

ABBYY



ABBYY Vantage

Identity Documents Document Skill Guide

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About ABBYY Vantage

ABBYY Vantage is a comprehensive Content Intelligence platform that provides AI-powered cognitive services and pre-trained and trainable skills that can "understand" business documents and extract actionable data and insights.

This no-code / low-code platform makes today's digital worker and processes smarter and empowers the new citizen developer to accelerate digital transformation initiatives and expand automation to new processes in a fast and simple way, making an immediate impact on business results and customer experience.

Types of documents that can be processed with Vantage

Vantage is capable of processing structured, semi-structured, and unstructured documents in a variety of input formats and languages.

- **Structured documents** are documents which always include the exact same information in the exact same space, such as pre-defined forms, where the data has been filled out within designated areas.
- **Semi-structured documents** are documents which generally include the same or similar information, but in each document the location, size, and number of fields may vary from document to document. Examples of semi-structured documents are bills, payment orders, and invoices.
- **Unstructured documents** contain information that is not structured in any way.

The Vantage platform comes with a set of , which can extract data from certain document types out-of-the-box (i.e. invoices, purchase orders, receipts, bills of lading, delivery notes). These skills can be adjusted according to specific requirements and further trained based on customer-specific documents.

Vantage users have also the option to design and train a completely new Document Skill, Classification Skill, and/or Process Skill based on their own document set.

Identity Documents - Document Skill

The **Identity Documents** skill extracts data from identity documents issued in various countries. It determines the uploaded document type and checks whether the data in the text fields, in the machine-readable zone, and in the barcode is consistent with each other.

You may upload a file containing several images to the Skill, however, all images should represent the same document (e. g. you can upload images of several passport pages or two sides of an ID card in a single file).

Listed below are some of the document classes supported by the skill:

- national identity documents: passports, e-passports, voter cards, citizenship cards, ID cards, photo cards, proof of age cards,
- other identity documents: diplomatic passports, seaman's identity documents, certificates of birth,
- soldier cards,
- refugee certificates,

- stateless documents,
- travel documents: visas, Laissez Passer, business travel cards, refugee travel documents, certificates of return, crew member certificates, entry/exit permits, China travel permits,
- Permission to the Local Border Traffic,
- documents for applying for social services: health insurance cards, social security cards, insurance board cards, social cards,
- documents for foreigners: residence permits, alien registration cards, address proofs, address cards, immigration cards, work permits, Employment Authorization Cards, resident cards, arrival/departure documents, border crossing cards,
- tax cards,
- company cards, service cards,
- professional certificates and licenses for certain types of activities, Accreditation Certificates,
- vehicle operator licenses: driving licenses / operator's licenses, learner permits, instruction permits, boat licenses, bicycle licenses,
- documents related to COVID-19: vaccination certificates, passenger locator forms,
- non-compulsory documents confirming nationality: certificate of Indian status, tribal ID cards, Pole's card,
- firearm licenses,
- vehicle registration cards,
- certain stamps and vignettes.

The Identity Documents skill provides high accuracy of data identification and extraction. The skill is ready to be used in production and does not require further training on your specific documents. The Identity Documents Skill cannot be further trained on customer documents. Using this skill requires a license.

Countries and languages

The skill supports a substantial number of languages and countries.

The list of supported document types by country is available upon request.

Extracted Fields

Field		Description
Name	Full Name	The document owner's full name.
	First Name	
	Surname	
	Middle Name	
Birth	Birth Date	The document owner's date of birth.
	Birth Place	The document owner's place of birth.
Other	Sex	The document owner's sex.
	Height	The document owner's height.
	Weight	The document owner's weight.
	Eye color	The document owner's eye color.
	Hair color	The document owner's hair color.
Address	Address	The document owner's address.
	Address Line 1	
	Address State	
	Address City	
	Address Postal Code	
Document	Class Name	The document class (e. g. IdentityCard, DrivingLicense, PassportPage).
	Document Name	The document type and the issuing country.
	Document Series	The document series.
	Document Number	The document number.
	Expiration Date	The document expiration date.
	Issuer Name	The document issuer name.
	Issuer Code	The document issuer code.
	Issue Date	The document issue date.

Field		Description
MRZ Data	Document Number	The document number specified in the machine-readable zone of the document.
	Expiration Date	The document expiration date specified in the machine-readable zone of the document.
	First Name	The document owner's first name specified in the machine-readable zone of the document.
	Surname	The document owner's surname specified in the machine-readable zone of the document.
	Birth Date	The document owner's date of birth specified in the machine-readable zone of the document.
Barcode	Document Number	The document number encoded in the barcode on the document.
	Expiration Date	The document expiration date encoded in the barcode on the document.
	First Name	The document owner's first name encoded in the barcode on the document.
	Surname	The document owner's surname encoded in the barcode on the document.
	Birth Date	The document owner's date of birth encoded in the barcode on the document.

