Inherited from the RTRRecognitionService protocol.

addSampleBuffer: method of the RTRTextCaptureService protocol

Sends the video frame obtained from camera to the service.

Call this method to pass on the video sample buffer received by an [AVCaptureVideoDataOutputSampleBufferDelegate](#) object via the [captureOutput:didOutputSampleBuffer:fromConnection:](#) method. The service will pick the frames it needs from the sequence of the frames you supply.

Note: The video output must be configured to use the `kCVPixelFormatType_32BGRA` video pixel format. Other pixel formats are currently not supported.

```
- (void)addSampleBuffer:(CMSampleBufferRef)sampleBuffer;
```

Parameters

sampleBuffer

A [CMSampleBuffer](#) object containing the video frame data.

setAreaOfInterest: method of the RTRTextCaptureService protocol

Sets the search area on the frame.

The size of the area of interest affects performance and the speed of convergence of the result. The best result is achieved when the area of interest does not touch the boundaries of the frame but has a margin of at least half the size of a typical printed character.

```
- (void)setAreaOfInterest:(CGRect)areaOfInterest;
```

Parameters

areaOfInterest

The rectangle specifying the area of interest in the image coordinates. Pass `CGRectZero` as this parameter to select the default area of interest that covers the whole frame (not recommended).

setRecognitionLanguages: method of the RTRTextCaptureService protocol

Sets the languages to be used for recognition.

By default, only the English language is set. Setting the correct languages for your text will improve recognition accuracy. However, setting too many languages may decrease performance.

Use the [languagesAvailableForOCR](#) method to check which languages are supported in your application.

```
- (void)setRecognitionLanguages:(NSSet*) recognitionLanguages;
```

Parameters

recognitionLanguages

The set of languages to be used for recognition, each language represented by its internal name as a string. See [Available Languages](#) for the list of languages and corresponding internal names.

setTranslationDictionary: method of the RTRTextCaptureService protocol

Sets current translation dictionary, attaches or detaches a dictionary to enable or disable translation. By default, translation is disabled and no translation dictionary is used.

Translation dictionaries should be put in the **Translation** subfolder of the application bundle. Some dictionaries are supplied with the distribution. See [Available Translation Dictionaries](#) for a full list.

! ***Important!** Calling this method with a dictionary name attaches this translation dictionary (or changes the one currently attached). With a dictionary attached, the recognized text will be translated automatically, and the [onBufferProcessedWithTextLines:resultStatus:](#) method will return the result in the target language. The result of recognition in the source language will be unavailable. To detach a dictionary, pass a **nil** argument.*

```
- (void)setTranslationDictionary:(NSString*) dictionaryName;
```

Parameters

dictionaryName

The name of the translation dictionary file, without extension. Can also be **nil** to detach the current dictionary.

stopTasks method of the RTRTextCaptureService protocol

Stops processing and cleans up image buffers. The service keeps its configuration settings and necessary resources, so the processing will start automatically when the service receives a new frame.

```
- (void)stopTasks;
```

RTRTextCaptureServiceDelegate protocol

The protocol for a delegate object to receive results, status information, warnings and errors from the text capture service. Inherits from the [RTRRecognitionServiceDelegate](#) protocol. The methods are to be implemented on the client side.

Methods

Name	Description
- onBufferProcessedWithTextLines:resultStatus:	Notifies the delegate that a frame was recognized, delivers the result and status information.
- onError:	Notifies the delegate about an error. Inherited from the RTRRecognitionServiceDelegate protocol.
- onWarning:	Optional method. Informs the delegate about warnings from the service. Inherited from the RTRRecognitionServiceDelegate protocol.

onBufferProcessedWithTextLines:resultStatus: method of the RTRTextCaptureServiceDelegate protocol

Notifies the delegate that a frame was recognized, delivers the result and its stability status.

The result stability status should be used to determine if the accuracy is high enough for the result to be used for any practical purposes. We recommend not to use the data in any way until the stability level has reached at least [RTRResultStabilityAvailable](#). When stability of the result has reached the desired level, the service may be stopped by calling the [stopTasks](#) method of the [RTRTextCaptureService](#) protocol.

This method is to be implemented on the client side. The implementation of this method will probably contain assessing the result plausibility, displaying the results to the user or using them in any way you need.

```
- (void)onBufferProcessedWithTextLines:(NSArray*)textLines resultStatus:
(RTRResultStabilityStatus)resultStatus;
```

Parameters

textLines

The result as an array of text lines, represented by [RTRTextLine](#) objects.

resultStatus

The estimate of how stable the result is, represented by an [RTRResultStabilityStatus](#) enumeration constant. It is not guaranteed that it ever reaches the desired level for a particular scene.

onError: method of the RTRTextCaptureServiceDelegate protocol

Notifies the delegate about an error.

```
- (void)onError:(NSError*)error;
```

Parameters

error

The error that has occurred.

onWarning: method of the RTRTextCaptureServiceDelegate protocol

Informs the delegate about warnings. This method is optional.

```
- (void)onWarning:(RTRCallbackWarningCode)warningCode;
```

Parameters

warningCode

The warning that has occurred, represented by an [RTRCallbackWarningCode](#) enumeration constant.

RTRRecognitionService protocol

The base background recognition service protocol, inherited by the [RTRDataCaptureService](#), [RTRTextCaptureService](#) and [RTRImageCaptureService](#) protocols.

Requires a delegate that conforms to the [RTRRecognitionServiceDelegate](#) protocol.

Methods

Name	Description
- addSampleBuffer:	Sends the video frame obtained from camera to the service.
- setAreaOfInterest:	Sets the search area on the frame.
- stopTasks	Stops processing and releases the resources used by the service.

addSampleBuffer: method of the RTRRecognitionService protocol

Sends the video frame obtained from camera to the service.

Call this method to pass on the video sample buffer received by an [AVCaptureVideoDataOutputSampleBufferDelegate](#) object via the [captureOutput:didOutputSampleBuffer:fromConnection:](#) method. The service will pick the frames it needs from the sequence of the frames you supply.

Note: The video output must be configured to use the `kCVPixelFormatType_32BGRA` video pixel format. Other pixel formats are currently not supported.

```
- (void) addSampleBuffer: (CMSampleBufferRef) sampleBuffer;
```

Parameters

sampleBuffer

A [CMSampleBuffer](#) object containing the video frame data.

setAreaOfInterest: method of the RTRRecognitionService protocol

Sets the search area on the frame.

The size of the area of interest affects performance and the speed of convergence of the result. The best result is achieved when the area of interest does not touch the boundaries of the frame but has a margin of at least half the size of a typical printed character.

```
- (void) setAreaOfInterest: (CGRect) areaOfInterest;
```

Parameters

areaOfInterest

The rectangle specifying the area of interest in the image coordinates. Pass CGRectZero as this parameter to select the default area of interest that covers the whole frame (not recommended).

stopTasks method of the RTRRecognitionService protocol

Stops processing and cleans up image buffers. The service keeps its configuration settings and necessary resources, so the processing will start automatically when the service receives a new frame.

```
- (void)stopTasks;
```

RTRRecognitionServiceDelegate protocol

The base protocol for a recognition service delegate, inherited by the [RTRDataCaptureServiceDelegate](#), [RTRTextCaptureServiceDelegate](#) and [RTRImageCaptureServiceDelegate](#) protocols. The methods are to be implemented on the client side.

Methods

Name	Description
- onError:	Notifies the delegate about an error.
- onWarning:	Optional method. Informs the delegate about warnings from the service.

onError: method of the RTRRecognitionServiceDelegate protocol

Notifies the delegate about an error.

```
- (void)onError:(NSError*)error;
```

Parameters

error

The error that has occurred.

onWarning: method of the RTRRecognitionServiceDelegate protocol

Informs the delegate about warnings. This method is optional.

```
- (void)onWarning:(RTRCallbackWarningCode)warningCode;
```

Parameters

warningCode

The warning that has occurred, represented by an [RTRCallbackWarningCode](#) enumeration constant.

RTRResultStabilityStatus enumeration

Result stability status: the estimate of how stable the result is, and whether it is likely to be improved by adding new frames. We do not recommend using the results in any way while stability is below `RTRResultStabilityAvailable`.

```
typedef NS_ENUM(NSInteger, RTRResultStabilityStatus) {
    RTRResultStabilityNotReady,
    RTRResultStabilityTentative,
    RTRResultStabilityVerified,
    RTRResultStabilityAvailable,
    RTRResultStabilityTentativelyStable,
    RTRResultStabilityStable
};
```

Constants

Name	Description
<code>RTRResultStabilityNotReady</code>	No content available.
<code>RTRResultStabilityTentative</code>	Content detected on a single frame.
<code>RTRResultStabilityVerified</code>	Content verified: matching content found in at least two frames.
<code>RTRResultStabilityAvailable</code>	Matching content found in three or more frames. The content is recognized and the result is available, though the result can still vary with the addition of new frames.

Name	Description
RTRResultStabilityTentativelyStable	The result has been stable in the last two frames.
RTRResultStabilityStable	The result has been stable in the last three or more frames.

Core API

RTRCoreAPI protocol

Provides access to low-level functions for single image processing. Useful when you need to recognize an image that was not taken by the camera of the device on which the application operates — for example, scans sent by email.

Inherits from [RTRRecognitionCoreAPI](#), [RTRDataCaptureCoreAPI](#) and [RTRImagingCoreAPI](#) protocols.

Properties

Name	Type	Description
processingSettings	RTRCoreAPIProcessingSettings	Provides access to the general processing settings common for different scenarios.
textRecognitionSettings	RTRCoreAPITextRecognitionSettings	Provides access to the settings of text recognition.

Methods

Name	Description
- recognizeText:onProgress:onTextOrientationDetected:error:	Performs recognition of a single image.

recognizeText:onProgress:onTextOrientationDetected:error: method of the RTRCoreAPI protocol

Performs recognition of a single image.

```
- (NSArray*) recognizeText:(UIImage*) image
    onProgress:(BOOL(^)(int percentage, RTRCallbackWarningCode
warningCode)) progressCallback
    onTextOrientationDetected:(void(^)(int angle))
textOrientationDetectedCallback
    error:(__autoreleasing NSError**) error;
```

Parameters

image

The image to be recognized.

onProgress

The callback informing you of approximate percentage of operation completed, and any warning that occurred (represented by an [RTRCallbackWarningCode](#) constant). This callback can also be used to interrupt processing: return TRUE if you wish to terminate the current operation, FALSE to continue.

onTextOrientationDetected

The callback informing you when the image orientation is detected. The *angle* parameter can take values of 0, 90, 180, and 270, and means the angle on which the image should be rotated to get normal orientation.

error

The error callback.

Return values

The method returns an array of [RTRTextBlock](#) objects which contain the results of recognition for the text areas found on the image.

RTRCoreAPIDataCaptureSettings protocol

Settings specific for data capture scenario.

Properties

Name	Type	Description
profile	NSString*	The name of a data capture profile (data

Name	Type	Description
		<p>scheme) to use. For the available predefined profiles see Data Capture Profiles.</p> <p>Note: Currently only the BusinessCards profile is supported in the data capture scenario with the core API usage.</p>

Methods

Name	Description
- setAreaOfInterest:	Sets the search area on the image.
- configureDataCaptureProfile	Sets the languages to be used for recognition.

setAreaOfInterest: method of the RTRCoreAPIDataCaptureSettings protocol

Sets the search area on the image.

```
- (void) setAreaOfInterest: (CGRect) areaOfInterest;
```

Parameters

areaOfInterest

The rectangle specifying the area of interest in the image coordinates. Pass CGRectZero as this parameter to select the default area of interest that covers the whole frame.

configureDataCaptureProfile method of the RTRCoreAPIDataCaptureSettings protocol

Creates a profile builder object with which you will be able to configure the data capture core API to recognize a custom field.

```
- (id<RTRDataCaptureProfileBuilder>) configureDataCaptureProfile;
```

Return values

The method returns an instance implementing the [RTRDataCaptureProfileBuilder](#) protocol, or **nil** if a profile may not be configured (e.g. you have already specified a profile name on creating the data capture service).

RTRCoreAPIProcessingSettings protocol

General processing settings common for different scenarios.

Properties

Name	Type	Description
processingThreadsCount	NSInteger	<p>Specifies the number of threads to be used for processing.</p> <p>The default value of this property is 0, which means that the number of processing threads will be determined automatically.</p>

RTRCoreAPITextRecognitionSettings protocol

Settings specific for text recognition scenario.

Properties

Name	Type	Description
textOrientationDetectionEnabled	BOOL	<p>Enables or disables detection of the image orientation while preprocessing.</p> <p>If the property is set to YES, the image top is detected and correct orientation can be used for image rotation.</p> <p>You can set this property to NO for speeding the process up.</p> <p>Note: <i>Disable the image detection only if you can be sure that the captured image has correct orientation. Otherwise the text on image will not be detected and recognized.</i></p> <p>The default value of this property is YES</p>

Name	Type	Description
		(enabled).

Methods

Name	Description
- setAreaOfInterest:	Sets the search area on the image.
- setRecognitionLanguages:	Sets the languages to be used for recognition.

setAreaOfInterest: method of the RTRCoreAPITextRecognitionSettings protocol

Sets the search area on the image.

```
- (void) setAreaOfInterest: (CGRect) areaOfInterest;
```

Parameters

areaOfInterest

The rectangle specifying the area of interest in the image coordinates. Pass `CGRectZero` as this parameter to select the default area of interest that covers the whole frame.

setRecognitionLanguages: method of the RTRCoreAPITextRecognitionSettings protocol

Sets the languages to be used for recognition.

By default, only the English language is set. Setting the correct languages for your text will improve recognition accuracy. However, setting too many languages may decrease performance.

Use the [languagesAvailableForOCR](#) method to check which languages are supported in your application.

```
- (void) setRecognitionLanguages: (NSSet*) recognitionLanguages;
```

Parameters

recognitionLanguages

The set of languages to be used for recognition, each language represented by its internal name as a string. See [Available Languages](#) for the list of languages and corresponding internal names.

RTRDataCaptureCoreAPI protocol

Provides access to low-level single image core API functions for current thread, that are intended for capturing data. The protocol should be used in the same thread in which it was created. Multiple objects can be created on different threads and used concurrently. All methods are synchronous (blocking) and should not be used on UI thread. Intended for advanced users.

Properties

Name	Type	Description
processingSettings	RTRCoreAPIProcessingSettings	Provides access to the general processing settings common for different scenarios.
dataCaptureSettings	RTRCoreAPIDataCaptureSettings	Provides access to the settings of data capture.
extendedSettings	RTRExtendedSettings	Extended service configuration settings. Intended for advanced users: most common scenarios will work with the default settings.
textOrientationDetectionEnabled	BOOL	<p>Enables or disables detection of the image orientation while preprocessing.</p> <p>If the property is set to YES, the image top is detected and correct orientation can be used for image rotation.</p> <p>You can set this property to NO for speeding the process up.</p> <p>! <i>Note: Disable the image detection only if you can be sure that the captured image has correct orientation. Otherwise the text on image will not be detected and recognized.</i></p> <p>The default value of this property is YES (enabled).</p>

Methods

Name	Description
- extractDataFromImage:onProgress:onTextOrientationDetected:dataScheme:error:	Extracts data from a still image.

extractDataFromImage:onProgress:onTextOrientationDetected:dataScheme:error: method of the RTRDataCaptureCoreAPI protocol

Extracts data from a still image.

```

- (NSArray<RTRDataField*>*)extractDataFromImage:(UIImage*)image onProgress:
(RTRProgressCallbackBlock)progressCallback
    onTextOrientationDetected:(RTRTextOrientationDetectedBlock)
textOrientationDetectedCallback
    error:(__autoreleasing NSError**)error;
    
```

Parameters

image

The image to be recognized..

progressCallback

The callback informing you of approximate percentage of operation completed, and any warning that occurred (represented by an [RTRCallbackWarningCode](#) constant). This callback can also be used to interrupt processing: return TRUE if you wish to terminate the current operation, FALSE to continue.

textOrientationDetectedCallback

The callback informing you when the image orientation is detected. The *angle* parameter can take values of 0, 90, 180, and 270, and means the angle on which the image should be rotated to get normal orientation.

error

The error callback.

Return values

The method returns an array of data fields, represented by [RTRDataField](#) objects.

RTRRecognitionCoreAPI protocol

Provides access to low-level single image core API functions for current thread, that are intended for text recognition on photos. The protocol should be used in the same thread in which it was created. Multiple objects can be created on different threads and used concurrently. All methods are synchronous (blocking) and should not be used on UI thread. Intended for advanced users.

Properties

Name	Type	Description
processingSettings	RTRCoreAPIProcessingSettings	Provides access to the general processing settings common for different scenarios.
textRecognitionSettings	RTRCoreAPITextRecognitionSettings	Provides access to the settings of text recognition scenario.
extendedSettings	RTRExtendedSettings	Extended service configuration settings. Intended for advanced users: most common scenarios will work with the default settings.

Methods

Name	Description
- recognizeTextOnImage:onProgress:onTextOrientationDetectedCallback:error:	Recognizes text on a still image.

recognizeTextOnImage:onProgress:onTextOrientationDetectedCallback:error: method of the RTRRecognitionCoreAPI protocol

Recognizes text on a still image.

```
- (NSArray<RTRTextBlock*>*) recognizeTextOnImage:(UIImage*) image onProgress:
(RTRProgressCallbackBlock) progressCallback
    onTextOrientationDetected:(RTRTextOrientationDetectedBlock)
textOrientationDetectedCallback
    error:(__autoreleasing NSError**) error;
```

Parameters

image

The image to be recognized..

progressCallback

The callback informing you of approximate percentage of operation completed, and any warning that occurred (represented by an [RTRCallbackWarningCode](#) constant). This callback can also be used to interrupt processing: return TRUE if you wish to terminate the current operation, FALSE to continue.

textOrientationDetectedCallback

The callback informing you when the image orientation is detected. The *angle* parameter can take values of 0, 90, 180, and 270, and means the angle on which the image should be rotated to get normal orientation.

error

The error callback.

Return values

The method returns an array of data fields, represented by [RTRTextBlock](#) objects.

MobileImagina Core API

RTRCoreAPICropOperation protocol

An operation for image crop. The crop is performed on the image taking into account the orientation that is stored in certain metadata of the corresponding **UIImage** object (see the [UIImageOrientation](#) for more information).

This operation not only crops the image but also applies perspective distortion if needed.

Use the [applyToImage:](#) method of the [RTRCoreAPIImageOperation](#) protocol to apply the operation to the image.

Properties

Name	Type	Description
documentBoundary	NSArray<NSValue*>, read-only	[in] The detected document boundary. Currently the result is always returned as the four vertex points of the bounding quadrangle. The vertices are indexed clockwise starting from the bottom left.

Name	Type	Description
		Get the NSValue.CGPointValue property to obtain point coordinates as a CGPoint .
documentSize	CGSize	[in, optional] the document size in millimeters.
imageResolution	CGSize	[out] Image resolution as calculated from image size and physical page size.

RTRCoreAPIDetectDocumentBoundaryOperation protocol

An operation for image boundaries detection. Use the [applyToImage](#) method of the [RTRCoreAPIImageOperation](#) protocol to apply the operation to the image.

Properties

Name	Type	Description
areaOfInterest	CGPoint	Area of interest for the operation.
mode	RTRDetectDocumentBoundaryMode	Document boundary detection mode. The mode influences on the crop speed and accuracy.
documentSize	CGSize	[in, out] The document size in millimeters.
documentBoundary	NSArray<NSValue*>, read-only	[out] The detected document boundary. Currently the result is always returned as the four vertex points of the bounding quadrangle. The vertices are indexed clockwise starting from the bottom left. Get the NSValue.CGPointValue property to obtain point coordinates as a CGPoint .

RTRCoreAPIExportOperation protocol

Export operation protocol.

Images are added to the export operation as pages. Some export operations support adding multiple pages and some do not. Export operations should be properly closed with the **close** method to ensure that all required content has been written to the output stream.

Methods

Name	Description
- addPageWithImage:	Adds the page to the export target.
- close:	Call this method to ensure that all required content has been written to the output stream.

addPageWithImage: method of the RTRCoreAPIExportOperation protocol

Adds the page to the export target.

```
- (BOOL)addPageWithImage:(UIImage*) page;
```

Parameters

page

The page that must be added to the export target.

close: method of the RTRCoreAPIExportOperation protocol

This method is called to ensure that all required content has been written to the output stream.

```
- (BOOL)close;
```

RTRCoreAPIExportToPngOperation protocol

An operation for image export into PNG format. Inherits from the [RTRCoreAPIExportOperation](#) protocol. Use the [addPageWithImage:](#) method of the [RTRCoreAPIExportOperation](#) protocol to export the image.

Properties

Name	Type	Description
imageResolution	CGSize	Image resolution in EXIF. The default value of this property is 0.

RTRCoreAPIExportToJpgOperation protocol

An operation for image export into JPG format. Inherits from the [RTRCoreAPIExportOperation](#) protocol. Use the [addPageWithImage:](#) method of the [RTRCoreAPIExportOperation](#) protocol to export the image.

Properties

Name	Type	Description
imageResolution	CGSize	Image resolution in EXIF. The default value of this property is 0.
compression	RTRCoreAPIExportCompressionLevel	Page compression rate. This property should be tuned depending on the image resolution and the font size.

RTRCoreAPIExportToJpeg2000Operation protocol

An operation for image export into JPG 2000 format. Inherits from the [RTRCoreAPIExportOperation](#) protocol. Use the [addPageWithImage:](#) method of the [RTRCoreAPIExportOperation](#) protocol to export the image.

Properties

Name	Type	Description
imageResolution	CGSize	Image resolution in EXIF. The default value of this property is 0.

Name	Type	Description
compression	RTRCoreAPIExportCompressionLevel	Page compression rate. This property should be tuned depending on the image resolution and the font size.

RTRCoreAPIExportToPdfOperation protocol

An operation for image export into PDF format. Inherits from the [RTRCoreAPIExportOperation](#) protocol. Use the [addPageWithImage:](#) method of the [RTRCoreAPIExportOperation](#) protocol to export the image.

Properties

Name	Type	Description
compressionType	RTRCoreAPIPdfExportCompressionType	The type of compression for PDF files depending on the base image format. The default value of this property is RTRCoreAPIPdfExportJpgCompression .
compression	RTRCoreAPIExportCompressionLevel	Page compression rate. This property should be tuned depending on the image resolution and the font size.
pageSize	CGSize	Page width in points (1/72 per inch). The page size of A4 is 595x842. If the value of this property is CGSizeZero , the page size is the same as the size of the image in pixels. The default value of this property is CGSizeZero .

RTRCoreAPIImage protocol

The protocol stores the captured image. All operations are applied to the image loaded to this format.

```
- (UIImage*) UIImage;
```

RTRCoreAPIImageOperation protocol

The image operation protocol. Inherits from the [RTRCoreAPIOperation](#) protocol.

After the image is captured a sequence of specified operations is applied to it. The operations can modify the image, then the returned result is the modified image, fill the [out] parameters of the operation or combine these two behavior types.

Methods

Name	Description
- applyToImage:	Applies chosen operation to the image.

applyToImage: method of the RTRCoreAPIOperation protocol

Applies chosen operation to the image.

```
- (BOOL) applyToImage: (id<RTRCoreAPIImage>) image;
```

Parameters

image

The image represented by an [RTRCoreAPIImage](#) object to which the operation is to be applied.

RTRCoreAPIOperation protocol

The base background operation protocol, inherited by the [RTRCoreAPIImageOperation](#) protocol.

Properties

Name	Type	Description
error	NSError*	The error that has occurred.

RTRCoreAPIQualityAssessmentForOCROperation protocol

Note: *This is a technology preview feature. The functionality will be improved and completed in future versions.*

An operation for image quality assessment for OCR. Use the [applyToImage:](#) method of the [RTRCoreAPIImageOperation](#) protocol to apply the operation to the image.

Properties

Name	Type	Description
documentBoundary	NSArray<NSValue*>*, read-only	[out] The detected document boundary. Currently the result is always returned as the four vertex points of the bounding quadrangle. The vertices are indexed clockwise starting from the bottom left. Get the NSValue.CGPointValue property to obtain point coordinates as a CGPoint .
qualityAssessmentBlocks	NSArray< RTRQualityAssessmentForOCRBlock *>*	[out] The quality assessment blocks.

RTRCoreAPIRotateOperation protocol

An operation for rotating the image to a specified angle. Use the [applyToImage:](#) method of the [RTRCoreAPIImageOperation](#) protocol to apply the operation to the image.

Properties

Name	Type	Description
angle	NSInteger	The angle in degrees. Available values of the angle: 0, 90, 180, 270.

RTRImagingCoreAPI protocol

Provides access to low-level single image core API functions for current thread. Inherits from the [RTRCoreAPI](#) protocol. Should be used on the same thread on which it was created. Multiple objects can be created on different threads and used concurrently. All methods are synchronous (blocking) and should not be used on UI thread. Intended for advanced users.

Methods

Name	Description
- loadImage:error:	This method loads the image object into the internal format.

Name	Description
- createDetectDocumentBoundaryOperation	Creates an operation for document boundary detection.
- createQualityAssessmentForOCROperation	Creates an operation for image quality assessment for OCR.
- createCropOperation	Creates an operation for image crop.
- createRotateOperation	Creates an operation for rotating the image.
- createExportToPngOperation:	Creates an operation for exporting image to PNG format.
- createExportToJpgOperation:	Creates an operation for exporting image to JPG format.
- createExportToJpg2000Operation:	Creates an operation for exporting image to JPG 2000 format.
- createExportToPdfOperation:	Creates an operation for exporting image to PDF format.

createCropOperation method of the RTRImagingCoreAPI protocol

Creates an operation for image crop.

```
- (id<RTRCoreAPICropOperation>) createCropOperation;
```

Return values

The method returns an instance implementing the [RTRCoreAPICropOperation](#) protocol. Use the [applyToImage:](#) method of the [RTRCoreAPIImageOperation](#) protocol to apply the operation to the image.

createDetectDocumentBoundaryOperation method of the RTRImagingCoreAPI protocol

Creates an operation for document boundary detection.

```
- (id<RTRCoreAPIDetectDocumentBoundaryOperation>)
createDetectDocumentBoundaryOperation;
```

Return values

The method returns an instance implementing the [RTRCoreAPIDetectDocumentBoundaryOperation](#) protocol. Use the [applyToImage:](#) method of the [RTRCoreAPIImageOperation](#) protocol to apply the operation to the image.

createExportToPngOperation: method of the RTRImagingCoreAPI protocol

Creates an operation for exporting image to PNG format.

```
- (id<RTRCoreAPIExportToPngOperation>) createExportToPngOperation:
(id<RTROutputStream>) outputStream;
```

Parameters

outputStream

The output stream for export.

Return values

The method returns an instance implementing the [RTRCoreAPIExportToPngOperation](#) protocol. Use the [addPageWithImage:](#) method of the [RTRCoreAPIExportOperation](#) protocol to export the image.

createExportToJpgOperation: method of the RTRImagingCoreAPI protocol

Creates an operation for exporting image to JPG format.

```
- (id<RTRCoreAPIExportToJpgOperation>) createExportToJpgOperation:
(id<RTROutputStream>) outputStream;
```

Parameters

outputStream

The output stream for export.

Return values

The method returns an instance implementing the [RTRCoreAPIExportToJpgOperation](#) protocol. Use the [addPageWithImage:](#) method of the [RTRCoreAPIExportOperation](#) protocol to export the image.

createExportToJpeg2000Operation: method of the RTRImagingCoreAPI protocol

Creates an operation for exporting image to JPG 2000 format.

```
- (id<RTRCoreAPIExportToJpg2000Operation>) createExportToJpg2000Operation:
(id<RTROutputStream>) outputStream;
```

Parameters

outputStream

The output stream for export.

Return values

The method returns an instance implementing the [RTRCoreAPIExportToJpeg2000Operation](#) protocol. Use the [addPageWithImage:](#) method of the [RTRCoreAPIExportOperation](#) protocol to export the image.

createExportToPdfOperation: method of the RTRImagingCoreAPI protocol

Creates an operation for exporting image to PDF format.

```
- (id<RTRCoreAPIExportToPdfOperation>) createExportToPdfOperation:
(id<RTROutputStream>) outputStream;
```

Parameters

outputStream

The output stream for export.

Return values

The method returns an instance implementing the [RTRCoreAPIExportToPdfOperation](#) protocol. Use the [addPageWithImage:](#) method of the [RTRCoreAPIExportOperation](#) protocol to export the image.

createQualityAssessmentForOCROperation method of the RTRImagingCoreAPI protocol

Note: *This is a technology preview feature. The functionality will be improved and completed in future versions.*

Creates an operation for image quality assessment for OCR.

```
- (id<RTRCoreAPIQualityAssessmentForOCROperation>)
createQualityAssessmentForOCROperation;
```

Return values

The method returns an instance implementing the [RTRCoreAPIQualityAssessmentForOCROperation](#) protocol. Use the [applyToImage:](#) method of the [RTRCoreAPIImageOperation](#) protocol to apply the operation to the image.

createRotateOperation method of the RTRImagingCoreAPI protocol

Creates an operation for rotating the image.

```
- (id<RTRCoreAPIRotateOperation>) createRotateOperation;
```

Return values

The method returns an instance implementing the [RTRCoreAPIRotateOperation](#) protocol. Use the [applyToImage:](#) method of the [RTRCoreAPIImageOperation](#) protocol to apply the operation to the image.

loadImage:error: method of the RTRImagingCoreAPI protocol

This method loads the image object into the internal format.

```
- (id<RTRCoreAPIImage>) loadImage: (UIImage*) image;
error: (NSError**) error;
```

Parameters

image

The image to be loaded.

error

The error that has occurred.

Return values

The method returns an instance implementing the [RTRCoreAPIImage](#) protocol.

RTROutputStream protocol

This output stream protocol is used for exporting the processed image. You can use one of three interfaces implementing the protocol. The protocol and its methods can also be implemented on the client side.

Methods

Name	Description
- writeData:	Writes the provided data to the specified destination.

writeData: method of the RTROutputStream protocol

Writes the provided data to the specified destination.

```
- (BOOL)writeData:(NSData*) data;
```

Parameters

data

The data that must be written to stream.

RTRQualityAssessmentForOCRBlock protocol

Note: *This is a technology preview feature. The functionality will be improved and completed in future versions.*

The block for the quality assessment for OCR.

Properties

Name	Type	Description
type	RTRQualityAssessmentForOCRBlockType	Type of quality assessment block.

Name	Type	Description
quality	NSInteger	Value from 0 to 100 that indicates suitability of the text for OCR.
rect	CGRect	Block rectangle.

RTRMemoryOutputStream class

This output stream class conforms to the [RTROutputStream](#) protocol and is used for exporting the processed image as data to memory.

Properties

Name	Type	Description
data	NSData*	The data exported to memory.

Methods

Name	Description
- writeData:	Writes the provided data to the specified destination.

writeData: method of the RTRMemoryOutputStream class

Writes the provided data to the specified destination.

```
- (BOOL)writeData:(NSData*) data;
```

Parameters

data

The data that must be written to stream.

RTRFileOutputStream class

This output stream class conforms to the [RTROutputStream](#) protocol and is used for exporting the processed image as data to a specified file.

Properties

Name	Type	Description
filePath	NSString*	The address of the file to which the exported data will be written.
error	NSError*	The error that has occurred. In case no errors occurred, this property is nil .

Methods

Name	Description
- writeData:	Writes the provided data to the specified destination.
- initWithFilePath:	Returns an initialized output stream for writing to the specified 'filePath'.

initWithFilePath: method of the RTRFileOutputStream class

Returns an initialized output stream for writing to the specified 'filePath'.

```
- (instancetype) initWithFilePath: (NSString*) filePath;
```

Parameters

filePath

The address of the file to which the exported data will be written.

Return values

The method returns an instance of the [RTRFileOutputStream](#) object, or **nil** if object creation failed.

writeData: method of the RTRFileOutputStream class

Writes the provided data to the specified destination.

```
- (BOOL)writeData:(NSData*) data;
```

Parameters

data

The data that must be written to stream.

RTROutputStream class

This output stream class conforms to the [RTROutputStream](#) protocol and is used for exporting the processed image as data to the stream.

Properties

Name	Type	Description
outputStream	NSOutputStream*	The output stream to which the exported data will be written.
error	NSError*	The error that has occurred. In case no errors occurred, this property is nil .

Methods

Name	Description
- writeData:	Writes the provided data to the specified destination.
- initWithOutputStream:	Returns an initialized output stream for writing to the specified output stream.

initWithOutputStream: method of the RTROutputStream class

Returns an initialized output stream for writing to the specified output stream. This output stream must be opened before using.

```
- (instancetype)initWithOutputStream:(NSOutputStream*) outputStream;
```

Parameters

outputStream

The output stream to which the exported data will be written.

Return values

The method returns an instance of the [RTROutputStream](#) object, or **nil** if object creation failed.

writeData: method of the RTROutputStream class

Writes the provided data to the specified destination.

```
- (BOOL)writeData:(NSData*)data;
```

Parameters

data

The data that must be written to stream.

RTRDetectDocumentBoundaryMode enumeration

The type of document boundary detection and crop.

```
typedef NS_ENUM(NSUInteger, RTRDetectDocumentBoundaryMode) {
    RTRDetectDocumentBoundaryModeDefault,
    RTRDetectDocumentBoundaryModeFast,
};
```

Constants

Name	Description
RTRDetectDocumentBoundaryModeDefault	[Default] Balanced mode, that combines optimal processing speed and high quality.
RTRDetectDocumentBoundaryModeFast	Fast mode, that signifies processing speed.

RTRProgressCallbackBlock

This is a type definition for approximate progress of the operation block that will be passed to the methods of data capturing or text recognition as an **onProgress** parameter.

```
typedef BOOL (RTRProgressCallbackBlock) (NSInteger percentage,
RTRCallbackWarningCode warningCode);
```

Parameters

percentage

The approximate percentage of the work currently done. This parameter is in the range from 0 to 100.

warningCode

A warning that occurred during processing represented by an [RTRCallbackWarningCode](#) constant.

Return values

The block must return NO if the recognition process should be terminated, TRUE otherwise.

RTRTextOrientationDetectedBlock

This is a type definition for a block informing if the image orientation is detected. The block is passed to the methods of data capturing or text recognition as an **onTextOrientationDetected** parameter.

```
typedef void (RTRTextOrientationDetectedBlock) (NSInteger angle);
```

Parameters

angle

The angle on which the image should be rotated to get normal orientation. The angle parameter can take values of 0, 90, 180, and 270.

RTRImageCaptureStatus

The current status of the image capture. Returned value is intended for the UI feedback.

Properties

Name	Type	Description
motionVector	CGVector	The vector that indicates the

Name	Type	Description
		<p>image position shifting in comparison to the previous state.</p>
relativeQuality	NSInteger	<p>The value from internal image quality scale. Larger value means better image quality. The minimum value is 0.</p> <p>! <i>Note: This API is available only in the extended version of the library. For correct quality comparison the image should represent the document at the same scene. If the background changes at some images, parameter values will not represent appropriate for comparison data.</i></p>
documentBoundary	NSArray<NSValue*>*	<p>The detected document boundary. Currently the result is always returned as the four vertex points of the bounding quadrangle. The vertices are indexed clockwise starting from the bottom left.</p> <p>Get the NSValue.CGPointValue property to obtain point coordinates as a CGPoint.</p>
qualityAssessmentForOCRBlocks	NSArray< RTRQualityAssessmentForOCRBlock *>*	<p>The quality assessment blocks.</p>

RTRImageCaptureResult

The result of the image capture.

Properties

Name	Type	Description
image	UIImage*	The captured image.
documentBoundary	NSArray<NSValue*>*	<p>The detected document boundary. Currently the result is always returned as the four vertex points of the bounding quadrangle. The vertices are indexed clockwise starting from the bottom left.</p> <p>Get the NSValue.CGPointValue property to obtain point coordinates as a CGPoint.</p>
documentSize	CGSize	The document size (as specified in setDocumentSize:).
qualityAssessmentForOCRBlocks	NSArray< RTRQualityAssessmentForOCRBlock *>*	The quality assessment blocks.

RTREngineSettings protocol

Additional settings for ABBYY Mobile Capture SDK engine. They apply to all processing scenarios.

Properties

Name	Type	Description
externalAssetsPath	NSString*	<p>The additional path to search for framework data.</p> <p>The program will search for any resource file it needs first in the bundle root, then in the specified custom folder, each time looking in the corresponding subfolder. For example, it will try to locate a pattern file (*.rom) like this:</p> <ol style="list-style-type: none"> 1) in <bundle path>/Patterns 2) in <custom search path>/Patterns

Name	Type	Description
		3) if the file is not found, an error will be returned

RTRCharInfo class

Extended information about the character formatting.

! *Important!* This class is reserved for future use.

Properties

Name	Type	Description
backgroundColor	NSInteger, read-only	The color of the background. ! <i>Note:</i> The int value is calculated from the RGB triplet using the formula: (red value) + (256 x green value) + (65536 x blue value) , where red value is the first triplet component, green value is the second triplet component, blue value is the third triplet component. For example, the int value of the color white equals 16777215.
foregroundColor	NSInteger, read-only	The color of the symbol.
quadrangle	NSArray<NSNumber*>, read-only	The four vertex points of the bounding quadrangle. The vertices are indexed clockwise starting from the bottom left. Get the NSNumber.CGPointValue property to obtain point coordinates as a CGPoint .
rect	CGRect, read-only	The bounding rectangle.

RTRDataField class

A recognized data field. Provides field contents, location and included data fields, if applicable.

The field can be compound, which means that it consists from several parts.

Note that a field may have several components — for example, it can contain two or more words. Component details are available from the **components** array. Each element of this array is an [RTRDataField](#) object with its own **text** property (for example, a word) and **quadrangle** property (the bounding quadrangle of this component). The field's **text** property contains its entire text, and the field's **quadrangle** property represents the whole area of a field: this quadrangle encloses the quadrangles of all components.

The **components** array always contains at least one element. When a field contains only one component, the **text** and **quadrangle** properties of the field and this component are identical.

Properties

Name	Type	Description
id	NSString*, read-only	The internal field identifier. Can be one of the predefined fields listed in Data Capture Profiles or the custom field identifier that you specified when adding the field in RTRDataSchemeBuilder . May be nil in case the component is a part of a compound component.
name	NSString*, read-only	The name of the field as seen in the document or specified in the custom data capture profile.
quadrangle	NSArray<NSNumber*>, read-only	The four vertex points of the bounding quadrangle. The vertices are indexed clockwise starting from the bottom left. Get the NSNumber.CGPointValue property to obtain point coordinates as a CGPoint .
text	NSString*, read-only	The recognized field contents.
components	NSArray<RTRDataField*>, read-only	Field components represented by RTRDataField objects. If the field has only one component, this array contains one element.

RTRDataScheme class

Information on the data scheme applied to the recognized frame.

