



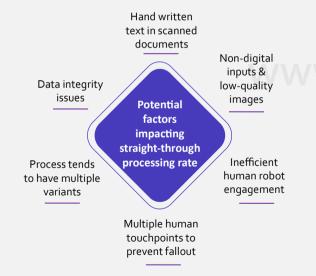
Go Beyond RPA to Speed Up Transaction Processing Time

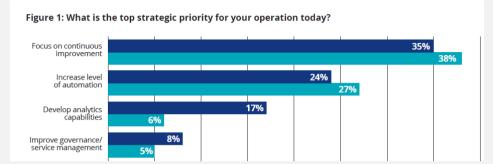
Most Organizations Consider RPA Implementation as a One-time Solution and Do Not Adopt Continuous Improvement Methods for Further Enhancement



75%-85%
Estimated Straight-through Processing rate (STP) in any DSPs' process

However, the actual realization is 30%-50%





As per <u>Deloitte's</u> report 'Untapped advantage in your digital workforce', the top strategic priority for DSPs' operation today is to focus on continuous improvement

Major RPA Continuous Improvement methods are not effective

- Most DSPs are exploring various continuous improvement techniques such as occasional improvement, analytics-driven continuous improvement, etc., to improve the speed and value proposition.
- However, these techniques are not effective to achieve expected straight-through processing rate.
- This creates an increasing demand for DSPs to strategize on intelligent and automated continuous improvement techniques to reduce fallouts.

This insight elaborates on leveraging Automation Optimizer Framework to accelerate the straight-through processing rate.

Leveraging Automation Optimizer Framework - Improves Straight-through Process (STP) Get more value from the existing RPA implementation



DSPs need to focus on an efficient continuous improvement strategy before embarking on the next stage of the RPA automation journey. It should enable DSPs to identify the automation inefficiencies, root causes, solutions for the identified gaps, and continuously monitor STP rate - all in an automated way.

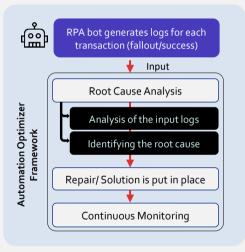
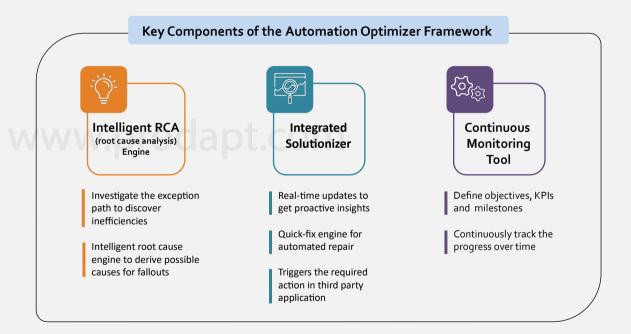


Fig.1: Functional workflow of Automation Optimizer Framework

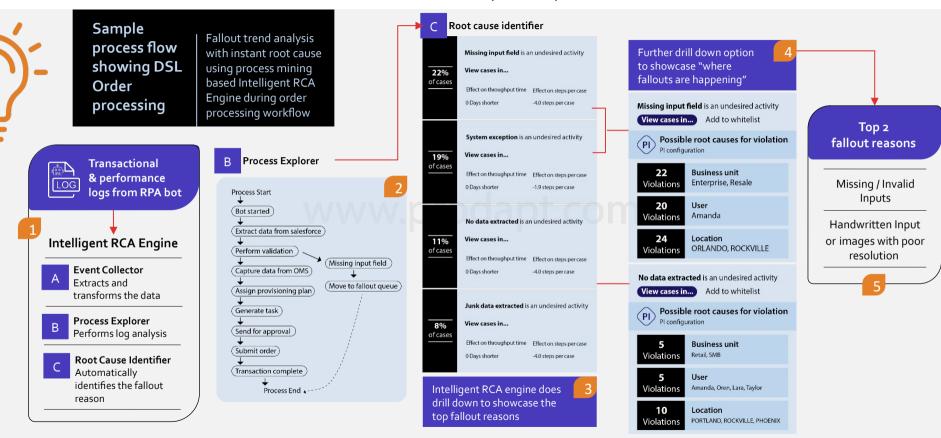


This insight elaborates on leveraging Automation Optimizer Framework to accelerate the Straight-through Processing rate.

