



Conversing with AI – Intelligent Virtual Agents (IVA) Market Report 2019

Service Optimization Technologies (SOT) Market Report – November 2018: Complimentary Abstract / Table of Contents

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- Locations | Cost, skills, sustainability, portfolio – plus a tracking tool
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- Other | Market intelligence, service provider capabilities, technologies, contract assessment

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Background and scope of the research

Background of the research

Intelligent Virtual Agents (IVAs) are Artificial Intelligence (AI) powered conversational bots that have potential to offer high value in various business functions such as contact center, F&A, HR, and IT & helpdesk through superior customer satisfaction, round the clock support, and reduction in service costs for the enterprises. Realizing these benefits, many enterprises, vendors, and service providers are investing in this area. However, IVA is a burgeoning market with advanced and sophisticated cognitive 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. With a rewarding business opportunity and a huge market potential, multiple vendors are looking at building competitive solutions to compete in the market.





This report is meant to provide IVA buyers, IVA technology vendors, and third-party enablers (for e.g. system integrators) a detailed view of the current state of the market. The current report provides insights into key developments in the IVA market, adoption trends by geographies, industries & business functions, solution characteristics, vendor landscape overview, and future outlook for 2019-2020.

Some of the findings in this report, among others, are:

Key developments in the IVA market

- In the last 12-18 months, the market has witnessed a gradual shift from rule-based solutions to AI-driven IVA solutions
- IVAs have evolved beyond solving basic customer queries and are becoming capable of handling much more complex interactions such as sales & marketing, payment collections, employee support, and customer acquisition & retention
- Due to their ability to work in synergy with other digital and automation technologies such as RPA, IoT, image recognition, and analytics, IVAs are becoming capable of enhancing the overall customer experience

Market overview & current adoption

- IVA solutions are currently in the initial adoption stage with most of the enterprises running them as POCs/pilots in silos
- North America leads the overall adoption of IVA solutions given the high maturity of the contact center market in the region; however, the technology elicits interest across major geographies including emerging markets in Asia Pacific and Latin America
- BFSI is the biggest adopter of IVA solutions with focus on improving CX and saving costs; telecom, technology, and manufacturing are the other major adopters

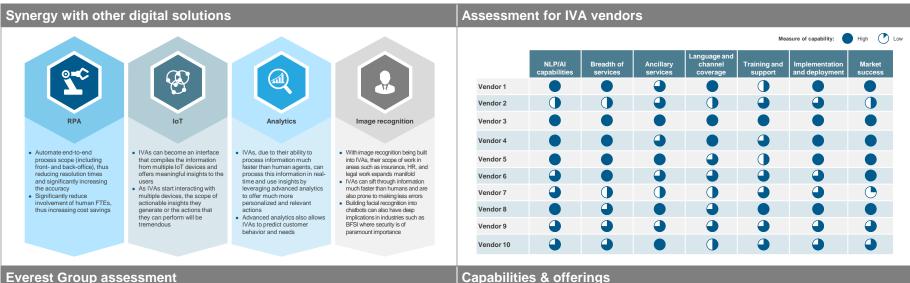


Overview and abbreviated summary of key messages (page 2 of 2)

Solution characteristics	 IVA solutions are offered as off-the-shelf solutions, platform-as-a-service, or software-as-a- service, depending on the requirements of enterprises
	 NLP capabilities, Machine Learning (ML), and language & channel support constitute the core capabilities of IVA solutions, while sentiment analysis, image recognition & extraction, and analytics are additional offerings that enhance their value proposition
	 The majority of the vendors leverage usage-based pricing model wherein clients are charged based on the number of interactions or some derivatives, thereof. They also charge a one-time implementation fee and an annual maintenance fee
Vendor landscape	 The IVA vendor landscape consists of AI/NLP companies, technology companies, and service providers
	 Based on Everest Group research, we have assessed ten IVA vendor products across different parameters. These include:
	 AI/NLP companies: Aivo, Amelia – IPsoft, Creative Virtual, Inbenta, Konverso, and Kore.ai
	 Technology companies: IBM Watson and HCL DRYiCE Lucy
	 Service providers: AIVA – [24]7.ai and Nia – Edgeverve



This study offers five distinct chapters providing a deep dive into key aspects of IVA market; below are four charts to illustrate the depth of the report



Everest Group assessme

	overview	

Vendor is a customer experience software and services company. It leverages AI and machine learning to help companies create a personalized and predictive customer experience across various channels. It provides off-the-shelf customized IVA solution to its clients

Year of establishment: xxxx

Headquarters: New York, USA

olution overview

- It is focused on automating enterprise support functions and offering offthe-shelf solutions to enterprises
 It plans to focus on the B2B market and considers its rich data sets in this
- area as its core strength
 It supports multiple languages such as English, Arabic, Chinese, Dutch,
- French, German, Italian, Japanese, Korean, Portuguese, and Spanish Along with voice conversational capabilities, it is capable of understanding intent and emotion of the conversation and respond accordingly. Its NLP
- engine uses past conversations & customer history to generate more personalized messages and to understand intents more accurately The IVA can also assist human acents with the recommendations during
- the conversation with the user. The IVA is capable to learn based on whether the recommendations were accepted or rejected by human agent
- It also has a developer community forum that acts as a knowledge exchange center for users to interact, share ideas, and connect

Further opportunities for investments

Image recognition could be another value addition to its portfolio of IVA. It is provided as built-in capability by many of the other players in the industry
 Offering accreditation/certification and online user community would make its training & support more robust

