



# **Robotic Process Automation (RPA) - Technology Vendor Landscape with FIT Matrix Assessment – Technologies for Building a “Virtual Workforce”**

Service Optimization Technologies (SOT)  
Market Report – December 2016 – Preview Deck

# Our research offerings for global services

## ▶ Market Vista™

Global services tracking across functions, sourcing models, locations, and service providers – industry tracking reports also available

## ▶ BFSI<sup>1</sup> Information Technology

## ▶ PricePoint™

## ▶ BFSI<sup>1</sup> Business Process

## ▶ Finance & Accounting

## ▶ Healthcare & Life Sciences ITS

## ▶ Procurement

## ▶ Healthcare & Life Sciences BPS

## ▶ Human Resources

## ▶ Application & Digital

## ▶ Recruitment & Talent Acquisition

## ▶ Cloud & Infrastructure

## ▶ Contact Center

## ▶ Global Sourcing

## ▶ Service Optimization Technologies

## ▶ Locations Insider™

## ▶ Transaction Intelligence

## Custom research capabilities

- Benchmarking | Pricing, delivery model, skill portfolio
- Peer analysis | Scope, sourcing models, locations
- Locations | Cost, skills, sustainability, portfolio – plus a tracking tool
- Tracking services | Service providers, locations, risk
- Others | Market intelligence, service provider capabilities, technologies, contract assessment

## Subscription information

- This full report is included in the following subscription(s)
  - **Service Optimization Technologies**
- In addition to published research, a subscription may include analyst inquiry, data cuts, and other services
- **If you want to learn whether your organization has a subscription agreement or request information on pricing and subscription options, please contact us**



### Corporate Headquarters

Office: +1-214-451-3000

[info@everestgrp.com](mailto:info@everestgrp.com)



### European Headquarters

Office: +44-207-129-1318

[unitedkingdom@everestgrp.com](mailto:unitedkingdom@everestgrp.com)

<sup>1</sup> Banking, financial services, and insurance

# Table of contents (page 1 of 2)

---

| Topic   | Page no.  |
|---|-----------|
| <b>Section I: Background, scope, and definitions</b>                          | <b>5</b>  |
| • Background and scope of the research  | 6         |
| • Sources of information  | 7         |
| • Types of automation technologies  | 8         |
| • Everest Group Service Delivery Automation Architecture                      | 9         |
| • Focus of the report   | 10        |
| • Key definition 1: SDA   | 11        |
| • Key definition 2: RPA   | 12        |
| • Key definition 3: Cognitive automation                                      | 13        |
| <b>Section II: Everest Group FIT Matrix for RPA technology vendors</b>        | <b>14</b> |
| • Summary   | 15        |
| • Definition  | 16        |
| • Dimensions  | 17        |
| • Segments  | 18        |
| • RPA technology vendor position on the FIT Matrix framework                  | 19        |
| • Assessment of RPA technology vendors' market impact and vision & capability | 20        |
| • RPA Star Performers   | 21        |
| • Evolution of RPA technologies   | 24        |
| • Advancements in RPA technology  | 25        |
| • RPA technologies broad categories   | 27        |

# Table of contents (page 2 of 2)

---

| Topic  | Page no.  |
|--|-----------|
| <b>Section III: Everest Group analysis of RPA technology vendors</b>       | <b>29</b> |
| • Commentary on FIT Matrix assessment dimensions for RPA technology vendor | 30        |
| <b>Section IV: RPA technology vendor market landscape</b>                  | <b>40</b> |
| • Summary  | 41        |
| • Analysis along the following dimensions:                                 |           |
| – Data and process coverage of solutions                                   | 42        |
| – Go-to-market approach  | 45        |
| – Commercial models  | 46        |
| – Productivity enhancing RPA technologies                                  | 47        |
| <b>Section V: Predictions for 2017-2019</b>                                | <b>48</b> |
| • Predictions for 2017-2019  | 49        |
| <b>Appendix</b>  | <b>50</b> |
| • Vendors not covered by the current study                                 | 51        |
| • Glossary of key terms  | 52        |
| • Recent SOT research  | 54        |
| • References   | 55        |

# Background and scope of the research

## Background of the research

Robotic Process Automation (RPA) has the potential to offer high value in terms of inorganic reduction in costs and improvement in productivity. Moreover, the value is realized in a fairly short time period as the deployments are quick and at low risk, due to the fact that the integration is non-invasive and easily remediable. As a consequence, many enterprises and global services providers are investing in this arena. However, RPA is a burgeoning market with technologies that are still relatively unknown to many potential buyers in terms of solution features, deployment models, supporting frameworks, and commercial aspects. The technologies are also evolving, with an expanding feature set and increasing richness of functionality.