Validation Rules

Rule	Description
Compare MRZ/Expiration Date to Current Date	Checks that the document hasn't expired.
Compare Document/Expiration Date to Current Date	
Compare Barcode/Expiration Date to Current Date	
Compare Birth/Birth Date to Current Date	Checks that the document owner's date of birth is in the past.
Compare Barcode/Birth Date to Current Date	
Compare MRZ/Birth Date to Current Date	
Compare Issue Date to Current Date	Checks that the document issue date is in the past.

Rule	Description
Compare Barcode/First Name to Name/ First Name	Checks that data in the First Name , Surname , Document Number , Birth Date , and Expiration Date text fields matches the corresponding data encoded in the barcode.
Compare Barcode/Surname to Name/ Surname	
Compare Barcode/DocNumber to Document/DocNumber	
Compare Barcode/Birth Date to Birth/Birth Date	
Compare Barcode/ExpDate to Document/ExpDate	
Compare Barcode/First Name to MRZ/First Name	Checks that data in the First Name , Surname , Document Number , Birth Date , and Expiration Date MRZ fields matches the corresponding data encoded in the barcode.
Compare Barcode/Surname to MRZ/Surname	
Compare Barcode/DocNumber to MRZ/DocNumber	
Compare Barcode/Birth Date to MRZ/Birth Date	
Compare Barcode/ExpDate to MRZ/ExpDate	
Compare MRZ/First Name to Name/ First Name	Checks that data in the First Name , Surname , Document Number , Birth Date , and Expiration Date text fields matches the data in the corresponding MRZ fields.
Compare MRZ/Surname to Name/ Surname	
Compare MRZ/DocNumber to Document/ DocNumber	
Compare MRZ/Birth Date to Birth/Birth Date	
Compare MRZ/ExpDate to Document/ ExpDate	

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Using a Skill in ABBYY Vantage

To use a skill in ABBYY Vantage, you need to import it to your Skill Catalog.

To import a skill, open the Skill Catalog and click the  **Import** button in the toolbar. In the dialog box that will open, specify a path to the archive that contains the skill you are importing.

This skill will be uploaded to your Skill Catalog and published.

If the chosen archive is larger than 2 GB, you will see a dialog box with a link to a shared folder and its credentials.

You should open this folder and upload the archive. The skill will be imported to Vantage automatically. The archive will then be deleted from the shared folder. All files uploaded to this folder afterwards will be transferred to the exception folder. Hence you may use this folder to import only one skill. The folder remains active for 14 days.

The version of the imported skill will be 1.0. If such skill previously existed in the tenant and was deleted, the version number of the deleted skill will be incremented and assigned to the imported skill. The version number of the imported default skills is always the same as at the time of export.

If the skill you are importing already exists in your Skill Catalog, ABBYY Vantage will display a warning message and will ask whether you want to create a new version of the existing skill or save the new skill under a different name. If you choose the latter, the new skill will be called *<Imported skill name New>*.


Importing a Process skill

If you import a Process skill that was exported without referenced skills, you have to make sure that all the referenced skills exist in the Skill Catalog. If necessary, such skills should be imported before the Process skill, otherwise you'll get an error when importing the Process skill.


If you import a Process skill that was exported with referenced skills, they will be imported as follows:


- If such a skill exists in the Catalog, it will not be imported. The skill from the Catalog will be used, even if the skill in the import archive has a newer version.
- If a skill with the same name exists in the Catalog, the skill will be imported and renamed. The link in the Process skill will be updated.

If the imported skill has shared folder import set up, this feature needs to be enabled manually after the import.

 **Note:** The availability of this feature depends on the user's role. For more information about roles, see Role-Based Access Control.

To publish a skill:

1. Select one by left-clicking it and then click  **Publish** in the toolbar. This will open the Skill Designer's Publish tab, where you will have to fill out some information.
2. Click the **Publish Skill** button either at the bottom of the Skill Designer window or in the **Actions** pane.

 **Note:** The availability of this feature depends on the user's role. For more information about roles, see Role-Based Access Control.

You can start using a skill right away or try it out on your documents first. To try out a skill, click the Try button in the Skill Catalog.

For more information on importing, publishing, or trying out skills, please refer to the ABBYY Vantage Skill Catalog Guide.

If a skill does not fully meet your processing requirements, you can edit it to suit your needs. For detailed instructions, please refer to the ABBYY Vantage Skill Designer Guide.

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