Properties

Name	Type	Description
id	NSString, read-only	The internal scheme identifier. Can be one of the predefined data schemes listed in Data Capture Profiles or the custom scheme identifier that you specified when creating the scheme in the RTRDataCaptureProfileBuilder .
name	NSString, read-only	The name of the scheme. If you are using a custom data capture profile, this is the same name you specified when creating the scheme in the RTRDataCaptureProfileBuilder .

RTRExtendedSettings class

Extended service configuration settings. Intended for advanced users: most common scenarios will work with the default settings.

Properties

Name	Type	Description
CJKVerticalTextEnabled	BOOL	Enables or disables vertical writing direction for Chinese, Japanese, and Korean languages. The default value of this property is NO (disabled).
frameMergingEnabled	BOOL	Enables or disables merging of recognition results. Frame merging is one of the key features of Mobile Capture SDK, which improves recognition accuracy. The default value of this property is YES (enabled).
processingThreadsCount	NSInteger	The number of processing threads to be used by the service. Up to 16 threads are allowed.

Name	Type	Description
		<p>Set to 0 to determine the number of threads automatically.</p> <p>The default value of this property is 0.</p>

RTRTextLine class

A line of recognized text; the location and additional information are also available.

Properties

Name	Type	Description
charsInfo	NSArray*, read-only	<p>Extended characters' information as an array of RTRCharInfo objects.</p> <p>! <i>Important!</i> This property is reserved for future use.</p>
quadrangle	NSArray<NSValue*>*, read-only	<p>The four vertex points of the bounding quadrangle. The vertices are indexed clockwise starting from the bottom left.</p> <p>Get the NSValue.CGPointValue property to obtain point coordinates as a CGPoint.</p>
rect	CGRect, read-only	The bounding rectangle.
text	NSString*, read-only	The recognized text.

RTRTextBlock class

A block of recognized text, containing an array of text lines found in one text area on the image.

Properties

Name	Type	Description
textLines	NSArray*, read-only	The array of RTRTextLine objects representing the lines of recognized text.

RTRQualityAssessmentForOCRBlockType enumeration

Note: *This is a technology preview feature. The functionality will be improved and completed in future versions.*

Type of the block for quality assessment for OCR.

```
typedef NS_ENUM(NSUInteger, RTRQualityAssessmentForOCRBlockType) {
    RTRQualityAssessmentForOCRTextBlock,
    RTRQualityAssessmentForOCRUnknownBlock,
};
```

Constants

Name	Description
RTRQualityAssessmentForOCRTextBlock	The text detected.
RTRQualityAssessmentForOCRUnknownBlock	The unknown type.

RTRCoreAPIExportCompressionLevel enumeration

The uniform image compression scale for lossy formats.

```
typedef NS_ENUM(NSUInteger, RTRCoreAPIExportCompressionLevel) {
    RTRCoreAPIExportCompressionLowLevel,
    RTRCoreAPIExportCompressionNormalLevel,
    RTRCoreAPIExportCompressionHighLevel,
    RTRCoreAPIExportCompressionExtraHighLevel,
};
```

Constants

Name	Description
RTRCoreAPIExportCompressionLowLevel	The lowest compression rate, that still might have any noticeable effect on recognition of small text.
RTRCoreAPIExportCompressionNormalLevel	[Default] Balanced trade-off between compression and quality. Good safety margin.
RTRCoreAPIExportCompressionHighLevel	More compression, less safety margin. Might perform poorly with small text, but generally still ok.
RTRCoreAPIExportCompressionExtraHighLevel	The maximum recommended compression rate. Will perform poorly with small text. Advisable only for relatively large text and very slow networks.

RTRCoreAPIPdfExportCompressionType enumeration

The type of compression for PDF files depending on the base image format.

```
typedef NS_ENUM(NSUInteger, RTRCoreAPIPdfExportCompressionType) {
    RTRCoreAPIPdfExportJpgCompression,
    RTRCoreAPIPdfExportJpeg2000Compression,
};
```

Constants

Name	Description
RTRCoreAPIPdfExportJpgCompression	The image compression type for PDF files based on the JPG format.
RTRCoreAPIPdfExportJpeg2000Compression	The image compression type for PDF files based on the JPG 2000 format.

RTRCallbackWarningCode enumeration

A warning that occurred during processing.

```
typedef NS_ENUM(NSInteger, RTRCallbackWarningCode) {
    RTRCallbackWarningNoWarning,
    RTRCallbackWarningRecognitionIsSlow,
    RTRCallbackWarningProbablyLowQualityImage,
    RTRCallbackWarningProbablyWrongLanguage,
    RTRCallbackWarningWrongLanguage,
    RTRCallbackWarningTextTooSmall
};
```

Constants

Name	Description
RTRCallbackWarningProbablyLowQualityImage	The image quality (contrast, resolution) may not be good enough for accurate results.
RTRCallbackWarningProbablyWrongLanguage	The recognition language may be specified incorrectly.
RTRCallbackWarningRecognitionIsSlow	Recognition takes too much time. Check if there is some problem.
RTRCallbackWarningTextTooSmall	The text is too small. Advise the end user to move the camera closer or zoom in.
RTRCallbackWarningWrongLanguage	The recognition language is specified incorrectly.

User Interface API Reference

This section describes provided Objective-C API for user interface implementation.

AUICaptureScenario interface

Provides access to the capture scenario management. Inherited by the [AUImageCaptureScenario](#) and [AUIMultiPageImageCaptureScenario](#) interfaces.

Requires a delegate that conforms to the [AUICaptureScenarioDelegate](#) protocol.

Properties

Name	Type	Description
delegate	AUICaptureScenarioDelegate	Delegate object for receiving results, status information, warnings and errors.

Methods

Name	Description
+ supportedCameraResolutionsForDevice	Returns the camera resolutions from the AUICameraResolution enumeration, supported by the device.
- cancel:	Stops the scenario.

cancel method of the AUICaptureScenario interface

Stops the scenario.

```
- (void)cancel;
```

supportedCameraResolutionsForDevice

Returns the camera resolutions from the [AUICameraResolution](#) enumeration, supported by the device.

```
+ (NSArray<NSNumber*>*) supportedCameraResolutionsForDevice;
```

Return values

The method returns an array storing the resolutions supported by the device camera.

AUICaptureScenarioDelegate protocol

Delegate object for receiving results, status information, warnings and errors during the capture scenario. Inherited by the [AUImageCaptureScenarioDelegate](#) and [AUIMultiPageImageCaptureScenarioDelegate](#) protocols.

The method is to be implemented on the client side.

Methods

Name	Description
- captureScenarioDidCancel:	Notifies the delegate that performing scenario was canceled.

captureScenarioDidCancel: method

Notifies the delegate that the capture scenario was canceled.

```
- (void)captureScenarioDidCancel:(AUICaptureScenario)scenario;
```

Parameters

scenario

Scenario that was canceled.

AUICaptureController interface

Configures the work with camera preview. Provides properties for specifying capture scenario and customizing the user interface appearance.

If created without initial view controller, pushes camera controller automatically.

Properties

Name	Type	Description
localizedStringsBundle	NSBundle*	<p>Bundle storing the localized source strings for the interface.</p> <p>! <i>Note:</i> By default all the strings are in English. To change the interface language according to your needs, please localize the source strings in the AbbyUI.strings file located in the AbbyUI.framework.</p>
captureScenario	AUICaptureScenario*	<p>Capture scenario that will be performed on the camera preview.</p> <p>! <i>Note:</i> Only image capture scenario is currently supported.</p>
cameraOverlayView	UIView*	<p>Camera overlay view. Shows over camera view.</p> <p>To define in storyboard it must be placed outside AUICaptureController.</p>
flashButton	UIButton*	<p>Camera torch toggle button.</p> <p>Selected state is stored in NSUserDefaults.</p>
captureButton	UIButton*	Button for capturing image immediately.
closeButton	UIButton*	Button for closing the camera preview.
cameraSettings	AUICameraSettings	<p>Camera settings for current capture session.</p> <p>If the capture session is not started, this property is nil.</p>
theme	AUITheme	Color theme of the user interface, defining colors of the text, buttons' background, etc. The theme can be light or dark.

Name	Type	Description
customColor	UIColor*	Custom color of the button for manual taking photo.
paused	BOOL	Indicates if the scenario is in a paused state.

Methods

Name	Description
- setPaused:animated:	Sets or turns off the paused state.
- pushCameraControllerAnimated:animated:	Pushes the camera controller.  Note: This method is used in case camera controller is not the only controller inside the AUICaptureController object and so is not pushed automatically.

setPaused:animated: method of the AUICaptureController interface

Sets or turns off the paused state. During the pause state the interface elements disappear and the background is turning blurred.

```
- (void) setPaused:(BOOL) paused animated:(BOOL) animated;
```

Parameters

paused

Defines if the scenario is set to the paused state. Set YES for pausing, NO otherwise.

animated

Defines if the interface elements vanishing and background blurring will be performed slower when the pause state is set. Pass YES to show the animation, NO otherwise.

pushCameraControllerAnimated: method of the AUICaptureController interface

Pushes the camera controller.

```
- (void)pushCameraController:(BOOL)animated;
```

Parameters

animated

Defines if the interface elements vanishing and background blurring will be performed slower on the start. Pass YES to show the animation, NO otherwise.

AUIImageCaptureResult interface

Captured image with detected document boundaries. This result can be received in both real-time capturing from camera preview and from an immediate manual capture scenario.

Properties

Name	Type	Description
image	UIImage*	<p>The captured image.</p> <p>Note: In case cropEnabled property of the AUIImageCaptureScenario interface is set to TRUE, the property stores the result of the crop operation. Otherwise the full captured image is saved to this property.</p>
documentBoundary	NSArray<NSValue*>*	<p>The detected document boundary, returned as the four vertex points of the bounding quadrangle. The vertices are indexed clockwise starting from the bottom left.</p> <p>Get the NSValue.CGPointValue property to obtain point coordinates as a CGPoint.</p> <p>You can edit document boundaries, changing values of the points' coordinates.</p> <p>Important! In case cropEnabled property of the AUIImageCaptureScenario interface is set to TRUE, the property is <i>nil</i>.</p>

AUIImageCaptureScenario interface

Provides access to the image capture scenario settings. Inherits from the [AUICaptureScenario](#) interface.

Requires a delegate that conforms to the [AUIImageCaptureScenarioDelegate](#) protocol.

Properties

Name	Type	Description
delegate	AUIImageCaptureScenarioDelegate	Delegate object for receiving results, status information, warnings and errors.
active	BOOL	Denotes if the automatic capturing from the video stream is enabled. If FALSE, only manual capturing is available during the scenario. This property is TRUE by default and is set to FALSE automatically after image is captured.
minimumDocumentToViewRatio	CGFloat	The [0..1] ratio of the minimum document area relative to the whole frame area. The default value is 0.15.
aspectRatioMin*	CGFloat	Lower limit of the document's aspect ratio. This property is used in pair with the aspectRatioMax , defining an interval of acceptable aspect ratio values of the document to be captured. Setting aspect ratio will help to improve boundary detection accuracy. If only aspectRatioMax is set, aspectRatioMin will be set to 1. By default the property is set to 0 (aspect ratio is not set).
aspectRatioMax*	CGFloat	Upper limit of document's aspect ratio. This property is used in pair with the aspectRatioMin , defining an interval of acceptable aspect ratio values of the

Name	Type	Description
		<p>document to be captured. Setting aspect ratio will help to improve boundary detection accuracy.</p> <p>If only aspectRatioMin is set, aspectRatioMax will be set to CGFLOAT_MAX.</p> <p>By default the property is set to 0 (aspect ratio is not set).</p>
documentSize	AUIDocumentSize	<p>Document physical size.</p> <p>The default value is AUIDocumentSizeAny.</p>
cropEnabled	BOOL	<p>Indicates if the captured image should be cropped. If this parameter is set to TRUE, AUImageCaptureResult.image parameter will contain cropped image and the AUImageCaptureResult.documentBoundary parameter will be nil.</p> <p>The default value is FALSE.</p>

Document aspect ratio setting is intended to specify the exact proportions of the target document, which will increase capture accuracy.

Notes:

- *Aspect ratio detection requires the mobile device to be placed strictly horizontally over the document during image capture. In case the mobile device is tilted, camera will capture distorted image and the document aspect ratio may be detected incorrectly.*
- *The value of aspect ratio is calculated by division of the longer side to the shorter side and is expected to be greater than or equal to 1 (or 0 if not set). If neither **aspectRatioMin** nor **aspectRatioMax** are set, the values will be calculated from the **documentSize** setting.*

Methods

Name	Description
- initWithEngine:	Connects the AUImageCaptureScenario object with the RTREngine object that implements

Name	Description
	recognition.
- captureImageManually	Captures image immediately.

initWithEngine: method of the AUImageCaptureScenario interface

Connects the [AUImageCaptureScenario](#) object with the [RTREngine](#) object that implements capturing and recognition.

```
- (instancetype) initWithEngine: (RTREngine*) engine;
```

Parameters

engine

An instance of the corresponding to the scenario [RTREngine](#) object.

Return values

The method returns an instance of the [AUImageCaptureScenario](#) interface initialized with the [RTREngine](#) object.

captureImageManually

Captures image immediately.

```
- (void) captureImageManually;
```

AUImageCaptureScenarioDelegate protocol

Delegate object for receiving results, status information, warnings and errors during the image capture scenario.

Inherits from the [AUICaptureScenarioDelegate](#) protocol. The methods are to be implemented on the client side.

Methods

Name	Description
- captureScenario:didCaptureImageWithResult:	Notifies the delegate that an image was captured, delivers the result object.
- captureScenario:didFailWithError:	Notifies the delegate that an error has occurred while capturing.
- captureScenarioDidCancel:	Notifies the delegate that the capture scenario was canceled.

captureScenario:didCaptureImageWithResult: method

Notifies the delegate that an image was captured, delivers the result object.

```
- (void)captureScenario:(AUIImageCaptureScenario*)captureScenario
didCaptureImageWithResult:(AUIImageCaptureResult*)result;
```

Parameters

captureScenario

[AUIImageCaptureScenario](#) object, corresponding to the [AUIImageCaptureScenarioDelegate](#) delegate that should be notified.

result

The captured image as an [AUIImageCaptureResult](#) object with detected document boundaries.

captureScenario:didFailWithError: method

Notifies the delegate that an error has occurred while capturing.

```
- (void)captureScenario:(AUICaptureScenario*)scenario didFailWithError:
(NSError*)error;
```

Parameters

captureScenario

[AUIImageCaptureScenario](#) object, corresponding to the [AUIImageCaptureScenarioDelegate](#) delegate that should be notified about the error.

error

The error that has occurred.

captureScenarioDidCancel: method

Notifies the delegate that the capture scenario was canceled.

```
- (void)captureScenarioDidCancel:(AUICaptureScenario) scenario;
```

Parameters

scenario

Scenario that was canceled.

AUIImageCaptureSettings protocol

Provides access to the settings of the multipage image capture scenario for the certain page.

An instance of this protocol is passed as a parameter to the [captureScenario:onConfigureImageCaptureSettings:](#) method of the [AUIMultiPageCaptureSettings](#) protocol.

Properties

Name	Type	Description
minimumDocumentToView Ratio	CGFloat	The [0..1] ratio of the minimum document area relative to the whole frame area. The default value is 0.15.
aspectRatioMin*	CGFloat	Lower limit of the document's aspect ratio. This property is used in pair with the aspectRatioMax , defining an interval of acceptable aspect ratio values of the document to be captured. Setting aspect ratio will help to improve boundary detection accuracy. If only aspectRatioMax is set, aspectRatioMin will be set to 1. By default the property is set to 0 (aspect ratio is not set).

Name	Type	Description
aspectRatioMax*	CGFloat	<p>Upper limit of document's aspect ratio.</p> <p>This property is used in pair with the aspectRatioMin, defining an interval of acceptable aspect ratio values of the document to be captured. Setting aspect ratio will help to improve boundary detection accuracy.</p> <p>If only aspectRatioMin is set, aspectRatioMax will be set to CGFLOAT_MAX.</p> <p>By default the property is set to 0 (aspect ratio is not set).</p>
documentSize	AUIDocumentSize	<p>Document physical size.</p> <p>The default value is AUIDocumentSizeAny.</p>
imageFromGalleryMaxSize	NSInteger	<p>Maximum available size of an image, loaded from the gallery. The size is defined as the length of the largest side of an image (in pixels).</p> <p>The default value is 4096.</p>

Document aspect ratio setting is intended to specify the exact proportions of the target document, which will increase capture accuracy.

Notes:

- *Aspect ratio detection requires the mobile device to be placed strictly horizontally over the document during image capture. In case the mobile device is tilted, camera will capture distorted image and the document aspect ratio may be detected incorrectly.*
- *The value of aspect ratio is calculated by division of the longer side to the shorter side and is expected to be greater than or equal to 1 (or 0 if not set). If neither **aspectRatioMin** nor **aspectRatioMin** are set, the values will be calculated from the **documentSize** setting.*

AUIMultiPageCaptureSettings protocol

Manages the image capture process of a certain page.

Methods

Name	Description
<p>- captureScenario:onConfigureImageCaptureSettings:</p>	<p>Provides image capture processing settings to the page during capture. The page with specified index will be captured according to these settings.</p> <p>This method should be called from the image capture scenario with settings, that will be applied to the specified page capture process, represented by an AUImageCaptureSettings object.</p>

captureScenario:onConfigureImageCaptureSettings: method

Provides image capture processing settings to the page during capture. The page with specified index will be captured according to these settings.

```
- (void)captureScenario:(AUIMultiPageImageCaptureScenario*) captureScenario
    onConfigureImageCaptureSettings:(id<AUImageCaptureSettings>) settings
    forPageAtIndex:(NSUInteger) index;
```

Parameters

captureScenario

The multipage image capture scenario, represented by the [AUIMultiPageImageCaptureScenario](#) object. The image capture will be performed according to the settings during this scenario.

settings

The [AUImageCaptureSettings](#) object storing all the setting to be applied.

index

The number of the processing page.

AUIMultiPageImageCaptureResult protocol

Provides access to the result of a multipage document capture.

Methods

Name	Description
- clearWithError	Removes all the pages from the storage.
- deleteWithId:	Removes the page with specified identifier.
- loadBoundaryWithId:	Returns the document boundary for the specified page.
- loadImageWithId:	Returns the captured and cropped image for the specified page.
- loadOriginalImageWithId:	Returns the original captured image for the specified page.
- loadThumbnailWithId:	Returns the captured and cropped image's thumbnail for the specified page.
- pagesWithError:	Returns all the pages identifiers in the storage.

clearWithError: method

Removes all the pages from the storage.

```
- (BOOL)clearWithError:(NSError**)error;
```

Parameters

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns YES, if the pages were successfully deleted, and NO otherwise.

deleteWithId:error: method

Removes the page with specified identifier.

```
- (BOOL)deleteWithId:(AUIPageId)identifier error:(NSError**)error;
```

Parameters

identifier

[AUIPageId](#) object, storing the identifier of the page to be removed.

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns YES, if the page folder was successfully deleted, and NO otherwise.

loadBoundaryWithId:error: method

Returns the document boundary for the specified page.

```
- (nullable NSArray<NSValue*>*)loadBoundaryWithId:(AUIPageId)identifier
error:(NSError**)error;
```

Parameters

identifier

[AUIPageId](#) object, storing the identifier of the required page.

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns the four vertex points of the image bounding quadrangle. The vertices are indexed clockwise starting from the bottom left.

loadImageWithId:error: method

Returns the captured and cropped image for the specified page.

```
- (nullable UIImage*)loadImageWithId:(AUIPageId)identifier error:
(NSError**)error;
```

Parameters

identifier

[AUIPageId](#) object, storing the identifier of the required page.

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns the [UIImage](#) object, that represents the captured and cropped image or **nil** in case an error occurred.

loadOriginalImageWithId:error: method

Returns the original captured image for the specified page.

```
- (nullable UIImage*)loadOriginalImageWithId:(AUIPageId)identifier error:
(NSError**)error;
```

Parameters

identifier

[AUIPageId](#) object, storing the identifier of the required page.

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns the [UIImage](#) object, that represents the captured original image or **nil** in case an error occurred.

loadThumbnailWithId:error: method

Returns the captured image's thumbnail for the specified page.

```
- (nullable UIImage*)loadThumbnailWithId:(AUIPageId)identifier error:
(NSError**)error;
```

Parameters

identifier

[AUIPageId](#) object, storing the identifier of the required page.

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns the [UIImage](#) object, that represents the captured image's thumbnail or **nil** in case an error occurred.

pagesWithError:error: method

Returns all the pages identifiers in the storage.

```
- (nullable NSArray<AUIPageId>*) pagesWithError: (NSError**) error;
```

Parameters

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns an array of [AUIPageId](#) objects, storing the identifiers of all pages in the storage.

AUIMultiPageImageCaptureScenario interface

Provides access to the multipage image capture scenario management.

This interface helps to easily integrate the image capture technology into your application and manage the scenario when more than one image should be captured.

Inherits from the [AUICaptureScenario](#) interface.

Requires a delegate that conforms to the [AUIMultiPageImageCaptureScenarioDelegate](#) protocol.

Properties

Name	Type	Description
uiSettings	AUIMultiPageUISettings	Appearance settings of pages.
captureSettings	AUIMultiPageCaptureSettings	Additional multipage image capture scenario processing settings.

Name	Type	Description
active	BOOL	<p>Defines if the automatic capture is enabled. if YES, the image will be captured automatically from the video stream. If NO, only manual capture will be available.</p> <p>After each capture this parameter is set to NO.</p> <p>This property is passed to the setActive method as a parameter.</p> <p>The default value is YES.</p>
isShowPreviewEnabled	BOOL	<p>Specifies if a preview of an image should be shown after capture. If YES, a preview is shown. If NO, the camera view is shown instead.</p> <p>The default value is NO.</p>
requiredPageCount	NSUInteger	<p>Total number of pages to be captured.</p> <p>Use this property to set the page-limitation mode of the image capture:</p> <ul style="list-style-type: none"> • set to 0 to allow unlimited image capture. The batch of the result images can be saved or edited at any time • set to a positive value to set the exact number of images that should be captured. Images saving is enabled only when this number of images are been captured. <p>If the uiSettings property is set to the default value, required number of images is shown as a tip at the bottom of the camera view and in the top left corner of the gallery view, i.e. "1 of 3", where "3" is the required number of images.</p> <p>The value of this property should be set before the start of the capture scenario.</p> <p>The default value is 0 (no pages limit).</p>

Name	Type	Description
startAsEditorAtPageld	AUIPageld	<p>Identifier of the page with previously captured image that will be displayed as a start page at the scenario beginning. This property may be nil. In this case at the scenario beginning the camera view will be shown.</p> <p>! <i>Note:</i> This property becomes available after some images are been captured and saved to the AUIPageStorage with corresponding AUIPageld. Before the first image capture scenario start this property is nil.</p> <p>The default value is nil.</p>
result	AUIMultiPageImageCaptureResult	<p>Result of the multipage image capture scenario. Captured images can be retrieved by this property methods and used in further scenario, i.e. images demonstration in a view with all captured documents.</p>

Methods

Name	Description
- initWithEngine:	Connects the AUIMultiPageImageCaptureScenario object with the RTREngine object that implements recognition.
- setActive:animated:	Sets on and off automatic image capture mode.

setActive:animated: method

Sets on and off the automatic capture mode.

```
- (void) setActive:(BOOL) active animated:(BOOL) animated;
```

Parameters

active

Defines if the automatic capture should be enabled. If YES, the image will be captured automatically from the video stream. If NO, only manual capture will be available.

animated

Defines if the capture area corners should appear with zoom animation on the automatic capture enabling. Pass YES to show the animation, NO otherwise.

initWithEngine: method

Connects the [AUIMultiPageImageCaptureScenario](#) object with the [RTREngine](#) object that implements capturing and recognition.

```
- (instancetype) initWithEngine: (RTREngine*) engine pageStorage:
(id<AUIPageStorage>) storage NS_DESIGNATED_INITIALIZER;

- (instancetype) initWithEngine: (RTREngine*) engine storagePath: (NSString*)
path error: (NSError**) error;
```

Parameters

engine

An instance of the corresponding to the scenario [RTREngine](#) object.

storage

Previously created [AUIPageStorage](#) object with images.

path

Absolute path to the folder with images that will be converted into the [AUIPageStorage](#) object.

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns an instance of the [AUIMultiPageImageCaptureScenario](#) interface initialized with the [RTREngine](#) object.

AUIMultiPageImageCaptureScenarioDelegate protocol

Delegate object for receiving results, status information, warnings and errors during the multipage image capture scenario.

Inherits from the [AUICaptureScenarioDelegate](#) protocol. The methods are to be implemented on the client side.

Methods

Name	Description
- captureScenario:didFinishWithResult:	Notifies the delegate that the images were captured successfully and user pressed "Done" button.
- captureScenario:onCloseWithResult:	Notifies the delegate that the capture process was interrupted by user.
- captureScenario:didFailWithError:	Notifies the delegate that an error has occurred.

captureScenario:didFinishWithResult: method

Notifies the delegate that the images were captured successfully and user pressed "Done" button.

```
- (void)captureScenario:(AUIMultiPageImageCaptureScenario*)captureScenario
    didFinishWithResult:(id<AUIMultiImageCaptureResult>)result;
```

Parameters

captureScenario

[AUIMultiPageImageCaptureScenario](#) object, corresponding to the [AUIMultiPageImageCaptureScenarioDelegate](#) delegate that should be notified.

result

The captured images as an [AUIMultiPageImageCaptureResult](#) object.

Note: In case you do not want to save images in the storage after stopped or failed scenario, you can remove the images from the storage, using [clearWithError:](#) method.

captureScenario:onCloseWithResult: method

Notifies the delegate that the capture process was interrupted by user.

```
- (void)captureScenario:(AUIMultiPageImageCaptureScenario*)captureScenario
    onCloseWithResult:(id<AUIMultiImageCaptureResult>)result;
```

Parameters

captureScenario

[AUIMultiPageImageCaptureScenario](#) object, corresponding to the [AUIMultiPageImageCaptureScenarioDelegate](#) delegate that should be notified.

result

If any images were captured, they are stored in the [AUIMultiPageImageCaptureResult](#) result object.

Note: In case you do not want to save images in the storage after stopped or failed scenario, you can remove the images from the storage, using [clearWithError:](#) method.

captureScenario:didFailWithError:result:

Notifies the delegate that an error has occurred.

```
- (void)captureScenario:(AUIMultiPageImageCaptureScenario*)captureScenario
    didFailWithError:(NSError*)error
    result:(id<AUIMultiImageCaptureResult>)result;
```

Parameters

captureScenario

[AUIMultiPageImageCaptureScenario](#) object, corresponding to the [AUIMultiPageImageCaptureScenarioDelegate](#) delegate that should be notified.

error

The error that has occurred.

result

If any images were captured, they are stored in the [AUIMultiPageImageCaptureResult](#) result object.

Note: In case you do not want to save images in the storage after stopped or failed scenario, you can remove the images from the storage, using [clearWithError:](#) method.

AUIPageStorage protocol

API for implementing a custom image storage.

Most common scenarios will work with the default page storage. **AUIPageStorage** protocol is intended for advanced users and specific scenarios.

PageStorage can be represented as a collection of pages, where each page is assigned with a unique identifier (GUID) and is itself a key-value collection with string keys and arbitrary data values (**NSData**). Key-value relationship is to be maintained on the client side. An example of a key is an image or a thumbnail.

The default implementation of the **PageStorage** is file-based. By default it has a root folder located in application's internal storage. Each page is stored in a subfolder of the root folder named with page's identifier. All page-related data, such as captured image and its properties, is stored in files inside the corresponding subfolder.

Methods can be used for creation and managing pages of the image storage.

This logic is also used in the custom image storage implementation with the **AUIPageStorage** protocol and its methods.

To use the implemented custom storage instead of the default one during the **AUIMultiPageImageCaptureScenario** object initialization, use the [corresponding initWithEngine:](#) method signature.

This protocol and its methods are to be implemented on the client side.

Methods

Name	Description
- clearWithError	Removes all the pages from the storage.
- createWithError	Creates an empty page and adds it to the storage.
- deleteWithId:	Removes the page with specified identifier.
- loadDataForPage:key:	Returns the data, corresponding to a certain page and associated with the specified key.
- pagesWithError	Returns all the pages identifiers in the storage.
- storeData:page:key:	Adds, removes or edits data, associated with the key of the page with the specified identifier.

clearWithError: method

Removes all the pages from the storage.

```
- (BOOL)clearWithError:(NSError**)error;
```

Parameters

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns YES, if the pages were successfully deleted, and NO otherwise.

createWithError: method

Creates an empty page with a string identifier and adds it to the storage.

```
- (nullable AUIPageId)createWithError:(NSError**)error;
```

Parameters

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns an [AUIPageId](#) object, storing the identifier of the created page.

deleteWithId:error: method

Removes the page with specified identifier.

```
- (BOOL)deleteWithId:(AUIPageId)identifier error:(NSError**)error;
```

Parameters

identifier

[AUIPageId](#) object, storing the identifier of the page to be removed.

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns YES, if the page folder was successfully deleted, and NO otherwise.

loadDataForPage:key:error: method

Returns the data of the certain page, associated with the specified key.

```
- (nullable NSData*) loadDataForPage:(AUIPageId) identifier key:(NSString*)
key error:(NSError**) error;
```

Parameters

identifier

[AUIPageId](#) object, storing the identifier of the page to be removed.

key

An identifier, associated with required page data.

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns required data about the page.

pagesWithError: method

Returns all the pages identifiers in the storage.

```
- (nullable NSArray<AUIPageId>*) pagesWithError:(NSError**) error;
```

Parameters

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns an array of [AUIPageId](#) objects, storing the identifiers of all pages in the storage.

storeData:page:key:error: method

Adds, removes or edits data, associated with the key of the page with the specified identifier.

```
- (BOOL)storeData:(nullable NSData*)data page:(AUIPageId)identifier key:
(NSString*)key error:(NSError**)error;
```

Parameters

data

[NSData](#) object, storing the exact data to be added to the page by the key.

identifier

[AUIPageId](#) object, storing the identifier of the page with certain data.

key

The key, associated with the data to be edited.

error

The error that has occurred. In case no errors occurred, this parameter is **nil**.

Return values

The method returns YES, if the data of the page was successfully edited, and NO otherwise.

AUIMultiPageUISettings protocol

Provides access to extra user interface setting of current view control.

Methods

Name	Description
- captureScenario:stringForResourceType:	Provides string resources for the view control, depending on the scenario step.

captureScenario:stringForResourceType:forPageAtIndex: method

Applies the appearance settings to the specified page.

Use this method to customize string resources, that will be shown as tips for a user.

```
- (void)captureScenario:(AUIMultiPageImageCaptureScenario*) captureScenario
  stringForResourceType:(id<AUIMultiPageResourceType>) event
  forPageAtIndex:(NSUInteger) index;
```

Parameters

captureScenario

The multipage image capture scenario, represented by the [AUIMultiPageImageCaptureScenario](#) object. The page to which the appearance setting should be applied is processed during this scenario.

event

The [AUIMultiPageResourceType](#) object, defining the source string that will be shown at the current view.

index

The number of the page to which the settings should be applied.

AUIThemeButton interface

Provides settings for button with borders and blurred background appearance. The color of the borders depends on the color theme.

Properties

Name	Type	Description
selectedColor	UIColor*	The color of button borders.

AUICameraSettings protocol

Manages camera flashlight and resolution, defined for the capture scenario.

Properties

Name	Type	Description
preferredResolution	AUICameraResolution	Defines the camera resolution.
hasFlashlight	BOOL	Defines if the device has a flashlight.

Name	Type	Description
flashlightEnabled	BOOL	Defines if the flashlight is currently enabled in a torch mode.

AUIDocumentSize

The size of captured document in millimeters. You can define the size of the document to be captured so that the capturing mechanism will search the exact document on frames of the video stream. In case document size is unknown the mechanism will search for any document.

```
typedef CGSize AUIDocumentSize NS_TYPED_EXTENSIBLE_ENUM; {
    extern AUIDocumentSize const AUIDocumentSizeAny;
    extern AUIDocumentSize const AUIDocumentSizeA4;
    extern AUIDocumentSize const AUIDocumentSizeBusinessCard;
    extern AUIDocumentSize const AUIDocumentSizeLetter;
};
```

Constants

Name	Description
AUIDocumentSizeAny	The document can be of any size.
AUIDocumentSizeA4	The size of the captured document is 210 x 297 mm.
AUIDocumentSizeBusinessCard	The size of the captured document is 53.98 x 85.6 mm.  Note: It is recommended to define aspect ratio using aspectRatioMin and aspectRatioMax for business cards capture. Otherwise only business cards with 53.98x85.6 aspect ratio will be captured.
AUIDocumentSizeLetter	The size of the captured document is 215.9 x 279.4 mm.

AUIPageId

Page identifier in the images result collection, represented by string.

```
typedef NSString* AUIPageId;
```

UIView (AUIRotation)

The category AUIRotation extends the UIView class. Add the method of this category to the custom control and return YES to rotate according to device orientation on iPhone.

Methods

Name	Description
- aui_canRotate	Defines if the custom control should be rotated according to the device orientation.

aui_canRotate method

Add this method to custom control and return YES to rotate the control according to device orientation on iPhone.

```
- (BOOL) aui_canRotate;
```

Return values

The method returns YES if the control should be rotated, NO otherwise.

AUICameraResolution enumeration

The resolution of the images captured from the camera preview.

```
typedef NS_ENUM(NSUInteger, AUICameraResolution) {
    AUICameraResolutionHD,
    AUICameraResolutionFullHD,
    AUICameraResolution4K
};
```

Constants

Name	Description
AUICameraResolutionHD	Captured image will have: <ul style="list-style-type: none"> • 1280x720 px resolution on iPhone • 1024x768 px resolution on iPad
AUICameraResolutionFullHD	Captured image will have: <ul style="list-style-type: none"> • 1920x1080 px resolution on iPhone • 1920x1440 px resolution on iPad This is the default value.
AUICameraResolution4K	Captured image will have <ul style="list-style-type: none"> • 3840x2160 px resolution on iPhone • 3264x2448 px resolution on iPad

AUIMultiPageResourceType enumeration

String resources, that should be shown according to the corresponding view control.

```
typedef NS_ENUM(NSUInteger, AUIMultiPageResourceType) {
    AUIMultiPageResourceTypeLookingForPageTip,
    AUIMultiPageResourceTypePageTitle,
    AUIMultiPageResourceTypeAddPageTip,
};
```

Constants

Name	Description
AUIMultiPageResourceTypeLookingForPageTip	Screen message for automatic capture cases, shown when the camera should be brought closer to the document. I.e., "Looking for document."
	Screen message for manual capture cases, shown when the camera is turned on and ready for manual capture. I.e., "Point camera at a document and make a photo."

Name	Description
AUIMultiPageResourceTypePageTitle	Interface source string, storing the page name to display in preview navigation bar. I.e., "Passport".
AUIMultiPageResourceTypeAddPageTip	Interface source string, storing text to display on a button in case more images should be captured according to the scenario settings. I.e.: "Tap to add image of the third document page."

AUITheme enumeration

The user interface theme. Chosen theme defines the following:

- background color
- color of the text
- buttons color
- document tracking frame color
- capture area corners color

```
typedef NS_ENUM(NSUInteger, AUITheme) {
    AUIThemeLight,
    AUIThemeDark
};
```

Constants

Name	Description
<p>AUIThemeLight</p>	

Name	Description
AUIThemeDark	

Specifications

This section describes the technical requirements and capabilities of ABBYY Mobile Capture SDK.

Device Requirements

iOS version: 11.x or later

Supported devices:

- iPhone 5S or newer
- iPad Pro
- iPad Air or newer
- iPad mini 2 or newer

Memory requirements

Library operation takes up to:

- for texts in alphabetic languages — **40 MB RAM**
- for texts in Chinese, Japanese, or Korean languages — **70 MB RAM**

Library operation in the data capture scenario (for example, passport recognition) takes up to **105 MB RAM**.

Library operation in the image capture scenario takes up to **35 MB RAM**.

Please note, that your device may require more memory for certain processing scenario than specified in this section. For example, the next parameters may increase required RAM:

- recognition threads number
- device speed
- camera resolution
- recognition complexity

The higher are these indices, the more RAM is required.

Distribution Kit

ABBYY Mobile Capture SDK distribution pack includes the library, various resource files, samples and documentation. This section will help you determine which of the files to include when distributing your own application, and minimize the size of the final package.

The following folders contain files for development purposes only, not to be distributed:

Folder	File name	Description
	Readme.html	Readme file.

Folder	File name	Description
help	MobileCaptureDevelopersGuide.pdf	This Developer's Guide.
sample-ui-imagecapture-sample-ui-imagecapture-swift	All files in this folder.	This sample illustrates the steps you need to perform to create a simple mobile application for image capture.
sample-ui-imagecapture-multipage-sample-ui-imagecapture-multipage-swift	All files in this folder.	The sample code in Objective-C and Swift programming languages implementing a multipage image capture scenario with tuned user interface.
sample-datacapture-sample-datacapture-swift	All files in this folder.	The sample code in Objective-C and Swift programming languages implementing a data capture scenario where the capture rule is specified by a regular expression.
sample-textcapture-sample-textcapture-swift	All files in this folder.	The sample code in Objective-C and Swift programming languages implementing a simple text capture scenario.
sample-imagecapture-sample-imagecapture-swift	All files in this folder.	The sample code in Objective-C and Swift programming languages implementing an image capture scenario.
sample-coreapi-sample-coreapi-swift	All files in this folder.	The sample code in Objective-C and Swift programming languages demonstrating the core API usage in a simple scenario of capturing data from an image.

The files in the **libs**, **assets**, and **notice** folders are intended for the final distribution of your application. The table below shows what files you should distribute depending on your needs.

Folder	File name	Description	Distribution
libs	MobileOCR.framework	The ABBYY Mobile Capture SDK framework.	Required for the main capture scenario: text capture, data capture, image capture and core API.
	MobileImaging.framework	The ABBYY Mobile Capture SDK framework for image capture.	Required only for the image capture scenario.
	AbbyUI.framework	The ABBYY Mobile Capture SDK framework for developing mobile application with user interface.	Required for creating mobile application with native interface for image capture scenario.
	AbbyRtrSDK.framework AbbyZlib.framework CustomAllocator.framework FineMachineLearning.framework FineMachineLearningExt.framework FineObj.framework Image.Mobile.framework copy_frameworks.sh	The ABBYY Mobile Capture SDK frameworks.	Always required.
assets/dictionaries	Brazil.edc	Portuguese (Brazil) language recognition dictionary.	Only those dictionaries that correspond to the languages you will work with.
	Bulgar.edc	Bulgarian language recognition dictionary.	
	Czech.edc	Czech language recognition dictionary.	

