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Global Markets and Technologies for Edge Computing Through 2023

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Abstracts

REPORT SCOPE

The scope of this report covers the overall edge computing technologies market with market sizing and trends analysis for the most recently completed actuals for 2018 as well as forecasts, trends and compound annual growth rates (CAGRs) for 2018 through 2023. Specific segments within this scope are as follows:

Technology segments:

Edge computing.

Hardware.

Software.

Services.

The report will also segment revenue by end use in terms of:

Cloud providers.

Enterprises.

The industry sector applications revenue covered will be:

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Consumer Products.

Energy.

Financial Services.

Government.

Industrial.

Materials.

Retail.

Telecommunications.

Transportation.

Utilities.

REPORT INCLUDES

39 data tables

An overview of the global markets for edge computing technologies

Analyses of global market trends, with data from 2017, estimates for 2018, and projections of compound annual growth rates (CAGRs) through 2023

Explanation of major drivers and regional dynamics of the market and current trends within the industry

Characterization and quantification of the market potential for managed IT services by region and product

Company profiles of leading players in the market, including Arista Networks, Barracuda Networks, Lenovo, Western Digital, Oracle and Dell Inc.

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SUMMARY

Before the concept of a centralized data processing architecture dependent on a cloud data center, much of the processing occurred locally. This method was more expensive and less flexible than cloud computing, but local processing provided faster response time and more compute power close to the application, enabling solid performance. With the move to cloud computing, most of the processing occurs at the data center, requiring the data to traverse multiple network interconnection points. These hops between internet nodes and gateways can lead to significant bottlenecks that increase latency, delaying application performance.

As the current generation of applications, including big data analytics, cognitive computing and the Internet of Things, require high bandwidth and low latency, the cloud model is causing performance degradation. Edge computing uses a new architecture to stage processing for part of the application workload closer to the user. Enabled by cloud technologies, edge computing provides local scaled-down network nodes and mini-data centers that can be deployed within a distributed infrastructure. The goal is the improve application performance without incurring the cost and inflexibility of local processing.

The market drivers of edge computing are creating new installations of software, hardware and network technologies at the edge of the network, resulting in a market of nearly REDACTED in 2018, growing to REDACTED in 2023 at a CAGR of REDACTED.

Reasons for Doing This Study

BCC Research believes the market for edge computing technologies represents a long-term trend that will transform the way networks are deployed. New networking systems and architectures will also enable the easier scaling and greater flexibility required by today’s environment.

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Government
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ARISTA NETWORKS
ARRAY NETWORKS
BARRACUDA NETWORKS
BIG SWITCH NETWORKS
BMC SOFTWARE
BROCADE COMMUNICATIONS SYSTEMS INC.
CAVIUM
CHECKPOINT SOFTWARE
CISCO
CITRIX

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CLOUDFLARE
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DDN
DELL INC.
DIGITAL REALTY
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EXPEDIENT
EXTREME NETWORKS
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FOGO DATA CENTERS
FORTINET INC.
FUJITSU
FUSION-IO
GLOBAL SWITCH
HEWLETT-PACKARD ENTERPRISE (HPE)
HITACHI VANTARA (HITACHI DATA SYSTEMS)
HUAWEI
IBM
INFINIDAT
INFORTREND
INSPUR
INTEL
INTEROUTE
JUNIPER NETWORKS
KEMP TECHNOLOGIES
LENOVO
LEVEL 3 COMMUNICATIONS
LIMELIGHT NETWORKS
LSI
NEC
NETAPP
NETCETERA
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ORACLE

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RED HAT
RIVERBED TECHNOLOGIES
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SCALITY
SEAGATE
SILVER PEAK SYSTEMS
SIX DEGREES GROUP
SOPHOS INC.
SOLIDFIRE INC.
SOUTHSUITE (CORAID)
STRATOSCALE
SUNGARD AVAILABILITY SERVICES
SWIFTSTACK
SYMANTEC
SYNOLOGY
TELECITY GROUP
TINTRI
TOSHIBA STORAGE PRODUCTS
VIOLIN MEMORY
VMWARE
WESTERN DIGITAL
XIO TECHNOLOGIES

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