

# Eyeball Overview

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## V1.1

### Overview

Extraction in Accounts Payable system is challenging for several reasons. Documents come in different formats and data can be complex. Poor quality scanned documents cause extraction tools to misread characters or overlook key data points, requiring extensive manual corrections. Also, unstructured data like additional notes and terms can be misinterpreted by basic extraction systems.

The Eyeball functionality in Genpact AP Capture offers enhanced reviewing and correction of errors in the data before passing it to the Accounts Payable system for processing.

By default, the system follows the eyeballing step. However, if you need to execute eyeballing based on fulfillment of some condition then you can configure the rules in different yaml files.

### Prerequisite

Make sure you have an eyeball configuration yaml file defined in the ConfigSet.

The predefined configuration in yaml files define different review criteria for eyeball, such as fields that will be displayed in the eyeball for review, the mandatory fields, the type of value list for fields' selection, the characters supported in field values, extraction confidence level, and more.

### How Eyeball works

To review the document data with eyeball, follow the steps below:

1. In the portal, navigate to the list of tasks, and then fetch the task you want to eyeball. The task details page displays the extracted data in the eyeball screen and the original document side by side. The eyeball screen is in the left side and the original scanned document in the right side.

Account No.	PO Number	Terms	Route	Stop	Order No.
4668	24633140	NET 7 DAYS	MIN		285591

PRODUCT NO.	QTY ORDERED	QTY SHIPPED	UNIT/WEIGHT	DESCRIPTION	TOTAL UNITS OR WEIGHTS	UNIT PRICE	TOTAL
710703	1	1	CS	SNAPPR WHOLE HOG 2-4# FRSH 16#			
716828	2	2	CS	SALMON PRIN DTRM SUPERIOR FRSH 9.70 11.50	21.20	10.71	227.05

2. In the eyeball screen, click a field to view the corresponding value in the scanned invoice.
3. Review and edit the field value, if required.
4. Click on an empty field to fill in a missing value.
5. Click and drag the mouse in the original document to capture the value and populate it in the empty field.

6. Click Save, to save the data.
7. Click Submit, to submit the task for processing.

## Eyeball screen

- The eyeball screen appears in the left side of the split screen with header data from the original document displayed in fields at the top and the line items displayed in rows and columns format at the bottom.
- If the original document orientation is not vertical, then the system auto rotates it to vertical orientation. However, you can change the page orientation in a document manually with the rotate icon that rotates the page, by 90 degrees on each click, to an extent of 360 degrees.
- The fields populated with the extraction data appear with thin borders and turn blue when you click in the field to edit.
- The fields auto populated with the enrichment data appear shaded with thick borders.
- With the polygon functionality, you can select the data from the document to populate a field in the eyeball screen. The polygon identifies the data from the pages in different orientations also.
- Fields, with a Red vertical bar, have been configured for confidence percentage in the eyeballing-decision.yaml file.

The screenshot shows a split-screen interface. On the left, there are four input fields: 'Currency' with 'USD', 'Freight Charges' with '0', 'Gross Amount \*' with '227.05', and 'Misc Charges' with '0.24'. Red callout boxes label 'Currency' as an 'Enrichment Field' and 'Gross Amount \*' as an 'Extraction Field'. The 'Misc Charges' field has a thin border, while the others have thicker borders.

- You can expand and shrink the screen size with the zoom in (+) and zoom out (-) icons.
- You can validate the document by validate option.
- If a document has more than one pages, then you can move to any page by mentioning the page number in the Page number field.
- Use the Toggle Fullscreen icon to view the eyeball screen in full screen.
- Use the Screen Alignment icon to change the split view of the eyeball screen and document in vertical or horizontal.
- You can use the tab key to jump between the fields in the eyeball screen.
- You can filter the data in the line-items table fields.

The screenshot shows the full eyeball screen interface. At the top, there is a toolbar with icons for 'Screen alignment', 'Page number', 'Zoom in & Zoom out', 'Rotate', and 'Fullscreen'. Below the toolbar, the interface is split into three main sections:
 