Folder	File name	Description	Distribution
	Danish.edc	Danish language recognition dictionary.	
	Dutch.edc	Dutch (Netherlands) language recognition dictionary.	
	English.edc	English language recognition dictionary.	
	Eston.edc	Estonian language recognition dictionary.	
	Finnish.edc	Finnish language recognition dictionary.	
	Flemmish.edc	Dutch (Belgium) language recognition dictionary.	
	French.edc	French language recognition dictionary.	
	German.edc	German (old spelling) language recognition dictionary.	
	GermanNS.edc	German (new spelling) language recognition dictionary.	
	Greek.edc	Greek language recognition dictionary.	
	Indones.edc	Indonesian language recognition dictionary.	
	Italian.edc	Italian language recognition dictionary.	

Folder	File name	Description	Distribution
	NorwBok.edc	Norwegian (Bokmal) language recognition dictionary.	
	NorwNyn.edc	Norwegian (Nynorsk) language recognition dictionary.	
	Polish.edc	Polish language recognition dictionary.	
	Portug.edc	Portuguese (Portugal) language recognition dictionary.	
	Russian.edc	Russian language recognition dictionary.	
	Spanish.edc	Spanish language recognition dictionary.	
	Swedish.edc	Swedish language recognition dictionary.	
	Turkish.edc	Turkish language recognition dictionary.	
	Ukrain.edc	Ukrainian language recognition dictionary.	
assets/patterns	DIQBlockClassifier.imo del CropClassifierPhoto.im odel DIQClassifier.imodel	The ABBYY Mobile Imaging SDK II resource files	Required for image capture scenario.
	ChineseJapanese.rom	Recognition database for Chinese, Japanese, and Korean languages.	Required for recognition of texts in Chinese, Japanese and Korean languages.

Folder	File name	Description	Distribution
	European.rom	Recognition database for all supported recognition languages.	Required for all recognition languages.
	FindText.rom	Recognition database for all languages.	Always required.
	KoreanSpecific.rom	Recognition database for Korean language.	Required for recognition of texts in Korean language.
assets/bcr	Brazil.akw	Source file for Brazilian business cards recognition.	Required for business cards recognition scenario.
	ChineseSimplified.akw	Source file for Chinese Simplified business cards recognition.	
	ChineseTraditional.akw	Source file for Chinese Traditional business cards recognition.	
	Czech.akw	Source file for Czech business cards recognition.	
	Danish.akw	Source file for Danish business cards recognition.	
	Dutch.akw	Source file for Dutch business cards recognition.	
	English.akw	Source file for English business cards recognition.	

Folder	File name	Description	Distribution
	Eston.akw	Source file for Estonian business cards recognition.	
	Finnish.akw	Source file for Finnish business cards recognition.	
	French.akw	Source file for French business cards recognition.	
	German.akw	Source file for German business cards recognition.	
	Greek.akw	Source file for Greek business cards recognition.	
	Indones.akw	Source file for Indonesian business cards recognition.	
	Italian.akw	Source file for Italian business cards recognition.	
	Japanese.akw	Source file for Japanese business cards recognition.	
	Korean.akw	Source file for Korean business cards recognition.	
	NorwBok.akw	Source file for Norwegian (Bokmal) business cards recognition.	

Folder	File name	Description	Distribution
	NorwNyn.akw	Source file for Norwegian (Nynorsk) business cards recognition.	
	Polish.akw	Source file for Polish business cards recognition.	
	Portug.akw	Source file for Portuguese business cards recognition.	
	Russian.akw	Source file for Russian business cards recognition.	
	Spanish.akw	Source file for Spanish business cards recognition.	
	Swedish.akw	Source file for Swedish business cards recognition.	
	Turkish.akw	Source file for Turkish business cards recognition.	
	Ukrain.akw	Source file for Ukrainian business cards recognition.	
	WestEuropean.akw	Source file for recognition of English, French, German, Portuguese, Spanish and Italian business cards.	

Folder	File name	Description	Distribution
assets/	copy_assets.py	Script for automatic copying resource files to corresponding destinations and adding necessary dictionaries to the Xcode project.	
scenarios-datacapture/assets/patterns	All_EDC.rom	All recognition databases from this directory.	Required if all *.rom files from this directory will be used.
	MRZ.rom	Recognition database for MRZ of the passport.	Required for MRZ data recognition.
	MRZ_EDC.rom	Extended MRZ recognition database for various document types.	Required for recognizing MRZ and MRZ-like zone data on supported documents (see Data Capture Profiles for details).
	BankCards_EDC.rom	Bank card recognition database.	Required for bank card recognition.
	ID_AE_EDC.rom	Recognition database for UAE documents.	Only the databases for the countries you are going to support are required.
	ID_AL_EDC.rom	Recognition database for Albanian documents.	
	ID_AM_EDC.rom	Recognition database for Armenian documents.	

Folder	File name	Description	Distribution
	ID_AT_EDC.rom	Recognition database for Austrian documents.	
	ID_AZ_EDC.rom	Recognition database for Azerbaijani documents.	
	ID_BE_EDC.rom	Recognition database for Belgium documents.	
	ID_BG_EDC.rom	Recognition database for Bulgarian documents.	
	ID_BH_EDC.rom	Recognition database for Bahrain documents.	
	ID_BR_EDC.rom	Recognition database for Brazilian documents.	
	ID_BY_EDC.rom	Recognition database for Belarusian documents.	
	ID_CA_EDC.rom	Recognition database for Canadian documents.	
	ID_CH_EDC.rom	Recognition database for Swiss documents.	
	ID_CL_EDC.rom	Recognition database for Chile documents.	
	ID_CN_EDC.rom	Recognition database for Chinese	

Folder	File name	Description	Distribution
		documents.	
	ID_CY_EDC.rom	Recognition database for Cyprus documents.	
	ID_CZ_EDC.rom	Recognition database for Czech documents.	
	ID_DE_EDC.rom	Recognition database for German documents.	
	ID_DZ_EDC.rom	Recognition database for Algerian documents.	
	ID_EE_EDC.rom	Recognition database for Estonian documents.	
	ID_EG_EDC.rom	Recognition database for Egyptian documents.	
	ID_ES_EDC.rom	Recognition database for Spanish documents.	
	ID_FI_EDC.rom	Recognition database for Finnish documents.	
	ID_FR_EDC.rom	Recognition database for French documents.	
	ID_GE_EDC.rom	Recognition database for Georgian documents.	

Folder	File name	Description	Distribution
	ID_GR_EDC.rom	Recognition database for Greek documents.	
	ID_HK_EDC.rom	Recognition database for Hong Kong documents.	
	ID_HR_EDC.rom	Recognition database for Croatian documents.	
	ID_HU_EDC.rom	Recognition database for Hungarian documents.	
	ID_IL_EDC.rom	Recognition database for Israeli documents.	
	ID_IN_EDC.rom	Recognition database for Indian documents.	
	ID_IT_EDC.rom	Recognition database for Italian documents.	
	ID_JP_EDC.rom	Recognition database for Japanese documents.	
	ID_KG_EDC.rom	Recognition database for Kyrgyzstani documents.	
	ID_KW_EDC.rom	Recognition database for Kuwait documents.	
	ID_KZ_EDC.rom	Recognition database for Kazakhstan documents.	

Folder	File name	Description	Distribution
	ID_LT_EDC.rom	Recognition database for Lithuanian documents.	
	ID_LV_EDC.rom	Recognition database for Latvian documents.	
	ID_MD_EDC.rom	Recognition database for documents of Republic of Moldova.	
	ID_MK_EDC.rom	Recognition database for Macedonian documents.	
	ID_MX_EDC.rom	Recognition database for Mexican documents.	
	ID_MY_EDC.rom	Recognition database for Malaysian documents.	
	ID_NG_EDC.rom	Recognition database for Nigerian documents.	
	ID_NO_EDC.rom	Recognition database for Norwegian documents.	
	ID_NZ_EDC.rom	Recognition database for New Zealand documents.	
	ID_PH_EDC.rom	Recognition database for Philippine documents.	

Folder	File name	Description	Distribution
	ID_PL_EDC.rom	Recognition database for Polish documents.	
	ID_PT_EDC.rom	Recognition database for Portuguese documents.	
	ID_RO_EDC.rom	Recognition database for Romanian documents.	
	ID_RS_EDC.rom	Recognition database for Serbian documents.	
	ID_RU_EDC.rom	Extended recognition database for Russian documents.	
	ID_SE_EDC.rom	Recognition database for Swedish documents.	
	ID_SG_EDC.rom	Recognition database for Singapore documents.	
	ID_SI_EDC.rom	Recognition database for Slovenian documents.	
	ID_SK_EDC.rom	Recognition database for Slovak documents.	
	ID_SV_EDC.rom	Recognition database for Salvadorean documents.	
	ID_SY_EDC.rom	Recognition database for Syrian documents.	

Folder	File name	Description	Distribution
	ID_TJ_EDC.rom	Recognition database for Tajikistan documents.	
	ID_TR_EDC.rom	Recognition database for Turkish documents.	
	ID_UA_EDC.rom	Recognition database for Ukrainian documents.	
	ID_UK_EDC.rom	Recognition database for British documents.	
	ID_US_EDC.rom	Recognition database for USA documents.	
	ID_UY_EDC.rom	Recognition database for Uruguayn documents.	
	ID_UZ_EDC.rom	Recognition database for Uzbekistan documents.	
	ID_VN_EDC.rom	Recognition database for Vietnamese documents.	
	ID_ZA_EDC.rom	Recognition database for South African Republic documents.	
assets/translation	Menu_CH-EN.trdic	Dictionary for translating menus from Chinese to English.	The files contain translation dictionaries. You need only the files for the language pairs you use.

Folder	File name	Description	Distribution
	Menu_DE-EN.trdic	Dictionary for translating menus from German to English.	
	Menu_EN-CH.trdic	Dictionary for translating menus from Chinese to English.	
	Menu_EN-DE.trdic	Dictionary for translating menus from English to German.	
	Menu_EN-ES.trdic	Dictionary for translating menus from English to Spanish.	
	Menu_EN-FR.trdic	Dictionary for translating menus from English to French.	
	Menu_EN-ID.trdic	Dictionary for translating menus from English to Indonesian.	
	Menu_EN-JP.trdic	Dictionary for translating menus from English to Japanese.	
	Menu_EN-PL.trdic	Dictionary for translating menus from English to Polish.	
	Menu_EN-PTBR.trdic	Dictionary for translating menus from English to Portuguese (Brazil).	

Folder	File name	Description	Distribution
	Menu_EN-RU.trdic	Dictionary for translating menus from English to Russian.	
	Menu_ES-EN.trdic	Dictionary for translating menus from Spanish to English.	
	Menu_FR-EN.trdic	Dictionary for translating menus from French to English.	
	Menu_ID-EN.trdic	Dictionary for translating menus from Indonesian to English.	
	Menu_JP-EN.trdic	Dictionary for translating menus from Japanese to English.	
	Menu_PL-EN.trdic	Dictionary for translating menus from Polish to English.	
	Menu_PTBR-EN.trdic	Dictionary for translating menus from Portuguese (Brazil) to English.	
	Menu_RU-EN.trdic	Dictionary for translating menus from Russian to English.	
notice	All files in this folder.	Third party software components information and licenses.	These files have to be redistributed.

Available Recognition Languages

This section lists the languages available for text processing with ABBYY Mobile Capture SDK. Some of the languages have built-in dictionary support, which improves recognition quality but takes up additional memory.

See also [Available Translation Dictionaries](#).

Internal name	Recognition language	Can be used for OCR	Can be used for BCR	Full dictionary support
Afrikaans	Afrikaans	+		
Albanian	Albanian	+		
Basque	Basque	+		
Belarusian	Belarusian	+		
Breton	Breton	+		
Bulgarian	Bulgarian	+		+
Catalan	Catalan	+		
Chechen	Chechen	+		
ChineseSimplified	Chinese Simplified	+	+	
ChineseTraditional	Chinese Traditional	+	+	
CrimeanTatar	Crimean Tatar	+		
Croatian	Croatian	+		
Czech	Czech	+	+	+

Internal name	Recognition language	Can be used for OCR	Can be used for BCR	Full dictionary support
Danish	Danish	+	+	+
DutchBelgian	Dutch (Belgium)	+	+	+
Dutch	Dutch (Netherlands)	+	+	+
English	English	+	+	+
Estonian	Estonian	+	+	+
Fijian	Fijian	+		
Finnish	Finnish	+	+	+
French	French	+	+	+
German	German (old spelling)	+	+	+
GermanNewSpelling	German (new spelling)	+	+	+
Greek	Greek	+	+	+
Hawaiian	Hawaiian	+		
Hungarian	Hungarian	+		
Icelandic	Icelandic	+		
Indonesian	Indonesian	+	+	+
Irish	Irish	+		

Internal name	Recognition language	Can be used for OCR	Can be used for BCR	Full dictionary support
Italian	Italian	+	+	+
Japanese	Japanese	+	+	
Kabardian	Kabardian	+		
Korean	Korean	+	+	
KoreanHangul	Korean (Hangul)	+	+	
Latin	Latin	+		
Latvian	Latvian	+		
Lithuanian	Lithuanian	+		
Macedonian	Macedonian	+		
Malay	Malay	+		
Maori	Maori	+		
Moldavian	Moldavian	+		
Mongol	Mongol	+		
NorwegianBokmal	Norwegian (Bokmal)	+	+	+
NorwegianNynorsk	Norwegian (Nynorsk)	+	+	+
Ossetic	Ossetic	+		

Internal name	Recognition language	Can be used for OCR	Can be used for BCR	Full dictionary support
Polish	Polish	+	+	+
PortugueseBrazilian	Portuguese (Brazil)	+	+	+
Portuguese	Portuguese (Portugal)	+	+	+
Provençal	Provençal	+		
RhaetoRomanic	Rhaeto-Romanic	+		
Romanian	Romanian	+		
Russian	Russian	+	+	+
Samoan	Samoan	+		
Serbian	Serbian	+		
Slovak	Slovak	+		
Slovenian	Slovenian	+		
Spanish	Spanish	+	+	+
Swahili	Swahili	+		
Swedish	Swedish	+	+	+
Tagalog	Tagalog	+		
Tatar	Tatar	+		

Internal name	Recognition language	Can be used for OCR	Can be used for BCR	Full dictionary support
Turkish	Turkish	+	+	+
Ukrainian	Ukrainian	+	+	+
Welsh	Welsh	+		

Translation Dictionaries

In the distribution pack you can find several translation dictionaries. Currently all the dictionaries are intended for translating restaurant menus and may not work in other contexts. The following language pairs are available:

English to Chinese	Chinese to English
English to French	French to English
English to German	German to English
English to Indonesian	Indonesian to English
English to Japanese	Japanese to English
English to Polish	Polish to English
English to Portuguese (Brazil)	Portuguese (Brazil) to English
English to Russian	Russian to English
English to Spanish	Spanish to English

You can also create your own dictionary and use it for translation. Contact our [technical support](#) for advice on the required format.

Supported ID Documents

ABBYY Mobile Capture SDK supports a whole range of identity documents out of the box. Consult the table below for a full list. For the detailed profile specifications, see [Data Capture Profiles](#).

Document	Supported in
All documents with Machine Readable Zone (MRZ)	All Countries

Document	Supported in
Bank cards: embossed and indent	All Countries
Driver's license	Albania, Armenia, Austria, Belarus, Belgium, Brazil, Bulgaria, Canada, Croatia, Czech Republic, Finland, Germany, Greece, Hungary, Israel, Italy, Japan, Kazakhstan, Kyrgyzstan, Luxembourg, Moldova, New Zealand, Norway, Poland, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, UK, Ukraine, USA, Uzbekistan, Vietnam
International Passport	Albania, Algeria, Armenia, Austria, Brazil, Canada, China, Croatia, Czech Republic, Georgia, Germany, Greece, Hungary, India, Israel, Italy, Japan, Kazakhstan, Kyrgyzstan, Luxembourg, Moldova, Philippines, Poland, Russian Federation, Slovakia, Slovenia, Spain, Sweden, Syria, Tajikistan, Turkey, UK, Ukraine, Uruguay, USA, Uzbekistan
National ID card	Albania, Armenia, Austria, Bahrain, Belgium, Brazil, Bulgaria, Chile, China, Croatia, Cyprus, Czech Republic, Egypt, Estonia, Finland, France, Georgia, Germany, Hong Kong, Hungary, Israel, Italy, Kazakhstan, Kuwait, Kyrgyzstan, Latvia, Lithuania, Luxembourg, Macedonia, Malaysia, Mexico, Moldova, Nigeria, Norway, Poland, Portugal, Romania, El Salvador, Serbia, Slovakia, Slovenia, Singapore, South Africa, Spain, Switzerland, Turkey, UAE, Ukraine
National passport	Belarus, Russian Federation
INN	Russian Federation
Aadhaar card	India
Birth certificate	Russian Federation
Death Certificate	Russian Federation

Document	Supported in
Marriage Certificate	Russian Federation
Divorce Certificate	Russian Federation
Compulsory Health Insurance Certificate – OMS	Russian Federation
Personal insurance policy number	Russian Federation
Vehicle Registration Certificate (STS)	Azerbaijan, Belarus, Czech Republic, El Salvador, Kazakhstan, Russian Federation, Slovakia, Ukraine
Vehicle Passport - PTS	Russian Federation
VISA	Russian Federation, USA, Czech Republic, Slovakia
Border Crossing Card	USA
Passport Card	USA
Health insurance card	Japan
Work permit	Russian Federation, Singapore
Residence permit	Austria, Czech Republic, Germany, Luxembourg, Russian Federation, Slovakia, Slovenia, Spain
Asylum Residence Permit	Austria
Migration Card	Russian Federation
Permanent residency card (Green card)	USA
Residence License	Brazil

Document	Supported in
Crew Member Certificate	South Africa
Military, Police and Soldier ID	Russian Federation

The list of supported documents and captured fields for each document differ depending on the country. You can find the detailed information in the [Data Capture Profiles](#) table.

Data Capture Profiles

The following table lists predefined capture profiles and corresponding result data schemes. Profile name is specified when creating a Data Capture service, and result scheme identifiers are returned by the service. Note that in some cases the result scheme depends on the type of your license. If you are not sure which profiles are enabled by your license, please [contact support](#).

Document type	Profile name	Result scheme	Result description
Bank card	BankCards	BankCardEmbossed	Bank cards with embossed fields (front side)
		BankCardUnembossed	Bank cards with indent-printed fields (front side)
Business card	BusinessCards	BusinessCards	Business card of a person or a company
International bank account number	IBAN	IBAN	International bank account number
Machine-readable document zone	MRZ	MRZ_BG_VEHICLEREGISTRATION	MRZ-like zone of the Bulgarian vehicle registration document (3 lines, 30 characters each)
		MRZ_CH_DRIVERLICEN SE	MRZ-like zone of the Swiss driver's license

Document type	Profile name	Result scheme	Result description
			(3 lines, 9, 30 and 30 characters)
		MRZ_FR_ID	MRZ-like zone of the French national ID card (2 lines, 36 characters each)
		MRZ_MRP	ICAO Doc 9303 machine-readable passports (2 lines, 44 characters each)
		MRZ_MRV_A	ICAO Doc 9303 machine-readable visa MRV-A (2 lines, 44 characters each)
		MRZ_MRV_B	ICAO Doc 9303 machine-readable visa MRV-B (2 lines, 36 characters each)
		MRZ_RU_PASSPORT	Russian passport (page 2, with signatures)
		MRZ_RU_VISA	MRZ-like zone of the Russian visa (2 lines, 44 characters each)
		MRZ_TD1	ICAO Doc 9303 machine-readable travel document TD-1 (3 lines, 30 characters each)
		MRZ_TD2	ICAO Doc 9303 machine-readable travel document TD-2 (2 lines, 36 characters each)

Document type	Profile name	Result scheme	Result description
Albanian driver's license	DriverLicense_AL	DriverLicense_AL_TYPE1	Albanian driver's license (Albanian emblem in the background)
Albanian ID card	ID_AL	ID_AL_TYPE1	Albanian ID Card (Albanian emblem in the background, front side; Albanian emblem in the background and top-left corner, back side)
Albanian passport	InternationalPassport_AL	InternationalPassport_AL_TYPE1	Albanian passport (Albanian emblem in the background)
		InternationalPassport_AL_TYPE2	Albanian passport (Albanian emblem in the background and top-left corner, red horizontal line along the entire document)
Algerian passport	InternationalPassport_DZ	InternationalPassport_DZ_TYPE1	Algerian passport (the contour of the country on the right and sun in the bottom-right of the photo, main page)
Armenian driver's license	DriverLicense_AM	DriverLicense_AM_TYPE1	Armenian driver's license (stamp with Armenian emblem on the right, front)
		DriverLicense_AM_TYPE2	Armenian driver's license (with authority name, place of birth and residence fields in English)
Armenian ID card	ID_AM	ID_AM_TYPE1	Armenian ID card (Armenian emblem on

Document type	Profile name	Result scheme	Result description
			the background, front)
Armenian passport	InternationalPassport_A M	InternationalPassport_AM_TYPE2	Armenian passport (line of patterns on the top, main page)
		InternationalPassport_AM_TYPE3	Armenian passport (new type, main page)
Austrian asylum residence permit	AsylumResidencePermit_AT	AsylumResidencePermit_AT_RP_TYPE1	Austrian asylum residence permit (white background, front)
Austrian driver's license	DriverLicense_AT	DriverLicense_AT_TYPE1	Austrian driver's license with the title at the top (front side)
		DriverLicense_AT_TYPE2	Austrian driver's license with the title in the top-right corner (front side)
Austrian ID card	ID_AT	ID_AT_TYPE1	Austrian ID card (red stripes on the left, back; Austrian emblem on the left)
Austrian passport	InternationalPassport_A T	InternationalPassport_AT_TYPE1	Austrian passport (eagle in the top-left corner, main page)
		InternationalPassport_AT_TYPE2	Austrian passport (eagle in the top-left corner, main page, with residence field)
Austrian residence permit	ResidencePermit_AT	ResidencePermit_AT_TYPE1	Austrian residence permit (Austrian emblem on the left,

Document type	Profile name	Result scheme	Result description
			front; vertical red inscription on the left, back)
		ResidencePermit_AT_TY PE2	Austrian residence permit (Austrian emblem on the left and biometric symbol on the top, front)
		ResidencePermit_AT_TY PE3	Austrian residence permit (Austrian emblem left top, front)
		ResidencePermit_AT_TY PE4	Austrian residence permit (Austrian emblem left top and bottom, front)
Azerbaijan vehicle registration certificate	VehicleRegistration_AZ	VehicleRegistration_AZ_TYPE1	Azerbaijan vehicle registration certificate (document without a personal photo, AZ sign in the top-left corner and the flag of Azerbaijan near it, main page)
Bahrain ID card	ID_BH	ID_BH_TYPE1	Bahrain ID card (front)
Belorussian driver's license	DriverLicense_BY	DriverLicense_BY_TYPE 1	Belorussian driver's license (card-size, front side, horizontal)
		DriverLicense_BY_TYPE 2	Belorussian driver's license (front side, vertical)
Belorussian passport	Passport_BY	Passport_BY_PAGE31_T YPE1	Belorussian passport (internal page)

Document type	Profile name	Result scheme	Result description
		Passport_BY_TYPE1	Belorussian passport (biodata page)
Belorussian vehicle registration certificate	VehicleRegistration_BY	VehicleRegistration_BY_TYPE1	Belorussian vehicle registration certificate
Belgian driver's license	DriverLicense_BE	DriverLicense_BE_TYPE1	Belgian driver's license (the sign of the European Union with letter B in the top-left corner and the contour of country on the bottom-right corner, front side)
		DriverLicense_BE_TYPE2	Belgian driver's license (the sign of the European Union with letter B in the top-left corner and the contour of country on the bottom-right corner, front side)
		DriverLicense_BE_TYPE3	Belgian driver's license (the sign of the European Union with letter B in the top-left corner and the contour of country on the bottom-right corner, front side)
Belgian ID card	ID_BE	ID_BE_TYPE1	Belgian ID card (front side)
		ID_BE_TYPE2	
		ID_BE_TYPE3	
Brazilian driver's license	DriverLicense_BR	DriverLicense_BR_TYPE1	Brazilian driver's license (Brazilian

Document type	Profile name	Result scheme	Result description
			emblem in the top-left corner, front; green background, back)
Brazilian ID card	ID_BR	ID_BR_TYPE1	Brazilian ID card (Brazilian emblem on the background, new type)
		ID_BR_TYPE2	Brazilian ID card (Brazilian emblem on the background, old type, front)
Brazilian passport	InternationalPassport_BR	InternationalPassport_BR_TYPE1	Brazilian passport (Brazil on the background, main page)
		InternationalPassport_BR_TYPE2	Brazilian passport (barcode on the bottom, main page)
Brazilian residence license	ResidenceLicense_BR	ResidenceLicense_BR_TYPE1	Brazilian real estate license (Brazilian emblem on the top-left corner, back; hummingbird in the middle, front)
Bulgarian driver's license	DriverLicense_BG	DriverLicense_BG_TYPE1	Bulgarian driver's license (sign of the European Union with letters BG in the top-left corner and the countour of country on the top in the middle, front side)
		DriverLicense_BG_TYPE2	Bulgarian driver's license (a round stamp with letters BG on the right side,

Document type	Profile name	Result scheme	Result description
			front side)
Bulgarian ID card	ID_BG	ID_BG_TYPE1	Bulgarian ID card (Bulgarian coat of arms on the right side, front side)
		ID_BG_TYPE2	Bulgarian ID card (Bulgarian flag in the left-top corner, front side)
		ID_BG_TYPE3	Bulgarian ID card (biometric symbol in the top-left corner, front side)
Canadian driver's license	DriverLicense_CA	DriverLicense_CA_AB_TYPE1	Canadian driver's license -Alberta (a barcode in the bottom-right corner, front side)
		DriverLicense_CA_AB_TYPE2	Canadian driver's license - Alberta (a round stamp on the right, front side)
		DriverLicense_CA_BC_TYPE1	Canadian driver's license - British Columbia (flag of British Columbia on the background and the coat of arms of British Columbia on the right, front side)
		DriverLicense_CA_BC_TYPE3	Canadian driver's license
		DriverLicense_CA_MB_TYPE1	Canadian driver's license - Manitoba (a

Document type	Profile name	Result scheme	Result description
			bull above the personal photo, front side)
		DriverLicense_CA_NB_TYPE1	Canadian driver's license - New Brunswick (flower on the background, front)
		DriverLicense_CA_NB_TYPE2	Canadian driver's license - New Brunswick (watermark in the form of a leaf, front)
		DriverLicense_CA_NL_TYPE1	Canadian driver's license - Newfoundland and Labrador (a flower on the background on the right, front side)
		DriverLicense_CA_NL_TYPE2	
		DriverLicense_CA_NS_TYPE1	Canadian driver's license - Nova Scotia (the escutcheon of Nova Scotia in the top-right corner, front side)
		DriverLicense_CA_NS_TYPE2	Canadian driver's license - Nova Scotia (national flag of Canada in the bottom-right corner and a road on the background, front side)
		DriverLicense_CA_NS_TYPE3	Canadian driver's license - Nova Scotia
		DriverLicense_CA_NT_T	Canadian driver's

Document type	Profile name	Result scheme	Result description
		YPE1	license - Northwest Territories (a bear on the top-left and top-right corner, front side)
		DriverLicense_CA_NU_TYPE1	Canadian driver's license - Nunavut (flag of Nunavut on the top near the name of document, front side)
		DriverLicense_CA_ON_TYPE1	Canadian driver's license (the flower on the background and sign of ON in the top-right corner, front side)
		DriverLicense_CA_ON_TYPE2	Canadian driver's license (inscription Canada in the down-right corner, front side)
		DriverLicense_CA_PE_TYPE1	Canadian driver's license - Prince Edward Island (the escutcheon of Prince Edward Island in the top-right corner, front side)
		DriverLicense_CA_QC_TYPE1	Canadian driver's license - Quebec (the flag of Quebec above the personal photo on the left, front side)
		DriverLicense_CA_SK_TYPE1	Canadian driver's license - Saskatchewan (flower in the top-right corner, front)

Document type	Profile name	Result scheme	Result description
		DriverLicense_CA_TYPE1	Canadian driver's license (globe on the background, front)
		DriverLicense_CA_YT_TYPE1	Canadian driver's license - Youkon (the coat of arms of Youkon and a small personal photo on the right, front side)
Canadian passport	InternationalPassport_CA	InternationalPassport_CA_TYPE1	Canadian passport (Canadian national symbols in the top-right corner, main page)
		InternationalPassport_CA_TYPE2	Canadian passport (biometric symbol in the top-right corner and Canadian coat of arms on the background, main page)
Chilean ID card	ID_CL	ID_CL_TYPE1	Chile ID card (front side)
Chinese ID card	ID_CN	ID_CN_TYPE1	Chinese ID card
Chinese passport	InternationalPassport_CN	InternationalPassport_CN_TYPE1	Chinese passport (China from the bottom in the background and barcode on the left, main page)
		InternationalPassport_CN_TYPE3	Chinese passport (biometric symbol in the top-right corner and a flower on the background, main page)

Document type	Profile name	Result scheme	Result description
		InternationalPassport_CN_TYPE4	Chinese passport and CHN sign on the right, main page)
		InternationalPassport_CN_TYPE5	Chinese passport (biometric symbol in the top-left corner, main page)
		InternationalPassport_CN_TYPE6	Chinese passport (green lotus on the left, main page)
Croatian driver's license	DriverLicense_HR	DriverLicense_HR_TYPE1	Croatian driver's license (sign of the European Union with letters HR in the top-left corner, front side)
Croatian ID card	ID_HR	ID_HR_TYPE1	Croatian ID card (older type, front side)
		ID_HR_TYPE2	Croatian ID card (newer type, front side)
Croatian passport	InternationalPassport_HR	InternationalPassport_HR_TYPE1	Croatian passport (RH sign on the left, main page)
Cyprus ID card	ID_CY	ID_CY_TYPE1	ID card of Cyprus (Cyprus coat of arms on the background, front side)
		ID_CY_TYPE2	ID card of Cyprus (Cyprus coat of arms on the top-left corner and biometric symbol, front side)

Document type	Profile name	Result scheme	Result description
Czech driver's license	DriverLicense_CZ	DriverLicense_CZ_TYPE1	Czech driver's license card (front side)
Czech ID card	ID_CZ	ID_CZ_TYPE1	Czech ID card (CZ sign on the right and rings on the background, front)
		ID_CZ_TYPE2	Czech ID card (old type, Czech emblem in the down-left corner, back; stamp in the form of a tree, front)
		ID_CZ_TYPE3	Czech ID card (Czech emblem in the down-left corner, back; stamp in the form of a tree, front)
Czech passport	InternationalPassport_CZ	InternationalPassport_CZ_TYPE1	Czech passport (stamp on the top, main page)
Czech vehicle registration certificate	VehicleRegistration_CZ	VehicleRegistration_CZ_TYPE1	Czech vehicle registration certificate (the sign of the European Union with letters CZ in the top-left corner and leaves in the bottom-left corner, front side)
Egyptian ID card	ID_EG	ID_EG_TYPE1	Egyptian ID card (Egyptian pyramids on the background, front side)
Estonian ID card	ID_EE	ID_EE_TYPE1	Estonian ID card (a horizontal card; Estonian flag in the upper left corner; lion

Document type	Profile name	Result scheme	Result description
			in the upper right, front)
		ID_EE_TYPE2	Estonian ID card (a horizontal card; Estonian emblem in the upper left corner; flag on the background, front)
Finnish driver's license	DriverLicense_FI	DriverLicense_FI_TYPE1	Finnish driver's license (number-field under the personal photo, front side)
		DriverLicense_FI_TYPE2	Finnish driver's license (number-field in the right side of the photo, front side)
Finnish ID card	ID_FI	ID_FI_TYPE1	Finnish ID card (chip on the left side and a personal photo in the bottom-right corner, front side)
		ID_FI_TYPE2	Finnish ID card (a personal photo on the left side and stamp with photo in the middle, front side)
French ID card	ID_FR	ID_FR_TYPE1	French ID card (front side)
Georgian ID card	ID_GE	ID_GE_TYPE1	Georgian ID card (a horizontal card; country outline in the upper right; dotted lines on the background, front)

Document type	Profile name	Result scheme	Result description
Georgian passport	InternationalPassport_GE	InternationalPassport_GE_TYPE1	Georgian passport (country emblem in the upper left; has owner's signature, main page)
		InternationalPassport_GE_TYPE2	Georgian passport (country emblem in the upper left; has patterns on the corners of the photo, main page)
		InternationalPassport_GE_TYPE3	Georgian passport (circle with patterns in the center, main page)
German driver's license	DriverLicense_DE	DriverLicense_DE_TYPE1	German driver's license (sign of the European Union with letter D in the top-left corner and three road signs in the bottom-right corner, front side)
		DriverLicense_DE_TYPE2	German driver's license (sign of the European Union with letter D in the top-left corner and stamp with the silhouette of the letter D in the bottom-right corner, front side)
German ID card	ID_DE	ID_DE_TYPE1	German ID card (the coat of arms of Germany on the background, front side; three-line MRZ on the bottom, back side)

Document type	Profile name	Result scheme	Result description
		ID_DE_TYPE2	German ID card (the coat of arms of Germany on the background and two-line MRZ on the bottom, front side)
German passport	InternationalPassport_DE	InternationalPassport_DE_TYPE1	German passport (the coat of arms of Germany on the right side, main page)
		InternationalPassport_DE_TYPE2	German passport (the coat of arms of Germany in the top-left corner and in the middle on the background, main page)
		InternationalPassport_DE_TYPE3	German passport (stamp with the coat of arms of Germany under the photo, main page)
German residence permit	ResidencePermit_DE	ResidencePermit_DE_TYPE1	German residence permit (biometric symbol in the top-left corner and a bull above the photo, front side)
Greek driver's license	DriverLicense_GR	DriverLicense_GR_TYPE1	Greek driver's license (the sign of the European Union with letter in the top-left corner, front)
Greek passport	InternationalPassport_GR	InternationalPassport_GR_TYPE1	Greek passport (Greek emblem on the background, main page)

Document type	Profile name	Result scheme	Result description
Hong Kong ID card	ID_HK	ID_HK_TYPE1	Hong Kong ID card (stamp with a photo under the chip, front side)
Hungarian driver's license	DriverLicense_HU	DriverLicense_HU_TYPE1	Hungarian driver's license (the sign of the European Union with letter in the top-left corner, front)
Hungarian ID card	ID_HU	ID_HU_TYPE1	Hungarian ID card (Hungarian emblem in the top-left corner, front)
		ID_HU_TYPE2	Hungarian ID card (Hungarian emblem in the top-right corner and biometric symbol in the top, front)
Hungarian passport	InternationalPassport_HU	InternationalPassport_HU_TYPE1	Hungarian passport (stamp in the top-right corner, main page)
Indian Aadhaar card	Aadhaar_IN	Aadhaar_IN_TYPE1	Indian Aadhaar card (square card; flag on the top center; emblem on the top left, front)
Indian passport	InternationalPassport_IN	InternationalPassport_IN_TYPE1	Indian passport (lines on the background, main page)
Israel driver's license	DriverLicense_IL	DriverLicense_IL_TYPE1	Israel driver's license (the coat of arms of Israel in the top-right corner, front side)

Document type	Profile name	Result scheme	Result description
		DriverLicense_IL_TYPE2	Israel driver's license (the coat of arms of Israel in the top-right corner, blue sign in the top-left corner, front side)
Israel ID card	ID_IL	ID_IL_TYPE1	ID card of Israel (chip on the left and a personal photo on the right, front side)
		ID_IL_TYPE2	ID card of Israel (a personal photo in the top-left corner and the coat of arms of Israel on the background, front side)
Israel passport	InternationalPassport_IL	InternationalPassport_IL_TYPE1	Passport of Israel (the coats of arms of Israel all over the background, main page)
		InternationalPassport_IL_TYPE2	Passport of Israel (the coat of arms of Israel in the middle of the background, main page)
Italian driver's license	DriverLicense_IT	DriverLicense_IT_TYPE1	Italian driver's license (new type, front side)
		DriverLicense_IT_TYPE2	Italian driver's license (issued 2007-2013, front side)
Italian ID card	ID_IT	ID_IT_TYPE1	Italian ID card (Italian emblem on the top, page 1)

Document type	Profile name	Result scheme	Result description
		ID_IT_TYPE2	Italian ID card (Italian emblem in the top-left corner, front)
		ID_IT_TYPE3	Italian ID card (biometric symbol the top-left corner, page 1)
Italian passport	InternationalPassport_IT	InternationalPassport_IT_TYPE1	Italian passport (Italian emblem on the background, main page)
Japanese driver's license	DriverLicense_JP	DriverLicense_JP_TYPE1	Japanese driver's license (a personal photo in the bottom-right corner, front side)
Japanese health insurance card	HealthInsuranceCard_JP	HealthInsurance_JP_TYPE1	Japanese health insurance card ((a square in the bottom-right
Japanese passport	InternationalPassport_JP	InternationalPassport_JP_TYPE1	Japanese passport (Mount Fuji on the background and the Government Seal of Japan in the top-left and -right corner, main page)
Kazakh driver's license	DriverLicense_KZ	DriverLicense_KZ_TYPE1	Kazakh driver's license (stamp with car on the middle, front)
		DriverLicense_KZ_TYPE2	Kazakh driver's license (chip on the right and Kazakh flag in the top-left corner, front)

Document type	Profile name	Result scheme	Result description
Kazakh ID card	ID_KZ	ID_KZ_TYPE1	Kazakhstan ID card with 2-line MRZ (signature frame in the bottom, back)
		ID_KZ_TYPE2	Kazakhstan ID card with 3-line MRZ (Kazakh flag in the down-right corner, front)
Kazakh passport	InternationalPassport_KZ	InternationalPassport_KZ_TYPE1	Kazakh passport (stamp in the top-left corner on the photo, main page)
		InternationalPassport_KZ_TYPE2	Kazakh passport (Kazakh emblem on the bottom, main page)
Kazakh vehicle registration certificate	VehicleRegistration_KZ	VehicleRegistration_KZ_TYPE1	Kazakh vehicle registration certificate (KZ sign on the top, back)
Kuwait ID card	ID_KW	ID_KW_TYPE1	Kuwait ID card (static fields in one language on both sides, front side)
		ID_KW_TYPE2	Kuwait ID card (static fields in one language on one side, front side)
Kyrgyz driver's license	DriverLicense_KG	DriverLicense_KG_TYPE1	Kyrgyz driver's license (KS sign in the top-left corner and the flag of Kyrgyzstan in the top-right corner, front side)

