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ADAS and Autonomous Driving Industry Chain Report 2018-2019 - OEMs ................................................................. 85
This IDC study discusses building advanced analytics capacity for a Smarter City. "Advanced analytics for Smart Cities, whether it's data science and machine learning or AI-enabled services, requires elements from across the organization to work effectively. It is not strictly a technical endeavor. You need people, tools, and domain knowledge spanning the organization," says Curt Savoie, program director, IDC Smart Cities and Communities. "For cities to really excel with this technology, not only do they have to invest in the technology platforms but they also have to begin to think differently about data."

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- What Is Advanced Analytics for a smarter city?
- Who Are the Key Stakeholders?
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- Advice for Technology Buyers
- Related Research


The Broadband Router market was valued at Million US$ in 2018 and is projected to reach Million US$ by 2025, at a CAGR of during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for Broadband Router.

This study focuses on the production side and consumption side of Broadband Router, presents the global Broadband Router market size by manufacturers, regions, type and application, history breakdown data from 2014 to 2019, and forecast to 2025.

In terms of production side, this report researches the Broadband Router capacity, production, value, ex-factory price, growth rate, market share for major manufacturers, regions (or countries) and product type.

In terms of consumption side, this report focuses on the consumption of Broadband Router by regions and application. The key regions like North America, Europe, Asia-Pacific, Central & South America, Middle East and Africa etc.
**Market Perspective: Latin America Digital Transformation in the Mining Sector**

Published by IDC
Pub. Date 2019/04/12
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USD 7500 PDF by E-mail (Single User License)

"The impact of the implementation of digital transformation strategies on the industry is enormous, for example, it is estimated that the potential global impact of implementing a remote operations center is US$77 billion dollars between 2016 and 2025 only for the industry," says Patricio Soto, consulting manager, IDC Chile.

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**Global DSL Modem Market Insights, Forecast to 2025**

Published by QYResearch
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USD 9800 PDF by E-mail (Enterprise Wide License)

The Global DSL Modem Market Insights, Forecast to 2025 is a professional and in-depth study on the current state of the Modem market. Annual estimates and forecasts are provided for the period 2018 through 2025. Also, a six-year historic analysis is provided for these markets. The global market for DSL Modem is expected to reach about 1173.27 Million USD by 2025 from 1509.92 Million USD in 2018, registering a Compounded Annual Growth Rate (CAGR) of -3.54% during the analysis period, 2018-2025.

The report provides a basic overview of the Modem industry including definition, classification, application and industry chain structure. Then, the report focuses on global major leading industry players with information such as company profiles, product picture and specifications, sales, market share and contact information. What’s more, the Modem industry development trends and marketing channels are analyzed.
**Worldwide Datacenter Installation Census and Construction Forecast, 2019-2023**

Published by IDC  
Price  
USD 4500 PDF by E-mail (Single User License)

This IDC study provides our annual summary of data from IDC’s semiannual Worldwide and U.S. Datacenter Deployment Model data product (see Worldwide and U.S. Datacenter Deployment Model and Spend Forecast, 2H18: 2011-2023, IDC #US44887719, February 2019). It provides a census of worldwide datacenters by size, sophistication, and ownership. It assesses the impact of changing industry business models on datacenter design, construction, and management. In today’s world of cloud, mobile devices, and cognitive systems, effective datacenter planning and management are critical to business success. More details on spending associated with datacenter construction and datacenter design approaches can be found in the current Worldwide and U.S. Datacenter Deployment Model. “To drive the speed and agility that businesses demand, IT teams must deliver resources running in shared cloud datacenters as well as in dedicated systems on and off the business premises. The key challenge for CIOs and IT teams is to have a strategy that allows them to take advantage of the right technologies, supporting services, and economic models to optimally place workloads across all their datacenters,” says Richard Villars, research vice president, Datacenter and Cloud.

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**Global Telecoms Market: Trends and Forecasts 2018-2023**

Published by Analysys Mason  
Price  
USD 7999 PPTX, PDF and Excel by E-mail (Single User License)

“Telecoms service revenue will continue to grow worldwide, primarily due to the continuous demand for mobile data services.”

Mobile handset revenue will account for 44.9% of the total service revenue in 2023 due to the mobile-centric nature of most regions. Regions with significant populations are also still exhibiting growth in this segment. This report examines telecoms trends on a global and regional level and provides key insights into the future of these markets.

This report and data annex provide:
- a 5-year forecast of more than 180 mobile and fixed KPIs for the worldwide telecoms markets and for eight regions
- an in-depth analysis of the trends, drivers and forecast assumptions for each type of mobile and fixed service in each geographical region, and a worldwide summary
- an overview of operator strategies and region-specific topics, in order to highlight similarities and differences by means of a cross-regional comparison
- a summary of results, key implications and recommendations for mobile and fixed operators.
5G and the Transport Network: Operator Strategies

This IDC Perspective outlines the role of the transport network in the 5G era, surveys the solutions available, and explores mobile operators' views and plans with regard to ensuring their transport network can meet the demands that 5G will place upon it. "The higher data rates and lower latency of 5G will place new demands on the mobile transport network," said John Delaney, Associate VP of Mobility, IDC Europe. "Will operators successfully anticipate these demands? Or will backhaul become a bottleneck again?"

