

ABBYY



ABBYY Vantage

Invoice CN 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 type of information in the exact same locations. One example of structured documents are pre-formatted forms.
- **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** are documents which consist of continuous text. Required information is usually located inside a sentence that can be on any page of the document. Examples of unstructured documents are contracts, lease agreements, and e-mail messages.

 **Note:** Use Advanced Designer to create skills for extracting data from unstructured documents.

The Vantage platform comes with a set of built-in skills, 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.

Invoice CN - Document Skill

The **Invoice CN** skill extracts data from VAT invoices posted by manufacturers from China. A VAT invoice is a document issued by a seller to a buyer that lists the goods or services supplied. A VAT invoice typically contains the following information:

- The list of goods or services supplied and their quantity and price,
- The total amount payable for the goods or services,
- The currency to be used for payment,
- A description of the goods or services,
- Details about the seller and the buyer,
- The number and date of the invoice,

- Applicable taxes.

The Invoice CN skill is a production skill. It has been fully trained on a large document set and 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.

Note: This skill is designed for processing VAT invoices from China, which have a specific structure that does not change from document to document. Other types of invoices from China may not be processed correctly using this skill.

Note: The Invoice CN skill does not use the **Vendors**, **BusinessUnits**, **PurchaseOrders** and **PurchaseOrderItems** data catalogs.

The default field extraction settings for the **Invoice CN** skill are listed below:

Countries and Languages

Countries	Languages
China	<ul style="list-style-type: none"> • Chinese • English

Extracted Fields

Field		Description
Business Unit (BU)	Name	The invoice recipient's name.
	Tax ID	The invoice recipient's taxpayer identifier.
	Address	The address of the invoice recipient.
	Country	
	Phone	The invoice recipient's phone number.
	Bank Name	The invoice recipient's bank name and branch (if specified).
	Bank Account	The invoice recipient's bank account number.
Vendor	Name	The vendor's name.
	Tax ID	The vendor's taxpayer identifier.
	Address	The vendor's address.
	Country	
	Phone	The vendor's phone number.

Field		Description
	Bank Name	The vendor's bank name.
	Bank Account	The vendor's bank account number.
Header fields	Invoice Number	The number of the invoice.
	Invoice Date*	The date when the invoice was issued.
	Invoice ID	The invoice identifier.
	Total*	The total cost of goods or services.
	Currency	The currency of the invoice.
Purchase order	Order Number	The purchase order number.
Line items (repeating group)	Description	A description of the line item.
	Article	The article number or code of the line item.
	Quantity	The number of line item units purchased.
	UoM	The unit of measurement used for the goods.
	Unit Price	The price of one unit of the line item goods.
	Net Price	The price of the line item before tax.
	Tax Rate	The tax rate applicable to the line item.
	Tax Amount	The amount of tax payable on the line item.
Taxes	Total Net Amount	The total cost of goods and services without tax.
	Total Taxes	The total amount of tax charged.
	Tax Rate	The tax rate.

*Required field or field group: values cannot be empty.


Key Fields

- Vendor/Name
- Invoice Date
- Invoice Number
- Total
- Currency

Validation Rules


Rule	Description
Invoice Date is required	Checks that the Invoice Date field is filled in. If the field is empty, displays a message that it is a required field.
Total is required	Checks that the Total field is filled in. If the field is empty, displays a message that it is a required field.
Set Default Country	If the values for the Business Unit (BU)/Country and Vendor/Country fields are either missing from the document or have not been extracted, fills them in using the following value: "中国".
Process money fields and currency	Checks that the value Currency field is a supported currency. If not, sets the value to "CNY". Currency descriptions are replaced with ISO codes.
Check Total Net Amount	Checks if the value of the Total Net Amount field equals the sum of the Line Items/Net Price fields. If not, displays a warning message and suggests filling in the fields with their calculated values.
Check Total Taxes	Checks if the value of the Total Taxes field equals the sum of the Line Items/Tax Amount fields. If not, displays an appropriate message and suggests filling in the fields with their calculated values.
Total must be a sum of Total Net Amount and Total Taxes	Checks if the value of the Total field equals the sum of all line items (Total Net Amount) after taxes (Total Taxes). If not, displays an appropriate message and suggests filling in the fields with their calculated values.
Check item amount	Checks the following: <ul style="list-style-type: none"> • that the number of units for each line item (Quantity) multiplied by the price of a unit (Unit

Rule	Description
	<p>Price) equals the price of the goods or service before taxes (Net Price),</p> <ul style="list-style-type: none"> and that the price of the goods or service before taxes (Net Price) multiplied by the tax rate (Tax Rate) equals the value in the Tax Amount field. <p>Removes the percent sign (%) from the value in the Tax Rate field. For each invoice line item, suggests values for the following fields (wherever calculating them is possible): Quantity, Unit Price, Net Price, Tax Rate, and Tax Amount.</p>
Complete Tax Rate	<p>Checks that the value of the Tax Rate field equals the following: Total Taxes*100/Total Net. If the values are different or Tax Rate is empty, suggests filling it with its calculated value.</p>

Note: To fill in a field with its calculated value, click the  button in the value region of the field and select one of the suggestions from the drop-down list.

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 a 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 built-in 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>*.

Note: Vantage supports the import of skills exported from Advanced Designer. However, such skills will only be trainable in Vantage if a Fast Learning activity was added to the document processing flow in Advanced Designer.

Importing a Document skill with data catalogs

Data catalogs exported with a skill are imported according to the table below:

Does a catalog with the same name exist in your tenant?		Import of the catalog	Import of the data (if data was exported)
No		The catalog is imported.	The data is imported.
Yes	The set of columns and their types are the same.	The catalog is not imported.	The data is imported. Previous data in the catalog is lost.
	The set of columns and/or their types differ.	The catalog is imported with the name <Catalog_name Skill_name>.	The data is imported.

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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