Document type	Profile name	Result scheme	Result description
Kyrgyz ID card	ID_KG	ID_KG_TYPE1	Kyrgyz ID card (the coat of arms of Kyrgyzstan in the middle on the top, front side)
		ID_KG_TYPE2	Kyrgyz ID card (the coat of arms of Kyrgyzstan in the top-left corner and biometric symbol in the top-right corner, front side)
Kyrgyz passport	InternationalPassport_KG	InternationalPassport_KG_TYPE1	Kyrgyz passport (the coat of arms of Kyrgyzstan in the top-right corner near the small personal photo, main page)
Latvian ID card	ID_LV	ID_LV_TYPE1	Latvian ID card (the coat of arms of Latvia in the top-right corner, front side)
Lithuanian ID card	ID_LT	ID_LT_TYPE1	Lithuanian ID card (biometric symbol in the top-left corner and chip on the left, front side)
		ID_LT_TYPE2	Lithuanian ID card (star watermark on the background, front side)
Luxembourgian driver's license	DriverLicense_LU	DriverLicense_LU_TYPE1	Luxembourgian driver's license (flag in the upper left corner and text PERMIS DE CONDUIRE at the middle, front side)

Document type	Profile name	Result scheme	Result description
Luxembourgian ID card	ID_LU	ID_LU_TYPE1	Luxembourgian ID card (biometric symbol in the top-left corner, front)
		ID_LU_TYPE2	Luxembourgian ID card (the contour of Luxembourg in the top-right corner, front, new type)
		ID_LU_TYPE3	Luxembourgian ID card (the contour of Luxembourg in the top-right corner, front, old type)
		ID_LU_TYPE4	Luxembourgian ID card (number field on the bottom, front)
Passport of Luxembourg	InternationalPassport_LU	InternationalPassport_LU_TYPE1	Passport of Luxembourg (line on the background, main page)
		InternationalPassport_LU_TYPE2	Passport of Luxembourg (tiger on the background, main page)
Luxembourgian residence permit	ResidencePermit_LU	ResidencePermit_LU_TYPE1	Luxembourgian residence permit (the contour of Luxembourg in the top-left corner, front)
		ResidencePermit_LU_TYPE2	Luxembourgian residence permit (biometric symbol in the top-left corner, front)

Document type	Profile name	Result scheme	Result description
		ResidencePermit_LU_TY PE3	Luxembourgian residence permit (bull with stars on the middle, front)
Macedonian ID card	ID_MK	ID_MK_TYPE1	Macedonian ID card (name of document in the top is written on two languages, front side)
		ID_MK_TYPE2	Macedonian ID card (name of document in the top is written on three languages, front side)
Malaysian ID card	ID_MY	ID_MY_TYPE1	Malaysian ID card (Malaysian flag in the top-right corner and a chip on the left, main page)
Mexican ID card	ID_MX	ID_MX_TYPE1	Mexican ID card (Mexican emblem in the top-left corner and MEXICO-description on the top, front)
		ID_MX_TYPE2	Mexican ID card (Mexican emblem in the top-left corner and a copy of personal photo on the right, front)
		ID_MX_TYPE3	Mexican ID card (Mexican emblem in the top-left corner, front)
		ID_MX_TYPE4	Mexican ID card (Text)

Document type	Profile name	Result scheme	Result description
			Mexico at the middle top and green and red stripes under it, front)
Moldavian driver's license	DriverLicense_MD	DriverLicense_MD_TYP E1	Driver's license of Republic of Moldova (flag of Republic of Moldova in the top-left corner, front)
		DriverLicense_MD_TYP E2	Driver's license of Republic of Moldova (emblem of Republic of Moldova in the top-right corner, front)
Moldavian ID card	ID_MD	ID_MD TYPE1	ID card of Republic of Moldova (emblem of Republic of Moldova on the background, front)
		ID_MD TYPE2	ID card of Republic of Moldova (blue stamp with emblem of Republic of Moldova in the left and pink background, front)
		ID_MD TYPE3	ID card of Republic of Moldova (biometric symbol in the top-right corner, front)
Moldavian passport	InternationalPassport_MD	InternationalPassport_MD_TYPE1	Passport of Republic of Moldova (biometric symbol in the top-left corner, main page)
		InternationalPassport_	Passport of Republic

Document type	Profile name	Result scheme	Result description
		MD_TYPE2	of Moldova (vertical field nationality on the right, main page)
New Zealand driver's license	DriverLicense_NZ	DriverLicense_NZ_TYPE 1	New Zealand driver's license (flag of New Zealand above the personal photo, front side)
		DriverLicense_NZ_TYPE 2	New Zealand driver's license (flag of New Zealand above the personal photo, front side)
Nigerian ID card	ID_NG	ID_NG_TYPE1	Nigerian ID card (emblem of Nigeria in the top-left corner, front side)
Norwegian driver's license	DriverLicense_NO	DriverLicense_NO_TYPE 1	Norwegian driver's license (ninth point under the photo and a watermark with Norwegian coat of arms to the right of the photo, front side)
		DriverLicense_NO_TYPE 2	Norwegian driver's license (N sign in the top-left corner and ninth point under the signature, main page)
Norwegian ID card	ID_NO	ID_NO_TYPE1	Norwegian ID card (a chip on the left and Norwegian coat of arms on the top, front side)
Philippine passport	InternationalPassport_PH	InternationalPassport_PH_TYPE1	Philippine passport (the Philippine coat of

Document type	Profile name	Result scheme	Result description
			arms on the background, main page)
		InternationalPassport_PH_TYPE2	Philippine passport (the Philippine flag in the top-left corner and biometric symbol on the top-right corner, main page)
Polish driver's license	DriverLicense_PL	DriverLicense_PL_TYPE1	Polish driver's license (eye-like sign in the bottom-right corner, "PRAWO JAZDY" in the top-right corner, front side)
		DriverLicense_PL_TYPE2	Polish driver's license (flower on the background, front side)
		DriverLicense_PL_TYPE3	Polish driver's license (tape with text on the background, front side)
Polish ID card	ID_PL	ID_PL_TYPE1	Polish ID card (emblem in the top-right corner, front side)
		ID_PL_TYPE2	Polish ID card (emblem in the top-left corner, two photos on the card, front side)
		ID_PL_TYPE3	Polish ID card (emblem in the top-left corner, only one photo on the card,

Document type	Profile name	Result scheme	Result description
			front side)
Polish passport	InternationalPassport_PL	InternationalPassport_PL_TYPE1	Polish passport (map in the top-left corner)
		InternationalPassport_PL_TYPE2	Polish passport (stamp with Polish emblem in the top-left corner, main page)
Portuguese driver's license	DriverLicense_PT	DriverLicense_PT_TYPE1	Portuguese driver's license (sign of the European Union with letter P in the top-left corner, front side)
Portuguese ID card	ID_PT	ID_PT_TYPE1	Portuguese ID card (a chip on the left and a stamp with a cross of shields in the top-left corner, front side)
Romanian driver's license	DriverLicense_RO	DriverLicense_RO_TYPE1	Romanian driver's license (sign of the European Union with letters RO in the top-left corner, front side)
Romanian ID card	ID_RO	ID_RO_TYPE1	Romanian ID card (national flag on the top and the coat of arms on the background, front side)
Russian birth certificate	BirthCertificate_RU	BirthCertificate_RU_TYPE1	Russian birth certificate (Russian emblem on the top, main page)
Russian death certificate	DeathCertificate_RU	DeathCertificate_RU_TYPE1	Russian death certificate

Document type	Profile name	Result scheme	Result description
Russian divorce certificate	DivorceCertificate_RU	DivorceCertificate_RU_TYPE1	Russian divorce certificate
Russian driver's license	DriverLicense_RU	DriverLicense_RU_TYPE1	Russian driver's license, old type (front side)
		DriverLicense_RU_TYPE2	Russian driver's license, old type, vertical (front side)
		DriverLicense_RU_TYPE3	Russian driver's license, new type (front side)
Russian health insurance	HealthInsurance_RU	HealthInsurance_RU_TYPE1	Russian health Insurance (round stamp in the down-left corner, front side)
		HealthInsurance_RU_TYPE2	Russian health Insurance (round stamp in the down-right corner, front side)
		HealthInsurance_RU_TYPE3	Russian health Insurance (national coat of arms in the top-left corner and chip in the middle on the left, front side)
		HealthInsurance_RU_TYPE4	Russian Health Insurance (the coat of arms of Moscow in the top-right corner, front side)
Russian ID card	ID_RU	ID_RU_LAWYER_TYPE1	Russian lawyer ID card (front side)

Document type	Profile name	Result scheme	Result description
		ID_RU_MILITARY_TYPE1	Russian military ID card (front side)
		ID_RU_MILITARY_TYPE2	Russian military ID card (front side)
		ID_RU_MILITARY_TYPE3	Russian military ID card (front side)
		ID_RU_MILITARY_TYPE4	Russian military ID card (front side)
		ID_RU_MILITARY_TYPE5	Russian military ID card (front side)
		ID_RU_POLICE_TYPE1	Russian police ID card (front side)
		ID_RU_PROSECUTOR_TYPE1	Russian prosecutor ID card (name of document is written in two lines, page 2)
		ID_RU_PROSECUTOR_TYPE2	Russian prosecutor ID card (name of document is written in one line, page 2)
		ID_RU_SOLDIER_TYPE1	Russian soldier ID card (front side)
Russian INN	INN_RU	INN_RU_CITIZEN_TYPE1	Russian INN for citizens (main page)
		INN_RU_CITIZEN_TYPE2	Russian INN for citizens (main page)
		INN_RU_CITIZEN_TYPE3	Russian INN for citizens (main page)

Document type	Profile name	Result scheme	Result description
		INN_RU_CITIZEN_TYPE4	Russian INN for citizens (main page)
		INN_RU_ENTITY_TYPE1	Russian entity INN (main page)
		INN_RU_ENTITY_TYPE2	Russian entity INN (main page)
Russian international biometric passport	InternationalPassport_RU	InternationalPassport_RU_BIOMETRIC	Russian international biometric passport (main page)
Russian marriage certificate	MarriageCertificate_RU	MarriageCertificate_RU_TYPE1	Russian marriage certificate (main page)
Russian migration card	MigrationCard_RU	MigrationCard_RU_TYPE1	Russian migration card (front side)
Russian passport	Passport_RU	Passport_RU	Russian passport (pages 2 and 3)
Russian residence permit	ResidencePermit_RU	ResidencePermit_RU_TYPE2	Russian biometric residence permit (main page)
Russian residence permit (old)	ResidencePermit_RU_OLD	ResidencePermit_RU_TYPE1	Russian residence permit (main page)
Russian insurance individual account number (SNILS)	SocialSecurityNumber_RU	SocialSecurityNumber_RU_TYPE1	Laminated SNILS (patterns in the right on the background, front)
		SocialSecurityNumber_RU_TYPE2	Card-size SNILS (old type, front)
Russian visa	Visa_RU	Visa_RU_TYPE1	Russian visa

Document type	Profile name	Result scheme	Result description
Russian vehicle passport	VehiclePassport_RU	VehiclePassport_RU_TYPE1	Russian vehicle passport (front side)
Russian vehicle registration certificate	VehicleRegistration_RU	VehicleRegistration_RU_TYPE2	Russian vehicle registration certificate (old type, RUS sign on the top, front)
		VehicleRegistration_RU_TYPE1	Russian vehicle registration certificate (new type, stamp with car in the top-right corner, front)
Russian work permit	WorkPermit_RU	WorkPermit_RU_TYPE1	Russian work permit (front side)
Salvadorean vehicle registration	VehicleRegistration_SV	VehicleRegistration_SV_TYPE1	Salvadorean vehicle registration (a chip on the left, main page)
Salvadorean ID card	ID_SV	ID_SV_TYPE1	Salvadorean ID card (the national flag on the top-left corner and a coat of arms on the top-right corner, main page)
Serbian driver's license	DriverLicense_RS	DriverLicense_RS_TYPE1	Serbian driver's license (SRB sign in the top-left corner and the coat of arms of Serbia in the top-right corner, front side)
Serbian ID card	ID_RS	ID_RS_TYPE1	Serbian ID card (the coat of arms of Serbia in the top-left corner and a shield on the right, front side)

Document type	Profile name	Result scheme	Result description
Singapore ID card	ID_SG	ID_SG_TYPE1	Singapore ID card (national coat of arms in the top-right corner, front side)
Singapore work permit	WorkPermit_SG	WorkPermit_SG_TYPE1	Singapore work permit (barcode on the bottom and a mark with lion on the right, front side)
Slovakian driver's license	DriverLicense_SK	DriverLicense_SK_TYPE 1	Slovakian driver's license (the contour of country with letters SK on the right, main page)
		DriverLicense_SK_TYPE 2	Slovakian driver's license (the contour of country with letters SK in the bottom-right corner, main page)
		DriverLicense_SK_TYPE 3	Slovakian driver's license (leaves in the bottom-right corner, main page)
		DriverLicense_SK_TYPE 4	Slovakian driver's license
Slovakian ID card	ID_SK	ID_SK_TYPE1	ID card of Slovakia (a round stamp in the top-right corner of the photo and leaves in the top-right corner, front side)
		ID_SK_TYPE2	ID card of Slovakia (a round stamp under the photo and the national coat of arms on the background,

Document type	Profile name	Result scheme	Result description
			main page)
Slovakian passport	InternationalPassport_SK	InternationalPassport_SK_TYPE2	Passport of Slovakia (SVK sign in the left-bottom corner of photo, main page)
		InternationalPassport_SK_TYPE3	Passport of Slovakia (inscription with the name of country above the MRZ zone, main page)
Slovakian residence permit	ResidencePermit_SK	ResidencePermit_SK_TYPE1	Residence permit of Slovakia (biometric symbol on the top, front side)
		ResidencePermit_SK_TYPE2	Residence permit of Slovakia (parallelogram on the top, front side)
Slovakian vehicle registration certificate	VehicleRegistration_SK	VehicleRegistration_SK_TYPE1	Vehicle registration certificate of Slovakia (card-sized, national symbol in the top-right corner and sign of the European Union with letter SK in the top-left corner, front side)
Slovenian driver's license	DriverLicense_SI	DriverLicense_SI_TYPE1	Slovenian driver's license (country's name is written in one line, front side)
		DriverLicense_SI_TYPE2	Slovenian driver's license (country's name is written in two lines, front side)

Document type	Profile name	Result scheme	Result description
Slovenian ID card	ID_SI	ID_SI_TYPE1	Slovenian ID card (the Slovenian coat of arms on the top, front side; cavalryman motif in the middle above the MRZ zone, back side)
Slovenian passport	InternationalPassport_SI	InternationalPassport_SI_TYPE1	Slovenian passport (a leaf in the top-right corner and a small personal photo on the right, main page)
Slovenian residence permit	ResidencePermit_SI	ResidencePermit_SI_TYPE1	Slovenian residence permit (a bull in the middle on the background and sign of the European Union in the top-left corner, front side)
		ResidencePermit_SI_TYPE2	Slovenian residence permit (a bull above the personal photo and a biometric symbol on the top, front side)
South African pilot's license	CrewMember_ZA	CrewMember_ZA_TYPE1	South African pilot's license (biometric symbol in the top-right corner, main page)
South African Republic ID card	ID_ZA	ID_ZA_TYPE1	South African Republic ID card (the national flag in the top-left corner and a round stamp in the bottom-left corner of photo, main page)
Spanish driver's license	DriverLicense_ES	DriverLicense_ES_TYPE	Spanish driver's

Document type	Profile name	Result scheme	Result description
		1	license (card-size, number field below the photo)
		DriverLicense_ES_TYPE2	Spanish driver's license (card-size, number field to the right of the photo)
Spanish ID card	ID_ES	ID_ES_TYPE1	Spanish ID card (card-size, old one; a personal photo on the right and biometric symbol in the top-left corner, front side)
		ID_ES_TYPE2	Spanish ID card (card-size, new one; a personal photo on the left and chip on the left, front side)
Spanish passport	InternationalPassport_ES	InternationalPassport_ES_TYPE1	Spanish passport (new biometric passport, biometric symbol on the top, main page)
		InternationalPassport_ES_TYPE2	Spanish passport (old biometric, biometric symbol in the top-left corner and a personal photo on the background, main page)
		InternationalPassport_ES_TYPE3	Spanish passport (one-line MRZ on the bottom, main page)
		InternationalPassport_ES_TYPE4	Spanish passport (diplomatic document,

Document type	Profile name	Result scheme	Result description
			main page)
Spanish residence permit	ResidencePermit_ES	ResidencePermit_ES_TY PE1	Spanish residence permit , (EU card size, blue-purple)
		ResidencePermit_ES_TY PE2	Spanish residence permit , (old card size, different colors, large E on the background)
Swedish driver's license	DriverLicense_SE	DriverLicense_SE_TYPE 1	Swedish driver's license (a small personal photo on the right, front side)
		DriverLicense_SE_TYPE 2	Swedish driver's license (a stamp under the signature, front side)
Swedish passport	InternationalPassport_S E	InternationalPassport_S E_TYPE1	Swedish passport (a biometric symbol in the top-right corner, main page)
		InternationalPassport_S E_TYPE2	Swedish passport (a square stamp in the top-right corner, main page)
Swiss driver's license	DriverLicense_CH	DriverLicense_CH_TYPE 1	Swiss driver's license (swiss flag in the top-left corner, CH sign in the top-right corner, front side)
Swiss ID card	ID_CH	ID_CH_TYPE1	Swiss ID card (swiss flag in the top-left corner, stamp with cross in the top-right corner, front side)

Document type	Profile name	Result scheme	Result description
Syrian passport	InternationalPassport_S Y	InternationalPassport_S Y_TYPE1	Passport of Syrian Arab Republic (national coat of arms on the top, main page)
Tajikistani passport	InternationalPassport_T J	InternationalPassport_T J_TYPE1	Passport of Tajikistan (the national flag in the top-left corner and a copy of personal photo in the right, main page)
		InternationalPassport_T J_TYPE2	Passport of Tajikistan (a round stamp in the bottom-right corner of the photo, main page)
		InternationalPassport_T J_TYPE3	Passport of Tajikistan
Turkish driver's license	DriverLicense_TR	DriverLicense_TR_TYPE 1	Turkish driver's license (TR sign in the top-left corner and a car in the bottom-right corner, front side)
		DriverLicense_TR_TYPE 2	Turkish driver's license (T.C. sign in the top-left corner, front side)
Turkish ID card	ID_TR	ID_TR_TYPE1	Turkish ID card (national emblem of the Republic of Turkey on the right and a personal photo on the left, front side)
		ID_TR_TYPE2	Turkish ID card (national emblem of

Document type	Profile name	Result scheme	Result description
			the Republic of Turkey on the left and a personal photo on the right, front side)
Turkish passport	InternationalPassport_TR	InternationalPassport_TR_TYPE1	Turkish passport (TR watermark in the top-right corner and a small personal photo on the right, main page)
UAE ID card	ID_AE	ID_AE_TYPE1	UAE ID card (the emblem of United Arab Emirates on the top in the middle, front side)
British driver's license	DriverLicense_UK	DriverLicense_UK_PROVISIONAL_TYPE1	British driver's license, provisional (line of text Provisional on the top, front)
		DriverLicense_UK_PROVISIONAL_TYPE2	British driver's license, provisional (rubber stamp on the right, front)
		DriverLicense_UK_PROVISIONAL_TYPE3	British driver's license, provisional (round stamp on the left, front)
		DriverLicense_UK_TYPE1	British driver's license (line of text on the top, front)
		DriverLicense_UK_TYPE2	British driver's license (British flag on the right, front)
		DriverLicense_UK_TYPE	British driver's license

Document type	Profile name	Result scheme	Result description
		3	(round stamp on the left, front)
British passport	InternationalPassport_UK	InternationalPassport_UK_TYPE1	British passport (bird on the background, main page)
		InternationalPassport_UK_TYPE2	British passport (compass in the top-left corner, main page)
		InternationalPassport_UK_TYPE3	British passport (a measuring device in the top-left corner, main page)
USA border crossing	BorderCrossing_US	BorderCrossing_US_TYPE1	USA border crossing (a horizontal card; rhombuses and building on the background, front)
		BorderCrossing_US_TYPE2	USA border crossing (a horizontal card; flag outline on the top left, front)
USA driver's license	DriverLicense_US	DriverLicense_US_AK_TYPE1	USA driver's license - Alaska (mountains on the background, front)
		DriverLicense_US_AK_TYPE2	USA driver's license - Alaska (flag of Alaska on the background, front)
		DriverLicense_US_AK_TYPE3	USA driver's license - Alaska (mountains on the background and photo on the right,

Document type	Profile name	Result scheme	Result description
			front)
		DriverLicense_US_AK_TYPE4	USA driver's license - Alaska (mountains on the background and photo on the right, front)
		DriverLicense_US_AL_TYPE1	USA driver's license - Alabama (building on the background, front)
		DriverLicense_US_AL_TYPE2	USA driver's license - Alabama (a vertical card, building on the background, front)
		DriverLicense_US_AR_TYPE1	USA driver's license - Arkansas (stamp with emblem of Arkansas on the background, front)
		DriverLicense_US_AR_TYPE2	USA driver's license - Arkansas (DL sign in the middle on the top, front)
		DriverLicense_US_AR_TYPE3	USA driver's license - Arkansas (stamp with emblem of Arkansas on the background and a copy of personal photo in the bottom-right corner, vertical type under 21)
		DriverLicense_US_AR_TYPE4	USA driver's license - Arkansas (diamonds on the background and a copy of personal photo in the

Document type	Profile name	Result scheme	Result description
			bottom-right corner, front)
		DriverLicense_US_AZ_TYPE1	USA driver's license - Arizona (a horizontal card and a cactus silhouette on the right on the background, front side)
		DriverLicense_US_AZ_TYPE2	USA driver's license - Arizona (a vertical card and a cactus silhouette on the right on the background, front side)
		DriverLicense_US_AZ_TYPE3	USA driver's license - Arizona (the Grand Canyon on the background and a personal photo in the bottom-right corner, front side)
		DriverLicense_US_CA_TTYPE1	USA driver's license - California (a horizontal card, bears on the background and a small personal photo on the right, front side)
		DriverLicense_US_CA_TTYPE2	USA driver's license - California (a vertical card, a small personal photo in the bottom-left corner, front side)
		DriverLicense_US_CA_TTYPE3	USA driver's license - California (a horizontal card, a bear with a star above the man on the

Document type	Profile name	Result scheme	Result description
			right on the background, front side)
		DriverLicense_US_CA_TYPE4	USA driver's license - California (a horizontal card, DMV sign in the top-right and in the top-left corner, front side)
		DriverLicense_US_CO_TYPE1	USA driver's license - Colorado (a horizontal card, a star in the top-right corner and curves on the bottom, front side)
		DriverLicense_US_CO_TYPE2	USA driver's license - Colorado (a horizontal card, DL sign and a star in a circle are near the state name, front side)
		DriverLicense_US_CO_TYPE3	USA driver's license - Colorado (a vertical card, DL sign and a star in a circle are under the state name, front side)
		DriverLicense_US_CO_TYPE4	USA driver's license - Colorado (a vertical card, a star in the top-right corner, front side)
		DriverLicense_US_CT_TTYPE1	USA driver's license - Connecticut (a horizontal card, letters DL on the top, front side)

Document type	Profile name	Result scheme	Result description
		DriverLicense_US_CT_TYPE2	USA driver's license - Connecticut (a vertical card, letters ALP in the top-left corner, front side)
		DriverLicense_US_CT_TYPE3	USA driver's license - Connecticut (a horizontal card, the document's name near the state name and a helicopter on the top, front side)
		DriverLicense_US_CT_TYPE4	USA driver's license - Connecticut (a vertical card, the document's name under the state name and a helicopter in the middle, front side)
		DriverLicense_US_CT_TYPE5	USA driver's license - Connecticut (a horizontal card, a lighthouse on the left on the background and letters DL in the top-right corner, front side)
		DriverLicense_US_DC_TYPE1	USA driver's license - Columbia (heart in the top-left corner and flag of Washington in the down-right corner, front)
		DriverLicense_US_DC_TYPE2	USA driver's license - Columbia (stamp with emblem of district of Columbia on the right, front)

Document type	Profile name	Result scheme	Result description
		DriverLicense_US_DC_TYPE3	USA driver's license - Columbia (a star in the top-right corner, front)
		DriverLicense_US_DE_TYPE1	USA driver's license - Delaware (blue rectangle on the top and star in the top-tight corner, front)
		DriverLicense_US_FL_TYPE1	USA driver's license - Florida (stamp with emblem of Florida on the left, front)
		DriverLicense_US_FL_TYPE2	USA driver's license - Florida (star in the circle in the top-right corner, front)
		DriverLicense_US_FL_TYPE3	USA driver's license - Florida (star in the circle in the top-right corner, front)
		DriverLicense_US_FL_TYPE4	USA driver's license - Florida (star in the circle in the top-right corner, front)
		DriverLicense_US_GA_TYPE1	USA driver's license - Georgia (copies of a personal photo in the bottom-right corner and a peach on the background, front)
		DriverLicense_US_GA_TYPE2	USA driver's license - Georgia (vertically oriented, front)

Document type	Profile name	Result scheme	Result description
		DriverLicense_US_GA_TYPE3	USA driver's license - Georgia (a round stamp in the top-left corner of photo and three peaches on the top, front)
		DriverLicense_US_HI_TYPE1	USA driver's license - Hawaii (a barcode under the photo, front)
		DriverLicense_US_HI_TYPE2	USA driver's license - Hawaii (the flag of state in the top-right corner, front)
		DriverLicense_US_IA_TYPE1	USA driver's license - Hawaii (windmill on the background, front)
		DriverLicense_US_IA_TYPE2	USA driver's license - Hawaii (windmill on the background - vertical card, front)
		DriverLicense_US_IA_TYPE3	USA driver's license - Hawaii (coat of arms of Iowa on the background, front)
		DriverLicense_US_ID_TYPE1	USA driver's license - Idaho (the seal of Idaho in the top-right corner of the personal photo, front side)
		DriverLicense_US_ID_TYPE2	USA driver's license - Idaho (mountains on the background and copy of a personal

Document type	Profile name	Result scheme	Result description
			photo in the bottom-right corner, front side)
		DriverLicense_US_ID_TY PE3	USA driver's license - Idaho (mountains on the background and mark in the bottom-right corner, front side)
		DriverLicense_US_IL_TY PE1	USA driver's license - Illinois (Abraham Lincoln on the background, front side)
		DriverLicense_US_IL_TY PE2	USA driver's license - Illinois (the curves on the background, front side)
		DriverLicense_US_IL_TY PE3	USA driver's license - Illinois (a personal photo on the right, front side)
		DriverLicense_US_IL_TY PE4	USA driver's license - Illinois (a vertical card, the curves on the background, front side)
		DriverLicense_US_IL_TY PE5	USA driver's license - Illinois (a vertical card, the curves on the background, front side)
		DriverLicense_US_IN_TY PE1	USA driver's license - Indiana (a horizontal card; a small personal photo in the bottom-

Document type	Profile name	Result scheme	Result description
			right corner, front side)
		DriverLicense_US_IN_TY PE2	USA driver's license - Indiana (a vertical card; a small personal photo on the right, front side)
		DriverLicense_US_IN_TY PE3	USA driver's license - Indiana (a horizontal card, the seal of Indiana in the top-left corner, front side)
		DriverLicense_US_KS_T YPE1	USA driver's license - Kansas (ears of corn on the background, horizontal card, front)
		DriverLicense_US_KS_T YPE2	USA driver's license - Kansas (ears of corn on the background, vertical card, front)
		DriverLicense_US_KS_T YPE3	USA driver's license - Kansas (tractor and wagon on the background and star in the top-right corner, horizontal card, front)
		DriverLicense_US_KS_T YPE4	USA driver's license - Kansas (tractor and wagon on the background and star in the top-right corner, vertical card, front)
		DriverLicense_US_KS_T YPE5	USA driver's license - Kansas (patterns on

Document type	Profile name	Result scheme	Result description
			the bottom and DL sign in the top-right corner, front)
		DriverLicense_US_KY_TYPE1	USA driver's license - Kentucky (horizontal card, fence on the background, front)
		DriverLicense_US_KY_TYPE2	USA driver's license - Kentucky (vertical card, fence on the background, front)
		DriverLicense_US_LA_TYPE1	USA driver's license - Louisiana (horizontal card, emblem of Louisiana in the top-right corner on the background, front)
		DriverLicense_US_LA_TYPE2	USA driver's license - Louisiana (vertical card, emblem of Louisiana in the down-right corner on the background, front)
		DriverLicense_US_LA_TYPE3	USA driver's license - Louisiana (horizontal card, photo on the right, front)
		DriverLicense_US_MA_TYPE1	USA driver's license - Massachusetts (a stamp with a bird in the center, front)
		DriverLicense_US_MA_TYPE2	USA driver's license - Massachusetts (a personal photo on the left and a round

Document type	Profile name	Result scheme	Result description
			stamp in the top-left corner of the photo, front)
		DriverLicense_US_MA_T YPE3	USA driver's license - Massachusetts (a personal photo on the right and the contour of state on the background, front)
		DriverLicense_US_MA_T YPE4	USA driver's license - Massachusetts (vertical card, front)
		DriverLicense_US_MA_T YPE5	USA driver's license - Massachusetts (front side)
		DriverLicense_US_MD TYPE1	USA driver's license - Maryland (the flag of the state in the top-left corner and a star on the top, front)
		DriverLicense_US_MD TYPE2	USA driver's license - Maryland (a crab in the top right corner and a coat of arms of the state on the background, front)
		DriverLicense_US_ME_T YPE1	USA driver's license - Maine (a moose on the background, front)
		DriverLicense_US_ME_T YPE3	USA driver's license - Maine (sunset view on the top, front)

Document type	Profile name	Result scheme	Result description
		DriverLicense_US_MI_T TYPE1	USA driver's license - Michigan (bridge on the top, horizontal card, front)
		DriverLicense_US_MI_T TYPE2	USA driver's license - Michigan (bridge on the top, vertical card, front)
		DriverLicense_US_MI_T TYPE3	USA Operator License - Michigan (bridge on the top, horizontal card, front)
		DriverLicense_US_MN TYPE1	USA driver's license - Minnesota (emblem of Minnesota on the background, front)
		DriverLicense_US_MO TYPE1	USA driver's license - Missouri (emblem of Missouri on the background, front)
		DriverLicense_US_MO TYPE2	USA driver's license - Missouri (building on the background, front)
		DriverLicense_US_MO TYPE3	USA driver's license - Missouri (emblem of Missouri on the background, vertical orientation)
		DriverLicense_US_MS_T TYPE1	USA driver's license - Mississippi (DL sign on the top, front)
		DriverLicense_US_MS_T TYPE2	USA driver's license - Mississippi (building

Document type	Profile name	Result scheme	Result description
			on the background, front)
		DriverLicense_US_MS_TYPE3	USA driver's license - Mississippi (building on the background, front)
		DriverLicense_US_MT_TYPE1	USA driver's license - Montana (DL sign on the top and emblem of Montana on the background, front)
		DriverLicense_US_MT_TYPE2	USA driver's license - Montana (mountains and stars on the background, front)
		DriverLicense_US_NC_TYPE1	USA driver's license - North Carolina (lighthouse on the bottom on the background, front)
		DriverLicense_US_NC_TYPE2	USA driver's license - North Carolina (building on the middle on the background, front)
		DriverLicense_US_NC_TYPE3	USA driver's license - North Carolina (a vertical card, building on the middle on the background, front)
		DriverLicense_US_NC_TYPE4	USA driver's license - North Carolina (a vertical card, building on the middle on the background, front)

Document type	Profile name	Result scheme	Result description
		DriverLicense_US_ND_TYPE1	USA driver's license - North Dakota (a horizontal card; letters DL in the top-right corner, front side)
		DriverLicense_US_ND_TYPE2	USA driver's license - North Dakota (a horizontal card; horses on the background, front side)
		DriverLicense_US_NE_TYPE1	USA driver's license - Nebraska (a horizontal card; the great seal of Nebraska in the top-left corner, front side)
		DriverLicense_US_NE_TYPE2	USA driver's license - Nebraska (a vertical card; a star in the circle in the top-right corner, front side)
		DriverLicense_US_NH_TYPE1	USA driver's license - New Hampshire (a horizontal card; the contour of New Hampshire in the top-right corner, front side)
		DriverLicense_US_NH_TYPE2	USA driver's license - New Hampshire (a horizontal card; a small personal photo in the middle on the background, front side)
		DriverLicense_US_NH_T	USA driver's license -

Document type	Profile name	Result scheme	Result description
		YPE3	New Hampshire (a horizontal card; the circle of New Hampshire in the upper-left corner, front side)
		DriverLicense_US_NJ_TYPE1	USA driver's license - New Jersey (a horizontal card; a small personal photo in the bottom-right corner on the background, front side)
		DriverLicense_US_NJ_TYPE2	USA driver's license - New Jersey (a vertical card; a small personal photo in the middle on the right, front side)
		DriverLicense_US_NM_TYPE1	USA driver's license - New Mexico (a horizontal card; flag of New Mexico in the top-left corner, front side)
		DriverLicense_US_NM_TYPE2	USA driver's license - New Mexico (a vertical card; flag of New Mexico in the top-left corner, front side)
		DriverLicense_US_NV_TYPE1	USA driver's license - Nevada (a horizontal card; an eagle in the bottom-right corner, front side)
		DriverLicense_US_NV_T	USA driver's license -

Document type	Profile name	Result scheme	Result description
		YPE2	Nevada (a vertical card; an eagle in the bottom-right corner, front side)
		DriverLicense_US_NV_TYPE3	USA driver's license - Nevada (a horizontal card; the great seal of Nevada in the top-left corner of personal photo on the right, front side)
		DriverLicense_US_NY_TYPE1	USA driver's license - New York (a horizontal card, emblem of New York on the right and statue of Liberty on the left on the background, front)
		DriverLicense_US_NY_TYPE2	USA driver's license - New York (statue of Liberty on the right on the background, front)
		DriverLicense_US_NY_TYPE3	USA driver's license - New York (emblem of New York on the middle on the background and landscape on the top, front)
		DriverLicense_US_NY_TYPE4	USA driver's license - New York (a vertical card, emblem of New York on the bottom and statue of Liberty in the top-left corner on the background, front)

Document type	Profile name	Result scheme	Result description
		DriverLicense_US_OH_TYPE1	USA driver's license - Ohio (horizontal card, flag of Ohio in the down-left corner, front)
		DriverLicense_US_OH_TYPE2	USA driver's license - Ohio (vertical card, flag of Ohio on the bottom, front)
		DriverLicense_US_OH_TYPE3	USA driver's license - Ohio (horizontal card, emblem of Ohio on the background and star in the top-right corner, front)
		DriverLicense_US_OH_TYPE4	USA driver's license - Ohio (vertical card, emblem of Ohio on the background and star in the top-right corner, front)
		DriverLicense_US_OK_TYPE1	USA driver's license - Oklahoma (horizontal card, photo on the left and right, front)
		DriverLicense_US_OK_TYPE2	USA driver's license - Oklahoma (vertical card, photo on the left and right, front)
		DriverLicense_US_OK_TYPE3	USA driver's license - Oklahoma (horizontal card, photo on the right and middle, front)
		DriverLicense_US_OR_TYPE1	USA driver's license - Oregon (a horizontal

Document type	Profile name	Result scheme	Result description
			card; the seal of Oregon in the top-right corner of the personal photo, front side)
		DriverLicense_US_OR_TYPE2	USA driver's license - Oregon (a horizontal card; the seal of Oregon in the top-left corner of the personal photo, front side)
		DriverLicense_US_PA_TYPE1	USA driver's license - Pennsylvania (a horizontal card; the state's name is written vertically on the left, front side)
		DriverLicense_US_PA_TYPE2	USA driver's license - Pennsylvania (a vertical card; letters JR in the bottom-right corner and a personal photo in the bottom-left corner, front side)
		DriverLicense_US_PA_TYPE3	USA driver's license - Pennsylvania (a vertical card; a small personal photo with letters DL in the bottom-right corner, front side)
		DriverLicense_US_PA_TYPE4	USA driver's license - Pennsylvania (a horizontal card; a small personal photo with letters CDL in the bottom-right corner, front side)

Document type	Profile name	Result scheme	Result description
		DriverLicense_US_RI_TY PE1	USA driver's license - Rhode Island (a horizontal card; letters DL in the bottom-right corner, front side)
		DriverLicense_US_RI_TY PE2	USA driver's license - Rhode Island (a horizontal card; a bridge on the background and a small personal photo in the top-right corner, front side)
		DriverLicense_US_SC_T YPE1	USA driver's license - South Carolina (emblem of South Carolina on the background, front)
		DriverLicense_US_SC_T YPE2	USA driver's license - South Carolina (flag of South Carolina on the background, front)
		DriverLicense_US_SC_T YPE3	USA driver's license - South Carolina (a vertical card; a palm on the background, front)
		DriverLicense_US_SC_T YPE4	USA driver's license - South Carolina (a horizontal card, a palm on the background, front)
		DriverLicense_US_SC_T YPE5	USA driver's license - South Carolina (a horizontal card; South Carolina State House

Document type	Profile name	Result scheme	Result description
			on the background, front)
		DriverLicense_US_SC_TYPE6	USA driver's license - South Carolina (a vertical card; South Carolina State House on the background, front)
		DriverLicense_US_SD_TYPE1	USA driver's license - South Dakota (Rushmore on the background, front)
		DriverLicense_US_SD_TYPE2	USA driver's license - South Dakota (emblem of South Dakota on the background, front)
		DriverLicense_US_TN_TYPE1	USA driver's license - Tennessee (building on the background, front)
		DriverLicense_US_TN_TYPE2	USA driver's license - Tennessee (flag of Tennessee in the top-right corner, front)
		DriverLicense_US_TN_TYPE3	USA driver's license - Tennessee (flag of Tennessee in the top-right corner, front)
		DriverLicense_US_TX_TYPE1	USA driver's license - Texas (a horizontal card; United States Capitol on the background, front side)

Document type	Profile name	Result scheme	Result description
		DriverLicense_US_TX_TYPE2	USA driver's license - Texas (a vertical card; United States Capitol on the background, front side)
		DriverLicense_US_TX_TYPE3	USA driver's license - Texas (a horizontal card; the seal of Texas in the top-right corner and flag of Texas in the top-left corner, front side)
		DriverLicense_US_TX_TYPE4	USA driver's license - Texas (a horizontal card; the seal of Texas in the top-right corner and flag of Texas in the top-left corner, front side)
		DriverLicense_US_UT_TTYPE1	USA driver's license - Utah (a horizontal card; United States Capitol on the background, front side)
		DriverLicense_US_UT_TTYPE2	USA driver's license - Utah (a horizontal card; the great seal of Utah on the background, front side)
		DriverLicense_US_UT_TTYPE3	USA driver's license - Utah (a vertical card; United States Capitol on the background, front side)
		DriverLicense_US_UT_TTYPE4	USA driver's license - Utah (a vertical card;