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U.S. Smartwatch Forecast, 2019-2023

This IDC study presents the five-year forecast for smartwatches shipments in the United States. "The U.S. smartwatch market is taking slow but steady steps forward," says Ramon T. Llamas, research director for IDC's Wearables team. "The smartwatches we see today are several strong steps ahead of the ones we saw as recently as 2015, with greater functionality, style, and affordability. And as the experience improves with cellular connectivity, deeper health and fitness features, and a slowly growing third-party application ecosystem, the smartwatch will find greater reception among end users."

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Worldwide Augmented and Virtual Reality Hardware Forecast Update, 2019-2023: CY 2Q19

Published by IDC
Price
USD 4500 PDF by E-mail (Single user license)

This IDC study provides an updated forecast for the worldwide augmented and virtual reality hardware market for the 2019-2023 period. "2019 marks a turning point for the worldwide AR/VR market," says Ramon T. Llamas, research director for IDC's Mobile Devices and AR/VR team. "Long-awaited product refreshes, continued momentum from both emerging and veteran companies, and new silicon solutions will offer improved experiences to end users. Meanwhile, we anticipate continued warming reception for AR/VR devices from both consumers and commercial users. Altogether, this leads to a steadily growing market across our forecast horizon."

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AI (Artificial Intelligence) in Retail: Segment Analysis, Vendor Positioning & Market Forecasts 2019-2023

Published by Juniper Research
Price
USD 2666.60 Web Access - Executive Summary & Core Findings (Enterprise Wide License) ~ USD 5480.60 Web Access - Full Research Suite (Enterprise Wide License)

Juniper's latest 'AI in Retail' research provides a detailed overview of how AI (Artificial Intelligence) and machine learning strategies are being harnessed by retailers to transform both back office operations and customer-facing efforts. The research analyses the regional outlook for AI in retail adoption, as well as offering analysis of key AI areas, such as demand forecasting and personalisation.

The report also examines the use of chatbots, AI-managed digital signage and smart checkout technologies in the retail environment; assessing their future viability. It also includes insightful player analysis alongside key recommendations for stakeholders in the industry to inform strategic planning.

The analysis covers key industry segments, including:

- Demand Forecasting
- Sentiment Analytics and Customer Service
- Automated Marketing
- Retail Chatbots
Digital Transformation Market by Technology (Cloud Computing, Big Data & Analytics, Mobility/Social Media, Cybersecurity, Artificial Intelligence), Deployment type, Business Function, Vertical (Retail, Education), and Region - Global Forecast to 2023

"Digitalizing organizational business functions to serve changing customer preferences and enhance operational efficiency, the rapid proliferation of mobile devices and apps, and increasing penetration of IoT and adoption of cloud services are some of the factors driving the market."

The digital transformation market is projected to grow from USD 290.0 billion in 2018 to USD 665.0 billion by 2023, at a CAGR of 18.1% from 2018 to 2023. Digitalizing organizational business functions to serve changing customer preferences and enhance operational efficiency, the rapid proliferation of mobile devices and apps, increasing penetration of IoT and adoption of cloud services, and the need to improve operational performance to gain competitive benefits in the market are projected to drive the growth of the market across the globe. However, security and privacy concerns for confidential data is expected to restrict the growth of the market across the globe.

Low-Code and No-Code Developer Census, 2019: Growth Begins in Earnest

"IDC estimates 2.57 million low-code and no-code developers in the world at the outset of 2019," said Arnal Dayaratna, research director, Software Development at IDC. "In particular, there are 1.76 million low-code developers and 0.81 million no-code developers that represent 7.5% and 3.5% of the world's developer population, respectively. Notably, low-code and no-code developers respectively account for 4.0% and 0.8% of the world's full-time developer population. IDC expects demand for rapid application development to significantly expand both low-code and no-code developer populations within the next three to five years."

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Published by IDC

Price
USD 4500 PDF by E-mail (Single User License)

This IDC study provides a detailed description of IDC's Worldwide Semiannual Digital Transformation Spending Guide methodology and taxonomy. It should be used as a companion piece for IDC's Worldwide Semiannual Digital Transformation Spending Guide. Technology suppliers may utilize IDC's use case approach and structure, as presented in this document, to help them refocus their products and services and build relevant business cases. "IDC's Worldwide Semiannual Digital Transformation Spending Guide presents a comprehensive view of the digital transformation ecosystem," said Research Manager Craig Simpson of IDC's Customer Insights and Analysis Group. "It is an invaluable resource to help vendors define and standardize their vocabulary when approaching this expanding and dynamic market."