Intelligent RCA Engine - Provides near real-time insights

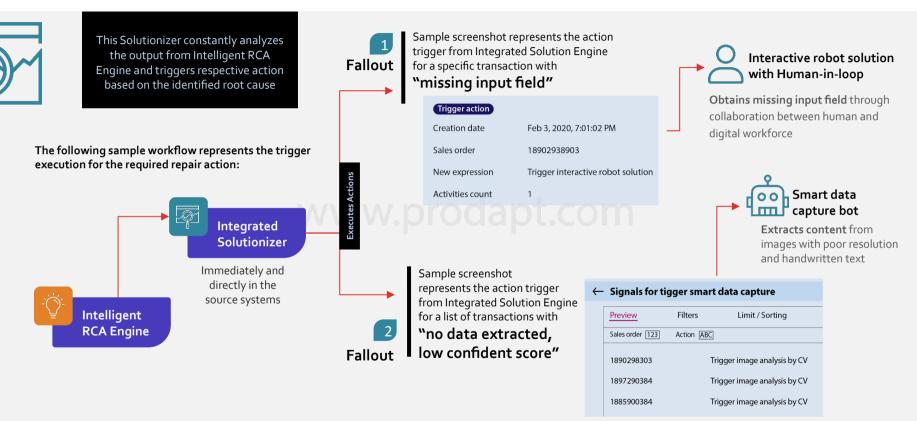
Drilldown to transaction-level information and automatically identify the root cause





Integrated Solutionizer - Provides automated action trigger for repair





Execution of action is explained with comprehensive workflow in the following slides

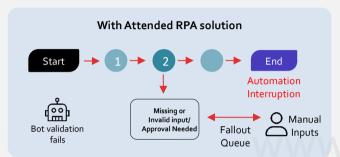
Integrated Solutionizer Handling Top Fallout-1 Simplify human-robot engagement with interactive robot solution



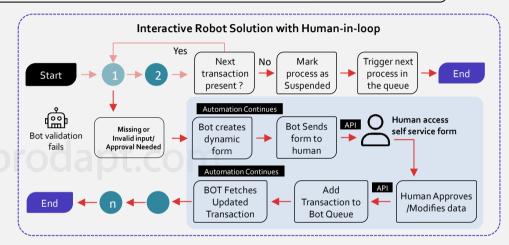


In the event of a missing input field, sSolutionizer triggers interactive robot solutions to improve the collaboration between human and digital workforce.

This turns attended fallout scenarios to unattended RPA automation scenario which increase the straight-through processing rate



- Traditional RPA bot stays stuck in one transaction until the human dependency is resolved
- Each attended RPA bot comes with a license and till the time it is stuck at one transaction, DSPs lose revenue by not utilizing the bot to its full capacity.
- Attended bots provide interruption to the automation process allowing a human to intercede and make decisions.
- However, agent intervention when RPA bot is processing in the foreground causes it to fail.



Interactive Robot Solution marks the process as suspended. The robot becomes free and executes other processes in the queue rather than waiting for a human to intervene

- When a robot encounters an issue that requires human attention, the bot will generate dynamic content specific to the issue and creates forms
- Agent validates dynamic content at his convenience, provides input or approval and triggers bot with the click of a button
- Suspended task resumes in any available robot and completes processing with updated input from the agent

An interactive robot solution with Human-in-loop enables DSP to create dynamic web forms in real-time using a "no-code" RPA bot solution. Business users are presented with transactions in the digital front end to key in missing input data, approval and allow the robot to continue.

Integrated Solutionizer Handling Top Fallout-2:

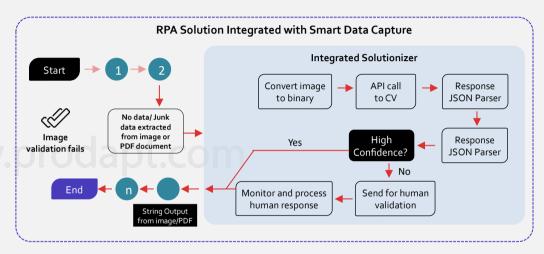
Smart data capture Bot powered by Computer Vision (CV)



For transactions with "no data or junk data extracted", Integrated Solution Engine triggers Smart Data Capture Bot powered by CV. Accelerator in CV BOT extracts handwritten text and content from poor resolution images turning fallout scenarios to straight-through processing flow.

With Standard OCR* based RPA solution Start 1 2 End Automation Interruption No data/ Junk data extracted from image or PDF document Queue Manual Fallout Queue

- The existing OCR features present in most of the RPA tools poses a serious challenge in extracting the handwritten text and printed text with various font size, multiple languages, squeezed characters.
- This causes a high number of fallouts and the entire transaction ends up being processed manually which drastically impacts straight-through processing rate.



- Smart data capture Bot helps to improve accuracy in data extraction from image and processing hand-written text by encapsulating CV for auto-scaling, auto-detection of language, tag generation, and text extraction.
- Reusable plug and play component which can be leveraged for integrating vision API with any RPA tool making it a no-code solution.
- Available as macro and DLL for ease of integration.
- Routes low confidence input to human, polls for response and processes it.