Document type	Profile name	Result scheme	Result description
			United States Capitol on the background, front side)
		DriverLicense_US_VA_TYPE1	USA driver's license - Virginia (a horizontal card; a new sample with the seal of Virginia in the middle on the background, front side)
		DriverLicense_US_VA_TYPE2	USA driver's license - Virginia (a horizontal card; a star in the circle in the top-right corner and a small personal photo on the right, front side)
		DriverLicense_US_VA_TYPE3	USA driver's license - Virginia (a vertical card; the seal of Virginia in the middle on the background, front side)
		DriverLicense_US_VA_TYPE4	USA driver's license - Virginia (a horizontal card; an old sample with the seal of Virginia in the middle on the background, front side)
		DriverLicense_US_VA_TYPE5	USA driver's license - Virginia (a vertical card; flowers on the background, front side)
		DriverLicense_US_VI_TYPE1	USA driver's license - Virginia Island (emblem of Virginia

Document type	Profile name	Result scheme	Result description
			Island on the background)
		DriverLicense_US_VT_TYPE1	USA operator's license - Vermont (flag of USA on the left and name of state on the left, front)
		DriverLicense_US_VT_TYPE2	USA operator's license - Vermont (name of state on the top-middle, front)
		DriverLicense_US_VT_TYPE3	USA operator's license - Vermont (flag of USA on the left and name of state on the left, front)
		DriverLicense_US_WA_TYPE1	USA driver's license - Washington (George Washington in the top-left corner, front)
		DriverLicense_US_WA_TYPE2	USA driver's license - Washington (tree on the down-middle, front)
		DriverLicense_US_WA_TYPE3	USA driver's license - Washington (a national flag on the right side of a personal photo, front)
		DriverLicense_US_WI_TYPE1	USA driver's license - Wisconsin (house on the top and emblem of Wisconsin on the background, front)

Document type	Profile name	Result scheme	Result description
		DriverLicense_US_WI_TYPE2	USA driver's license - Wisconsin (building on the background, front)
		DriverLicense_US_WI_TYPE3	USA driver's license - Wisconsin (flag of USA in the top-left corner, front)
		DriverLicense_US_WI_TYPE4	USA driver's license - Wisconsin (flag of USA in the top-left corner, front)
		DriverLicense_US_WI_TYPE5	USA driver's license - Wisconsin (star in circle in the top-right corner, front)
		DriverLicense_US_WI_TYPE6	USA driver's license - Wisconsin (star in circle in the top-right corner, front)
		DriverLicense_US_WV_TYPE1	USA driver's license - West Virginia (a coat of arms of a state in the top-left corner and the contour of state in the top-right corner, front)
		DriverLicense_US_WY_TYPE1	USA driver's license - Wyoming (a coat of arms of a state in the top-left corner and mountains on the background, front)
		DriverLicense_US_WY_TYPE2	USA driver's license - Wyoming (a mountain on the background on

Document type	Profile name	Result scheme	Result description
			the top, front)
USA permanent residency card (Green card)	GreenCard_US	GreenCard_US_TYPE1	USA permanent residency card, also known as Green card (The building with columns and the Statue of Liberty on the background, front side)
USA passport	InternationalPassport_US	InternationalPassport_US_TYPE1	American passport (only for children, main page)
		InternationalPassport_US_TYPE2	American passport (a national flag and coat of arms on the background, main page)
USA passport card	PassportCard_US	PassportCard_US_TYPE1	USA passport card (Blue background with pink and dark blue honeycombs, front side)
		PassportCard_US_TYPE2	USA passport card (Flag, coat of arms and mountain in the background, front side)
USA visa	Visa_US	Visa_US_TYPE1	USA visa (Lincoln Memorial, Washington State Capitol on the background, main page)
Ukrainian driver's license	DriverLicense_UA	DriverLicense_UA_TYPE1	Ukrainian driver's license (Blue background and flag)

Document type	Profile name	Result scheme	Result description
			in the upper left corner, front side)
		DriverLicense_UA_TYPE_2	Ukrainian driver's license (Pink background and flag in the upper right corner, front side)
		DriverLicense_UA_TYPE_3	Ukrainian driver's license (Yellow background and flag in the upper left corner, front side)
		DriverLicense_UA_TYPE_4	Ukrainian driver's license
Ukrainian ID card	ID_UA	ID_UA_TYPE1	Ukrainian ID card (Ukrainian flag in the top-right corner, card-sized)
Ukrainian passport	InternationalPassport_UA	InternationalPassport_UA_TYPE1	Ukrainian passport (Building on the right and the camera symbol in the upper left corner, front side)
		InternationalPassport_UA_TYPE2	Ukrainian passport (Pink, yellow and gray wave in the center, front side)
Ukrainian vehicle registration certificate	VehicleRegistration_UA	VehicleRegistration_UA_TYPE1	Ukrainian vehicle registration certificate (card-sized, coat of arms of Ukraine on background)
Uruguayan passport	InternationalPassport_UY	InternationalPassport_UY_TYPE1	Uruguayan passport (Large coat of arms

Document type	Profile name	Result scheme	Result description
			on the background, front side)
		InternationalPassport_UY_TYPE2	Uruguayan passport (the text REPUBLICA ORIENTAL DEL URUGUAY round on the background, front side)
Uzbek driver's license	DriverLicense_UZ	DriverLicense_UZ_TYPE1	Uzbek driver's license (UZ sign on the right on the background, front side)
		DriverLicense_UZ_TYPE2	
		DriverLicense_UZ_TYPE3	
Uzbek passport	InternationalPassport_UZ	InternationalPassport_UZ_TYPE1	Uzbek passport (UZB sign on the right, main page)
		InternationalPassport_UZ_TYPE2	Uzbek passport (the coat of arms of Uzbekistan on the background, main page)
Vietnamese driver's license	DriverLicense_VN	DriverLicense_VN_TYPE1	Vietnamese driver's license (a circle watermark on the bottom of personal photo , front side)

The following table lists field identifiers used in result data schemes returned by the Data Capture service.

Scheme	Field	Field description	Comments
Aadhaar_IN_TYPE1	Number	Aadhaar number	

Scheme	Field	Field description	Comments
AsylumResidencePermit_AT_RP_TYPE1	DateOfBirth	Document holder's date of birth	
	FirstName	Document holder's first name	
	LastName	Document holder's last name	
	Nationality	Document holder's nationality	
	Number	Document number	
	Sex	Document holder's sex	
BankCardEmbossed BankCardUnembossed	DateOfExpiry	Document expiry date	
	FirstName	Document holder's first name	
	Number	Primary document number	
BirthCertificate_RU_TYPE1	DateOfBirth	Document holder's birth date	
	DateOfBirth_FULL	Document holder's full birth date	
	DateOfIssue	Document issue date	
	DateOfIssue_2	Extra line of issue date	
	DayOfIssue	The day of issue day	

Scheme	Field	Field description	Comments
	DayOfIssue_2	Extra line of issue day	
	FatherFirstNameMiddleName	The first and the patronymic names of father	
	FatherLastName	Document holder's father last name	
	FatherNationality_1	Father nationality	
	FatherNationality_2	Father nationality, continued	
	FirstName	Document holder's first name	
	FirstNameMiddleName	Document holder's first name and patronymic	
	FullNumber	Full document number (series and number, including the number sign)	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	
	MiddleName	Document holder's patronymic name	
	MonthOfIssue	The month of issue	
	MonthOfIssue_2	The month of issue, continued	

Scheme	Field	Field description	Comments
	MotherFirstNameMiddle Name	The first and the patronymic names of mother	
	MotherLastName	Document holder's mother last name	
	MotherNationality_1	Mother nationality	
	MotherNationality_2	Mother nationality, continued	
	Number	Document number (not including the number sign)	
	NumberOfRecord	Number of record	
	PlaceOfBirth	Document holder's place of birth	
	Series	Document series (two Latin and two Cyrillic letters, separated by a hyphen)	
	Sex	Document holder's sex	
	YearOfIssue	The year of issue date	
	YearOfIssue_2	The year of issue date, continued	
BusinessCards	Name	Giver's name	
	Phone	Phone number	

Scheme	Field	Field description	Comments
	Fax	Fax number	
	Mobile	Cell phone number	
	Email	E-mail address	
	Web	Web address	
	Address	Mailing address	
	Company	Company name	
	Job	Job title	
	Text	Extra recognized text located on the card	
BorderCrossing_US_TYPE1 BorderCrossing_US_TYPE2	DateOfBirth	Document holder's birth date	
	DateOfExpiry	Card expiry date	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	LastName	Document holder's last name	
	Nationality	Document holder's nationality	In the BorderCrossing_US_TYPE2 scheme only
	Number	Document number	

Scheme	Field	Field description	Comments
	Sex	Document holder's sex	
CrewMember_ZA_T YPE1	DateOfBirth	Document holder's birth date	
	DateOfExpiry	Document expiry date	
	FirstName	Document holder's first name	
	LastName	Document holder's last name	
	Nationality	Document holder's nationality	
	Number	Document number	
	Sex	Document holder's sex	
DeathCertificate_R U_TYPE1	DateOfBirth	Dead person's full birth date	
	DateOfDeath	Date of death	
	DateOfIssue	Document issue date	
	DayOfBirth	Dead person's birth day	
	DayOfIssue	The day of issue date	
	FirstName	Dead person's first name	
	FirstNameMiddleName	Dead person's first name and patronymic	

Scheme	Field	Field description	Comments
	LastName	Dead person's last name	
	MiddleName	Dead person's patronymic name	
	MonthOfBirth	Dead person's month of birth	
	MonthOfIssue	The month of issue	
	Number	Document number	
	Series	Document series	
	YearOfBirth	Dead person's year of birth	
	YearOfIssue	The year of issue date	
DivorceCertificate_RU_TYPE1	DateOfBirth_1	Birth date of partner 1	
	DateOfBirth_2	Birth date of partner 2	
	DateOfDivorce	Date of divorce	
	DateOfIssue	Document issue date	
	DateOfVerdict	Date of verdict	
	FirstName_1	First name of partner 1	
	FirstName_2	First name of partner 2	
	FullNumber	Full document number (series and number, including the number)	

Scheme	Field	Field description	Comments
		sign)	
	IssuedToFirstName	Document holder's first name	
	IssuedToLastName	Document holder's last name	
	IssuedToMiddleName	Document holder's patronymic name	
	LastName_1	Last name of partner 1	
	LastName_2	Last name of partner 2	
	LastName_NEW	Document holder's new last name	
	MiddleName_1	Patronymic name of partner 1	
	MiddleName_2	Patronymic name of partner 2	
	Number	Document number	
	Series	Document series	
DriverLicense_AL_T YPE1	BloodType	Driver's blood type	
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	Document expiry date	
	DateOfIssue	Document issue date	

Scheme	Field	Field description	Comments
	FirstName	Driver's first name	
	LastName	Driver's last name	
	Number	License number	
	PlaceOfBirth	Driver's place of birth	
	Residence	Driver's residence	
DriverLicense_AM_TYPE1 DriverLicense_AM_TYPE2	Address	Driver's address	In the DriverLicense_AM_TYPE2 scheme only
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	Document expiry date	
	DateOfIssue	Document issue date	
	FirstName	Driver's first name in Russian	
	FirstName_EN	Driver's first name in English	
	IssuedBy	The authority that issued the license	
	IssuedBy_EN	The authority that issued the license in English	
	LastName	LastName in Russian	
	LastName_EN	Driver's last name in English	

Scheme	Field	Field description	Comments
	Nationality	Driver's nationality	
	Number	License number	
	PersonalCode	Driver's personal code	
	PlaceOfBirth	Driver's place of birth	
	PlaceOfBirth_EN	Driver's place of birth in English	In the DriverLicense_AM_TY PE2 scheme only
DriverLicense_AT_TYPE1 DriverLicense_AT_TYPE2	DVRNumber	Document DVR number	In the DriverLicense_AT_TY PE1 scheme only
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	Document expiry date	In the DriverLicense_AT_TY PE1 scheme only
	DateOfExpiry_A	License expiry date_A	In the DriverLicense_AT_TY PE1 scheme only
	DateOfExpiry_A1	License expiry date_A1	
	DateOfExpiry_A2	License expiry date_A2	
	DateOfExpiry_AM	License expiry date_AM	In the DriverLicense_AT_TY PE1 scheme only
	DateOfExpiry_B	License expiry date_B	
	DateOfExpiry_B1	License expiry date_B1	In the

Scheme	Field	Field description	Comments
			DriverLicense_AT_TY PE1 scheme only
	DateOfExpiry_BE	License expiry date_BE	
	DateOfExpiry_C	License expiry date_C	
	DateOfExpiry_C1	License expiry date_C1	
	DateOfExpiry_C1E	License expiry date_C1E	
	DateOfExpiry_CE	License expiry date_CE	
	DateOfExpiry_D	License expiry date_D	
	DateOfExpiry_D1	License expiry date_D1	In the DriverLicense_AT_TY PE1 scheme only
	DateOfExpiry_D1E	License expiry date_D1E	In the DriverLicense_AT_TY PE1 scheme only
	DateOfExpiry_DE	License expiry date_DE	
	DateOfIssue	Document issue date	
	DateOfIssue_A	License issue date_A	In the DriverLicense_AT_TY PE1 scheme only
	DateOfIssue_A1	License issue date_A1	
	DateOfIssue_A2	License issue date_A2	
	DateOfIssue_AM	License issue date_AM	In the

Scheme	Field	Field description	Comments
			DriverLicense_AT_TY PE1 scheme only
	DateOfIssue_B	License issue date_B	
	DateOfIssue_B1	License issue date_B1	In the DriverLicense_AT_TY PE1 scheme only
	DateOfIssue_BE	License issue date_BE	
	DateOfIssue_C	License issue date_C	
	DateOfIssue_C1	License issue date_C1	
	DateOfIssue_C1E	License issue date_C1E	
	DateOfIssue_CE	License issue date_CE	
	DateOfIssue_D	License issue date_D	
	DateOfIssue_D1	License issue date_D1	In the DriverLicense_AT_TY PE1 scheme only
	DateOfIssue_D1E	License issue date_D1E	In the DriverLicense_AT_TY PE1 scheme only
	DateOfIssue_DE	License issue date_DE	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	

Scheme	Field	Field description	Comments
	LastName	Driver's last name	
	Number	License number	
	Number_BACK	License number on the back side	In the DriverLicense_AT_TY PE1 scheme only
	PlaceOfBirth	Driver's place of birth	
DriverLicense_BE_T YPE1 DriverLicense_BE_T YPE2 DriverLicense_BE_T YPE3	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfExpiry_A	License expiry date_A	In the DriverLicense_BE_TYP E1 scheme only
	DateOfExpiry_A1	License expiry date_A1	Except the DriverLicense_BE_TYP E2 scheme
	DateOfExpiry_A2	License expiry date_A2	Except the DriverLicense_BE_TYP E2 scheme
	DateOfExpiry_AM	License expiry date_AM	In the DriverLicense_BE_TYP E1 scheme only
	DateOfExpiry_B	License expiry date_B	Except the DriverLicense_BE_TYP E2 scheme
	DateOfExpiry_BE	License expiry date_BE	Except the DriverLicense_BE_TYP E2 scheme

Scheme	Field	Field description	Comments
	DateOfExpiry_C	License expiry date_C	Except the DriverLicense_BE_TYP E2 scheme
	DateOfExpiry_C1	License expiry date_C1	Except the DriverLicense_BE_TYP E2 scheme
	DateOfExpiry_C1E	License expiry date_C1E	Except the DriverLicense_BE_TYP E2 scheme
	DateOfExpiry_CE	License expiry date_CE	Except the DriverLicense_BE_TYP E2 scheme
	DateOfExpiry_D	License expiry date_D	Except the DriverLicense_BE_TYP E2 scheme
	DateOfExpiry_D1	License expiry date_D1	Except the DriverLicense_BE_TYP E2 scheme
	DateOfExpiry_D1E	License expiry date_D1E	Except the DriverLicense_BE_TYP E2 scheme
	DateOfExpiry_DE	License expiry date_DE	Except the DriverLicense_BE_TYP E2 scheme
	DateOfIssue	License issue date	
	DateOfIssue_A	License issue date_A	In the DriverLicense_BE_TYP E1 scheme only
	DateOfIssue_A1	License issue date_A1	Except the DriverLicense_BE_TYP

Scheme	Field	Field description	Comments
			E2 scheme
	DateOfIssue_A2	License issue date_A2	Except the DriverLicense_BE_TYP E2 scheme
	DateOfIssue_AM	License issue date_AM	In the DriverLicense_BE_TYP E1 scheme only
	DateOfIssue_B	License issue date_B	Except the DriverLicense_BE_TYP E2 scheme
	DateOfIssue_BE	License issue date_BE	Except the DriverLicense_BE_TYP E2 scheme
	DateOfIssue_C	License issue date_C	Except the DriverLicense_BE_TYP E2 scheme
	DateOfIssue_C1	License issue date_C1	Except the DriverLicense_BE_TYP E2 scheme
	DateOfIssue_C1E	License issue date_C1E	Except the DriverLicense_BE_TYP E2 scheme
	DateOfIssue_CE	License issue date_CE	Except the DriverLicense_BE_TYP E2 scheme
	DateOfIssue_D	License issue date_D	Except the DriverLicense_BE_TYP E2 scheme
	DateOfIssue_D1	License issue date_D1	Except the DriverLicense_BE_TYP

Scheme	Field	Field description	Comments
			E2 scheme
	DateOfIssue_D1E	License issue date_D1E	Except the DriverLicense_BE_TYP E2 scheme
	DateOfIssue_DE	License issue date_DE	Except the DriverLicense_BE_TYP E2 scheme
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	In the DriverLicense_BE_TYP E3 scheme only
	LastName	Driver's last name	
	Number	License number	
	PlaceOfBirth	Driver's place of birth	
	PlaceOfIssue	Region where the license was issued	Except the DriverLicense_BE_TYP E3 scheme
DriverLicense_BG_T YPE1 DriverLicense_BG_T YPE2	Address	Driver's address	In the DriverLicense_BG_TY PE2 scheme only
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	

Scheme	Field	Field description	Comments
	FirstName_EN	Driver's first name in English	
	IssuedBy	The authority that issued the license	
	IssuedBy_EN	The authority that issued the license in English	In the DriverLicense_BG_TY PE2 scheme only
	LastName	Driver's last name	
	LastName_EN	Driver's last name in English	
	MiddleName	Driver's patronymic name	
	MiddleName_EN	Driver's patronymic name in English	
	Nationality	Driver's nationality	
	Nationality_EN	Document holder's nationality in English	
	Number	License number	
	PersonalCode	Driver's personal code	
	PlaceOfBirth	Driver's place of birth	
	PlaceOfBirth_EN	Driver's place of birth in English	
	Residence	Driver's place of residence	In the DriverLicense_BG_TY PE1 scheme only

Scheme	Field	Field description	Comments
	Residence_EN	Driver's residence in English	In the DriverLicense_BG_TY PE1 scheme only
	Sex	Driver's sex	
DriverLicense_BR_T YPE1	Address	Driver's address	
	CPF	Driver's CPF number	
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	IssuedByUF	The authority that issued the UF number	
	IssuedBy_LINE1	The second line of the authority name that issued the document	
	IssuedBy_LINE2	The third line of the authority name that issued the document	
	LICNumber	License number	
	Number	License number	

Scheme	Field	Field description	Comments
	Number_BACK	License number on the back side	
	PersonalCode	Driver's personal code	
	UF	Driver's UF number	
DriverLicense_BY_T YPE1 DriverLicense_BY_T YPE2	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	FirstName_EN	Driver's first name in English	
	IssuedBy	The authority that issued the license	In the DriverLicense_BY_TYP E1 scheme only
	IssuedBy_EN	The authority that issued the license in English	In the DriverLicense_BY_TYP E1 scheme only
	LastName	Driver's last name	
	LastName_EN	Driver's last name in English	
	MiddleName	Driver's patronymic name	
	Number	License number	
	PlaceOfBirth	Driver's place of birth	

Scheme	Field	Field description	Comments
	PlaceOfBirth_EN	Driver's place of birth in English	
	PlaceOfIssue_EN	Region where the license was issued in English	In the DriverLicense_BY_TYP E1 scheme only
	RegistrationPlace_EN	Region where the license was registered in English	In the DriverLicense_BY_TYP E2 scheme only
	RegistrationPlace_RU	Region where the license was registered in Russian	In the DriverLicense_BY_TYP E2 scheme only
	Series	Document series	In the DriverLicense_BY_TYP E2 scheme only
DriverLicense_CA_A B_TYPE1 DriverLicense_CA_A B_TYPE2 DriverLicense_CA_B C_TYPE1 DriverLicense_CA_B C_TYPE3 DriverLicense_CA_ MB_TYPE1 DriverLicense_CA_N B_TYPE1 DriverLicense_CA_N B_TYPE2 DriverLicense_CA_N L_TYPE1 DriverLicense_CA_N L_TYPE2 DriverLicense_CA_N S_TYPE1 DriverLicense_CA_N S_TYPE2 DriverLicense_CA_N S_TYPE3 DriverLicense_CA_N T_TYPE1	Address	Driver's address	

Scheme	Field	Field description	Comments
DriverLicense_CA_NU_TYPE1 DriverLicense_CA_ON_TYPE1 DriverLicense_CA_ON_TYPE2 DriverLicense_CA_P E_TYPE1 DriverLicense_CA_Q C_TYPE1 DriverLicense_CA_S K_TYPE1 DriverLicense_CA_T YPE1 DriverLicense_CA_Y T_TYPE1	City	Driver's city of living	Except the DriverLicense_CA_NS_TYPE2, DriverLicense_CA_NT_TYPE1, DriverLicense_CA_NU_TYPE1, DriverLicense_CA_P E_TYPE1, DriverLicense_CA_Q C_TYPE1, DriverLicense_CA_T YPE1 and DriverLicense_CA_YT_TYPE1 scheme
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	Except the DriverLicense_CA_ON_TYPE2 scheme
	DateOfIssue	License issue date	Except the DriverLicense_CA_ON_TYPE2 scheme
	Date_1	The first date	In the DriverLicense_CA_MB_TYPE1 scheme only
	Date_2	The second date	In the DriverLicense_CA_MB_TYPE1 scheme only
	DocumentType	Type of issued document	In the DriverLicense_CA_AB_TYPE1 and DriverLicense_CA_AB_TYPE2 scheme only
	Endorsements	License endorsements	Except the DriverLicense_CA_NS_TYPE2, DriverLicense_CA_ON_TYPE1 and

Scheme	Field	Field description	Comments
			DriverLicense_CA_TY PE1 scheme
	Eyes	Driver's eye color	Except the DriverLicense_CA_NS _TYPE2, DriverLicense_CA_O N_TYPE1 and DriverLicense_CA_O N_TYPE2 scheme
	Eyes_EN	Driver's eye color in English	Except the DriverLicense_CA_NS _TYPE2, DriverLicense_CA_O N_TYPE1 and DriverLicense_CA_O N_TYPE2 scheme
	FirstLicense	Driver's first license	In the DriverLicense_CA_PE_ TYPE1 scheme only
	FirstName	Driver's first name	
	FirstName_EN	Driver's first name in English	
	Hair	Driver's hair color	In the DriverLicense_CA_AB _TYPE1, DriverLicense_CA_AB _TYPE2, DriverLicense_CA_BC _TYPE1, DriverLicense_CA_BC _TYPE3, DriverLicense_CA_NT _TYPE1 and DriverLicense_CA_NU _TYPE1 scheme only
	Hair_EN	Driver's hair color in	In the

Scheme	Field	Field description	Comments
		English	DriverLicense_CA_AB_TYPE1, DriverLicense_CA_AB_TYPE2, DriverLicense_CA_BC_TYPE1, DriverLicense_CA_BC_TYPE3, DriverLicense_CA_NT_TYPE1 and DriverLicense_CA_NU_TYPE1 scheme only
	Height	Driver's height	Except the DriverLicense_CA_NS_TYPE2 scheme
	LICNumber	License number	In the DriverLicense_CA_MB_TYPE1, DriverLicense_CA_NB_TYPE1, DriverLicense_CA_NB_TYPE2, DriverLicense_CA_NL_TYPE1, DriverLicense_CA_NL_TYPE2, DriverLicense_CA_NS_TYPE1, DriverLicense_CA_NS_TYPE3, DriverLicense_CA_ON_TYPE1, DriverLicense_CA_PE_TYPE1 and DriverLicense_CA_QC_TYPE1 scheme only
	LastName	Driver's last name	Except the DriverLicense_CA_NS_TYPE2 and DriverLicense_CA_TYPE1 scheme
	LastName_EN	Driver's last name in	Except the

Scheme	Field	Field description	Comments
		English	DriverLicense_CA_NS_TYPE2 and DriverLicense_CA_TYPE1 scheme
	MiddleName	Driver's patronymic name	In the DriverLicense_CA_AB_TYPE1, DriverLicense_CA_AB_TYPE2, DriverLicense_CA_NB_TYPE1, DriverLicense_CA_NB_TYPE2, DriverLicense_CA_NL_TYPE1, DriverLicense_CA_NL_TYPE2, DriverLicense_CA_NS_TYPE1, DriverLicense_CA_ON_TYPE1, DriverLicense_CA_ON_TYPE2 and DriverLicense_CA_SK_TYPE1 scheme only
	NameSuffix	Driver's name suffix	In the DriverLicense_CA_AB_TYPE1, DriverLicense_CA_NL_TYPE1, DriverLicense_CA_NL_TYPE2 and DriverLicense_CA_NS_TYPE1 scheme only
	Number	License number	
	Number_BACK	License number on the back side	In the DriverLicense_CA_AB_TYPE2, DriverLicense_CA_BC_TYPE3 and DriverLicense_CA_SK_TYPE1 scheme only

Scheme	Field	Field description	Comments
	PersonalCode	Driver's personal code	In the DriverLicense_CA_NT_TYPE1, DriverLicense_CA_NU_TYPE1, DriverLicense_CA_SK_TYPE1 and DriverLicense_CA_TYPE1 scheme only
	PersonalHealthNumber	Driver's personal health number	In the DriverLicense_CA_BC_TYPE3 scheme only
	Restriction	Restriction for license	In the DriverLicense_CA_BC_TYPE3 scheme only
	Sex	Driver's sex	
	State	Driver's state	Except the DriverLicense_CA_NS_TYPE2, DriverLicense_CA_NT_TYPE1, DriverLicense_CA_NU_TYPE1, DriverLicense_CA_PE_TYPE1, DriverLicense_CA_TYPE1 and DriverLicense_CA_YT_TYPE1 scheme
	Weight	Driver's weight	In the DriverLicense_CA_AB_TYPE1, DriverLicense_CA_AB_TYPE2, DriverLicense_CA_BC_TYPE1, DriverLicense_CA_BC_TYPE3, DriverLicense_CA_NT_TYPE1 and

Scheme	Field	Field description	Comments
			DriverLicense_CA_NU_TYPE1 scheme only
	ZIP	ZIP code	Except the DriverLicense_CA_NS_TYPE2, DriverLicense_CA_NT_TYPE1, DriverLicense_CA_NU_TYPE1, DriverLicense_CA_PE_TYPE1, DriverLicense_CA_TYPE1 and DriverLicense_CA_YT_TYPE1 scheme
DriverLicense_CH_T YPE1	DateOfBirth	Driver's date of birth	
	DateOfBirth_MRZ	Driver's date of birth from MRZ	
	DateOfExpiry	License expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	FirstName_EN	Driver's first name in English	
	FirstName_MRZ	Driver's first name from MRZ	
	IssuedBy	The authority that issued the license	

Scheme	Field	Field description	Comments
	IssuedBy_EN	The authority that issued the license in English	
	LastName	Driver's last name	
	LastName_EN	Driver's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	License number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE1	Optional second line of MRZ	
	PlaceOfBirth	Driver's place of birth	
	PlaceOfBirth_EN	Driver's place of birth in English	

Scheme	Field	Field description	Comments
	Sex_MRZ	Document holder's from MRZ	
DriverLicense_CZ_T YPE1	Class	Vehicle class	
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfExpiry_A	License expiry date_A	
	DateOfExpiry_A1	License expiry date_A1	
	DateOfExpiry_A2	License expiry date_A2	
	DateOfExpiry_AM	License expiry date_AM	
	DateOfExpiry_B	License expiry date_B	
	DateOfExpiry_B1	License expiry date_B1	
	DateOfExpiry_BE	License expiry date_BE	
	DateOfExpiry_C	License expiry date_C	
	DateOfExpiry_C1	License expiry date_C1	
	DateOfExpiry_C1E	License expiry date_C1E	
	DateOfExpiry_CE	License expiry date_CE	
	DateOfExpiry_D	License expiry date_D	
DateOfExpiry_D1	License expiry date_D1		

Scheme	Field	Field description	Comments
	DateOfExpiry_D1E	License expiry date_D1E	
	DateOfExpiry_DE	License expiry date_DE	
	DateOfExpiry_T	License expiry date_T	
	DateOfIssue	License issue date	
	DateOfIssue_A	License issue date_A	
	DateOfIssue_A1	License issue date_A1	
	DateOfIssue_A2	License issue date_A2	
	DateOfIssue_AM	License issue date_AM	
	DateOfIssue_B	License issue date_B	
	DateOfIssue_B1	License issue date_B1	
	DateOfIssue_BE	License issue date_BE	
	DateOfIssue_C	License issue date_C	
	DateOfIssue_C1	License issue date_C1	
	DateOfIssue_C1E	License issue date_C1E	
	DateOfIssue_CE	License issue date_CE	
	DateOfIssue_D	License issue date_D	
	DateOfIssue_D1	License issue date_D1	

Scheme	Field	Field description	Comments
	DateOfIssue_D1E	License issue date_D1E	
	DateOfIssue_DE	License issue date_DE	
	DateOfIssue_T	License issue date_T	
	DriverID	Driver's personal identifier	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	LastName	Driver's last name	
	Number	License number	
	Number_BACK	License number on the back side	
	PlaceOfBirth	Driver's place of birth	
	Residence	Driver's residence	
DriverLicense_DE_T YPE1 DriverLicense_DE_T YPE2	Category	License category	In the DriverLicense_DE_TY PE1 scheme only
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	In the DriverLicense_DE_TY PE2 scheme only
	DateOfExpiry_A	License expiry date_A	In the

Scheme	Field	Field description	Comments
			DriverLicense_DE_TY PE2 scheme only
	DateOfExpiry_A1	License expiry date_A1	
	DateOfExpiry_A2	License expiry date_A2	In the DriverLicense_DE_TY PE2 scheme only
	DateOfExpiry_AM	License expiry date_AM	In the DriverLicense_DE_TY PE2 scheme only
	DateOfExpiry_A_LINE1	First line of expiry date_A	In the DriverLicense_DE_TY PE1 scheme only
	DateOfExpiry_A_LINE2	Second line of expiry date_A	In the DriverLicense_DE_TY PE1 scheme only
	DateOfExpiry_B	License expiry date_B	
	DateOfExpiry_B1	License expiry date_B1	In the DriverLicense_DE_TY PE2 scheme only
	DateOfExpiry_BE	License expiry date_BE	
	DateOfExpiry_C	License expiry date_C	
	DateOfExpiry_C1	License expiry date_C1	
	DateOfExpiry_C1E	License expiry date_C1E	
	DateOfExpiry_CE	License expiry date_CE	

Scheme	Field	Field description	Comments
	DateOfExpiry_D	License expiry date_D	
	DateOfExpiry_D1	License expiry date_D1	
	DateOfExpiry_D1E	License expiry date_D1E	
	DateOfExpiry_DE	License expiry date_DE	
	DateOfExpiry_L	License expiry date_L	
	DateOfExpiry_M	License expiry date_M	In the DriverLicense_DE_TY PE1 scheme only
	DateOfExpiry_T	License expiry date_T	In the DriverLicense_DE_TY PE2 scheme only
	DateOfExpiry_TS	License expiry date_TS	In the DriverLicense_DE_TY PE1 scheme only
	DateOfIssue	License issue date	
	DateOfIssue_A	License issue date_A	In the DriverLicense_DE_TY PE2 scheme only
	DateOfIssue_A1	License issue date_A1	
	DateOfIssue_A2	License issue date_A2	In the DriverLicense_DE_TY PE2 scheme only
	DateOfIssue_AM	License issue date_AM	In the DriverLicense_DE_TY PE2 scheme only

Scheme	Field	Field description	Comments
	DateOfIssue_A_LINE1	First line of issue date_A	In the DriverLicense_DE_TY PE1 scheme only
	DateOfIssue_A_LINE2	Second line of issue date_A	In the DriverLicense_DE_TY PE1 scheme only
	DateOfIssue_B	License issue date_B	
	DateOfIssue_B1	License issue date_B1	In the DriverLicense_DE_TY PE2 scheme only
	DateOfIssue_BE	License issue date_BE	
	DateOfIssue_C	License issue date_C	
	DateOfIssue_C1	License issue date_C1	
	DateOfIssue_C1E	License issue date_C1E	
	DateOfIssue_CE	License issue date_CE	
	DateOfIssue_D	License issue date_D	
	DateOfIssue_D1	License issue date_D1	
	DateOfIssue_D1E	License issue date_D1E	
	DateOfIssue_DE	License issue date_DE	
	DateOfIssue_L	License issue date_L	
	DateOfIssue_M	License issue date_M	In the DriverLicense_DE_TY

Scheme	Field	Field description	Comments
			PE1 scheme only
	DateOfIssue_T	License issue date_T	In the DriverLicense_DE_TY PE2 scheme only
	DateOfIssue_TS	License issue date_TS	In the DriverLicense_DE_TY PE1 scheme only
	FirstName	Driver's first name	
	LastName	Driver's last name	
	LastName_LINE2	Second line of the driver's last name	
	Number	License number	
	PlaceOfBirth	Driver's place of birth	
	PlaceOfIssue	Region where the license was issued	
	PlaceOfIssue_LINE2	Region where the license was issued, continued	
DriverLicense_ES_T YPE1	DateOfBirth	Driver's date of birth	
DriverLicense_ES_T YPE2	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued	

Scheme	Field	Field description	Comments
		the license	
	LastName	Driver's last name	
	Number	License number	
	PlaceOfBirth	Driver's place of birth	
DriverLicense_FL_TY PE1	Class	Vehicle class	
DriverLicense_FL_TY PE2	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	DriverID	Driver's personal identifier	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	LastName	Driver's last name	
	Nationality	Driver's nationality	
	Number	License number	
DriverLicense_GR_T YPE1	DateOfBirth	Driver's birth date	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	

Scheme	Field	Field description	Comments
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	LastName	Driver's last name	
	Number	License number	
	Number_BACK	License number on the back side	
	PersonalCode	Driver's personal code	
	PlaceOfBirth	Driver's place of birth	
DriverLicense_HR_T YPE1	Class	Vehicle class	
	DateOfBirth	Driver's birth date	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	LastName	Driver's last name	
	MRZ	Full contents of the machine-readable zone	
	Number	License number	

Scheme	Field	Field description	Comments
DriverLicense_HU_T YPE1	DateOfBirth	Driver's birth date	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	LastName	Driver's last name	
	Number	License number	
	PlaceOfBirth	Driver's place of birth	
DriverLicense_IL_TY PE1 DriverLicense_IL_TY PE2	Address	Driver's address	
	Class	Vehicle class	
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	DateOfIssue_A	License issue date_A	In the DriverLicense_IL_TYP E1 scheme only
	DateOfIssue_A1	License issue date_A1	In the DriverLicense_IL_TYP E1 scheme only

Scheme	Field	Field description	Comments
	DateOfIssue_A2	License issue date_A2	In the DriverLicense_IL_TYP E1 scheme only
	DateOfIssue_B	License issue date_B	In the DriverLicense_IL_TYP E1 scheme only
	DateOfIssue_C	License issue date_C	In the DriverLicense_IL_TYP E1 scheme only
	DateOfIssue_C1	License issue date_C1	In the DriverLicense_IL_TYP E1 scheme only
	DateOfIssue_D	License issue date_D	In the DriverLicense_IL_TYP E1 scheme only
	DateOfIssue_D1	License issue date_D1	In the DriverLicense_IL_TYP E1 scheme only
	DriverID	Driver's personal identifier	
	FirstName	Driver's first name	
	FirstName_EN	Driver's first name in English	
	LastName	Driver's last name	
	LastName_EN	Driver's last name in English	
	Number	License number	

Scheme	Field	Field description	Comments
	Number_BACK	License number on the back side	
	Number_EX	Secondary license number	
DriverLicense_IT_TY PE1 DriverLicense_IT_TY PE2	Address	Driver's address	In the DriverLicense_IT_TYP E2 scheme only
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	LastName	Driver's last name	
	Number	License number	
	PlaceOfBirth	Driver's place of birth	
DriverLicense_JP_TY PE1	Address	Driver's address	
	Color	Vehicle color	
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	

Scheme	Field	Field description	Comments
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	Number	License number	
	ReferenceNumber	Reference number	
DriverLicense_KG_T YPE1	Address	Driver's address	
	BloodType	Driver's blood type	
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	FirstName_EN	Driver's first name in English	
	IssuedBy	The authority that issued the license	
	IssuedBy_EN	The authority that issued the license in English	
	LastName	Driver's last name	
	LastName_EN	Driver's last name in English	

Scheme	Field	Field description	Comments
	MiddleName	Driver's patronymic name	
	Number	License number	
	PersonalCode	Document holder's personal code	
	PlaceOfBirth	Driver's place of birth	
	PlaceOfBirth_EN	Driver's place of birth in English	
	Residence	Driver's place of residence	
	Residence_EN	Driver's residence in English	
DriverLicense_KZ_T YPE1 DriverLicense_KZ_T YPE2	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	FirstNameMiddleName	Driver's first and patronymic names	In the DriverLicense_KZ_TY PE1 scheme only
	FirstName_EN	Driver's first name in English	
	IssuedBy	The authority that issued the license	In the DriverLicense_KZ_TY PE2 scheme only

Scheme	Field	Field description	Comments
	IssuedBy_EN	The authority that issued the license in English	In the DriverLicense_KZ_TY PE2 scheme only
	LastName	Driver's last name	
	LastName_EN	Driver's last name in English	
	MiddleName	Driver's patronymic name	
	Number	License number	
	PIN	License PIN	In the DriverLicense_KZ_TY PE2 scheme only
	PlaceOfBirth	Driver's place of birth	
	PlaceOfBirth_EN	Driver's place of birth in English	
	Residence	Driver's residence	In the DriverLicense_KZ_TY PE1 scheme only
	Residence_EN	Driver's residence in English	In the DriverLicense_KZ_TY PE1 scheme only
DriverLicense_LU_T YPE1	Class	Vehicle class	
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	