In this context, this report examines the RPA technologies for creating a virtual workforce. It assesses 10 of the leading technology vendors and compares & contrasts their technologies within Everest Group's Feature, Implementation, and impact (FIT) Matrix framework.

### In this study, we analyze the RPA technology landscape across various dimensions:

- Everest Group's FIT Matrix™ evaluation of RPA technology vendors
- Remarks on key strengths and areas of improvement for each of the RPA technology vendors
- Key insights on RPA technology vendor market landscape

### Scope of the study and methodology include:

- Only robotic tools that are sold on license, and irrespective of any ongoing business or IT process outsourcing services, were considered for this report. These include software that can be deployed and run by the clients in-house or those that require professional services for deployment, as well as ongoing services that are part of a hosted offering
- Tools from these 10 technology vendors have been assessed: Automation Anywhere, Blue Prism, Kofax Kapow, Kryon Systems' Leo, NICE (Robotic Automation), Redwood RoboFinance, Softomotive (WinAutomation & ProcessRobot), Thoughtonomy, UiPath, and WorkFusion

# This report is based on three key sources of proprietary information

1

## Proprietary database of 10 RPA technology vendors

- The database tracks the following capability elements for each vendor:
  - Automation creation features
  - Automation management features
  - Input/output options available
  - Implementation options
  - Support in terms of consulting, implementation, and training
  - Offered commercial model(s)
  - Buyer coverage in terms of industry, geography, and buyer size
  - Company performance in terms of revenue and clients

2

## Demonstrations and interactions with technology vendors and other industry stakeholders

- Detailed demos and interviews with RPA technology vendors for a comprehensive view of the solutions
- Interviews with technology vendors' reference clients
- Executive-level discussions with technology vendors as well as BPS providers that cover:
  - Current state of the market
  - Opportunities and challenges
  - Expected direction of movement in the industry
  - Vendor / service provider vision and roadmap
- Executive-level discussions with industry enablers / specialist technology integrators to get the buyer perspective and also to reaffirm the findings from other sources
- On-site as well as conference meetings with SDA technology buyers to understand:
  - Business case
  - Apprehensions & challenges
  - Approach
  - Outcomes
  - Future direction

3

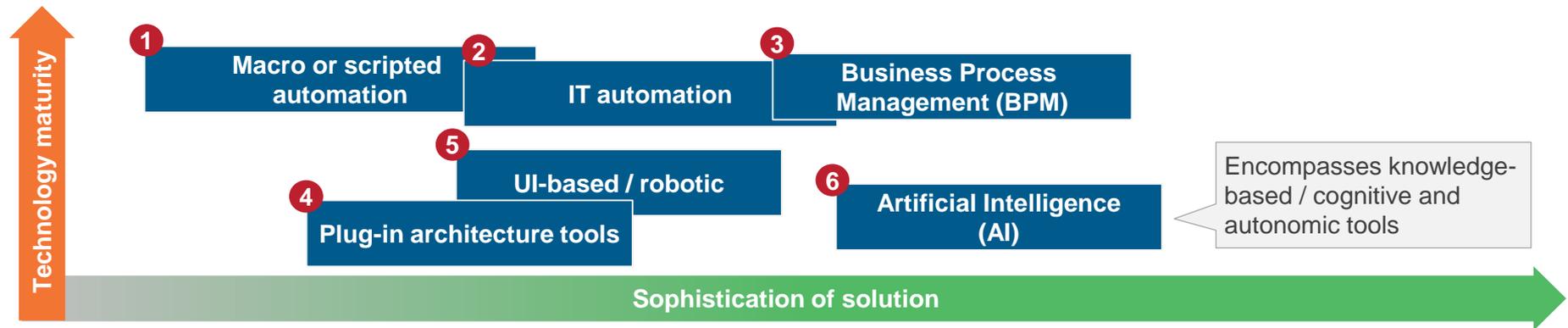
## The proprietary database of RPA capabilities of eight major BPS providers complements the research