- Left Panel:** Contains various form fields for document metadata, including 'Work type' (PO Invoice), 'Document type \*', 'Invoice Date \*', 'PO TEST', 'GSTIN-UIN', 'Currency', 'Language' (en), 'Invoice Number \*' (288591), 'PO Number' (24633140), 'Results...TEST', 'Vendor Name \*' (BUCKHEAD MEAT), 'Culture \*', 'Series TEST', 'Cora Vendor Ref...Num \*', 'Payment Terms' (NET 7 DAYS), 'Gross Amount \*', and 'Tax Amount'.
- Center Panel:** Displays the scanned invoice image for 'BUCKHEAD MEAT & SEAFOOD OF CHICAGO'. It includes the company logo, address (200 Flannigan Road, Hampshire, IL 60140), phone (847-683-2009), fax (847-683-7862), and a barcode.
- Right Panel:** Shows the 'INVOICE' header, 'Remittance Address' (Buckhead Meat and Seafood of Chicago, 2657 Tracy Road, Northwood, OH 45), and a table with columns 'Invoice', 'Date', 'Due Date', and 'Sal'. The table contains one row: Invoice 288591, Date 11/18/24, Due Date 11/25/24, Sal SYSCC. Below the table is a printed date 'Printed: 11/18/24' and another table with columns 'S', 'I', 'L', 'L', 'T', 'O' and rows of address information for 'SYSCO MINNESOTA - SEAFOOD'.

## Eyeball configuration

You can configure eyeball properties with a yaml config file to be defined in the ConfigSet. For details, see this article.

# V1.0

## Overview

Extraction in Accounts Payable system is challenging for several reasons. Documents come in different formats and data can be complex. Poor quality scanned documents cause extraction tools to misread characters or overlook key data points, requiring extensive manual corrections. Also, unstructured data like additional notes and terms can be misinterpreted by basic extraction systems.

The Eyeball functionality in Genpact AP Capture offers enhanced reviewing and correction of errors in the data before passing it to the Accounts Payable system for processing.

By default, the eyeballing decision is set to true, so the system follows the eyeballing step by default. However, if you need to execute eyeballing based on fulfilment of some condition then you can define in the yaml the rules for false decision.

## Prerequisite

Make sure you have an eyeball configuration yaml file defined in the ConfigSet.

The predefined configuration in yaml files define different review criteria for eyeball, such as fields that will be displayed in the eyeball for review, the mandatory fields, the type of value list for fields' selection, the characters supported in field values, extraction confidence level, and more.

## How Eyeball works

To review the document data with eyeball, follow the steps below:

1. In the portal, navigate to the list of tasks, and then fetch the task you want to eyeball. The task details page displays the extracted data in the eyeball screen and the original document side by side. The eyeball screen is in the left side and the original scanned document in the right side.

The screenshot shows the Genpact AP Capture interface. On the left, the 'Fetch Task' page displays extracted data for an invoice. On the right, the 'Eyeball' view shows the original scanned invoice from 'skinny genie' with handwritten annotations.

**Extracted Data (Left Pane):**

- Work type: [Empty]
- Document type: [Empty]
- Invoice Number: INV-151342
- Invoice Date: 1/15/2025
- PO Number: ABC00000057609
- Core PO Ref\_Num: [Empty]
- QyCC Code: [Empty]
- Vendor Number: [Empty]
- Core Vendor Ref\_Num: [Empty]
- Vendor Name: skinny genie
- Payment Terms: Net 30
- Gross Amount: \$798.00
- Tax Amount: 58
- Freight Charges: 0
- Misc Charges: [Empty]
- Sample Charges: [Empty]
- Other Charges: [Empty]
- Bill To Name: ANDAZ CAPITAL GATE ABU DHABI
- Ship To Address: ADNEC, Abu Dhabi
- Remit To Address: [Empty]

**Scanned Invoice (Right Pane):**

2 INV-13-24  
18-JAN-2025

**skinny genie**  
GLUTEN FREE

**TAX INVOICE**

ANDAZ CAPITAL GATE HOTEL  
CAPITAL GATE BUILDING, NEXT TO ADNEC, AL KHALEJ AL ARABI  
STREET  
Abu Dhabi, United Arab Emirates  
Email: ganesa.arigesan@hyatt.com;charamurti.javoor@hyatt.com;payabl  
es.capitalgate@hyatt.com  
TRN: 100045447800003

Invoice Date: 13-01-2025  
Invoice Number: INV-151342 ✓  
Reference: ABC00000057609  
Payment Terms: [Empty]

Sl.No.	Description	Quantity	Unit Price	Unit	Amount	Tax	Tax Amount	Net Amount
1	BANANA DATE WALNUT CAKE LOAF SLICE-50g	100	399.00	BOX-90P CS	380.00	SR	19.00	399.00
2	MARBLE CAKE LOAF SLICE-50g	100	399.00	BOX-90P CS	380.00	SR	19.00	399.00
Subtotal							760.00	✓
Total VAT @ 5%							38.00	

2. In the eyeball screen, click a field to view the corresponding value in the scanned invoice.
3. Review and edit the field value, if required.
4. Click on an empty field to fill in a missing value.
5. Click and drag the mouse in the original document to capture the value and populate it in the empty field.