Scheme	Field	Field description	Comments
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	LastName	Driver's last name	
	Number	License number	
	PlaceOfBirth	Driver's place of birth	
	ReferenceNumber	Reference number	
DriverLicense_MD_TYPE1 DriverLicense_MD_TYPE2	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	LICNumber	License number	
	LastName	Driver's last name	
	Number	License number	
	PlaceOfBirth	Driver's place of birth	
	StateCode	Country code	
DriverLicense_NO_	Class	Vehicle class	

Scheme	Field	Field description	Comments
TYPE1 DriverLicense_NO_ TYPE2	DateOfBirth	Driver's birth date	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	Field_7	License seventh field	In the DriverLicense_NO_TY PE2 scheme only
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	LastName	Driver's last name	
	Number	License number	In the DriverLicense_NO_TY PE1 scheme only
	PersonalCode	Personal code	In the DriverLicense_NO_TY PE2 scheme only
	ReferenceNumber	Reference number	
DriverLicense_NZ_T YPE1 DriverLicense_NZ_T YPE2	DateOfBirth	Driver's birth date	
	DateOfIssue_2	Extra line of issue date	In the DriverLicense_NZ_TY PE2 scheme only
	FirstName	Driver's first name	
	FirstName_EN	Driver's first name in English	In the DriverLicense_NZ_TY

Scheme	Field	Field description	Comments
			PE2 scheme only
	LastName	Driver's last name	
	LastName_EN	Driver's last name in English	In the DriverLicense_NZ_TY PE2 scheme only
	Number	License number	
	Version	License version	In the DriverLicense_NZ_TY PE1 scheme only
DriverLicense_PL_T YPE1	Address	Driver's address	
DriverLicense_PL_T YPE2 DriverLicense_PL_T YPE3	Class	Vehicle class	In the DriverLicense_PL_TYP E3 scheme only
	DateOfBirth	License birth date	
	DateOfExpiry	License expiry date	
	DateOfExpiry_A	License expiry date_A	In the DriverLicense_PL_TYP E3 scheme only
	DateOfExpiry_A1	License expiry date_A1	In the DriverLicense_PL_TYP E3 scheme only
	DateOfExpiry_A2	License expiry date_A2	In the DriverLicense_PL_TYP E3 scheme only
	DateOfExpiry_AM	License expiry date_AM	In the DriverLicense_PL_TYP

Scheme	Field	Field description	Comments
			E3 scheme only
	DateOfExpiry_B	License expiry date_B	In the DriverLicense_PL_TYP E3 scheme only
	DateOfExpiry_B1	License expiry date_B1	In the DriverLicense_PL_TYP E3 scheme only
	DateOfExpiry_BE	License expiry date_BE	In the DriverLicense_PL_TYP E3 scheme only
	DateOfExpiry_C	License expiry date_C	In the DriverLicense_PL_TYP E3 scheme only
	DateOfExpiry_C1	License expiry date_C1	In the DriverLicense_PL_TYP E3 scheme only
	DateOfExpiry_C1E	License expiry date_C1E	In the DriverLicense_PL_TYP E3 scheme only
	DateOfExpiry_CE	License expiry date_CE	In the DriverLicense_PL_TYP E3 scheme only
	DateOfExpiry_D	License expiry date_D	In the DriverLicense_PL_TYP E3 scheme only
	DateOfExpiry_D1	License expiry date_D1	In the DriverLicense_PL_TYP E3 scheme only
	DateOfExpiry_D1E	License expiry date_D1E	In the DriverLicense_PL_TYP

Scheme	Field	Field description	Comments
			E3 scheme only
	DateOfExpiry_DE	License expiry date_DE	In the DriverLicense_PL_TYP E3 scheme only
	DateOfExpiry_T	License expiry date_T	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue	License issue date	
	DateOfIssue_A	License issue date_A	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_A1	License issue date_A1	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_A2	License issue date_A2	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_AM	License issue date_AM	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_B	License issue date_B	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_B1	License issue date_B1	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_BE	License issue date_BE	In the DriverLicense_PL_TYP E3 scheme only

Scheme	Field	Field description	Comments
	DateOfIssue_C	License issue date_C	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_C1	License issue date_C1	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_C1E	License issue date_C1E	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_CE	License issue date_CE	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_D	License issue date_D	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_D1	License issue date_D1	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_D1E	License issue date_D1E	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_DE	License issue date_DE	In the DriverLicense_PL_TYP E3 scheme only
	DateOfIssue_T	License issue date_T	In the DriverLicense_PL_TYP E3 scheme only
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	

Scheme	Field	Field description	Comments
	LastName	Driver's last name	
	Number	License number	
	NumberID	License ID number	
	Number_BACK	License number on the back side	
	PlaceOfBirth	Driver's place of birth	
DriverLicense_PT_T YPE1	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	DriverID	Driver's personal identifier	
	FirstName	Driver's first name	
	LastName	Driver's last name	
	Number	License number	
DriverLicense_RO_T YPE1	Class	Vehicle class	
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	

Scheme	Field	Field description	Comments
	IssuedBy	The authority that issued the license	
	LastName	Driver's last name	
	Number	License number	
	PersonalCode	Personal code	
	PlaceOfBirth	Driver's place of birth	
DriverLicense_RS_T YPE1	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	LastName	Driver's last name	
	Number	License number	
DriverLicense_RU_T YPE1 DriverLicense_RU_T YPE2 DriverLicense_RU_T YPE3	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	FirstNameMiddleName	Driver's first and patronymic names	In the DriverLicense_RU_TY PE1 scheme only

Scheme	Field	Field description	Comments
	FirstName_EN	Driver's first name in English	
	IssuedBy	The authority that issued the license	Except the DriverLicense_RU_TY PE2 scheme
	IssuedBy_EN	The authority that issued the license in English	Except the DriverLicense_RU_TY PE2 scheme
	LastName	Driver's last name	
	LastName_EN	Driver's last name in English	
	MiddleName	Driver's patronymic name	
	MiddleName_EN	Driver's patronymic name in English	In the DriverLicense_RU_TY PE1 scheme only
	Number	License number	
	Number2_BACK	Secondary license number on the back side	In the DriverLicense_RU_TY PE3 scheme only
	Number_BACK	License number on the back side	Except the DriverLicense_RU_TY PE2 scheme
	Number_EX	Secondary license number	In the DriverLicense_RU_TY PE3 scheme only
	PlaceOfBirth	Driver's place of birth	

Scheme	Field	Field description	Comments
	PlaceOfBirth_EN	Driver's place of birth in English	
	Residence	Driver's region of residence	
	Residence_EN	Driver's residence in English	
	Sex	Driver's sex	
DriverLicense_SE_T YPE1 DriverLicense_SE_T YPE2	Class	Vehicle class	
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	DriverID	Driver's personal identifier	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	LastName	Driver's last name	
	Number	License number	
DriverLicense_SI_TY PE1 DriverLicense_SI_TY PE2	Address	Driver's address	
	DateOfBirth	Driver's date of birth	

Scheme	Field	Field description	Comments
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	LastName	Driver's last name	
	Nationality	Driver's nationality	
	Number	License number	
	Number_BACK	License number on the back side	
	PersonalCode	Personal code	
	PlaceOfBirth	Driver's place of birth	
DriverLicense_SK_T YPE1 DriverLicense_SK_T YPE2 DriverLicense_SK_T YPE3 DriverLicense_SK_T YPE4	Class	Vehicle class	In the DriverLicense_SK_TY PE1 scheme only
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	

Scheme	Field	Field description	Comments
	LastName	Driver's last name	
	MRZ	Full contents of the machine-readable zone	Except the DriverLicense_SK_TY PE2 scheme
	MotherFirstName	Document holder's mother first name	In the DriverLicense_SK_TY PE4 scheme only
	Number	License number	
	PersonalCode	Personal code	In the DriverLicense_SK_TY PE2 scheme only
	PlaceOfBirth	Driver's place of birth	
DriverLicense_TR_T YPE1 DriverLicense_TR_T YPE2	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	DriverID	Driver's personal identifier	In the DriverLicense_TR_TY PE1 scheme only
	Father	Driver's father	In the DriverLicense_TR_TY PE2 scheme only
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	

Scheme	Field	Field description	Comments
	LastName	Driver's last name	
	Locality	Driver's locality	In the DriverLicense_TR_TY PE2 scheme only
	Mother	Driver's mother	In the DriverLicense_TR_TY PE2 scheme only
	Number	License number	
	Number_1	The first license number	In the DriverLicense_TR_TY PE2 scheme only
	Number_3	The third license number	In the DriverLicense_TR_TY PE2 scheme only
	Number_EX	The second license number	In the DriverLicense_TR_TY PE2 scheme only
	PersonalCode	Driver's personal code	In the DriverLicense_TR_TY PE2 scheme only
	PlaceOfBirth	Driver's place of birth	
	PlaceOfIssue	Region where the license was issued	In the DriverLicense_TR_TY PE2 scheme only
	ProvinceOfIssue	Province where the license was issued	In the DriverLicense_TR_TY PE2 scheme only
DriverLicense_UA_T	Address	Driver's address	In the

Scheme	Field	Field description	Comments
YPE1 DriverLicense_UA_T YPE2 DriverLicense_UA_T YPE3 DriverLicense_UA_T YPE4			DriverLicense_UA_TY PE3 and DriverLicense_UA_TY PE4 scheme only
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	In the DriverLicense_UA_TY PE1 and DriverLicense_UA_TY PE2 scheme only
	DateOfIssue	License issue date	
	FirstName	Driver's first name	
	FirstName_EN	Driver's first name in English	
	IssuedBy	The authority that issued the license	
	IssuedBy_EN	The authority that issued the license in English	In the DriverLicense_UA_TY PE1 scheme only
	LastName	Driver's last name	
	LastName_EN	Driver's last name in English	
	MiddleName	Driver's patronymic name	
	Number	License number	
	PlaceOfBirth	Driver's place of birth	

Scheme	Field	Field description	Comments
	PlaceOfBirth_EN	Driver's place of birth in English	In the DriverLicense_UA_TY PE1 and DriverLicense_UA_TY PE2 scheme only
DriverLicense_UK_PROVISIONAL_TYPE1 DriverLicense_UK_PROVISIONAL_TYPE2 DriverLicense_UK_PROVISIONAL_TYPE3 DriverLicense_UK_TYPE1 DriverLicense_UK_TYPE2 DriverLicense_UK_TYPE3	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	DatesOfIssueAndExpiry	License issue date and expiry date	In the DriverLicense_UK_PROVISIONAL_TYPE3 and DriverLicense_UK_TYPE3 scheme only
	FirstName	Driver's first name	
	IssuedBy	The authority that issued the license	
	LastName	Driver's last name	
	Number	License number	
	PlaceOfBirth	Driver's place of birth	
	Residence	Driver's place of residence	
DriverLicense_US_AK_TYPE1 DriverLicense_US_AK_TYPE2 DriverLicense_US_AK_TYPE3	Address	Driver's address	

Scheme	Field	Field description	Comments
DriverLicense_US_AK_TYPE4 DriverLicense_US_AL_TYPE1 DriverLicense_US_AL_TYPE2 DriverLicense_US_AR_TYPE1 DriverLicense_US_AR_TYPE2 DriverLicense_US_AR_TYPE3 DriverLicense_US_AR_TYPE4 DriverLicense_US_AZ_TYPE1 DriverLicense_US_AZ_TYPE2 DriverLicense_US_AZ_TYPE3 DriverLicense_US_CA_TYPE1 DriverLicense_US_CA_TYPE2 DriverLicense_US_CA_TYPE3 DriverLicense_US_CA_TYPE4 DriverLicense_US_CO_TYPE1 DriverLicense_US_CO_TYPE2 DriverLicense_US_CO_TYPE3 DriverLicense_US_CO_TYPE4 DriverLicense_US_CT_TYPE1 DriverLicense_US_CT_TYPE2 DriverLicense_US_CT_TYPE3 DriverLicense_US_CT_TYPE4 DriverLicense_US_CT_TYPE5 DriverLicense_US_DC_TYPE1 DriverLicense_US_DC_TYPE2	Address_0	Driver's address, continued	In the DriverLicense_US_FL_TYPE3 scheme only

Scheme	Field	Field description	Comments
DriverLicense_US_DC_TYPE3 DriverLicense_US_DE_TYPE1 DriverLicense_US_FL_TYPE1 DriverLicense_US_FL_TYPE2 DriverLicense_US_FL_TYPE3 DriverLicense_US_FL_TYPE4 DriverLicense_US_GA_TYPE1 DriverLicense_US_GA_TYPE2 DriverLicense_US_GA_TYPE3 DriverLicense_US_HI_TYPE1 DriverLicense_US_HI_TYPE2 DriverLicense_US_IA_TYPE1 DriverLicense_US_IA_TYPE2 DriverLicense_US_IA_TYPE3 DriverLicense_US_ID_TYPE1 DriverLicense_US_ID_TYPE2 DriverLicense_US_ID_TYPE3 DriverLicense_US_IL_TYPE1 DriverLicense_US_IL_TYPE2 DriverLicense_US_IL_TYPE3 DriverLicense_US_IL_TYPE4 DriverLicense_US_IL_TYPE5 DriverLicense_US_IN_TYPE1 DriverLicense_US_IN_TYPE2 DriverLicense_US_IN_TYPE3	Address_1	Driver's address, continued	In the DriverLicense_US_FL_TYPE3 scheme only

Scheme	Field	Field description	Comments
DriverLicense_US_K S_TYPE1 DriverLicense_US_K S_TYPE2 DriverLicense_US_K S_TYPE3 DriverLicense_US_K S_TYPE4 DriverLicense_US_K S_TYPE5 DriverLicense_US_K Y_TYPE1 DriverLicense_US_K Y_TYPE2 DriverLicense_US_L A_TYPE1 DriverLicense_US_L A_TYPE2 DriverLicense_US_L A_TYPE3 DriverLicense_US_ MA_TYPE1 DriverLicense_US_ MA_TYPE2 DriverLicense_US_ MA_TYPE3 DriverLicense_US_ MA_TYPE4 DriverLicense_US_ MA_TYPE5 DriverLicense_US_ MD_TYPE1 DriverLicense_US_ MD_TYPE2 DriverLicense_US_ ME_TYPE1 DriverLicense_US_ ME_TYPE3 DriverLicense_US_ MI_TYPE1 DriverLicense_US_ MI_TYPE2 DriverLicense_US_ MI_TYPE3 DriverLicense_US_ MN_TYPE1 DriverLicense_US_ MO_TYPE1 DriverLicense_US_ MO_TYPE2	Address_FULL	Driver's full address	

Scheme	Field	Field description	Comments
DriverLicense_US_MO_TYPE3 DriverLicense_US_MS_TYPE1 DriverLicense_US_MS_TYPE2 DriverLicense_US_MS_TYPE3 DriverLicense_US_MT_TYPE1 DriverLicense_US_MT_TYPE2 DriverLicense_US_NC_TYPE1 DriverLicense_US_NC_TYPE2 DriverLicense_US_NC_TYPE3 DriverLicense_US_NC_TYPE4 DriverLicense_US_ND_TYPE1 DriverLicense_US_ND_TYPE2 DriverLicense_US_NE_TYPE1 DriverLicense_US_NE_TYPE2 DriverLicense_US_NH_TYPE1 DriverLicense_US_NH_TYPE2 DriverLicense_US_NH_TYPE3 DriverLicense_US_NJ_TYPE1 DriverLicense_US_NJ_TYPE2 DriverLicense_US_NM_TYPE1 DriverLicense_US_NM_TYPE2 DriverLicense_US_NV_TYPE1 DriverLicense_US_NV_TYPE2 DriverLicense_US_NV_TYPE3 DriverLicense_US_NY_TYPE1	Allergies	Driver's allergies	In the DriverLicense_US_VI_TYPE1 scheme only

Scheme	Field	Field description	Comments
DriverLicense_US_N Y_TYPE2 DriverLicense_US_N Y_TYPE3 DriverLicense_US_N Y_TYPE4 DriverLicense_US_O H_TYPE1 DriverLicense_US_O H_TYPE2 DriverLicense_US_O H_TYPE3 DriverLicense_US_O H_TYPE4 DriverLicense_US_O K_TYPE1 DriverLicense_US_O K_TYPE2 DriverLicense_US_O K_TYPE3 DriverLicense_US_O R_TYPE1 DriverLicense_US_O R_TYPE2 DriverLicense_US_P A_TYPE1 DriverLicense_US_P A_TYPE2 DriverLicense_US_P A_TYPE3 DriverLicense_US_P A_TYPE4 DriverLicense_US_R I_TYPE1 DriverLicense_US_R I_TYPE2 DriverLicense_US_S C_TYPE1 DriverLicense_US_S C_TYPE2 DriverLicense_US_S C_TYPE3 DriverLicense_US_S C_TYPE4 DriverLicense_US_S C_TYPE5 DriverLicense_US_S C_TYPE6 DriverLicense_US_S D_TYPE1	Audit	License's audit number	In the DriverLicense_US_LA_ TYPE1, DriverLicense_US_LA_ TYPE2 and DriverLicense_US_LA_ TYPE3 scheme only

Scheme	Field	Field description	Comments
DriverLicense_US_S D_TYPE2 DriverLicense_US_T N_TYPE1 DriverLicense_US_T N_TYPE2 DriverLicense_US_T N_TYPE3 DriverLicense_US_T X_TYPE1 DriverLicense_US_T X_TYPE2 DriverLicense_US_T X_TYPE3 DriverLicense_US_T X_TYPE4 DriverLicense_US_U T_TYPE1 DriverLicense_US_U T_TYPE2 DriverLicense_US_U T_TYPE3 DriverLicense_US_U T_TYPE4 DriverLicense_US_V A_TYPE1 DriverLicense_US_V A_TYPE2 DriverLicense_US_V A_TYPE3 DriverLicense_US_V A_TYPE4 DriverLicense_US_V A_TYPE5 DriverLicense_US_V I_TYPE1 DriverLicense_US_V T_TYPE1 DriverLicense_US_V T_TYPE2 DriverLicense_US_V T_TYPE3 DriverLicense_US_ WA_TYPE1 DriverLicense_US_ WA_TYPE2 DriverLicense_US_ WA_TYPE3 DriverLicense_US_ WI_TYPE1	BloodType	Driver's blood type	In the DriverLicense_US_VI_ TYPE1 scheme only

Scheme	Field	Field description	Comments
DriverLicense_US_WI_TYPE2 DriverLicense_US_WI_TYPE3 DriverLicense_US_WI_TYPE4 DriverLicense_US_WI_TYPE5 DriverLicense_US_WI_TYPE6 DriverLicense_US_WV_TYPE1 DriverLicense_US_WY_TYPE1 DriverLicense_US_WY_TYPE2	CDL	Class of CDL License	In the DriverLicense_US_KY_TYPE1 and DriverLicense_US_KY_TYPE2 scheme only
	CSC	License's two-dimensional bar codes	In the DriverLicense_US_GA_TYPE3 scheme only
	City	Driver's city of living	
	Class	Vehicle class	In the DriverLicense_US_FL_TYPE3 and DriverLicense_US_MI_TYPE3 scheme only
	Class_1	Vehicle class, continued	In the DriverLicense_US_FL_TYPE3 scheme only
	Community	Driver's community	In the DriverLicense_US_GA_TYPE1 and DriverLicense_US_GA_TYPE2 scheme only
	County	Driver's county	In the DriverLicense_US_GA_TYPE3 scheme only
	DD	License's document discriminator	In the DriverLicense_US_CT_TYPE1, DriverLicense_US_CT_TYPE2, DriverLicense_US_DC_TYPE1 and DriverLicense_US_ME_TYPE3 scheme only

Scheme	Field	Field description	Comments
	DateOfBirth	Driver's date of birth	
	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	Except the DriverLicense_US_NH_TYPE1 scheme
	DocumentType	Type of issued document	In the DriverLicense_US_CO_TYPE1, DriverLicense_US_CO_TYPE2, DriverLicense_US_CO_TYPE3, DriverLicense_US_CO_TYPE4, DriverLicense_US_GA_TYPE3, DriverLicense_US_IL_TYPE1, DriverLicense_US_IL_TYPE2, DriverLicense_US_IL_TYPE3, DriverLicense_US_IL_TYPE4, DriverLicense_US_IL_TYPE5, DriverLicense_US_KY_TYPE1, DriverLicense_US_KY_TYPE2, DriverLicense_US_LA_TYPE3, DriverLicense_US_MD_TYPE2, DriverLicense_US_ME_TYPE3, DriverLicense_US_MI_TYPE1, DriverLicense_US_MI_TYPE2 and DriverLicense_US_MI_TYPE3 scheme only

Scheme	Field	Field description	Comments
	Duplicate	License duplicate	In the DriverLicense_US_FL_TYPE1, DriverLicense_US_FL_TYPE3 and DriverLicense_US_FL_TYPE4 scheme only
	DuplicateNumber	License duplicate number	In the DriverLicense_US_AK_TYPE1, DriverLicense_US_AK_TYPE2, DriverLicense_US_AK_TYPE3 and DriverLicense_US_AK_TYPE4 scheme only
	Endorsements	License endorsements	Except the DriverLicense_US_AZ_TYPE3, DriverLicense_US_IL_TYPE3, DriverLicense_US_LA_TYPE3, DriverLicense_US_MA_TYPE3, DriverLicense_US_MD_TYPE1, DriverLicense_US_MD_TYPE2, DriverLicense_US_MN_TYPE1, DriverLicense_US_NH_TYPE1, DriverLicense_US_TN_TYPE2 and DriverLicense_US_TX_TYPE4 scheme
	Eyes	Driver's eyes color	Except the DriverLicense_US_FL_TYPE1, DriverLicense_US_FL_TYPE2, DriverLicense_US_FL_TYPE3,

Scheme	Field	Field description	Comments
			DriverLicense_US_FL_TYPE4, DriverLicense_US_GA_TYPE3, DriverLicense_US_MA_TYPE1, DriverLicense_US_MA_TYPE2, DriverLicense_US_MA_TYPE3, DriverLicense_US_MA_TYPE4, DriverLicense_US_MA_TYPE5, DriverLicense_US_MD_TYPE1, DriverLicense_US_MD_TYPE2, DriverLicense_US_MS_TYPE1, DriverLicense_US_OR_TYPE1, DriverLicense_US_OR_TYPE2, DriverLicense_US_SC_TYPE1, DriverLicense_US_SC_TYPE2, DriverLicense_US_SC_TYPE3, DriverLicense_US_SC_TYPE4, DriverLicense_US_VA_TYPE1 and DriverLicense_US_VA_TYPE4 scheme
	Fee	License fee	In the DriverLicense_US_GA_TYPE3 scheme only
	Field_10	Field_10	In the DriverLicense_US_FL_TYPE1 scheme only
	Field_11	Field_11	In the DriverLicense_US_FL_

Scheme	Field	Field description	Comments
			TYPE1 scheme only
	Field_12	Field_12	In the DriverLicense_US_FL_TYPE1 scheme only
	FirstIssue	License's first Issue	In the DriverLicense_US_OR_TYPE1, DriverLicense_US_OR_TYPE2 and DriverLicense_US_SD_TYPE1 scheme only
	FirstName	Driver's first name	
	FirstName_EN	Driver's first name in English	
	FullName	Driver's full name	In the DriverLicense_US_DC_TYPE1 and DriverLicense_US_MI_TYPE1 scheme only
	Hair	Driver's hair color	In the DriverLicense_US_AK_TYPE1, DriverLicense_US_AK_TYPE2, DriverLicense_US_AK_TYPE3, DriverLicense_US_AK_TYPE4, DriverLicense_US_AL_TYPE1, DriverLicense_US_AL_TYPE2, DriverLicense_US_AZ_TYPE1, DriverLicense_US_AZ_TYPE2, DriverLicense_US_AZ_TYPE3,

Scheme	Field	Field description	Comments
			DriverLicense_US_CA_TYPE1, DriverLicense_US_CA_TYPE2, DriverLicense_US_CA_TYPE3, DriverLicense_US_CA_TYPE4, DriverLicense_US_CO_TYPE2, DriverLicense_US_CO_TYPE3, DriverLicense_US_CO_TYPE4, DriverLicense_US_CT_TYPE1, DriverLicense_US_CT_TYPE2, DriverLicense_US_HI_TYPE1, DriverLicense_US_ID_TYPE1, DriverLicense_US_ID_TYPE2, DriverLicense_US_ID_TYPE3, DriverLicense_US_IN_TYPE1, DriverLicense_US_IN_TYPE2, DriverLicense_US_IN_TYPE3, DriverLicense_US_ME_TYPE1, DriverLicense_US_ME_TYPE3, DriverLicense_US_NC_TYPE1, DriverLicense_US_NC_TYPE2, DriverLicense_US_NC_TYPE3, DriverLicense_US_NC_TYPE4, DriverLicense_US_ND_TYPE1, DriverLicense_US_ND_TYPE2, DriverLicense_US_NE_TYPE1,

Scheme	Field	Field description	Comments
			DriverLicense_US_NE_TYPE2, DriverLicense_US_NH_TYPE1, DriverLicense_US_NH_TYPE2, DriverLicense_US_NH_TYPE3, DriverLicense_US_NV_TYPE1, DriverLicense_US_NV_TYPE2, DriverLicense_US_NV_TYPE3, DriverLicense_US_NY_TYPE2, DriverLicense_US_NY_TYPE3, DriverLicense_US_OH_TYPE1, DriverLicense_US_OH_TYPE2, DriverLicense_US_RI_TYPE2, DriverLicense_US_SD_TYPE1, DriverLicense_US_SD_TYPE2, DriverLicense_US_TX_TYPE4, DriverLicense_US_UT_TYPE1, DriverLicense_US_UT_TYPE2, DriverLicense_US_UT_TYPE3, DriverLicense_US_UT_TYPE4, DriverLicense_US_VA_TYPE3, DriverLicense_US_VI_TYPE1, DriverLicense_US_WI_TYPE1, DriverLicense_US_WI_TYPE2, DriverLicense_US_WI_TYPE3, DriverLicense_US_WI_TYPE4,

Scheme	Field	Field description	Comments
			DriverLicense_US_WI_TYPE5, DriverLicense_US_WI_TYPE6 and DriverLicense_US_WY_TYPE2 scheme only
	Height	Driver's height	
	IssuedBy	The authority that issued the license	In the DriverLicense_US_SC_TYPE1 and DriverLicense_US_SC_TYPE2 scheme only
	LICNumber	License number	Except the DriverLicense_US_AK_TYPE1, DriverLicense_US_AK_TYPE2, DriverLicense_US_AK_TYPE3, DriverLicense_US_AK_TYPE4, DriverLicense_US_AL_TYPE1, DriverLicense_US_AL_TYPE2, DriverLicense_US_AR_TYPE1, DriverLicense_US_AR_TYPE2, DriverLicense_US_AR_TYPE3, DriverLicense_US_AZ_TYPE3, DriverLicense_US_CO_TYPE1, DriverLicense_US_CO_TYPE4, DriverLicense_US_CT_TYPE1, DriverLicense_US_CT_TYPE2, DriverLicense_US_CT_TYPE5, DriverLicense_US_DC

Scheme	Field	Field description	Comments
			_TYPE1, DriverLicense_US_DE _TYPE1, DriverLicense_US_FL_ TYPE1, DriverLicense_US_GA _TYPE3, DriverLicense_US_HI_ TYPE1, DriverLicense_US_ID_ TYPE1, DriverLicense_US_IL_ TYPE2, DriverLicense_US_IL_ TYPE3, DriverLicense_US_IL_ TYPE4, DriverLicense_US_KS _TYPE5, DriverLicense_US_LA_ TYPE1, DriverLicense_US_LA_ TYPE2, DriverLicense_US_LA_ TYPE3, DriverLicense_US_M A_TYPE3, DriverLicense_US_M D_TYPE1, DriverLicense_US_M D_TYPE2, DriverLicense_US_ME _TYPE1, DriverLicense_US_ME _TYPE3, DriverLicense_US_M N_TYPE1, DriverLicense_US_M O_TYPE2, DriverLicense_US_MS _TYPE1, DriverLicense_US_MS _TYPE3, DriverLicense_US_MT _TYPE1, DriverLicense_US_NC _TYPE1, DriverLicense_US_NC _TYPE4, DriverLicense_US_ND

Scheme	Field	Field description	Comments
			_TYPE1, DriverLicense_US_NH _TYPE1, DriverLicense_US_NV _TYPE3, DriverLicense_US_NY _TYPE1, DriverLicense_US_NY _TYPE2, DriverLicense_US_NY _TYPE3, DriverLicense_US_NY _TYPE4, DriverLicense_US_OH _TYPE1, DriverLicense_US_OH _TYPE2, DriverLicense_US_OK _TYPE1, DriverLicense_US_OK _TYPE2, DriverLicense_US_OK _TYPE3, DriverLicense_US_OR _TYPE1, DriverLicense_US_OR _TYPE2, DriverLicense_US_PA _TYPE1, DriverLicense_US_PA _TYPE2, DriverLicense_US_RI TYPE1, DriverLicense_US_SC _TYPE1, DriverLicense_US_SC _TYPE2, DriverLicense_US_SC _TYPE3, DriverLicense_US_SC _TYPE4, DriverLicense_US_SD _TYPE1, DriverLicense_US_VA _TYPE1, DriverLicense_US_VA _TYPE2, DriverLicense_US_VA _TYPE3, DriverLicense_US_VA

Scheme	Field	Field description	Comments
			_TYPE4, DriverLicense_US_VT _TYPE2, DriverLicense_US_WI _TYPE1 and DriverLicense_US_WY _TYPE1 scheme
	LastName	Driver's last name	
	LastName_EN	Driver's last name in English	
	MiddleName	Driver's patronymic name	
	NameSuffix	Driver's name suffix	Except the DriverLicense_US_IL_ TYPE5 scheme
	Nationality	Driver's nationality	In the DriverLicense_US_NC _TYPE2, DriverLicense_US_NC _TYPE3 and DriverLicense_US_NC _TYPE4 scheme only
	Number	License number	
	Number_EX	Secondary license number	In the DriverLicense_US_WY _TYPE2 scheme only
	Office	Office number	In the DriverLicense_US_LA_ TYPE1, DriverLicense_US_LA_ TYPE2 and DriverLicense_US_LA_ TYPE3 scheme only

Scheme	Field	Field description	Comments
	Parish	Parish number	In the DriverLicense_US_LA_TYPE1, DriverLicense_US_LA_TYPE2 and DriverLicense_US_LA_TYPE3 scheme only
	RegistrationType	License registration type	In the DriverLicense_US_TX_TYPE4 scheme only
	Restriction	Restriction for license	In the DriverLicense_US_DC_TYPE1 scheme only
	SSN	Social security number	In the DriverLicense_US_LA_TYPE3 scheme only
	Sex	Driver's sex	
	State	Driver's state	
	Weight	Driver's weight	Except the DriverLicense_US_AR_TYPE1, DriverLicense_US_AR_TYPE2, DriverLicense_US_AR_TYPE3, DriverLicense_US_AR_TYPE4, DriverLicense_US_CT_TYPE3, DriverLicense_US_CT_TYPE4, DriverLicense_US_CT_TYPE5, DriverLicense_US_FL_TYPE1, DriverLicense_US_FL_TYPE2, DriverLicense_US_FL_

Scheme	Field	Field description	Comments
			TYPE3, DriverLicense_US_FL_ TYPE4, DriverLicense_US_IA_ TYPE1, DriverLicense_US_IA_ TYPE2, DriverLicense_US_IA_ TYPE3, DriverLicense_US_KY_ _TYPE1, DriverLicense_US_KY_ _TYPE2, DriverLicense_US_M A_TYPE1, DriverLicense_US_M A_TYPE2, DriverLicense_US_M A_TYPE3, DriverLicense_US_M A_TYPE4, DriverLicense_US_M A_TYPE5, DriverLicense_US_MI_ _TYPE1, DriverLicense_US_MI_ _TYPE2, DriverLicense_US_MI_ _TYPE3, DriverLicense_US_MS_ _TYPE2, DriverLicense_US_NC_ _TYPE1, DriverLicense_US_NC_ _TYPE2, DriverLicense_US_NC_ _TYPE3, DriverLicense_US_NC_ _TYPE4, DriverLicense_US_ND_ _TYPE2, DriverLicense_US_NJ_ _TYPE1, DriverLicense_US_NJ_ _TYPE2, DriverLicense_US_NY_ _TYPE1, DriverLicense_US_NY_ _TYPE4, DriverLicense_US_OH

Scheme	Field	Field description	Comments
			_TYPE3, DriverLicense_US_OH _TYPE4, DriverLicense_US_PA _TYPE1, DriverLicense_US_PA _TYPE2, DriverLicense_US_PA _TYPE3, DriverLicense_US_PA _TYPE4, DriverLicense_US_TN _TYPE1, DriverLicense_US_TN _TYPE2, DriverLicense_US_TN _TYPE3, DriverLicense_US_TX _TYPE1, DriverLicense_US_TX _TYPE2, DriverLicense_US_TX _TYPE3, DriverLicense_US_VA _TYPE1, DriverLicense_US_VA _TYPE2, DriverLicense_US_VA _TYPE4 and DriverLicense_US_VA _TYPE5 scheme
	ZIP	ZIP code	
DriverLicense_UZ_T YPE1	Address	Driver's address	
DriverLicense_UZ_T YPE2	DateOfBirth	Driver's date of birth	
DriverLicense_UZ_T YPE3	DateOfExpiry	License expiry date	
	DateOfIssue	License issue date	
	DateOfIssue_BACK	License issue date on the back side	In the DriverLicense_UZ_TY

Scheme	Field	Field description	Comments
			PE1 scheme only
	FirstName	Driver's first name	
	FirstName_EN	Driver's first name in English	
	IssuedBy	The authority that issued the license	
	IssuedBy_EN	The authority that issued the license in English	Except the DriverLicense_UZ_TY PE3 scheme
	LastName	Driver's last name	
	LastName_EN	Driver's last name in English	
	MiddleName	Driver's patronymic name	Except the DriverLicense_UZ_TY PE3 scheme
	MiddleName_EN	Driver's patronymic name in English	Except the DriverLicense_UZ_TY PE3 scheme
	Number	License number	
	PersonalCode	Driver's personal code	In the DriverLicense_UZ_TY PE2 scheme only
	PlaceOfBirth	Driver's place of birth	
	PlaceOfBirth_EN	Driver's place of birth in English	Except the DriverLicense_UZ_TY PE3 scheme

Scheme	Field	Field description	Comments
DriverLicense_VN_T YPE1	Class	Vehicle class	
	DateOfBirth	Driver's date of birth	
	FirstName	Driver's first name	
	Nationality	Driver's nationality	
	Number	License number	
GreenCard_US_TYP E1	Category	Category of residency	
	DateOfBirth	Document holder's birth date	
	DateOfExpiry	Document expiry date	
	FirstName	Document holder's first name	
	LastName	Document holder's last name	
	Number	Document number	
	ResidentSince	The residency start date	
	Sex	Document holder's sex	
HealthInsurance_JP _TYPE1	DateOfBirth	Driver's date of birth	
	DateOfIssue	Document issue date	
	DateOfQualification	Qualification date	

Scheme	Field	Field description	Comments
	FirstName	Document holder's first name	
	HeadOfHousehold	The name of the household's head	
	InsuranceType	Insurance type	
	InsurerNumber	Insurer number	
	OrganizationCode	Organization code	
	SerialNumber	Document serial number	
HealthInsurance_RU_TYPE1 HealthInsurance_RU_TYPE2 HealthInsurance_RU_TYPE3 HealthInsurance_RU_TYPE4	DateOfBirth	Driver's date of birth	Except the HealthInsurance_RU_TYPE3 scheme
	DateOfIssue	Document issue date	In the HealthInsurance_RU_TYPE1 scheme only
	FirstName	Document holder's first name	Except the HealthInsurance_RU_TYPE3 scheme
	LastName	Document holder's last name	Except the HealthInsurance_RU_TYPE3 scheme
	MiddleName	Document holder's patronymic name	In the HealthInsurance_RU_TYPE1 and HealthInsurance_RU_TYPE2 scheme only
	Number	Document number	

Scheme	Field	Field description	Comments
	Sex	Document holder's sex	In the HealthInsurance_RU_TYPE1 and HealthInsurance_RU_TYPE2 scheme only
IBAN	IBAN	International bank account number	
ID_AE_TYPE1	DateOfBirth	Document holder's birth date	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	FullName_LINE2	Additional line for driver's name	
	Hologram	Document hologram	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	

Scheme	Field	Field description	Comments
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_BACK	Document number on the back side	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE1	Optional line of MRZ	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
ID_AL_TYPE1	DateOfBirth	Document holder's birth date	
	DateOfBirth_MRZ	Document holder's birth date from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	

Scheme	Field	Field description	Comments
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's name from MRZ	
	IssuedBy	The authority that issued the license	
	LastName	Document holder's surname	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	

Scheme	Field	Field description	Comments
	OptionalData_MRZ_LINE2	Optional second line of MRZ	
	PersonalNumber	Document holder's personal number	
	PlaceOfBirth	Document holder's birth place	
	Sex	Document holder's gender	
	Sex_MRZ	Document holder's from MRZ	
ID_AM_TYPE1	Address	Document holder's address	
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	

Scheme	Field	Field description	Comments
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	
	MiddleName	Document holder's patronymic name	
	Nationality	Document holder's nationality	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Document holder's nationality from MRZ	

Scheme	Field	Field description	Comments
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Document holder's personal code	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
ID_AT_TYPE1	DVRNumber	DVR number	
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Driver's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	

Scheme	Field	Field description	Comments
	DocumentType_MRZ	Document type from MRZ	
	Eyes	Document holder's eye color	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	Height	Document holder's height	
	IssuedBy	The authority that issued the license	
	IssuedBy_MRZ	Issuer of the document from	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from	

Scheme	Field	Field description	Comments
		MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's birth place	
	Residence	Document holder's residence	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
ID_BE_TYPE1 ID_BE_TYPE2 ID_BE_TYPE3	Comments	Remarks	In the ID_BE_TYPE2 scheme only
	DateOfBirth	Document holder's birth date	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	

Scheme	Field	Field description	Comments
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy_MRZ	Issuer of the document from	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Document holder's personal code	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfIssue	Region where the document was issued	

Scheme	Field	Field description	Comments
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
ID_BG_TYPE1 ID_BG_TYPE2 ID_BG_TYPE3	Address	Document holder's address	In the ID_BG_TYPE1 scheme only
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	Eyes	Document holder's eye color	Except the ID_BG_TYPE3 scheme
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	Height	Document holder's height	In the ID_BG_TYPE1 scheme only
	IssuedBy	The authority that issued	In the ID_BG_TYPE1

Scheme	Field	Field description	Comments
		the document	scheme only
	LastName	Document holder's last name	Except the ID_BG_TYPE3 scheme
	LastName_EN	Document holder's last name	Except the ID_BG_TYPE3 scheme
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	
	MiddleName	Document holder's patronymic name	Except the ID_BG_TYPE3 scheme
	MiddleName_EN	Document holder's patronymic name in English	Except the ID_BG_TYPE3 scheme
	Nationality	Document holder's nationality	
	Nationality_EN	Document holder's nationality in English	Except the ID_BG_TYPE2 scheme
	Nationality_MRZ	Document holder's nationality from MRZ	