- The database tracks the following capability elements for each service provider:
  - Robotic Process Automation (RPA) historical and projected adoption trends
  - Support in terms of consulting, implementation, and training
  - Offered commercial model(s)
  - Buyer coverage in terms of industry, geography, and buyer size
  - Key processes covered in terms of RPA deployment

## Service providers covered in the analysis

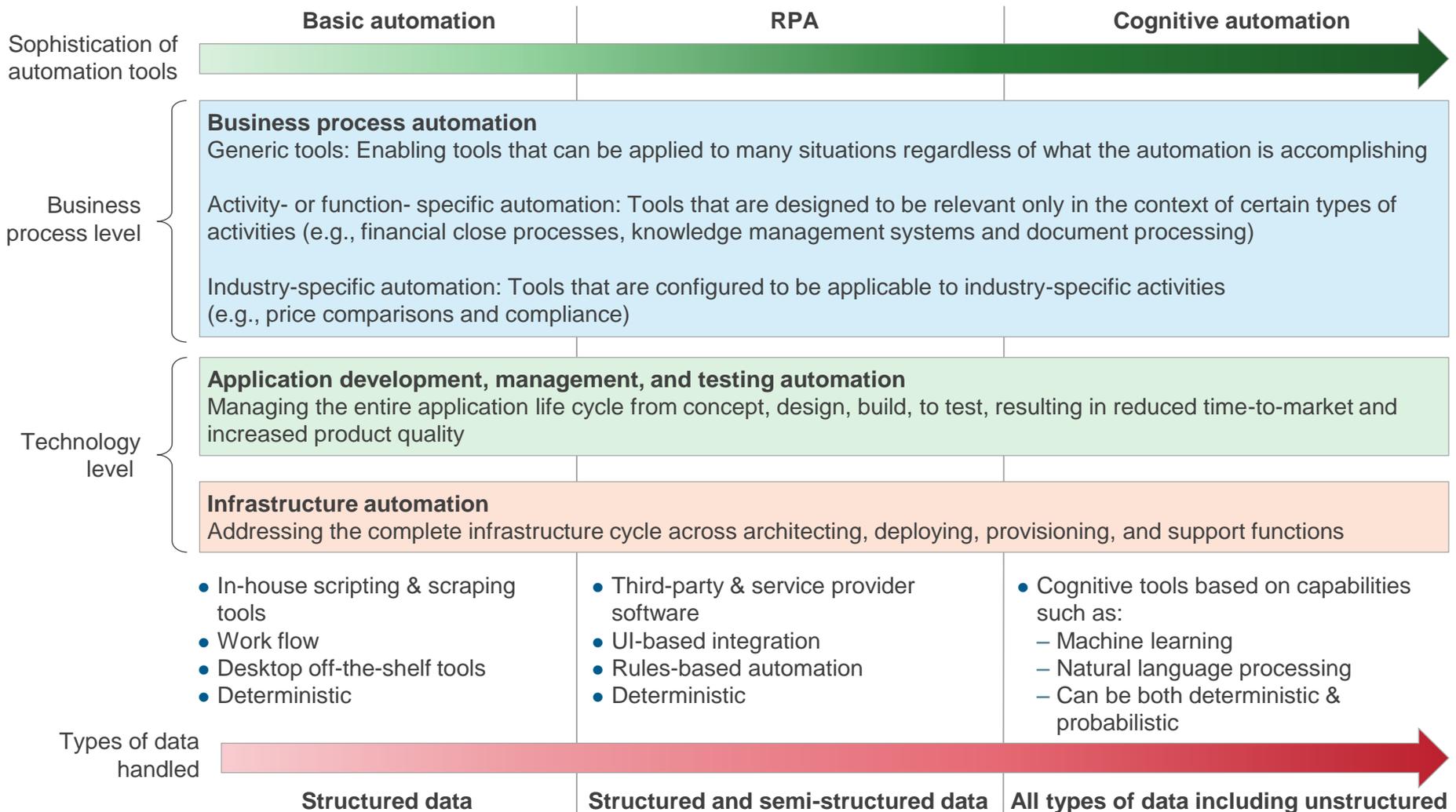


# The most common automation technologies can be segmented into six basic areas

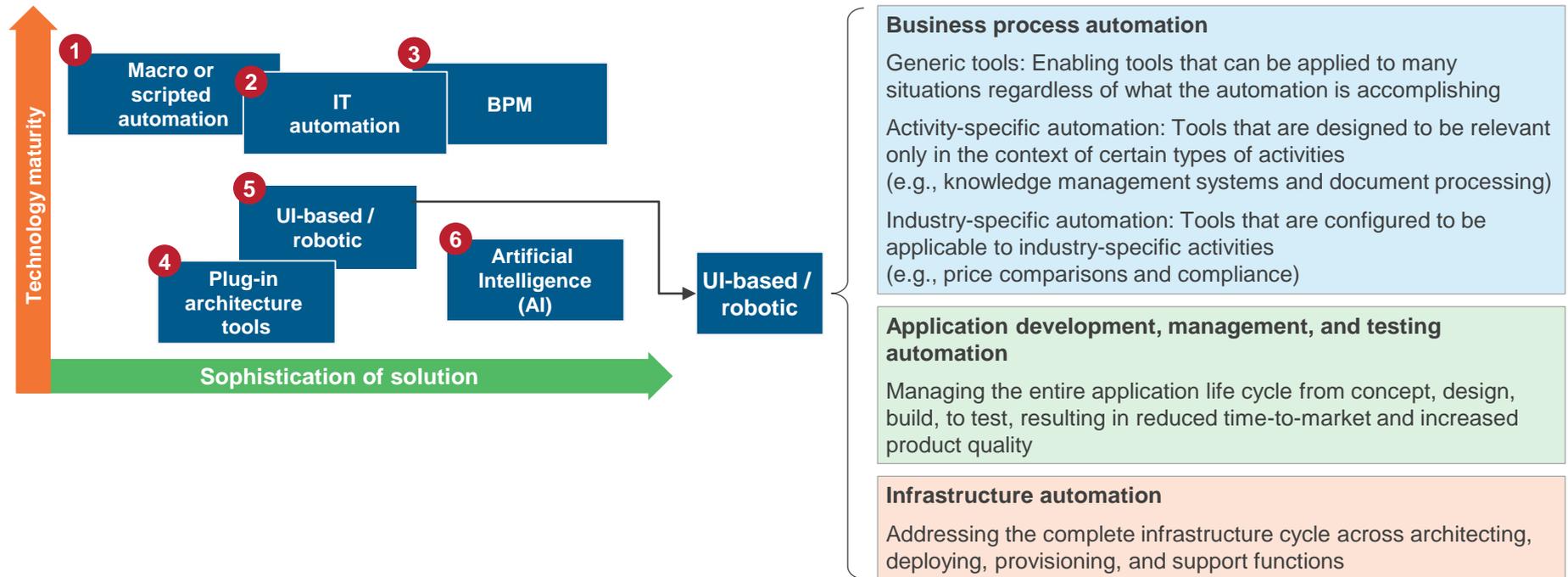


|                              | Maturity          | Scope of effectiveness  | Limitations   |
|------------------------------|-------------------|---|---|
| Macro or scripted automation | Very high         | Specific tasks  | Typically used for tactical deployments. Can be difficult to maintain over long periods of time   |
| IT automation                | High              | Number of areas including software application life cycle and service provisioning                | Less effective in application production and run book environments  |
| BPM                          | Very high         | Large scale deployments involving enterprise-level transformation                                 | Can be tactical or strategic with the ability to deal with scale. Can become too complex or costly  |
| Plug-in architecture tools   | High              | Situations requiring deployment centrally and at scale to many desktops                           | Not suitable for situations where non-invasive integration of automation tools are needed   |
| UI-based / robotic           | Medium & evolving | Repetitive transactional administrative and rules-based tasks                                     | Often deployed tactically or in combination with BPM tools  |
| Artificial intelligence      | Low & evolving    | Number of areas, particularly document or content-heavy processes or IT Service Management (ITSM) | Robustness and resilience to change needs to be demonstrated in large scale operations; AI technologies have to learn from experience to find ways of handling unexpected scenarios |

# Everest Group's Service Delivery Automation (SDA) architecture | Automation technology can be applied to the whole process stack



# In this report, we focus on the RPA segment of the technologies



## Scope of the report

- Focuses primarily on robotic technologies specified above, and with a few that also offer artificial intelligence-enabled automation with generic use cases for any rules-based process, be it for business or IT
- The software applications assessed in this report are provided by independent software vendors under license with or without professional services