Smart data capture RPA bot powered by CV consumes image or PDF file path as input and provides extracted string enabling DSP's to automate transactions involving handwritten text or poor resolution images as source data.

^{*}OCR - Optical Character Recognition

Continuous Monitoring Tool to Track Straight-through Processing rate (STP) Empower RPA CoE with improved processing rate driven by customized monitoring





Even after achieving the desired STP rate, continuous monitoring is recommended to mitigate the process changes or seasonal issues

Set objectives and monitor progress

- Define process-specific STP objective
- Import existing KPIs from process analytics and define new KPIs as well
- Monitor how each KPI developed over time
- Set milestones for each KPI as a Key Result
- Assign ownership, manage tasks and discuss the course of action
- Receive email alerts on the development of objectives and KPIs

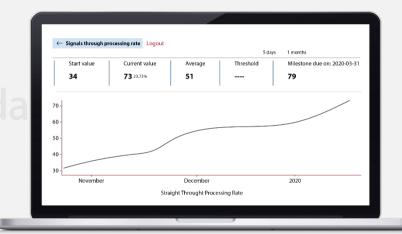
Sample email screenshot showcasing the happenings on Feb 2nd

What happened on **February 2?**

KPI Increased by 0.54%

(1) Straight Through Processing Rate Unassigned KPIs 73

KPI Descriptions
1) Straight Through Processing Rate
Milestone due on: 2020-02-28
Milestone: 80



The continuous monitoring tool will validate the fallout percentage. If the percentage is more than the limit, then alert will be sent to the Process Owner/CoE Team.

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Benefits Of Using Automation Optimizer Framework



Time saved in automated Root cause Analysis as compared to manual one



Manual root cause analysis



24 hours

Small process



48 hours

Medium process



72-96

Complex process



Bot enabled automated root cause analysis

Near real-time

Interactive robot solution with Human-in-loop

- Average handling time reduced by 50%
- Eliminates need for individual license in agents' machine

Smart data capture adapter

Integrating CV with RPA - **5 days** of development effort

- Conversion of the image to binary format
- Building wrapper class for sending binary data to API
- Creating methods to parsing the response

With Smart data capture adaptor it got reduced to few hours

(1.5 hours) - all using plug and play component

The initial Straight-through Processing rate of 34% is increased to 56% using an Interactive robot solution. Further with smart data capture, the STP rate is accelerated to 73%.

Overall, this Automation Optimizer Framework sets up the stage for improvement in automated processes using a sustainable approach.

Get in touch

USA

Prodapt North America, Inc. Tualatin: 7565 SW Mohawk St., Phone: +1 503 636 3737

Dallas: 1333, Corporate Dr., Suite 101, Irving **Phone**: +1 972 201 9009

New York: 1 Bridge Street, Irvington Phone: +1 646 403 8161

CANADA

Prodapt Canada, Inc. Vancouver: 777, Hornby Street, Suite 600, BC V6Z 1S4 Phone: +1 503 210 0107

PANAMA

Prodapt Panama, Inc.
Panama Pacifico: Suite No 206, Building 3815
Phone: +1 503 636 3737

UK

Prodapt (UK) Limited Reading: Davidson House, The Forbury, RG1 3EU Phone: +44 (0) 11 8900 1068

IRELAND

Prodapt Ireland Limited Dublin: 31-36 Ormond Quay Upper Phone: +44 (0) 11 8900 1068

EUROPE

Prodapt Solutions Europe & Prodapt Consulting B.V. Rijswijk: De Bruyn Kopsstraat 14 Phone: +31 (0) 70 4140722

Prodapt Germany GmbH Münich: Brienner Straße, 80333 Phone: +31 (0) 70 4140722

Prodapt Switzerland GmbH Zürich: Mühlebachstrasse 54,
8008 Zürich

Prodapt Austria GmbH Vienna: Cityport 11, Simmeringer Hauptstraße 24, 1110 Phone: +31 (0) 70 4140722

SOUTH AFRICA

Prodapt SA (Pty) Ltd. Johannesburg: No. 3, 3rd Avenue, Rivonia Phone: +27 (0) 11 259 4000

INDIA

Prodapt Solutions Pvt. Ltd. Chennai: Prince Infocity II, OMR Phone: +91 44 4903 3000

"Chennai One" SEZ, Thoraipakkam Phone: +91 44 4230 2300

IIT Madras Research Park II, 3rd floor, Kanagam Road, Taramani **Phone**: +91 44 4903 3020

Bangalore: "CareerNet Campus" 2nd floor, No. 53, Devarabisana Halli, Phone: +91 80 4655 7008

THANK