Scheme	Field	Field description	Comments
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Document holder's personal code	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	In the ID_BG_TYPE1 scheme only
	PlaceOfIssue	Region where the document was issued	In the ID_BG_TYPE3 scheme only
	PlaceOfIssue_EN	Region where the document was issued in English	In the ID_BG_TYPE3 scheme only
	RegionOfResidence	Document holder's region of residence	Except the ID_BG_TYPE3 scheme
	Sex	Document holder's sex	Except the ID_BG_TYPE3 scheme
	Sex_EN	Document holder's sex in English	Except the ID_BG_TYPE3 scheme
	Sex_MRZ	Document holder's sex from MRZ	
	TypeOfPermission	Type of permission	In the ID_BG_TYPE3 scheme only

Scheme	Field	Field description	Comments
	TypeOfPermission_EN	Type of permission in English	In the ID_BG_TYPE3 scheme only
ID_BH_TYPE1	DateOfExpiry	Document expiry date	
	FullName	Document holder's full name	
	Number	Document number	
ID_BR_TYPE1 ID_BR_TYPE2	CPF	Document holder's number	
	DateOfBirth	Document holder's date of birth	
	DispatchDate	Document dispatch date	
	DocumentOrigin	Document origin	
	Filiation_LINE1	Filiation first line	
	Filiation_LINE2	Filiation second line	
	FirstName	Document holder's first name	
	GeneralRegistration	Number of General Registry	
	Nationality	Document holder's nationality	
	Number_EX	Secondary document number	

Scheme	Field	Field description	Comments
	OwnerSignature	Owner signature	
ID_CH_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	Height	Document holder's height	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	

Scheme	Field	Field description	Comments
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_BACK	Document number on the back side	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE1	Optional line of MRZ	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
ID_CL_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfExpiry	Document expiry date	
	DateOfIssue	Document issue date	

Scheme	Field	Field description	Comments
	FirstName	Document holder's first name	
	LastName	Document holder's last name	
	LastName_LINE2	Second line of the document holder's last name	
	Nationality	Document holder's nationality	
	Number	Document number	
	PersonalCode	Document holder's personal code	
	Sex	Document holder's sex	
ID_CN_TYPE1	DateOfBirth	Document holder's birth date	
	DateOfExpiry	Document expiry date	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	IssuedBy	The authority that issued the document	
	Number	Document number	
	Sex	Document holder's sex	

Scheme	Field	Field description	Comments
ID_CY_TYPE1 ID_CY_TYPE2	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	In the ID_CY_TYPE2 scheme only
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	In the ID_CY_TYPE2 scheme only
	DateOfIssue	Document issue date	
	FatherFirstName	Document holder's father first name	
	FatherFirstName_GR	Document holder's father first name in Greek	
	FatherLastName	Document holder's father last name	
	FatherLastName_GR	Document holder's father last name in Greek	
	FirstName	Document holder's first name	
	FirstName_GR	Document holder's first name in Greek	
	FirstName_MRZ	Document holder's first name from MRZ	In the ID_CY_TYPE2 scheme only
	Height	Document holder's height	In the ID_CY_TYPE2 scheme only

Scheme	Field	Field description	Comments
	LastName	Document holder's last name	
	LastName_GR	Document holder's last name in Greek	
	LastName_MRZ	Document holder's last name from MRZ	In the ID_CY_TYPE2 scheme only
	MRZ	Full contents of the machine-readable zone	In the ID_CY_TYPE2 scheme only
	MRZ_LINE1	The first line from MRZ	In the ID_CY_TYPE2 scheme only
	MRZ_LINE2	The second line from MRZ	In the ID_CY_TYPE2 scheme only
	MRZ_LINE3	The third line from MRZ	In the ID_CY_TYPE2 scheme only
	MotherFirstName	Document holder's mother first name	
	MotherFirstName_GR	Document holder's mother first name in Greek	
	MotherLastName	Document holder's mother last name	
	MotherLastName_GR	Document holder's mother last name in Greek	
	Nationality	Nationality of the document holder	

Scheme	Field	Field description	Comments
	Nationality_GR	Nationality of the document holder in Greek	
	Nationality_MRZ	Nationality of the document holder from MRZ	In the ID_CY_TYPE2 scheme only
	Number	Document number	
	Number_MRZ	Document number from MRZ	In the ID_CY_TYPE2 scheme only
	PersonalCode	Document holder's personal code	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_GR	Document holder's place of birth in Greek	
	PlaceOfIssue	Region where the document was issued	In the ID_CY_TYPE2 scheme only
	PlaceOfIssue_GR	Region where the document was issued in Greek	In the ID_CY_TYPE2 scheme only
	Sex	Document holder's sex	
	Sex_GR	Document holder's sex in Greek	
	Sex_MRZ	Document holder's sex from MRZ	In the ID_CY_TYPE2 scheme only
ID_CZ_TYPE1	Address	Document holder's	Except the

Scheme	Field	Field description	Comments
ID_CZ_TYPE2 ID_CZ_TYPE3		address	ID_CZ_TYPE1 scheme
	Address_0	Document holder's address	In the ID_CZ_TYPE1 scheme only
	Address_1	Document holder's address	In the ID_CZ_TYPE1 scheme only
	Address_2	Document holder's address	In the ID_CZ_TYPE1 scheme only
	DateOfBirth	Document holder's birth date	
	DateOfBirth_MRZ	Document holder's birth date from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	FirstName	Document holder's name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the license	
	LastName	Document holder's surname	
	LastNameAtBirth	Document holder's surname at birth	Except the ID_CZ_TYPE1 scheme

Scheme	Field	Field description	Comments
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	In the ID_CZ_TYPE1 scheme only
	MaritalStatus	Document holder's marital status	
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional second line of MRZ	
	PersonalNumber	Document holder's personal number	
	PlaceOfBirth	Document holder's birth place	

Scheme	Field	Field description	Comments
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
	Titul	Document titul	Except the ID_CZ_TYPE3 scheme
ID_DE_TYPE1 ID_DE_TYPE2	Address	Document holder's full address	In the ID_DE_TYPE1 scheme only
	Address_LINE1	Document holder's address	In the ID_DE_TYPE1 scheme only
	Address_LINE2	Document holder's address, continued	In the ID_DE_TYPE1 scheme only
	Address_LINE3	Document holder's address, continued	In the ID_DE_TYPE1 scheme only
	DateAndPlaceOfBirth	Document holder's date and place of birth	In the ID_DE_TYPE2 scheme only
	DateOfBirth	Document holder's date of birth	
	DateOfBirthAndNationality	Document holder's date of birth and nationality	In the ID_DE_TYPE1 scheme only
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	

Scheme	Field	Field description	Comments
	DateOfIssue	Document issue date	In the ID_DE_TYPE1 scheme only
	EyeColor	Document holder's eye color	In the ID_DE_TYPE1 scheme only
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	Height	Document holder's height	In the ID_DE_TYPE1 scheme only
	IssuedBy	The authority that issued the license	In the ID_DE_TYPE1 scheme only
	LastName	Document holder's last name	
	LastName_LINE2	Second line of the document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	In the ID_DE_TYPE1 scheme only

Scheme	Field	Field description	Comments
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	PlaceOfBirth	Document holder's place of birth	
	RFID	RFID number	In the ID_DE_TYPE1 scheme only
ID_EE_TYPE1 ID_EE_TYPE2	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	Hologram	Document hologram	In the ID_EE_TYPE1

Scheme	Field	Field description	Comments
			scheme only
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional second line of MRZ	
	PersonalCode	Document holder's personal code	
	PlaceOfBirth	Document holder's place of birth	

Scheme	Field	Field description	Comments
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
ID_EG_TYPE1	IDCode	Document holder's ID code	
	Number	Document number	
ID_ES_TYPE1 ID_ES_TYPE2	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IDESP	Identity card serial number	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last	

Scheme	Field	Field description	Comments
		name	
	LastName_LINE2	Second line of the document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	
	Municipality	Document municipality	
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE1	Optional second line of MRZ	
	ParentsFirstNames	Document holder's parents' first names	

Scheme	Field	Field description	Comments
	PlaceOfBirth	Document holder's place of birth	
	ProvinceOfBirth	Document holder's province of birth	
	ProvinceOfIssue	Province of issue	
	RFID	RFID number	In the ID_ES_TYPE2 scheme only
	Residence	Document holder's residence	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
ID_FI_TYPE1 ID_FI_TYPE2	CANNumber	CAN number	In the ID_FI_TYPE2 scheme only
	Code	Document code	
	DateOfBirth	Document holder's date of birth	
	DateOfExpiry	Document expiry date	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	LastName	Document holder's last name	

Scheme	Field	Field description	Comments
	Nationality	Document holder's nationality	
	Number	Document number	
	Sex	Document holder's sex	
ID_FR_TYPE1	Address	Document holder's address	
	Address_0	Document holder's address	
	Address_1	Document holder's address	
	AuthoritySignature	Authority signature	
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_0	Document holder's first name	
	FirstName_1	Document holder's first name	

Scheme	Field	Field description	Comments
	FirstName_MRZ	Document holder's first name from MRZ	
	Height	Document holder's height	
	IssuedBy	The authority that issued the license	
	LastName	Document holder's last name	
	LastName_LINE2	Second line of the Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE1	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	

Scheme	Field	Field description	Comments
	Sex_MRZ	Document holder's sex from MRZ	
ID_GE_TYPE1	DateOfBirth	Document holder's birth date	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the license	
	IssuedBy_EN	The authority that issued the license in English	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name	

Scheme	Field	Field description	Comments
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	MRZ_LINE2
	PersonalCode	Document holder's personal code	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Driver's sex	
	Sex_EN	Driver's sex in English	
	Sex_MRZ	Document holder's sex from MRZ	
ID_HK_TYPE1	Code	Document code	

Scheme	Field	Field description	Comments
	DateOfBirth	Document holder's birth date	
	DateOfIssue	Document issue date	
	FirstName_EN	Document holder's first name in English	
	FullName	Document holder's full name	
	Number	Document number	
	Sex_EN	Document holder's sex in English	
ID_HR_TYPE1 ID_HR_TYPE2	DateOfBirth	Document holder's birth date	
	DateOfExpiry	Document expiry date	
	FirstName	Document holder's first name	
	LastName	Document holder's last name	
	Nationality	Nationality of the document holder	
	Number	Document number	
	Sex	Document holder's sex	
ID_HU_TYPE1 ID_HU_TYPE2	CardAccessNumber	Card access number	In the ID_HU_TYPE2 scheme only

Scheme	Field	Field description	Comments
	DateOfBirth	Document holder's birth date	In the ID_HU_TYPE2 scheme only
	DateOfExpiry	Document expiry date	In the ID_HU_TYPE2 scheme only
	FullName	Document holder's full name	
	Number	Document number	
	Sex	Document holder's sex	In the ID_HU_TYPE2 scheme only
ID_IL_TYPE1 ID_IL_TYPE2	DateOfBirth	Document holder's birth date	
	DateOfBirth_TEXT	Document holder's birth date by text	
	DateOfExpiry	Document expiry date	In the ID_IL_TYPE1 scheme only
	DateOfExpiry_TEXT	Document expiry date by text	In the ID_IL_TYPE1 scheme only
	DateOfIssue	Document issue date	
	DateOfIssue_TEXT	Document issue date by text	
	Father	Document holder's father's name	In the ID_IL_TYPE2 scheme only
	FirstName	Document holder's first name	

Scheme	Field	Field description	Comments
	IssuedBy	The authority that issued the license	In the ID_IL_TYPE2 scheme only
	LastName	Document holder's last name	
	Mother	Document holder's mother's name	In the ID_IL_TYPE2 scheme only
	Nationality	Document holder's nationality	In the ID_IL_TYPE2 scheme only
	Number	Document number	
	PlaceOfBirth	Document holder's place of birth	In the ID_IL_TYPE2 scheme only
	Sex	Document holder's sex	In the ID_IL_TYPE2 scheme only
ID_IT_TYPE1 ID_IT_TYPE2 ID_IT_TYPE3	Address_0	Document holder's address	In the ID_IT_TYPE1 scheme only
	City	Document holder's city	In the ID_IT_TYPE1 scheme only
	DateOfBirth	Document holder's birth date	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	In the ID_IT_TYPE2 scheme only
	DateOfExpiry	Document expiry date	In the ID_IT_TYPE3 scheme only
	DateOfExpiry_MRZ	Document expiry date from MRZ	In the ID_IT_TYPE2 scheme only

Scheme	Field	Field description	Comments
	DateOfIssue	Document issue date	In the ID_IT_TYPE3 scheme only
	DistinguishingFeatures	Document additional information	In the ID_IT_TYPE2 scheme only
	ENumber	Number of identity card	In the ID_IT_TYPE3 scheme only
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	In the ID_IT_TYPE2 scheme only
	Height	Document holder's height	
	IssuedBy	The authority that issued the license	Except the ID_IT_TYPE1 scheme
	Job	Document holder's job	In the ID_IT_TYPE1 scheme only
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	In the ID_IT_TYPE2 scheme only
	MRZ	Full contents of the machine-readable zone	In the ID_IT_TYPE2 scheme only
	MRZ_LINE1	The first line from MRZ	In the ID_IT_TYPE2 scheme only
	MRZ_LINE2	The second line from MRZ	In the ID_IT_TYPE2 scheme only

Scheme	Field	Field description	Comments
	MRZ_LINE3	The third line from MRZ	In the ID_IT_TYPE2 scheme only
	MaritalStatus	Document holder's marital status	In the ID_IT_TYPE1 scheme only
	Nationality	Nationality of the document holder	Except the ID_IT_TYPE2 scheme
	Nationality_MRZ	Document holder's nationality from MRZ	In the ID_IT_TYPE2 scheme only
	Number	Document number	
	Number_1	First extra line for document number	In the ID_IT_TYPE1 scheme only
	Number_3	Third extra line for document number	In the ID_IT_TYPE1 scheme only
	Number_MRZ	Document number from MRZ	In the ID_IT_TYPE2 scheme only
	PlaceOfBirth	Document holder's place of birth	
	Residence	Document holder's residence	In the ID_IT_TYPE1 scheme only
	Sex	Document holder's sex	Except the ID_IT_TYPE1 scheme
	Weight	Vehicle weight	In the ID_IT_TYPE2 scheme only
ID_KG_TYPE1 ID_KG_TYPE2	Address	Document holder's address	In the ID_KG_TYPE1 scheme only

Scheme	Field	Field description	Comments
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	In the ID_KG_TYPE2 scheme only
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	In the ID_KG_TYPE2 scheme only
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	

Scheme	Field	Field description	Comments
	MaritalStatus	Document holder's marital status	In the ID_KG_TYPE1 scheme only
	MiddleName	Document holder's patronymic name	
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE1	Optional line of MRZ	
	PersonalCode	Document holder's personal code	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_EN	Document holder's sex in English	In the ID_KG_TYPE2 scheme only
	Sex_MRZ	Document holder's sex from MRZ	
ID_KW_TYPE1 ID_KW_TYPE2	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date	

Scheme	Field	Field description	Comments
		of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	FirstName	Document holder's first name	In the ID_KW_TYPE2 scheme only
	FirstName_MRZ	Document holder's first name from MRZ	
	FullName	Document holder's full name	In the ID_KW_TYPE1 scheme only
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	

Scheme	Field	Field description	Comments
	Number2_BACK	Document number on the back side	
	Number3_BACK	Document number on the back side	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE1	Optional first line of MRZ	
	OptionalData_MRZ_LINE2	Optional second line of MRZ	
	SerialNumber	Document serial number	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
ID_KZ_TYPE1 ID_KZ_TYPE2	Address	Document holder's address	In the ID_KZ_TYPE1 scheme only
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	

Scheme	Field	Field description	Comments
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	In the ID_KZ_TYPE2 scheme only
	MiddleName	Document holder's patronymic name	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	

Scheme	Field	Field description	Comments
	OptionalData_MRZ_LINE1	Optional line of MRZ	In the ID_KZ_TYPE2 scheme only
	OptionalData_MRZ_LINE2	Optional second line of MRZ	In the ID_KZ_TYPE1 scheme only
	PlaceOfBirth	Document holder's place of birth	
	Sex_MRZ	Document holder's sex from MRZ	
ID_LT_TYPE1 ID_LT_TYPE2	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	

Scheme	Field	Field description	Comments
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_BACK	Document number on the back side	In the ID_LT_TYPE1 scheme only
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Document holder's personal code	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	

Scheme	Field	Field description	Comments
ID_LU_TYPE1 ID_LU_TYPE2 ID_LU_TYPE3 ID_LU_TYPE4	DateOfBirth	Document holder's birth date	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	In the ID_LU_TYPE1 scheme only
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	In the ID_LU_TYPE1 scheme only
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	In the ID_LU_TYPE1 scheme only
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	In the ID_LU_TYPE1 scheme only
	MRZ	Full contents of the machine-readable zone	In the ID_LU_TYPE1 scheme only
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	In the ID_LU_TYPE1 scheme only

Scheme	Field	Field description	Comments
	Number	Document number	
	Number_MRZ	Document number from MRZ	In the ID_LU_TYPE1 scheme only
	OptionalData_MRZ_LINE2	Optional MRZ line	In the ID_LU_TYPE1 scheme only
	PersonalCode	Document holder's personal code	In the ID_LU_TYPE1 scheme only
	PlaceOfBirth	Document holder's place of birth	Except the ID_LU_TYPE1 scheme
	PlaceOfIssue	Region where the document was issued	In the ID_LU_TYPE1 scheme only
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	In the ID_LU_TYPE1 scheme only
ID_LV_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	

Scheme	Field	Field description	Comments
	FirstName_MRZ	Document holder's first name from MRZ	
	FullName	Document holder's full name	
	Height	Document holder's height	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	
	LastName_EX	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	

Scheme	Field	Field description	Comments
	OptionalData_MRZ_LINE2	Optional second line of MRZ	
	PersonalCode	Document holder's personal code	
	Sex	Document holder's sex	
	Sex_EN	Document holder's sex in English	
	Sex_MRZ	Document holder's sex from MRZ	
ID_MD_TYPE1 ID_MD_TYPE2 ID_MD_TYPE3	BloodType	Document holder's blood type	In the ID_MD_TYPE1 scheme only
	DateOfBirth	Document holder's birth date	
	DateOfExpiry	Document expiry date	
	DateOfIssue	Document issue date	
	Eyes	Document holder's eye color	In the ID_MD_TYPE1 scheme only
	FirstName	Document holder's first name	
	Height	Document holder's height	In the ID_MD_TYPE1 scheme only
	LastName	Document holder's last name	
	Number	Document number	

Scheme	Field	Field description	Comments
	PlaceOfBirth	Document holder's place of birth	In the ID_MD_TYPE1 scheme only
	Sex	Document holder's sex	
ID_MK_TYPE1 ID_MK_TYPE2	DateOfBirth	Document holder's birth date	
	DateOfExpiry	Document expiry date	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	In the ID_MK_TYPE1 scheme only
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name	In the ID_MK_TYPE1 scheme only
	Number	Document number	
	PersonalNumber	Personal number	
	Sex	Document holder's sex	
ID_MX_TYPE1 ID_MX_TYPE2 ID_MX_TYPE3 ID_MX_TYPE4	Address	Document holder's address	
	Age	Document holder's age	In the ID_MX_TYPE3 scheme only

Scheme	Field	Field description	Comments
	CURPNumber	CURP number	In the ID_MX_TYPE3 scheme only
	DateOfBirth	Document holder's birth date	Except the ID_MX_TYPE3 scheme
	DateOfExpiry	Document expiry date	Except the ID_MX_TYPE3 scheme
	DateOfIssue	Document issue date	Except the ID_MX_TYPE3 scheme
	DateOfRegistration	Date of registration	In the ID_MX_TYPE2 scheme only
	ElectorKey	Code of elector	In the ID_MX_TYPE3 scheme only
	FirstName	Document holder's first name	
	Folio	Document page	In the ID_MX_TYPE3 scheme only
	IssuedBy	The authority that issued the document	Except the ID_MX_TYPE3 scheme
	LastName	Document holder's last name in English	In the ID_MX_TYPE2 scheme only
	Locality	Document holder's locality	In the ID_MX_TYPE3 scheme only
	Municipality	Document holder's municipality	In the ID_MX_TYPE3 scheme only

Scheme	Field	Field description	Comments
	Number	Document number	
	Number_1	The first extra line for document number	In the ID_MX_TYPE4 scheme only
	Number_2	The second extra line for document number	In the ID_MX_TYPE4 scheme only
	Number_EX	Secondary document number	In the ID_MX_TYPE2 scheme only
	PlaceOfBirth	Document holder's place of birth	In the ID_MX_TYPE1 and ID_MX_TYPE4 scheme only
	Residence	Document holder's residence	In the ID_MX_TYPE2 scheme only
	Section	Document holder's section	In the ID_MX_TYPE2 and ID_MX_TYPE3 scheme only
	Sex	Document holder's sex	In the ID_MX_TYPE2 and ID_MX_TYPE3 scheme only
	State	Document holder's state	In the ID_MX_TYPE2 and ID_MX_TYPE3 scheme only
	YearOfExpiry	Document expiry year	In the ID_MX_TYPE3 scheme only
	YearOfIssue	Document issue year	In the ID_MX_TYPE3 scheme only
	YearOfRegistration	Document registration year	In the ID_MX_TYPE3 scheme only

Scheme	Field	Field description	Comments
ID_MY_TYPE1	Address_LINE1	Document holder's address	
	Address_LINE2	Document holder's address, continued	
	Address_LINE3	Document holder's address, continued	
	Address_LINE4	Document holder's address, continued	
	Address_LINE5	Document holder's address, continued	
	Confession	Document holder's confession	
	DateOfBirth	Document holder's date of birth	
	FirstName	Document holder's first name	
	Nationality	Nationality of the document holder	
	Number	Document number	
	PlaceOfBirth	Document holder's place of birth	
Sex	Document holder's sex		
ID_NG_TYPE1	DateOfBirth	Document holder's birth date	

Scheme	Field	Field description	Comments
	FirstName	Document holder's first name	
	Height	Document holder's height	
	LastName	Document holder's last name	
	MiddleName	Document holder's patronymic name	
	Sex	Document holder's sex	
ID_NO_TYPE1	DateOfBirth	Document holder's birth date	
	DateOfExpiry	Document expiry date	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	Height	Document holder's height	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	
	Nationality	Document holder's nationality	
	Nationality_EN	Document holder's nationality in English	

Scheme	Field	Field description	Comments
	Number	Document number	
	PersonalNumber	Personal number	
	Sex	Document holder's sex	
ID_PL_TYPE1 ID_PL_TYPE2 ID_PL_TYPE3	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	Except the ID_PL_TYPE3 scheme
	Eyes	Document holder's eye color	In the ID_PL_TYPE1 scheme only
	FamilyName	Document holder's family name (last name at birth)	Except the ID_PL_TYPE3 scheme
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	Height	Document holder's height	In the ID_PL_TYPE1 scheme only
	IssuedBy	The authority that issued the document	

Scheme	Field	Field description	Comments
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	
	Nationality	Document holder's nationality	Except the ID_PL_TYPE1 scheme
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional second line of MRZ	Except the ID_PL_TYPE1 scheme
	ParentsFirstNames	First names of document holder's parents	Except the ID_PL_TYPE3 scheme
	PersonalNumber	PESEL number from the back side	Except the ID_PL_TYPE3 scheme
	PlaceOfBirth	Document holder's place	Except the

Scheme	Field	Field description	Comments
		of birth	ID_PL_TYPE3 scheme
	Residence	Document holder's residence	In the ID_PL_TYPE1 scheme only
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
	YearOfExpiry	Document expiry year	In the ID_PL_TYPE1 scheme only
ID_PT_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfExpiry	Document expiry date	
	FirstName	Document holder's first name	
	LastName	Document holder's last name	
	Number	Document number	
	Sex	Document holder's sex	
ID_RO_TYPE1	Address	Document holder's address	
	Address_LINE2	Second line for document holder's address	
	CNPNumber	CNP number	

Scheme	Field	Field description	Comments
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional second line of MRZ	
ID_RS_TYPE1	DateOfBirth	Document holder's birth date	

Scheme	Field	Field description	Comments
	DateOfExpiry	Document expiry date	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	LastName	Document holder's last name	
	Number	Document number	
	Sex	Document holder's sex	
ID_RU_LAWYER_TY E1 ID_RU_MILITARY_TY PE1 ID_RU_MILITARY_TY PE2 ID_RU_MILITARY_TY PE3 ID_RU_MILITARY_TY PE4 ID_RU_MILITARY_TY PE5 ID_RU_POLICE_TYPE 1 ID_RU_PROSECUTO R_TYPE1 ID_RU_PROSECUTO R_TYPE2 ID_RU_SOLDIER_TY PE1	DateOfBirth	Document holder's birth date	In the ID_RU_SOLDIER_TYPE 1 scheme only
	DateOfExpiry	Document expiry date	In the ID_RU_POLICE_TYPE1 scheme only
	DateOfIssue	Document issue date	In the ID_RU_POLICE_TYPE1 scheme only
	FirstName	Document holder's first name	In the ID_RU_POLICE_TYPE1 , ID_RU_PROSECUTOR_TYPE1, ID_RU_PROSECUTOR_TYPE2 and ID_RU_SOLDIER_TYPE 1 scheme only
	LastName	Document holder's last name	In the ID_RU_POLICE_TYPE1 , ID_RU_PROSECUTOR

Scheme	Field	Field description	Comments
			_TYPE1, ID_RU_PROSECUTOR _TYPE2 and ID_RU_SOLDIER_TYPE 1 scheme only
	MiddleName	Document holder's patronymic name	In the ID_RU_POLICE_TYPE1 , ID_RU_PROSECUTOR _TYPE1, ID_RU_PROSECUTOR _TYPE2 and ID_RU_SOLDIER_TYPE 1 scheme only
	Number	Document number	Except the ID_RU_LAWYER_TYPE 1 scheme
	PersonalNumber	Document holder's personal number	In the ID_RU_POLICE_TYPE1 scheme only
	Post	Post	In the ID_RU_POLICE_TYPE1 scheme only
	Post_LINE1	Post line 1	In the ID_RU_POLICE_TYPE1 scheme only
	Post_LINE2	Post line 1	In the ID_RU_POLICE_TYPE1 scheme only
	Rank	Document holder's rank	In the ID_RU_POLICE_TYPE1 , ID_RU_PROSECUTOR _TYPE1 and ID_RU_PROSECUTOR _TYPE2 scheme only

Scheme	Field	Field description	Comments
	Series	Document series	In the ID_RU_POLICE_TYPE1 and ID_RU_PROSECUTOR_TYPE1 scheme only
ID_SG_TYPE1	DateOfBirth	Document holder's date of birth	
	FirstName	Document holder's first name	
	Nationality	Nationality of the document holder	
	Number	Document number	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
ID_SI_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	

Scheme	Field	Field description	Comments
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MRZ_LINE3	The third line from MRZ	
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Document holder's personal code	

Scheme	Field	Field description	Comments
	Residence	Document holder's residence	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
ID_SK_TYPE1 ID_SK_TYPE2	Address	Document holder's address	In the ID_SK_TYPE1 scheme only
	Address_FULL	Driver's full address	
	Comments	Remarks	
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	In the ID_SK_TYPE1 scheme only
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	In the ID_SK_TYPE1 scheme only
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	In the ID_SK_TYPE1 scheme only
	IssuedBy	The authority that issued the document	

Scheme	Field	Field description	Comments
	LastName	Document holder's last name	
	LastName_1	Document holder's first surname	In the ID_SK_TYPE1 scheme only
	LastName_MRZ	Document holder's last name from MRZ	In the ID_SK_TYPE1 scheme only
	MRZ	Full contents of the machine-readable zone	
	Nationality	Document holder's nationality	In the ID_SK_TYPE1 scheme only
	Nationality_MRZ	Document holder's nationality from MRZ	In the ID_SK_TYPE1 scheme only
	Number	Document number	
	Number_MRZ	Document number from MRZ	In the ID_SK_TYPE1 scheme only
	OptionalData_MRZ_LINE2	Optional MRZ line	In the ID_SK_TYPE1 scheme only
	PersonalNumber	Document holder's personal number	
	PlaceOfBirth	Document holder's birth place	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	In the ID_SK_TYPE1 scheme only

Scheme	Field	Field description	Comments
ID_SV_TYPE1	DateOfBirth	Document holder's birth date	
	FirstName	Document holder's first name	
	LastName	Document holder's last name	
	Number	Document number	
	Sex	Document holder's sex	
ID_TR_TYPE1 ID_TR_TYPE2	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	In the ID_TR_TYPE1 scheme only
	DateOfExpiry	Document expiry date	In the ID_TR_TYPE1 scheme only
	DateOfExpiry_MRZ	Document expiry date from MRZ	In the ID_TR_TYPE1 scheme only
	DateOfIssue	Document issue date	In the ID_TR_TYPE2 scheme only
	District	Document holder's district	In the ID_TR_TYPE2 scheme only
	Father	Document holder's father	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first	In the ID_TR_TYPE1

Scheme	Field	Field description	Comments
		name from MRZ	scheme only
	IssueNumber	Document issue number	In the ID_TR_TYPE2 scheme only
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	
	LastName_LAST	Document holder's latest surname	In the ID_TR_TYPE2 scheme only
	LastName_MRZ	Document holder's last name from MRZ	In the ID_TR_TYPE1 scheme only
	Locality	Document holder's locality	In the ID_TR_TYPE2 scheme only
	MRZ	Full contents of the machine-readable zone	In the ID_TR_TYPE1 scheme only
	MaritalStatus	Document holder's marital status	In the ID_TR_TYPE2 scheme only
	Mother	Document holder's mother	
	Nationality	Document holder's nationality	In the ID_TR_TYPE1 scheme only
	Nationality_EN	Document holder's nationality in English	In the ID_TR_TYPE1 scheme only
	Nationality_MRZ	Document holder's nationality from MRZ	In the ID_TR_TYPE1 scheme only

Scheme	Field	Field description	Comments
	Number	Document number	
	Number_1	The first document number	In the ID_TR_TYPE2 scheme only
	Number_3	The third document number	In the ID_TR_TYPE2 scheme only
	Number_EX	The second document number	In the ID_TR_TYPE2 scheme only
	Number_MRZ	Document number from MRZ	In the ID_TR_TYPE1 scheme only
	OptionalData_MRZ_LINE1	Optional line of MRZ	In the ID_TR_TYPE1 scheme only
	PersonalCode	Document holder's personal code	
	PlaceOfBirth	Document holder's place of birth	In the ID_TR_TYPE2 scheme only
	ProvinceOfIssue	Province where the document was issued	In the ID_TR_TYPE2 scheme only
	ReasonOfIssue	Reason of issue	In the ID_TR_TYPE2 scheme only
	Religion	Document holder's religion	In the ID_TR_TYPE2 scheme only
	Series	Document series	In the ID_TR_TYPE2 scheme only
	Sex	Document holder's sex	In the ID_TR_TYPE1 scheme only

Scheme	Field	Field description	Comments
	Sex_EN	Document holder's sex in English	In the ID_TR_TYPE1 scheme only
	Sex_MRZ	Document holder's sex from MRZ	In the ID_TR_TYPE1 scheme only
ID_UA_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name	

Scheme	Field	Field description	Comments
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MiddleName	Document holder's patronymic name	
	Nationality	Document holder's nationality	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Document holder's personal code	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	RecordNumber	Record number	
	Sex	Document holder's sex	

Scheme	Field	Field description	Comments
	Sex_MRZ	Document holder's sex from MRZ	
ID_ZA_TYPE1	DateOfBirth	Document holder's birth date	
	FirstName	Document holder's first name	
	LastName	Document holder's last name in English	
	Nationality	Document holder's nationality	
	Number	Document number	
	Sex	Document holder's sex	
INN_RU_CITIZEN_T YPE1 INN_RU_CITIZEN_T YPE2 INN_RU_CITIZEN_T YPE3 INN_RU_CITIZEN_T YPE4 INN_RU_ENTITY_TY PE1 INN_RU_ENTITY_TY PE2	FirstName	Document holder's first name	Except the INN_RU_ENTITY_TYP E1 and INN_RU_ENTITY_TYP E2 scheme
	FullName	Document holder's full name	Except the INN_RU_ENTITY_TYP E1 and INN_RU_ENTITY_TYP E2 scheme
	KPP	Document holder's KPP	In the INN_RU_ENTITY_TYP E1 and INN_RU_ENTITY_TYP E2 scheme only
	LastName	Document holder's last name	Except the INN_RU_ENTITY_TYP E1 and

Scheme	Field	Field description	Comments
			INN_RU_ENTITY_TYP E2 scheme
	MiddleName	Document holder's patronymic name	Except the INN_RU_ENTITY_TYP E1 and INN_RU_ENTITY_TYP E2 scheme
	Number	Document number	Except the INN_RU_CITIZEN_TYP E4 scheme
	OGRN	Document holder's OGRN	In the INN_RU_ENTITY_TYP E1 and INN_RU_ENTITY_TYP E2 scheme only
	PIN	Document holder's PIN	
	Series	Document series	Except the INN_RU_CITIZEN_TYP E4 scheme
InternationalPassport_AL_TYPE1 InternationalPassport_AL_TYPE2	DateOfBirth	Document holder's birth date	
	DateOfBirth_MRZ	Document holder's birth date from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	

Scheme	Field	Field description	Comments
	Eyes	Document holder's eyes color	In the InternationalPassport_AL_TYPE2 scheme only
	FirstName	Document holder's name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	Height	Document holder's height	In the InternationalPassport_AL_TYPE2 scheme only
	IssuedBy	The authority that issued the license	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's surname	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	

Scheme	Field	Field description	Comments
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	Nationality	Document holder's nationality	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Personal code	In the InternationalPassport_AL_TYPE2 scheme only
	PersonalNumber	Document holder's personal number	In the InternationalPassport_AL_TYPE1 scheme only
	PlaceOfBirth	Document holder's birth place	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	

Scheme	Field	Field description	Comments
	Sex_MRZ	Document holder's from MRZ	
InternationalPassport_AM_TYPE2 InternationalPassport_AM_TYPE3	DateOfBirth	Document holder's birth date	
	DateOfBirth_MRZ	Document holder's birth date from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	In the InternationalPassport_AM_TYPE3 scheme only
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's name from MRZ	
	IssuedBy	The authority that issued the license	In the InternationalPassport_AM_TYPE3 scheme only
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued	

Scheme	Field	Field description	Comments
		the document from MRZ	
	LastName	Document holder's last name	In the InternationalPassport_AM_TYPE3 scheme only
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	Nationality	Document holder's nationality	In the InternationalPassport_AM_TYPE3 scheme only
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	

Scheme	Field	Field description	Comments
	PersonalCode	Document holder's personal code	In the InternationalPassport_AM_TYPE3 scheme only
	PlaceOfBirth	Document holder's place of birth	In the InternationalPassport_AM_TYPE3 scheme only
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's gender	
	Sex_MRZ	Document holder's from MRZ	
InternationalPassport_AT_TYPE1 InternationalPassport_AT_TYPE2	DVRNumber	DVR number	
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType	Document type	
	DocumentType_MRZ	Document type from MRZ	

Scheme	Field	Field description	Comments
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	Height	Document holder's height	
	IssuedBy	The authority that issued the license	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	Nationality	Document holder's nationality	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	

Scheme	Field	Field description	Comments
	Number_MRZ	Document number from MRZ	
	Number_RAW	Document raw number	In the InternationalPassport_AT_TYPE1 scheme only
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	Residence	Document holder's residence	In the InternationalPassport_AT_TYPE2 scheme only
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's from MRZ	
InternationalPassport_BR_TYPE1 InternationalPassport_BR_TYPE2	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's birth date from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	

Scheme	Field	Field description	Comments
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the license	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	Nationality	Nationality of the document holder	

Scheme	Field	Field description	Comments
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's from MRZ	
InternationalPassport_CA_TYPE1 InternationalPassport_CA_TYPE2	CheckDates	Document check dates	In the InternationalPassport_CA_TYPE2 scheme only
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's birth date from MRZ	
	DateOfExpiry	Document expiry date	

Scheme	Field	Field description	Comments
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType	Document type	In the InternationalPassport_CA_TYPE2 scheme only
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the license	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	

Scheme	Field	Field description	Comments
	Nationality	Nationality of the document holder	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Personal code	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's from MRZ	In the InternationalPassport_CA_TYPE1 scheme only
InternationalPassport_CN_TYPE1 InternationalPassport_CN_TYPE3 InternationalPassport_CN_TYPE4 InternationalPassport_CN_TYPE5 InternationalPassport_CN_TYPE6	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	

Scheme	Field	Field description	Comments
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	

Scheme	Field	Field description	Comments
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	Nationality	Nationality of the document holder	In the InternationalPassport_CN_TYPE3 and InternationalPassport_CN_TYPE4 scheme only
	Nationality_EN	Document holder's nationality in English	Except the InternationalPassport_CN_TYPE1 scheme
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Personal code	In the InternationalPassport_CN_TYPE4 scheme only
	PlaceOfBirth	Document holder's place of birth	Except the InternationalPassport_CN_TYPE5 and InternationalPassport_CN_TYPE6 scheme
	PlaceOfBirth_EN	Document holder's place of birth in English	

Scheme	Field	Field description	Comments
	PlaceOfIssue	Region where the document was issued	Except the InternationalPassport_CN_TYPE5 and InternationalPassport_CN_TYPE6 scheme
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_CZ_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the license	
	IssuedBy_MRZ	The authority that issued the document from MRZ	

Scheme	Field	Field description	Comments
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_EN	Nationality of the document holder in English	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Document holder's personal code	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	

Scheme	Field	Field description	Comments
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_DE_TYPE1 InternationalPassport_DE_TYPE2 InternationalPassport_DE_TYPE3	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType	Document type	Except the InternationalPassport_DE_TYPE3 scheme
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	In the InternationalPassport_DE_TYPE1 scheme only
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_MRZ	The authority that issued the document from MRZ	

Scheme	Field	Field description	Comments
	LastName	Document holder's last name	
	LastName_LINE2	Second line of the document holder's last name	Except the InternationalPassport_DE_TYPE1 scheme
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex	

Scheme	Field	Field description	Comments
		from MRZ	
InternationalPassport_DZ_TYPE1	DateOfBirth	Document holder's birth date	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	

Scheme	Field	Field description	Comments
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	Nationality	Document holder's nationality	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalNumber	Document holder's personal number	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place	

Scheme	Field	Field description	Comments
		of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_ES_TYPE1 InternationalPassport_ES_TYPE2 InternationalPassport_ES_TYPE3 InternationalPassport_ES_TYPE4	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the license	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	