## Areas out of scope of the report

- Automation, not covered in detail in this report, includes bespoke coding of macros/scripts, plug-in architecture tools, and BPM (one, three, and four in the above diagram)
- Excludes vertical tools such as price web scraping software for the travel industry
- Software that is available only within business processes or IT outsourcing contracts and not on a stand-alone basis

# Overview and abbreviated summary of key messages

The report provides a detailed view of the RPA technology vendor landscape by providing a thorough assessment of the various RPA technology solutions and positioning them along Everest Group's Feature, Implementation, and impact (FIT) Matrix. The report also analyzes key strengths and areas of improvement for each of the technology vendors from the perspective of their RPA solution. Additional insights on advances in RPA technologies, operating models, capabilities of different platforms, and commercial models have also been provided

## Some key elements and findings of the report are:

### Everest Group FIT Matrix™ evaluation

- Everest Group has classified 10 RPA technology vendors on its FIT Matrix into the four categories of Leaders, Challengers, Optimizers, and Aspirants
- Automation Anywhere, Blue Prism, UiPath, and Thoughtonomy are the Leaders. Redwood and WorkFusion emerged as the Challengers. Kofax Kapow & NICE are the Optimizers and Kryon Systems & Softomotive are the Aspirants on Everest Group RPA FIT Matrix for 2016
- Automation Anywhere, Softomotive, and UiPath are the “Star Performers” based on their strong relative YOY movement on the FIT Matrix

### RPA technology vendor assessment

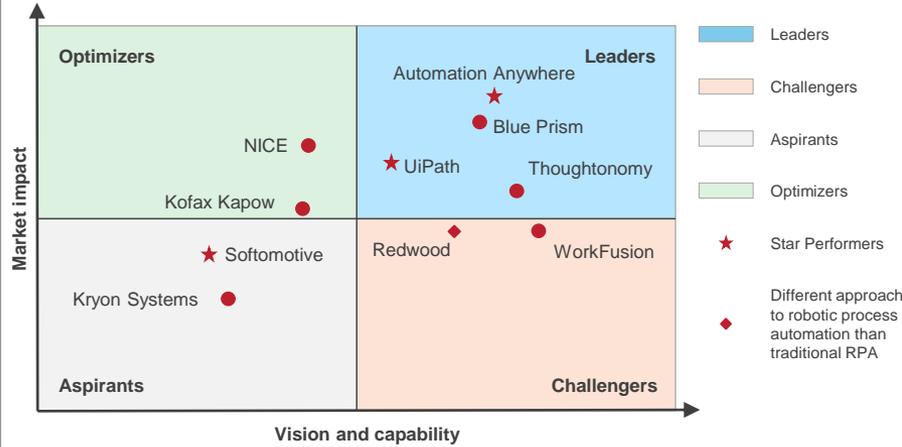
- Assessment and remarks on each of the RPA technology vendors' solution along 10 different dimension including market success, portfolio mix, value delivered, vision & strategy, features, deployment options, ease of use, support, security & compliance, and commercials

### RPA technology vendor market landscape

- Key insights on RPA technology vendor market landscape along:
  - Data and process coverage of solutions
  - Go-to-market approach
  - Commercial models
  - Productivity enhancing RPA technologies

# The study offers RPA technology vendor positions on the Everest Group's FIT Matrix, their key strengths & areas of improvement, evolution of RPA technologies, and insights on the market landscape

## Everest Group RPA FIT Matrix



## Capability assessment

Measure of capability: ● Best-in-class ● Very high ● High ● Medium high ● Medium ● Medium low ● Low ● Not mature

