

Strategies for Integrating Voice in the Smart Home

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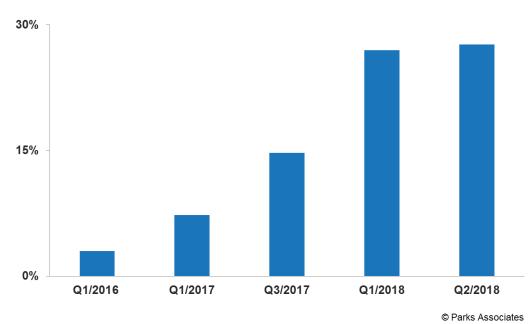
Synopsis

Voice can provide a simple, compelling user experience, but the path to adding voice controls to any product, service, or application is complex. As major companies continue to create voice-enabled interfaces, product designers, developers, and manufacturers will be forced to rethink the user experience and user interface. This report profiles the key technology partners that can help companies integrate voice and evaluates different strategies for implementation. This report includes a fiveyear forecast of voice technologies in the

Tracking Adoption of Smart Speakers

Smart Speakers with Personal Assistant Ownership

U.S. Broadband Households



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home.

"As smart home device ownership increases, with owners often having multiple devices, voice as a centralized user interface for the home will grow in importance. Interoperability serves as a driving factor. Voice will become a key interface to alleviate the complexity in smart home fragmentation," said Dina Abdelrazik, Research Analyst, Parks Associates.

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Smart Home Device Adoption (2014 – 2017)

Smart Speaker Adoption (2016 – 2018)

Total Number of Connected Devices per U.S. BB HH (2015-2018)

Smart Speaker Activities (2017 - 2018)

Methods Used to Perform Tasks with Smart Home Devices

Voice Implementation Strategies

Use of Personal Assistant Apps

Adoption of Smart Speaker Brands (2017 - 2018)

Google Assistant Smart Home Ecosystem

Amazon Alexa Smart Home Ecosystem

Apple HomeKit Smart Home Ecosystem

Microsoft Cortana Smart Home Ecosystem

Comparison Table of Major Voice Assistants

Voice Recognition Hardware Components

Natural Language Processing

Trustworthiness of Company Types to Access/Manage Personal Data

Cloud and Local Processing – Advantages and Disadvantages

Smart Speaker with Voice Assistant Forecast Methodology Flowchart

U.S. Unit Sales Forecast 2017-2022, Smart Speakers with Voice Assistant

List of Companies

Alexa Nuance
Amazon Rogers
Apple Roku
Brilliant Samsung
Comcast Snips
Deutsche Telekom Sonos



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ecobee SoundHound
Google Synaptics
Harman Kardon Vivint
Microsoft Zonoff
MiOS

Attributes

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