Scheme	Field	Field description	Comments
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	MiddleName	Document holder's patronymic name	In the InternationalPassport_ES_TYPE4 scheme only
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional second line of MRZ	
	PersonalCode	Document holder's personal code	In the InternationalPassport_ES_TYPE1 and InternationalPassport_ES_TYPE2 scheme only
	PlaceOfBirth	Document holder's place of birth	

Scheme	Field	Field description	Comments
	RFID	Number of RFID chip	In the InternationalPassport_ES_TYPE1 scheme only
	Residence	Document holder's residence	In the InternationalPassport_ES_TYPE3 and InternationalPassport_ES_TYPE4 scheme only
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_GE_TYPE1 InternationalPassport_GE_TYPE2 InternationalPassport_GE_TYPE3	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	

Scheme	Field	Field description	Comments
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the license	
	IssuedBy_EN	The authority that issued the license in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	Nationality	Document holder's nationality	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Document holder's nationality from MRZ	

Scheme	Field	Field description	Comments
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Document holder's personal code	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_GR_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	

Scheme	Field	Field description	Comments
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	Height	Document holder's height	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	

Scheme	Field	Field description	Comments
	Nationality	Nationality of the document holder	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_HR_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date	

Scheme	Field	Field description	Comments
		from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	

Scheme	Field	Field description	Comments
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_HU_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	

Scheme	Field	Field description	Comments
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	NameAtBirth	Document holder's name at birth	
	Nationality	Nationality of the document holder	

Scheme	Field	Field description	Comments
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_IL_TYPE1 InternationalPassport_IL_TYPE2	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	

Scheme	Field	Field description	Comments
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line from MRZ	
	MRZ_LINE2	The second line from MRZ	
	Nationality	Nationality of the document holder	

Scheme	Field	Field description	Comments
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalNumber	Document holder's personal number	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_IN_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date	

Scheme	Field	Field description	Comments
		from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	

Scheme	Field	Field description	Comments
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_IT_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	

Scheme	Field	Field description	Comments
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	

Scheme	Field	Field description	Comments
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_JP_TYPE1	Address	Document holder's address	
	DateOfBirth	Document holder's date of birth	

Scheme	Field	Field description	Comments
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last	

Scheme	Field	Field description	Comments
		name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_KG_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	

Scheme	Field	Field description	Comments
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the	

Scheme	Field	Field description	Comments
		machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Personal code	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassp	DateOfBirth	Document holder's date	

Scheme	Field	Field description	Comments
ort_KZ_TYPE1 InternationalPassp ort_KZ_TYPE2		of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	In the InternationalPasspor t_KZ_TYPE1 scheme only
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	In the InternationalPasspor t_KZ_TYPE1 scheme only

Scheme	Field	Field description	Comments
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Personal code	In the InternationalPassport_KZ_TYPE1 scheme only
	PlaceOfBirth	Document holder's place of birth	

Scheme	Field	Field description	Comments
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_LU_TYPE1 InternationalPassport_LU_TYPE2	DateOfBirth	Document holder's birth date	
	DateOfBirth_MRZ	Document holder's birth date from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	Height	Document holder's height	
	IssuedBy	The authority that issued the document	
	IssuedBy_MRZ	The authority that issued the document from MRZ	

Scheme	Field	Field description	Comments
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_MD_TYPE1 InternationalPassp	DateOfBirth	Document holder's date of birth	

Scheme	Field	Field description	Comments
ort_MD_TYPE2	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	

Scheme	Field	Field description	Comments
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Personal code	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_PH_TYPE1 InternationalPassport_PH_TYPE2	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	

Scheme	Field	Field description	Comments
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	In the InternationalPassport_PH_TYPE2 scheme only
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	MiddleName	Document holder's patronymic name	
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Nationality of the document holder from MRZ	

Scheme	Field	Field description	Comments
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_PL_TYPE1 InternationalPassport_PL_TYPE2	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	

Scheme	Field	Field description	Comments
	IssuedBy	The authority that issued the document	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Document holder's nationality	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Personal code	In the InternationalPassport_PL_TYPE2 scheme only

Scheme	Field	Field description	Comments
	PersonalNumber	Personal number	In the InternationalPassport_PL_TYPE1 scheme only
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_RU_BIOMETRIC	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	

Scheme	Field	Field description	Comments
	Hologram	Document hologram	
	IssuedBy	The authority that issued the document	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	MiddleName	Document holder's patronymic name	
	Nationality	Document holder's nationality	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	

Scheme	Field	Field description	Comments
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_SE_TYPE1 InternationalPassport_SE_TYPE2	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	

Scheme	Field	Field description	Comments
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	Height	Document holder's height	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_EN	Document holder's	

Scheme	Field	Field description	Comments
		nationality in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Personal code	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_EN	Document holder's sex in English	In the InternationalPassport_SE_TYPE1 scheme only
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_SI_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	

Scheme	Field	Field description	Comments
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the	

Scheme	Field	Field description	Comments
		machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Personal code	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	

Scheme	Field	Field description	Comments
InternationalPassport_SK_TYPE2 InternationalPassport_SK_TYPE3	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the	

Scheme	Field	Field description	Comments
		machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Personal code	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_SY_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	

Scheme	Field	Field description	Comments
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DocumentType_MRZ	Document type from MRZ	
	FatherFirstName	Document holder's father first name	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	MotherFirstName	Document holder's	

Scheme	Field	Field description	Comments
		mother first name	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_TJ_TYPE1 InternationalPassport_TJ_TYPE2 InternationalPassport_TJ_TYPE3	DateOfBirth	Document holder's birth date	
	DateOfBirth_MRZ	Document holder's birth date from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	

Scheme	Field	Field description	Comments
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	MiddleName	Document holder's	Except the

Scheme	Field	Field description	Comments
		patronymic name	InternationalPassport_TJ_TYPE2 scheme
	Nationality	Document holder's nationality	
	Nationality_EN	Nationality of the document holder in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	In the InternationalPassport_TJ_TYPE2 scheme only
	PlaceOfBirth_EN	Document holder's place of birth in English	In the InternationalPassport_TJ_TYPE2 scheme only
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_TR_TYPE1	DateOfBirth	Document holder's date of birth	

Scheme	Field	Field description	Comments
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	

Scheme	Field	Field description	Comments
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Personal code	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_UA_TYPE1 InternationalPassport_UA_TYPE2	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	

Scheme	Field	Field description	Comments
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Document holder's nationality	
	Nationality_EN	Document holder's	

Scheme	Field	Field description	Comments
		nationality in English	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Personal code	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_UK_TYPE1 InternationalPassport_UK_TYPE2 InternationalPassport_UK_TYPE3	CheckDates	Document check dates	In the InternationalPassport_UK_TYPE3 scheme only
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	

Scheme	Field	Field description	Comments
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	

Scheme	Field	Field description	Comments
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_US_TYPE1 InternationalPassport_US_TYPE2	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	

Scheme	Field	Field description	Comments
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the	

Scheme	Field	Field description	Comments
		machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Document holder's nationality	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
InternationalPassport_UY_TYPE1 InternationalPassp	Address	Document holder's address	In the InternationalPassport_UY_TYPE1 scheme

Scheme	Field	Field description	Comments
ort_UY_TYPE2			only
	Code	Document code	In the InternationalPassport_UY_TYPE1 scheme only
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType	Document type	In the InternationalPassport_UY_TYPE1 scheme only
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_MRZ	The authority that issued the document from MRZ	

Scheme	Field	Field description	Comments
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Personal code	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	

Scheme	Field	Field description	Comments
InternationalPassport_UZ_TYPE1 InternationalPassport_UZ_TYPE2	DateOfBirth	Document holder's birth date	
	DateOfBirth_MRZ	Document holder's birth date from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType_MRZ	Document type from MRZ	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_EN	The authority that issued the document in English	
	IssuedBy_MRZ	The authority that issued the document from MRZ	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last	

Scheme	Field	Field description	Comments
		name in English	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	MiddleName	Document holder's patronymic name	In the InternationalPassport_UZ_TYPE1 scheme only
	Nationality	Document holder's nationality	
	Nationality_EN	Document holder's nationality in English	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place	

Scheme	Field	Field description	Comments
		of birth in English	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
MRZ_BG_VEHICLEREGISTRATION MRZ_CH_DRIVERLICENSE MRZ_FR_ID MRZ_MRP MRZ_MRV_A MRZ_MRV_B MRZ_RU_PASSPORT MRZ_RU_VISA MRZ_TD1 MRZ_TD2	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry_MRZ	Document's expiry date from MRZ	Except the MRZ_CH_DRIVERLICENSE and MRZ_RU_PASSPORT scheme
	DateOfIssue_MRZ	Date of document's issue from MRZ	In the MRZ_BG_VEHICLEREGISTRATION, MRZ_FR_ID, MRZ_RU_PASSPORT and MRZ_RU_VISA scheme only
	DepartmentCode_MRZ	Department code from MRZ	In the MRZ_RU_PASSPORT scheme only
	DocumentType_MRZ	Document type from MRZ	
	FirstName_MRZ	Document holder's first name from MRZ	
	IDVisa_MRZ	Visa ID from MRZ	In the MRZ_RU_VISA scheme only
	InvitationNumber_MRZ	Number of invitation from MRZ	In the MRZ_RU_VISA scheme only

Scheme	Field	Field description	Comments
	IssuedBy_MRZ	Issuer of the document from MRZ	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the MRZ	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	MRZ_LINE3	The third line of MRZ	In the MRZ_BG_VEHICLEREGISTRATION, MRZ_CH_DRIVERLICENSE and MRZ_TD1 scheme only
	Nationality_MRZ	Document holder's nationality from MRZ	Except the MRZ_FR_ID scheme
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE1	Optional MRZ line	In the MRZ_BG_VEHICLEREGISTRATION, MRZ_CH_DRIVERLICENSE, MRZ_FR_ID, MRZ_RU_VISA and MRZ_TD1 scheme only
	OptionalData_MRZ_LINE2	Optional MRZ line	Except the MRZ_FR_ID scheme
	Owner_MRZ	Owner from MRZ	In the MRZ_BG_VEHICLEREGISTRATION scheme

Scheme	Field	Field description	Comments
			only
	PersonalCode_MRZ	Document's personal code from MRZ	In the MRZ_RU_VISA scheme only
	Sex_MRZ	Document holder's sex from MRZ	
	VIN_MRZ	Vehicle identification number (VIN) from MRZ	In the MRZ_BG_VEHICLEREGISTRATION scheme only
	VehicleNumber_MRZ	Vehicle license number from MRZ	In the MRZ_BG_VEHICLEREGISTRATION and MRZ_CH_DRIVERLICENSE scheme only
MarriageCertificate_RU_TYPE1	DateOfBirth_1	Birth date of partner 1	
	DateOfBirth_2	Birth date of partner 2	
	DateOfIssue	Document issue date	
	DateOfMarriage	Date of marriage	
	FirstName_1	First name of partner 1	
	FirstName_2	First name of partner 2	
	FullNumber	Document full number	
	HusbandLastName	Last name of husband	
	LastName_1	Last name of partner 1	

Scheme	Field	Field description	Comments
	LastName_2	Last name of partner 2	
	MiddleName_1	Patronymic name of partner 1	
	MiddleName_2	Patronymic name of partner 2	
	Number	Document number	
	PlaceOfBirth_1	Birth place of partner 1	
	PlaceOfBirth_2	Birth place of partner 2	
	Series	Document series	
	WifeLastName	Last name of wife	
MigrationCard_RU_TYPE1	DateOfBirth	Document holder's date of birth	
	FirstName	Document holder's first name	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	Number	Document number	
	PersonalCode	Personal code	
	Series	Document series	

Scheme	Field	Field description	Comments
PassportCard_US_T YPE1 PassportCard_US_T YPE2	DateOfBirth	Document holder's date of birth	
	DateOfExpiry	Document expiry date	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	LastName	Document holder's last name	
	Nationality	Nationality of the document holder	
	Number	Document number	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
Passport_BY_PAGE3 1_TYPE1 Passport_BY_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	In the Passport_BY_TYPE1 scheme only
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	In the Passport_BY_TYPE1 scheme only
	DateOfIssue	Document issue date	

Scheme	Field	Field description	Comments
	DocumentType_MRZ	Document type from MRZ	In the Passport_BY_TYPE1 scheme only
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	In the Passport_BY_TYPE1 scheme only
	FirstName_MRZ	Document holder's first name from MRZ	In the Passport_BY_TYPE1 scheme only
	IssuedBy	Document's issuer	
	IssuedBy_EN	The authority that issued the document in English	In the Passport_BY_TYPE1 scheme only
	IssuedBy_MRZ	Issuer of the document from MRZ	In the Passport_BY_TYPE1 scheme only
	IssuedBy_RU	Document's issuer in Russian language	In the Passport_BY_PAGE31_TYPE1 scheme only
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	In the Passport_BY_TYPE1 scheme only
	LastName_MRZ	Document holder's last name from MRZ	In the Passport_BY_TYPE1 scheme only

Scheme	Field	Field description	Comments
	MRZ	Full contents of the machine-readable zone	In the Passport_BY_TYPE1 scheme only
	MRZ_LINE1	The first line of MRZ	In the Passport_BY_TYPE1 scheme only
	MRZ_LINE2	The second line of MRZ	In the Passport_BY_TYPE1 scheme only
	MiddleName	Document holder's patronymic name	In the Passport_BY_PAGE31_TYPE1 scheme only
	Nationality	Nationality of the document holder from MRZ	In the Passport_BY_TYPE1 scheme only
	Nationality_EN	Document holder's nationality in English	In the Passport_BY_TYPE1 scheme only
	Nationality_MRZ	Nationality of the document holder from MRZ	In the Passport_BY_TYPE1 scheme only
	Number	Document number	In the Passport_BY_TYPE1 scheme only
	Number_MRZ	Document number from MRZ	In the Passport_BY_TYPE1 scheme only
	OptionalData_MRZ_LINE2	MRZ optional line	In the Passport_BY_TYPE1 scheme only

Scheme	Field	Field description	Comments
	PersonalCode	Document's personal code	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfBirth_EN	Document holder's place of birth in English	In the Passport_BY_TYPE1 scheme only
	PlaceOfBirth_RU	Document holder's place of birth in Russian language	In the Passport_BY_PAGE31_TYPE1 scheme only
	Sex	Document holder's sex	In the Passport_BY_TYPE1 scheme only
	Sex_MRZ	Document holder's sex from MRZ	In the Passport_BY_TYPE1 scheme only
Passport_RU	AuthoritySignature	Authority signature	
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfIssue	Document issue date	
	DateOfIssue_MRZ	Date of issue from MRZ	
	DepartmentCode	The code of the authority that issued the document	
	DepartmentCode_MRZ	Department code from	

Scheme	Field	Field description	Comments
		MRZ	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	Document's issuer	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	MiddleName	Document holder's patronymic name	
	MiddleName_MRZ	Patronymic name from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	PlaceOfBirth	Document holder's place of birth	

Scheme	Field	Field description	Comments
	Series	Document series	
	Series_MRZ	Series from MRZ	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
ResidenceLicense_B R_TYPE1	CPF	Document holder's CPF number	
	DateOfBirth	Document holder's date of birth	
	DateOfSubscription_No_C reci	CRECI registration number's date of Issue	
	Filiation_LINE1	Filiation first line	
	Filiation_LINE2	Filiation second line	
	FirstName	Document holder's first name	
	Nationality	Document holder's nationality	
	Number	Document number	
	Registration_No_Creci	CRECI registration number	
	Validity	Document expiry date	
ResidencePermit_A	AcademicDegree	Document holder's	Except the

Scheme	Field	Field description	Comments
T_TYPE1 ResidencePermit_A T_TYPE2 ResidencePermit_A T_TYPE3 ResidencePermit_A T_TYPE4		academic degree	ResidencePermit_AT_ TYPE2 scheme
	Comments	Remarks	Except the ResidencePermit_AT_ TYPE2 scheme
	Comments_BACK	Remarks on the back side	In the ResidencePermit_AT_ TYPE2 scheme only
	Comments_BACK_LINE0	The first line of the remarks on the back side	In the ResidencePermit_AT_ TYPE2 scheme only
	Comments_BACK_LINE1	The second line of the remarks on the back side	In the ResidencePermit_AT_ TYPE2 scheme only
	Comments_FRONT	Remarks on the front side	In the ResidencePermit_AT_ TYPE2 scheme only
	Comments_FRONT_LINE0	The first line of the remarks on the front side	In the ResidencePermit_AT_ TYPE2 scheme only
	Comments_FRONT_LINE1	The second line of the remarks on the front side	In the ResidencePermit_AT_ TYPE2 scheme only
	DVRNumber	Document DVR number	In the ResidencePermit_AT_ TYPE3 and ResidencePermit_AT_ TYPE4 scheme only
	DateAndPlaceOfBirth	Document holder's date and place of birth	Except the ResidencePermit_AT_ TYPE1 scheme

Scheme	Field	Field description	Comments
	DateAndPlaceOfIssue	Date and place of issue	In the ResidencePermit_AT_TYPE2 scheme only
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	Except the ResidencePermit_AT_TYPE3 scheme
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	Except the ResidencePermit_AT_TYPE3 scheme
	DateOfIssue	Document issue date	
	Eyes	Document holder's eyes color	In the ResidencePermit_AT_TYPE4 scheme only
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	Except the ResidencePermit_AT_TYPE3 scheme
	Height	Document holder's height	In the ResidencePermit_AT_TYPE4 scheme only
	IssuedBy	The authority that issued the document	
	IssuedBy_LINE0	The first line of the authority name that	In the ResidencePermit_AT_

Scheme	Field	Field description	Comments
		issued the document	TYPE2 scheme only
	IssuedBy_LINE1	The second line of the authority name that issued the document	In the ResidencePermit_AT_TYPE2 scheme only
	IssuedBy_LINE2	The third line of the authority name that issued the document	In the ResidencePermit_AT_TYPE2 scheme only
	IssuedBy_LINE3	The fourth line of the authority name that issued the document	In the ResidencePermit_AT_TYPE2 scheme only
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	Except the ResidencePermit_AT_TYPE3 scheme
	MRZ	Full contents of the machine-readable zone	Except the ResidencePermit_AT_TYPE3 scheme
	MRZ_LINE1	The first line of MRZ	Except the ResidencePermit_AT_TYPE3 scheme
	MRZ_LINE2	The second line of MRZ	Except the ResidencePermit_AT_TYPE3 scheme
	MRZ_LINE3	The third line of MRZ	Except the ResidencePermit_AT_TYPE3 scheme
	Nationality	Nationality of the document holder	

Scheme	Field	Field description	Comments
	Nationality_MRZ	Nationality of the document holder from MRZ	Except the ResidencePermit_AT_TYPE3 scheme
	Number	Document number	
	Number_MRZ	Document number from MRZ	Except the ResidencePermit_AT_TYPE3 scheme
	OtherInfo	Other info about document holder	Except the ResidencePermit_AT_TYPE2 scheme
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfIssue	Place of issue	
	Position	Document holder's position	In the ResidencePermit_AT_TYPE3 and ResidencePermit_AT_TYPE4 scheme only
	RFID	Number of RFID chip	In the ResidencePermit_AT_TYPE2 scheme only
	Sex	Document holder's sex	
	TypeOfPermit	Type of permit	
	TypeOfPermit_LINE0	The first line of the permit type	In the ResidencePermit_AT_TYPE2 scheme only
	TypeOfPermit_LINE1	The second line of the permit type	In the ResidencePermit_AT_

Scheme	Field	Field description	Comments
			TYPE2 scheme only
ResidencePermit_DE_TYPE1	ChipNumber	Number of contactless chip	
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	EyeColor	Document holder's eyes color	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	Height	Document holder's height	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	

Scheme	Field	Field description	Comments
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	MRZ_LINE3	The third line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Notation	Document notation	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	PlaceOfBirth	Document holder's place of birth	
	PlaceOfIssue	Place of issue	
	Residence	Document holder's residence	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	

Scheme	Field	Field description	Comments
	TypeOfResidence	Type of residence	
ResidencePermit_ES_TYPE1 ResidencePermit_ES_TYPE2	Address_0	Document holder's address	In the ResidencePermit_ES_TYPE1 scheme only
	Address_FULL	Document holder's full address	
	Comments_BACK_LINE0	The first line of remarks on the back side	In the ResidencePermit_ES_TYPE1 scheme only
	Comments_BACK_LINE1	The second line of remarks on the back side	In the ResidencePermit_ES_TYPE1 scheme only
	Comments_BACK_LINE2	The third line of remarks on the back side	In the ResidencePermit_ES_TYPE1 scheme only
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	In the ResidencePermit_ES_TYPE1 scheme only
	DateOfExpiry	Document's expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	In the ResidencePermit_ES_TYPE1 scheme only
	DateOfIssue	Date of issue	In the ResidencePermit_ES_TYPE1 scheme only
	DateOfRegistration	Date of resident	In the

Scheme	Field	Field description	Comments
		registration	ResidencePermit_ES_TYPE2 scheme only
	FirstName_MRZ	Document holder's first name from MRZ	In the ResidencePermit_ES_TYPE1 scheme only
	FullName	Document holder's full name	
	LastName_MRZ	Document holder's last name from MRZ	In the ResidencePermit_ES_TYPE1 scheme only
	Locality	Document holder's locality	
	MRZ	Full contents of the machine-readable zone	In the ResidencePermit_ES_TYPE1 scheme only
	MRZ_LINE1	The first line of MRZ	In the ResidencePermit_ES_TYPE1 scheme only
	MRZ_LINE2	The second line of MRZ	In the ResidencePermit_ES_TYPE1 scheme only
	MRZ_LINE3	The third line of MRZ	In the ResidencePermit_ES_TYPE1 scheme only
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	In the ResidencePermit_ES_TYPE1 scheme only

Scheme	Field	Field description	Comments
	Number	Document number	
	Number_MRZ	Document number from MRZ	In the ResidencePermit_ES_TYPE1 scheme only
	OptionalData_MRZ_LINE2	Optional MRZ line	In the ResidencePermit_ES_TYPE1 scheme only
	PersonalNumber	Personal number	
	PlaceOfBirth	Document holder's place of birth	In the ResidencePermit_ES_TYPE1 scheme only
	PlaceOfIssue	Place of issue	In the ResidencePermit_ES_TYPE1 scheme only
	ProvinceOfIssue	Province of issue	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	In the ResidencePermit_ES_TYPE1 scheme only
	TypeOfPermission	Type of permission	In the ResidencePermit_ES_TYPE1 scheme only
ResidencePermit_LU_TYPE1 ResidencePermit_LU_TYPE2 ResidencePermit_LU_TYPE3	Comments	Remarks	In the ResidencePermit_LU_TYPE3 scheme only
	Comments_BACK	Remarks on the back side	In the ResidencePermit_LU_TYPE2 scheme only

Scheme	Field	Field description	Comments
	Comments_FRONT	Remarks on the front side	In the ResidencePermit_LU_TYPE2 scheme only
	DateOfBirth	Document holder's date of birth	Except the ResidencePermit_LU_TYPE3 scheme
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType	Document type	Except the ResidencePermit_LU_TYPE1 scheme
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	In the ResidencePermit_LU_TYPE1 scheme only
	LastName	Document holder's last name	In the ResidencePermit_LU_TYPE2 scheme only
	LastName_MRZ	Document holder's last name from MRZ	

Scheme	Field	Field description	Comments
	MRZ	Full contents of the machine-readable zone	
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	Except the ResidencePermit_LU_TYPE3 scheme
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PassportNumber	Passport number	In the ResidencePermit_LU_TYPE3 scheme only
	PlaceOfBirth	Document holder's place of birth	Except the ResidencePermit_LU_TYPE3 scheme
	PlaceOfIssue	Place of issue	
	Profession	Document holder's profession	In the ResidencePermit_LU_TYPE1 scheme only
	Sex	Document holder's sex	Except the ResidencePermit_LU_TYPE3 scheme
	Sex_MRZ	Document holder's sex from MRZ	

Scheme	Field	Field description	Comments
ResidencePermit_R U_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	IssuedBy_MRZ	Issuer of the document from	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LastName_MRZ	Document holder's last name from MRZ	

Scheme	Field	Field description	Comments
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	MiddleName	Document holder's patronymic name	
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_EN	Document holder's sex in English	
	Sex_MRZ	Document holder's sex from MRZ	
ResidencePermit_R U_TYPE2	DateOfBirth	Document holder's date of birth	

Scheme	Field	Field description	Comments
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	MiddleName	Document holder's patronymic name	
	Nationality_MRZ	Document holder's nationality from MRZ	

Scheme	Field	Field description	Comments
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	PlaceOfBirth	Document holder's place of birth	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
ResidencePermit_SI_TYPE1 ResidencePermit_SI_TYPE2	Comments	Remarks	In the ResidencePermit_SI_TYPE2 scheme only
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	
	DocumentType	Document type	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	

Scheme	Field	Field description	Comments
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	In the ResidencePermit_SI_TYPE2 scheme only
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	MRZ_LINE3	The third line of MRZ	In the ResidencePermit_SI_TYPE2 scheme only
	Nationality	Document holder's nationality	In the ResidencePermit_SI_TYPE2 scheme only
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	In the ResidencePermit_SI_TYPE2 scheme only
	PlaceOfBirth	Document holder's place	In the

Scheme	Field	Field description	Comments
		of birth	ResidencePermit_SL_TYPE2 scheme only
	Position	Document holder's position	
	Sex	Document holder's sex	
	Sex_EN	Document holder's sex in English	
	Sex_MRZ	Document holder's sex from MRZ	
	Type_EN	Document type in English	In the ResidencePermit_SL_TYPE2 scheme only
ResidencePermit_SK_TYPE1 ResidencePermit_SK_TYPE2	Comments_BACK	Remarks on the back side	
	Comments_FRONT	Remarks on the front side	In the ResidencePermit_SK_TYPE1 scheme only
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Document issue date	

Scheme	Field	Field description	Comments
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	IssuedBy	The authority that issued the document	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	Nationality	Document holder's nationality	
	Nationality_MRZ	Document holder's nationality from MRZ	
	Number	Document number	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PersonalCode	Owner identification number	
	PlaceOfBirth	Document holder's place of birth	

Scheme	Field	Field description	Comments
	ReasonOfIssue	Reason of issue	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
SocialSecurityNumber_RU_TYPE1 SocialSecurityNumber_RU_TYPE2	DateOfBirth	Document holder's date of birth	
	FirstName	Document holder's first name	
	LastName	Document holder's last name	
	MiddleName	Document holder's patronymic name	
	Number	Document number	
	PlaceOfBirth	Document holder's place of birth	
	VehiclePassport_RU_TYPE1	DateOfIssue	Document issue date
Number		Document number	
VIN		Vehicle identification number	
VehicleRegistration_AZ_TYPE1	Body	Document body	
	ChassisNumber	Vehicle chassis number	
	DocumentType	Document type	

Scheme	Field	Field description	Comments
	EngineCapacity	Vehicle engine capacity	
	EngineNumber	Vehicle engine number	
	Model	Vehicle model	
	Number	Vehicle number	
	RegistrationNumber	Vehicle registration number	
	YearOfManufacture	Vehicle manufacture year	
VehicleRegistration_BY_TYPE1	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	MiddleName	Document holder's patronymic name	
	Number	Primary document number	
	RegistrationPlate	Vehicle registration plate	
	Series	Document series	

Scheme	Field	Field description	Comments
	VIN	Vehicle identification number	
	VIN_EX	The second line of vehicle identification number	
	VehicleModel	Vehicle model	
	VehicleType	Vehicle type	
VehicleRegistration_CZ_TYPE1	Address	Document holder's address	
	Address_0	Document holder's address, continued	
	Address_1	Document holder's address, continued	
	BusinessName	Document holder's business name	
	Capacity	Vehicle engine capacity	
	Color	Vehicle color	
	Comments	Remarks	
	CouplingDevice	Vehicle coupling device	
	DateOfFirstRegistration	Date of first registration	
	DateOfRegistration	Date of registration	
	Make	Vehicle make	

Scheme	Field	Field description	Comments
	Mass_1	Vehicle mass 1	
	Mass_2	Vehicle mass 2	
	Mass_3	Vehicle mass 3	
	MaxMass	Vehicle max mass	
	MaxPower_1	Vehicle max power 1	
	MaxPower_2	Vehicle max power 2	
	MaxSpeed	Vehicle max speed	
	Model	Vehicle model	
	Number	Document number	
	NumberOfSeats	Number of seats	
	NumberOfStandingPlaces	Number of standing places	
	Number_EX	Secondary document number	
	Power	Vehicle engine power	
	Reference	Vehicle reference	
	TrailerMass_1	Trailer mass 1	
	TrailerMass_2	Trailer mass 2	
	Transmission	Vehicle transmission	

Scheme	Field	Field description	Comments
	TypeOfFuel	Type of fuel	
	TypeVariantVersion	Vehicle type	
	VIN	Vehicle identification number	
VehicleRegistration_KZ_TYPE1	Apartment	Document holder's address	
	Body	Document body	
	Building	Building	
	Category	Vehicle category	
	Chassis	Vehicle chassis	
	City	City	
	Color	Vehicle color	
	DateOfIssue	Document issue date	
	District	District	
	Engine	Vehicle engine	
	FirstName	Document holder's first name	
	FirstName_BACK	Document holder's first name on the back side	
LastName	Document holder's last name		

Scheme	Field	Field description	Comments
	LastName_BACK	Document holder's last name on the back side	
	MaxWeight	Vehicle max weight	
	MiddleName	Document holder's patronymic name	
	MiddleName_BACK	Document holder's patronymic name on the back side	
	Model	Vehicle model	
	Note	Additional information	
	Number	Document number	
	Number_BACK	Document number on the back side	
	RegionOfResidence	Document holder's region of residence	
	RegistrationNumber	Vehicle registration number	
	Street	Document holder's street	
	Volume	Engine volume	
	Weight	Vehicle weight	
	Year	Year of manufacture	
VehicleRegistration	Address_FULL	Driver's full address	

Scheme	Field	Field description	Comments
_RU_TYPE2 VehicleRegistration _RU_TYPE1	BodyNumber	Body number	
	ChassisNumber	Vehicle chassis number	
	Color	Vehicle color	
	DocumentType	Document type	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	LicensePlate	Vehicle registration number	
	MiddleName	Document holder's patronymic name	
	Model	Vehicle model	
	Model_EN	Vehicle model in English	
	Number	Document number	
	VIN	Vehicle identification number	
	Year	Year of manufacture	

Scheme	Field	Field description	Comments
VehicleRegistration_SK_TYPE1	Address	Document holder's address	
	BusinessName	Document holder's business name	
	Capacity	Vehicle engine capacity	
	Category	Vehicle category	
	Color	Vehicle color	
	DateOfExpiry	Document expiry date	
	DateOfFirstRegistration	Date of first registration	
	DateOfRegistration	Date of registration	
	IssuedBy	The authority that issued the document	
	Make	Vehicle make	
	Mass	Vehicle mass	
	MaxMass	Vehicle max mass	
	MaxPower	Vehicle max power	
	MaxSpeed	Vehicle max speed	
	Model	Vehicle model	
	Name_EX	Other document's holder name	

Scheme	Field	Field description	Comments
	NumberOfSeats	Number of seats	
	NumberOfStandingPlaces	Number of standing places	
	NumberOfType	Identifier of type	
	Number_EX	Secondary document number	
	PermissibleMass	Vehicle permissible mass	
	Power	Vehicle engine power	
	RegistrationNumber	Vehicle registration number	
	TypeOfFuel	Type of fuel	
	TypeVariantVersion	Vehicle type	
	VIN	Vehicle identification number	
	VIN_FRONT	Vehicle identification number (only front side)	
	VehicleRegistration_SV_TYPE1	ChassisNumber	Vehicle chassis number
Color		Vehicle color	
FirstName		Document holder's first name	
Nit		ID number	

Scheme	Field	Field description	Comments
	Number	Document number	
	VIN	Vehicle identification number	
VehicleRegistration_UA_TYPE1	DateOfFirstRegistration	Date of first registration	
	DateOfRegistration	Date of registration	
	Description	Additional information	
	DocumentType	Document type	
	FirstName	Document holder's first name	
	FirstName_EN	Document holder's first name in English	
	LastName	Document holder's last name	
	LastName_EN	Document holder's last name in English	
	Make	Vehicle make	
	MaxMass	Vehicle max mass	
	MiddleName	Document holder's patronymic name	
	Number	Document number	
	RegistrationNumber	Vehicle registration number	

Scheme	Field	Field description	Comments
	VIN	Vehicle identification number	
	YearOfManufacture	Year of manufacture	
Visa_RU_TYPE1	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfIssue	Visa issue date	
	DocumentType	Type of visa	
	Duration	Duration of visa	
	EntryFromDate	Entry from date	
	FirstName_MRZ	Document holder's first name from MRZ	
	FromTo	Duration of stay	
	FullName	Document holder's full name	
	FullName_EN	Document holder's full name in English	
	IDVisa_MRZ	Visa ID from MRZ	
	InvitationNumber	Invitation number	
	InvitationNumber_MRZ	Invitation number from MRZ	

Scheme	Field	Field description	Comments
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Nationality of the document holder from MRZ	
	Number	Visa number	
	Number_MRZ	Visa number from MRZ	
	PassportNumber	Document holder's passport number	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
	StayUntilDate	Stay until date	
	Visald	Visa ID	
Visa_US_TYPE1	ControlNumber	Document control number	

Scheme	Field	Field description	Comments
	DateOfBirth	Document holder's date of birth	
	DateOfBirth_MRZ	Document holder's date of birth from MRZ	
	DateOfExpiry	Document expiry date	
	DateOfExpiry_MRZ	Document expiry date from MRZ	
	DateOfIssue	Visa issue date	
	FirstName	Document holder's first name	
	FirstName_MRZ	Document holder's first name from MRZ	
	LastName	Document holder's last name	
	LastName_MRZ	Document holder's last name from MRZ	
	MRZ	Full contents of the machine-readable zone	
	MRZ_LINE1	The first line of MRZ	
	MRZ_LINE2	The second line of MRZ	
	Nationality	Nationality of the document holder	
	Nationality_MRZ	Nationality of the document holder from	

Scheme	Field	Field description	Comments
		MRZ	
	Number_MRZ	Document number from MRZ	
	OptionalData_MRZ_LINE2	Optional MRZ line	
	PassportNumber	Passport number	
	PlaceOfIssue	Place of issue	
	Sex	Document holder's sex	
	Sex_MRZ	Document holder's sex from MRZ	
WorkPermit_RU_TY PE1	Activity	Document holder's activity	
	DateOfBirth	Document holder's date of birth	
	DateOfExpiry	Document expiry date	
	DateOfIssue	Document issue date	
	FirstName	Document holder's first name	
	LastName	Document holder's last name	
	MiddleName	Document holder's patronymic name	
	Nationality	Nationality of the	

Scheme	Field	Field description	Comments
		document holder	
	Number	Document number	
	Series	Document series	
WorkPermit_SG_TY PE1	DateOfApplication	Work application date	
	DateOfExpiry	Document expiry date	
	DateOfIssue	Document issue date	
	Employer	Employer company name	
	FullName	Document holder's full name	
	Number	Primary document number	
	Number_EX	Secondary document number	
	Occupation	Occupational title	
	Sector	Occupation sector	

Regular Expressions

This section describes the regular expression syntax supported by the ABBYY Mobile Capture SDK engine for capturing custom data fields (see [How to Capture a Custom Data Field](#)).

Note: All matches are always greedy (match as much as possible). The search stops at the first match: if a string contains two or more substrings matching your regular expression, only the first one (closest to the beginning) is matched.

Supported syntax

Pattern	Syntax	Examples and comments
Literal	any character or text, except metacharacters <code>\^\$. ?*+(){}[]</code>	<p><i>pill</i> matches "pill" in "caterpillar" <i>a</i> matches the first "a" in "caterpillar" but not the second (the search stops at the first match)</p> <p>Metacharacters are part of regular expression syntax; to match these literally, you have to escape them with a backslash. If you want to match <i>1+1</i>, the correct expression is <code>1\+1</code> — otherwise "+" has a special meaning.</p>
Any character	<code>.</code> (dot)	<i>s.t</i> matches "sat", "sit" but not "seat"
Character set	<code>[]</code>	<i>gr[ae]y</i> matches both "gray" and "grey" but not "greay"
Character range in a set	<code>-</code> (minus)	<i>[0-9]</i> matches a single digit concatenation is allowed: <i>[a-zA-Z0-9]</i> matches an alphanumeric character
Negated character set	<code>[^]</code>	<i>[^0-9]</i> matches anything that is not a digit
Shorthand classes	<code>\s</code> — any whitespace <code>\S</code> — anything that is not a whitespace <code>\d</code> — any digit <code>\D</code> — anything that is not a digit <code>\w</code> — a word character, which includes alphanumerics and punctuation marks <code>\W</code> — a non-word character	

Pattern	Syntax	Examples and comments
	<p>\R — a new line character or the CR LF sequence \v — a new line character but not the CR LF sequence \V — a non-new line character \h — a horizontal white space character \H — anything except horizontal white space</p>	
Non-printable characters	<p>\n — line feed LF \r — carriage return CR \t — tab character \f — form feed \a — bell character \u0007 \e — escape character</p>	
Unicode character	<p>\uFFFF \x{FFFF}</p>	<p>\u20AC or \x{20AC} matches the euro currency sign.</p>
Character by its hexadecimal index	<p>\xFF</p>	<p>\xA9 matches the copyright character in the Latin-1 character set</p>
Alternation	<p> </p>	<p><i>abc 123</i> matches either "abc" or "123" <i> word</i> matches either an empty string "" or "word"</p>
Repetitions	<p>+ * ? {n} {n,m} {n,} {,m}</p>	<p>+ matches once or more times * matches zero or more times ? matches zero times or once (optional match) {n} matches exactly n times {n,m} matches n to m times times {n,} matches n or more times {,m} matches zero or more times up to m</p>

Pattern	Syntax	Examples and comments
		<p>Note that all repetitions are greedy (prefer to match as much as possible): <i>c.+r</i> will match "caterpillar", not stopping with "cater". If you want to match up to the first occurrence of a certain character, use its negation: <i>c[^r]+r</i> will match "cater" in "caterpillar".</p>
Grouping	()	<p><i>(word)+</i> matches "word", "wordword" and so on</p>

Unsupported syntax

The following regular expression syntax features are not yet supported in ABBYY Mobile Capture SDK:

- Anchors: ^ (beginning of a line), \$ (end of a line), \b (word boundary) and its negation \B, and other.
- Lazy quantifiers such as +? or {n,m}? that prefer to match as few times as possible.
- Concatenation with nested character sets such as [[a-z][0-9]].
- Advanced features such as lookarounds, backreferences, possessive matches, named groups, non-capturing and atomic match groups, evaluation flag settings and other.

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zlib

zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.3, July 18th, 2005

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