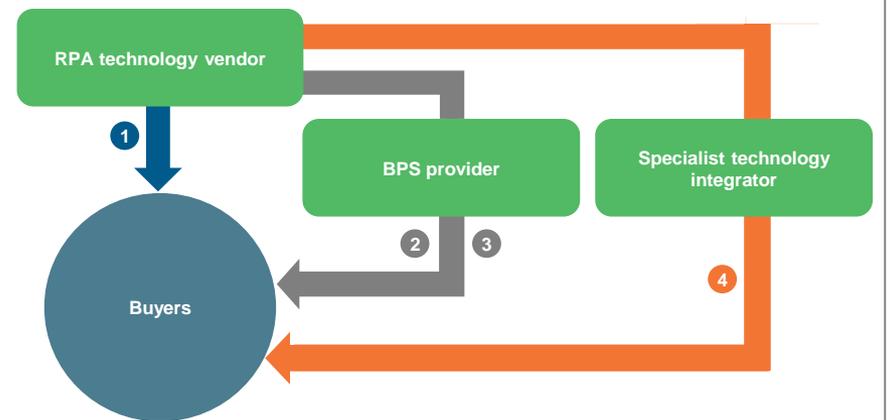
| RPA technology vendor | Vision and capability |          |                    |             |         |                       |             | Impact  |                |               |                 |         |
|-----------------------|-----------------------|----------|--------------------|-------------|---------|-----------------------|-------------|---------|----------------|---------------|-----------------|---------|
|                       | Vision & strategy     | Features | Deployment options | Ease of use | Support | Security & compliance | Commercials | Overall | Market success | Portfolio mix | Value delivered | Overall |
| Automation Anywhere   | ●                     | ●        | ●                  | ●           | ●       | ●                     | ●           | ●       | ●              | ●             | ●               | ●       |
| Blue Prism            | ●                     | ●        | ●                  | ●           | ●       | ●                     | ●           | ●       | ●              | ●             | ●               | ●       |
| Thoughtonomy          | ●                     | ●        | ●                  | ●           | ●       | ●                     | ●           | ●       | ●              | ●             | ●               | ●       |
| UiPath                | ●                     | ●        | ●                  | ●           | ●       | ●                     | ●           | ●       | ●              | ●             | ●               | ●       |
| NICE                  | ●                     | ●        | ●                  | ●           | ●       | ●                     | ●           | ●       | ●              | ●             | ●               | ●       |
| Kofax Kapow           | ●                     | ●        | ●                  | ●           | ●       | ●                     | ●           | ●       | ●              | ●             | ●               | ●       |
| Redwood               | ●                     | ●        | ●                  | ●           | ●       | ●                     | ●           | ●       | ●              | ●             | ●               | ●       |
| WorkFusion            | ●                     | ●        | ●                  | ●           | ●       | ●                     | ●           | ●       | ●              | ●             | ●               | ●       |
| Kryon Systems         | ●                     | ●        | ●                  | ●           | ●       | ●                     | ●           | ●       | ●              | ●             | ●               | ●       |
| Softomotive           | ●                     | ●        | ●                  | ●           | ●       | ●                     | ●           | ●       | ●              | ●             | ●               | ●       |

## Assessment and remarks on RPA vendors

Measure of capability: ● Best-in-class ● Very high ● High ● Medium high ● Medium ● Medium low ● Low ● Not mature

| Assessment dimension  | Rating | Remarks  |
|-----------------------|--------|--|
| Market success        | ●      | One of the biggest RPA providers with an impressive client base and growth rate  |
| Portfolio mix         | ●      | Although it has clients in many industries, most of them are in the XXX sector. Largely focused on large enterprises. It also has a presence across many geographies with major focus on North America                             |
| Value delivered       | ●      | Buyers are pleased with the vendor's flexible approach, ease of doing business with, and availability of good libraries & technology features. There is opportunity to enhance some of its key features such as XXX and YYY        |
| Vision & strategy     | ●      | The company shows vision for pushing the capabilities of its platform, e.g., XXX   |
| Features              | ●      | Has enhanced and introduced several advanced features and functionalities, such as XXX in version X, to address scale and a few issues faced by its enterprise clients   |
| Deployment options    | ●      | It can be deployed on desktop, server, or on public clouds such as Microsoft Azure and Amazon by the client itself or a BPO partner  |
| Ease of use           | ●      | At par with the market in providing conventional means of automation creation (e.g., action recording and visual drag-and-drop), it has introduced the options of machine learning or natural language processing as extras        |
| Support               | ●      | Offers in-house, on-premise, and computer-based training services  |
| Security & compliance | ●      | Supports XXX security controls and features role-based access model and stealth mode operations. It has several deployments in regulated and secure environments such as SOX and HIPAA. Opportunity to improve compliance with YYY |
| Commercials           | ●      | Licenses are available only on a XXX basis. Also offers a pricing option that allows the customer to pay on YYY basis  |

## Go-to-market approaches of RPA technology vendors



Source: Everest Group (2016)

