

# What's New in Transact 2020.1.05?

July 2021

Transact 2020.1.05 is now available with two major new features: Handwriting Recognition+ and AI Table Rule Builder.

## Handwriting Recognition+

Handwriting Recognition+ is a new feature that provides cloud-based handprint (ICR) and cursive handwriting (HWR) processing and data extraction capabilities

for business documents. Batch classes that contain documents with handprint and cursive handwriting are processed via Cloud HyperExtender. Once processing is complete, extracted data are sent back to Transact for review and export.

This new feature achieves very high handwriting recognition with up to 88% character accuracy! Take a look at these examples:

**SAMPLE**

1. Hand-print the following in ALL CAPS

M I C H A E L      S M I T H  
 First Name                      Last Name

2. Hand-print the same in Mixed Case

Michael Smith

3. Hand-print the same in ALL CAPS

MICHAEL SMITH

4. Hand-print 1 2 3 4 5 6 7 8 9 0

1 2 3 4 5 6 7 8 9 0

5. Hand-print "The quick brown fox jumped over the lazy dog."

The quick brown fox jumped over the lazy dog.

6. Hand-print the address given to you.

8707 Research Drive  
 Irvine, CA 92618

7. Handprint "Juan Gomez". Foreign Name dictionary check.

Juan Gomez

**BREAKTHROUGH ACCURACY RATES WITH HANDWRITING RECOGNITION+**

01-Constrained\_FirstName

MICHAEL

01-Constrained\_LastName

SMITH

02-Camel\_FirstLast

Michael Smith

03-CAPS\_FirstLast

MICHAEL SMITH

04-Numeric

1234567890

05-HWR\_QuickBrownSentence

The quick brown fox jumped over

06-HWRCursive\_QuickBrownSen...

the quick brown fox jumped over

07-HWR\_Address

8707 Research Drive Irvine, CA 92

08-ForeignName

Juan bomez

# In lab testing, results showed a 10x increase in cursive handwriting character recognition.

## Additional Functionality in Handwriting Recognition+

### Image Normalization

- Applies auto-rotation and resolution changes to images to ensure proper targeted index field extraction.

### Integrated OCR, ICR and Cursive Handwriting Extraction

- **Handwriting Recognition+** is included with **Cloud HyperExtender**.
- **Handwriting Recognition+** targets index fields that contain text and extracts the data.

### Configure and Test Extraction Rules

- With **Handwriting Recognition+**, you can configure and test extraction rules while the Cloud HyperExtender plugin is enabled.

### OCR Language Options

- You can configure **Handwriting Recognition+** to default to a preferred language.

## AI Table Rule Builder

The second major feature in this release is the AI Table Rule Builder which allows Transact administrators to quickly create unique extraction rules for table line items contained in invoices. This new feature also provides improved extraction accuracy by excluding rows that are not needed.

The AI Table Rule Builder has four modes (Automatic, Standard, Advanced or Manual), allowing users and administrators to choose the configuration mode that best fits their skill level. A new wizard helps users and administrators identify line item information to extract. Transact then uses advanced AI to create the extraction rules automatically and extract data from any subsequent invoices submitted by the same vendor.

**Transact AI Table Rule Builder**

1 Select table | 2 Review results | 3 Save rule

**INVOICE**  
# 3206897

Date: Mar 5, 2021  
Payment Terms: 30 Days  
Due Date: Apr 4, 2021  
Balance Due: US\$0.00

Item	Quantity	Rate	Amount
Go Faster Stripe Widget	100	US\$0.15	US\$15.00
Speed Boost Corner Widget (Electric Blue)	75	US\$1.25	US\$93.75
Gold Finish Widget	55	US\$1.15	US\$63.25
Sample Widget Pack	10	US\$3.75	US\$37.50
UR27 Widget Adjust...	1	US\$75.00	US\$75.00
XR3 Application Tool	1	US\$127.00	US\$127.00
Widget Brochure 2021	1	US\$0.00	US\$0.00
Special Customer Discount...100%	1	-US\$411.50	-US\$411.50
<b>Sub Total</b>	<b>0</b>	<b>US\$0.00</b>	<b>US\$0.00</b>
		<b>Total</b>	<b>US\$0.00</b>

**Review Table Extraction Results**

Review the extracted results. If the columns contain the correct data, but are mapped incorrectly, you can change this using the controls next to the headers. For large changes, click **Edit**.

Item	Quantity	Rate	Amount
Go Faster Stripe Wid...	100	US\$0.15	US\$15.00
Speed Boost Corner ...	75	US\$1.25	US\$93.75
Gold Finish Widget	55	US\$1.15	US\$63.25
Sample Widget Pack	10	US\$3.75	US\$37.50
UR27 Widget Adjust...	1	US\$75.00	US\$75.00
XR3 Application Tool	1	US\$127.00	US\$127.00
Widget Brochure 2021	1	US\$0.00	US\$0.00
Special Customer Di...	1	-US\$411.50	-US\$411.50

Go back | Next

Transact users and administrators will spend less time setting up complex invoices for new vendors and won't have to manually write rules for extraction.

## Additional Functionality in AI Table Rule Builder

### Expedited Extraction Rule Creation

- AI Table Rule Builder automatically builds extraction rules for table line items contained in invoices using an advanced AI engine.

### Multiple Configuration Modes

- **Automatic Mode** determines column and row structure of the table, then uses an AI engine to generate rules for the patterns detected in the data with minimal user configuration.
- **Standard Mode** includes a wizard interface that works with the user to build out regex patterns for fine-tuning extraction rules.
- **Advanced Mode** provides users with single-click ability to define and test custom regex patterns.
- **Manual Mode** is ideal for users who do not need to create table extraction rules.

### Custom Dictionary

- A new **Dictionary** feature allows administrators to change column names to match the destination of business applications and workflows (e.g. ERP).

### Security

- Batch Class Administrators can disable AI Table Rule Builder or limit it to certain batch classes.

### New Feature, Same Great Product

- AI Table Rule Builder supports extraction from multiple line table rows.
- Batch Class Administrators can still build new extraction rules manually.
- Extraction rules are specific to each vendor.

**Setting up extraction rules for tables has never been easier! With the AI Table Rule Builder, users simply follow the wizard and the system builds the rules automatically.**

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