6. Click Save, to save the data.
7. Click Submit, to submit the task for processing.

## Eyeball screen

The eyeball screen appears in the left side of the split screen with header data from the original document displayed in fields at the top and the line items displayed in rows and columns format at the bottom.

The fields populated with the extraction data appear with thin borders and turn blue when you click in the field to edit.

The fields auto populated with the enrichment data appear with thick borders.

The eyeball offers autorotation functionality to support for invoices that are not stand in correct orientation. It is auto rotating the page based on the angle that docIntel identified. The polygons also auto rotate with the page rotation.

With the polygon functionality, you can select the data from the document to populate a field in the eyeball screen.

Fields, with a Red vertical bar, have been configured for confidence percentage in the eyeballing-decision.yaml file.

The screenshot shows a grid of fields. The 'Payment Terms' field contains '1% 15,NET 30' and the 'Gross Amount' field contains '\$19,013.38'. The 'PO Number' field contains '20427040'. The 'Cora PO Ref\_Num' field is empty. A red box labeled 'Extraction field' points to the 'PO Number' field, and another red box labeled 'Enrichment field' points to the 'Cora PO Ref\_Num' field.

You can view the eyeball in full screen using the full screen icon. You can expand and shrink the screen size with the zoom in (+) and zoom out (-) icons.

The screenshot shows the full interface. At the top, there are navigation icons for 'Screen Alignment', 'Page number', 'Zoom in & Zoom out', and 'Fullscreen'. The 'Page number' field shows 'Page 1 / 1'. The main content area is split into two parts: a metadata grid on the left and an invoice document on the right.

**Metadata Grid:**

Work type	Document type	Invoice Number
PO Invoice		80454315
Invoice Date	PO Number	Cora PO Ref_Num
3/14/2024	20427040	
OpCO Code	Vendor Number	Cora Vendor Ref_Num
Vendor Name	Payment Terms	Gross Amount
R3 CALIFORNIA	1% 15,NET 30	\$19,013.38
Tax Amount	Freight Charges	Misc Charges
0	0	11.2
Pickup Allowance	Samples Charges	Other Charges

**Invoice Document:**

**INVOICE**

R3 CALIFORNIA  
P.O. BOX 402337  
ATLANTA, GA 30384-2337  
PHONE #: (562) 809-0300

**SHIP TO:**  
SYSCO OF SACRAMENTO  
7062 PACIFIC AVE  
PLEASANT GROVE, CA 95668  
ANGELA SAENZ (916) 569-7315

**BILL TO:**  
SYSCO SACRAMENTO #031  
P.O. BOX 981445  
EL PASO, TX 79998-1442

DATE	CUSTOMER NO.	INVOICE NO.
3/14/24	201800	80454315
DATE SHIPPED	ORDER NO. TYPE	ORDER TAKEN BY
3/14/24	935631-00 N	RWLAPENFO

**SPECIAL INSTRUCTIONS:**

EMAIL CUSTOMER  
DELIVERY APPT. 03/14 @ 11AM.  
CONFIRMED. DOOR 02 LOAD 59114  
ROUTE/SEQ: 120 70 ENT: 3/07/24  
21:12 3/13 PAGE 1 OF 1

80-850  
SHIP VIA : BNZD OUR TRUCK  
CUSTOMER PO: 20427040  
SALESPERSON: 85M ROBERT MOULYN

QUANTITY ORDERED	QUANTITY SHIPPED	PRODUCT CODE	DESCRIPTION	PACK/UNIT	UNIT PRICE	AMOUNT
21	0	15400380	39000 SCOTT PERSONAL SEATS	5000	119.45	
		7299869	17X14.5 1-PLY 250-CT WHITE	CS		
72	72	13400299	112345066 PACIFIC HOT CUP 12OZ	1000	68.20	4910.40
		7043518	SINGLEWALL P/E PAPER WHITE	CS		

If a document has more than one pages, then you can move to any page by mentioning the page number in the Page number field. You can also view the eyeball screen in fullscreen by clicking the Fullscreen icon. You can change the split view of the eyeball screen and document in vertical or horizontal using the screen alignment icon.

You can use the tab key to jump between the fields in the eyeball screen. You can also filter the data in the fields.

## Eyeball configuration

You can configure eyeball properties with a yaml config file to be defined in the ConfigSet.  
For details, see [this article](#).