# SOT research calendar

Published
  Current

| Topic   | Release date   |
|---|----------------|
| Clever Machines at Your Service .....   | February 2016  |
| Heralding a New Era of Transformative Business Process Services through Technology .....  | April 2016     |
| Service Delivery Automation (SDA) – Best Practice Guide to Establishing an SDA Center of Excellence .....   | April 2016     |
| Robotic Process Automation in HR Outsourcing: Not the Same as Other Business Process Service Lines .....  | April 2016     |
| Unlocking Next-Generation Value through Technology-Embedded Business Process Services   Part 1 .....  | July 2016      |
| Unlocking Next-Generation Value through Technology-Embedded Business Process Services   Part 2 .....  | July 2016      |
| The Impact of SDA on Services TCO .....   | August 2016    |
| IT Infrastructure Services Automation: “Codified Consciousness is the Future” .....   | September 2016 |
| Business Case for Robotic Process Automation (RPA) in Global In-house Centers (GICs) .....  | September 2016 |
| The Service Delivery Automation (SDA) Journey .....   | September 2016 |
| IT Application Services Automation: Think Benefits, Not Costs .....   | November 2016  |
| Robotic Process Automation (RPA) - Technology Vendor Landscape with FIT Matrix Assessment – Technologies for Building a “Virtual Workforce” ..... | December 2016  |

# Additional technology research references

---

The following documents are recommended for additional insight into the topic covered in this report. The recommended documents either provide additional details on the topic or complementary content that may be of interest

1. **Business Case for Robotic Process Automation (RPA) in Global In-house Centers (GICs)** ([EGR-2016-2-R-1926](#)); 2016. The report assesses the business case for adoption of RPA in offshore GICs and the associated payback period. It also provides insights into various factors impacting the business case and the threshold limits for each of them in order to have a justifiable business case
2. **Service Delivery Automation (SDA) – Best Practice Guide to Establishing an SDA Center of Excellence** ([EGR-2016-13-R-1750](#)); 2016. This report provides a guide to setting up and expanding an SDA CoE. It is intended for organizations that are setting out to build a CoE, service providers looking to build CoEs for their clients and SDA technology vendors seeking insights into the bigger CoE picture
3. **Service Delivery Automation (SDA) – The Story Beyond Marketing Messages and an Assessment of SDA Tools** ([EGR-2015-10-R-1646](#)); 2015. This report provides a detailed view of the SDA technology market by providing a thorough assessment of the various SDA technology solutions and ranking them along Everest Group's Feature, Implementation, and impact (FIT) Matrix. The report also analyzes key strengths and areas of improvement for each of the technology vendors from the perspective of their SDA solution. Additional insights on the market, operating models, capabilities of different tools, and commercial models have also been provided

For more information on this and other research published by Everest Group, please contact us:

**Sarah Burnett**, Vice President:  
**Amardeep Modi**, Senior Analyst:

[sarah.burnett@everestgrp.com](mailto:sarah.burnett@everestgrp.com)  
[amardeep.modi@everestgrp.com](mailto:amardeep.modi@everestgrp.com)

Website: [www.everestgrp.com](http://www.everestgrp.com) | Phone: +1-214-451-3000 | Email: [info@everestgrp.com](mailto:info@everestgrp.com)



From **insight** to **action**.



## About Everest Group

Everest Group is a consulting and research firm focused on strategic IT, business services, and sourcing. We are trusted advisors to senior executives of leading enterprises, providers, and investors. Our firm helps clients improve operational and financial performance through a hands-on process that supports them in making well-informed decisions that deliver high-impact results and achieve sustained value. Our insight and guidance empowers clients to improve organizational efficiency, effectiveness, agility, and responsiveness. What sets Everest Group apart is the integration of deep sourcing knowledge, problem-solving skills and original research. Details and in-depth content are available at [www.everestgrp.com](http://www.everestgrp.com).

### Dallas (Headquarters)

info@everestgrp.com  
+1-214-451-3000

### Bangalore

india@everestgrp.com  
+91-804-276-4533

### Delhi

india@everestgrp.com  
+91-124-496-1000

### London

unitedkingdom@everestgrp.com  
+44-207-129-1318

### New York

info@everestgrp.com  
+1-646-805-4000

### Toronto

canada@everestgrp.com  
+1-647-557-3475

## Stay connected

### Website



[www.everestgrp.com](http://www.everestgrp.com)

### Social Media



@EverestGroup



@Everest Group

### Blog

[Sherpas In Blue Shirts](http://www.sherpasinblueshirts.com)

[www.sherpasinblueshirts.com](http://www.sherpasinblueshirts.com)