- Providing on-premise deployment can be a good value addition for its clients especially in industries such as BFSI and healthcare





Research calendar - Service Optimization Technologies (SOT)

Published	Planned [] Current release
Flagship SOT reports	Release date
Enterprise RPA adoption – Pinnacle Model™ Analysis 2018	March 2018
Robotic Process Automation (RPA) – Technology Vendor Landscape with Products PEAK Matrix [™] Assessment 2018	April 2018
Robotic Process Automation (RPA) – Technology Vendor Profile Compendium 2018	May 2018
Robotic Process Automation (RPA) Annual Report 2018 – Creating Business Value in a Digital-First World	June 2018
SDA in Healthcare BPS – Service Provider Landscape with PEAK Matrix [™] Assessment 2018	Q4 2018
Intelligent Document Processing – Technology Vendor Landscape with PEAK Matrix [™] Assessment 2018	Q1 2019
Thematic SOT reports	
Role of Artificial Intelligence (AI) and Cognitive Solutions in Delivering Customer Experience of the Future	March 2018
Defining Enterprise RPA	May 2018
Buyer Satisfaction with Robotic Process Automation (RPA) – How Far or Close is Reality from Hype?	July 2018
GDPR Compliance – Can Automation Save the Day?	July 2018
Reimagining the Employee Experience in the Age of Artificial Intelligence	August 2018

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Conversing with AI – Intelligent Virtual Agents (IVA) Market Report 2019	November 2018
Smart RPA Playbook	
Toolkit – RPA in GICs Toolkit	Q4 2018
Fulfilling the promise of RPA in F&A - A reality check	Q4 2018
RPA in Banking - A prioritization framework	Q4 2018

Note: For a list of all SOT reports published by us, please refer to our website page



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Research calendar – Customer Experience Management (CXM) Services

Published	Planned [] Current release
Flagship CXM Services reports	Release date
Contact Center Outsourcing (CCO) – Service Provider Profile Compendium 2017	July 2017
Contact Center Outsourcing (CCO) – Annual Report 2017	August 2017
Contact Center Outsourcing (CCO) – Service Provider Landscape with Services PEAK Matrix™ Assessment 2018	June 2018
Contact Center Outsourcing (CCO) – Service Provider Profile Compendium 2018	August 2018
Contact Center Outsourcing Annual Report 2018: Transforming Customer Experience through a Digital-First Approach	September 2018

Thematic CXM Services reports

The Philippines Pivoting to Deliver Customer Experience of the Future	October 2017
Chatbots Delivering Enhanced Customer Experience: It is Easy to Get it Wrong	October 2017
The Business Case for RPA and Chatbots in Contact Centers	December 2017
The Evolving Customer Experience Management (CXM) Talent Model: The Rise of the Super Agent	March 2018
Role of AI and Cognitive in Delivering Customer Experience of the Future	March 2018
Contact Center Services for the U.S. Market: Location Strategies for the Digital World	March 2018
Digital CXM Overview: Transforming Customer Experience in a Digital-First World	September 2018
Conversing with AI – Intelligent Virtual Agents (IVA) Market Report 2019	November 2018
Innovation within CXM: Understanding the enterprise needs and the role of service providers	Q4 2018
Accelerating CX through an Optimized Outsourced Contact Center Delivery Model	Q4 2018
CXM Analytics – Service Provider Landscape with Services PEAK Matrix™ Assessment 2018	Q1 2019

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Additional SOT and CXM Services research references

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

- RPA Technology Vendor Landscape with Products PEAK Matrix[™] Assessment 2018 (EGR-2018-38-R-2595); 2018. Robotic Process Automation (RPA) is one of the key enablers of digital transformation for enterprises and global service providers. This report uses Everest Group's proprietary PEAK Matrix[™] to assess and evaluate RPA capabilities of technology vendors across two key dimensions, market impact and vision & capability. It also includes market share analysis of technology vendors, insights into advances in RPA technologies and Everest Group's remarks on technology vendors highlighting their key strengths and areas of improvement, with specific focus on RPA
- 2. Robotic Process Automation (RPA) Annual Report 2018 Creating Business Value in a Digital-First World (EGR-2018-38-R-2691); 2018. Robotic Process Automation (RPA) continues to expand its reach and client base as more enterprises become aware of the benefits of the technology. In this report, we have focused on RPA market size and growth, buyer adoption trends & key learnings from early adopters, RPA solution characteristics, technology trends, RPA technology vendor landscape, and future outlook for 2018-2019.
- 3. Decoding Digital Customer Experience Management (EGR-2018-21-R-2791); 2018. This report aims to provide detailed insights into the role of digital solutions in delivering customer experience of the future. It establishes the scope of digital in Customer Experience Management (CXM) services, overview of the digital CXM market, adoption characteristics for digital solutions, and investments required for a successful digital transformation of CXM for enterprises
- 4. Contact Center Outsourcing Annual Report 2018: Transforming Customer Experience Through a Digital-First Approach (<u>EGR-2018-21-R-2768</u>); 2018. This report will assist key stakeholders (buyers, service providers, and technology providers) understand the changing dynamics of the CCO market and help them identify the trends and outlook for 2018-2019. In this backdrop, the report provides comprehensive coverage of the global CCO market including detailed analysis of the market size & growth, buyer adoption trends, CCO value proposition & solution characteristics, and service provider landscape

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