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**Blueprint for Intelligent Edge and Implications for Industrial Internet of Things**

Published by IDC

Price
USD 4500 PDF by E-mail (Single User License)

With the impending launch of 5G mobile and fixed access services in the 2019-2021 time frame, the strategic role of edge computing will expand to industrial internet of things (IoT) and consumer IoT. The IT industry has developed tools to help manage edge computing, but in order for scale to be achieved, communication service providers (CSPs) will need to build frameworks that will enable ICT vendors to collaborate with vertical systems integrators and application/content developers. "We believe that 5G will be the catalyst for edge computing to go mainstream by 2022-2023, and leading enterprises in each major industry will explore and seek to achieve proof of concept in the next three years," says Hugh Ujhazy, VP of telecom and IoT, IDC Asia/Pacific. "Cloud-native technologies, such as container orchestration and fixed software-defined WAN (SD-WAN) with traffic steering and load balancing, and wireless SD-Wan with VPN bonding and cellular bonding will become part of the runtime platform for the edge," he adds.
“Operators in Nigeria have the opportunity to develop convenient mobile services to attract consumers that still prefer to use cash or that lack access to credit or debit payment cards.”

This report focuses on aspects of Analysys Mason’s Connected Consumer Survey that relate to the behaviour, preferences and plans of smartphone users in Sub-Saharan Africa (SSA). In particular, it focuses on respondents’ usage of digital services. The survey was conducted in association with On Device Research.

This report:

- discusses the main ecommerce trends in Sub-Saharan Africa (SSA), including the type of devices that consumers use to purchase goods, the frequency of these payments and the main payment mechanisms for ecommerce as well as physical payments
- provides insight into the organisations that consumers in these regions are most willing to trust
- analyses consumer interest and ownership of various connected devices.

Survey data coverage:

The research was conducted between August and October 2018. The survey groups were chosen to be representative of the mobile-Internet-using population in the region. We set quotas on age, gender and geographical spread to that effect. There was a minimum of 1000 respondents per country, and 3000 respondents in the region.
This report provides an outlook on the telecoms and ICT services market in Canada for businesses of all sizes. It contains forecasts for fixed and mobile voice and data network services, as well as ICT services such as security, unified communications and public and private cloud services.

This report contains:

- forecasts for operator services to micro, small and medium-sized enterprises (MSMEs) and large enterprises including fixed and mobile voice and data services, IoT connectivity services and other business services such as security and co-location and hosting
- quantification of revenue, the number of connections or users and ARPU for each service and each enterprise segment (micro, small, medium and large)
- an estimate of the total market addressable by operators for ICT business services and the likely share achievable by them for each service
- demographic data on the number of employees, enterprises and sites within each segment (note that we include entities in the governmental and public sectors).

It also provides brief profiles of operators active in the Canadian business market including Allstream, Bell, Eastlink, Rogers Communications, SaskTel, Shaw Communications, TELUS and Videotron.
Revenue Cycle Management (RCM) Market Size, Share & Trends Analysis By Product (Software, Service), By Type (Integrated & Standalone), By Delivery Mode, By End Use, And Segment Forecasts, 2019 - 2026

The global revenue cycle management market size is expected to reach USD 73.2 billion by 2026, according to a new report by Grand View Research, Inc. It is anticipated to register a CAGR of 12.0% during the forecast period. In recent years, revenue cycle departments of private and community hospitals have received greater attention as an important driver to their revenue streams. The use of next-generation technology and data analytics tools enabled hospitals in tracking costs and identify cost-saving strategies, reducing denial management cases and optimizing financial performance.

Increase in cloud-based solutions, rising denial management cases, and strong government initiatives are expected to contribute to the growth in demand for Revenue Cycle Management (RCM) over the forecast period. According to the U.S based research firm Black Book, in the past six years, 400 out of 522 hospitals surveyed, implemented RCM systems. In January 2019, hospitals who have not systems in place, which is approximately 82.0%), said they are planning to have a revenue cycle management system in place.

However, the revenue cycle management market is facing stiff challenges such as lack of trained professionals and high deployment costs. Denial identification is another challenge for these systems. According to a study conducted by the Healthcare Information and Management Systems Society (HIMSS), it is estimated that approximately 31.0% of the providers are still using manual claims for the denial identification.
**WIRELESS BACKHAUL & 5G VIA SATELLITE, 13th EDITION**

Published by Northern Sky Research, LLC

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NSR's "Wireless Backhaul & 5G via Satellite, 13th Edition" is the longest-standing industry analysis and forecast of the Satellite Backhaul and Trunking backbone sector. The study analyzes all the key market trends behind each major category of backhaul connectivity-services using a fixed satellite antenna:

The study covers the global installed base of sites broken down by 7 regions, forecasts capacity demand, assesses capacity revenues as well as CPE shipments and revenues. New in this edition, the report presents an assessment of the implications of 5G for the satellite industry. Furthermore, the research investigates the new Hybrid Networks applications and formulates different business cases for Satellite Backhaul and Hybrid Networks to understand the effects of key factors in Satellite's potential (Smallcells, capacity pricing, bandwidth requirements, traffic profile...).

The report also analyzes capacity revenue trends in this challenging time for pricing, equipment vendor market share and Cellular Backhaul addressable markets. Now standard in NSR's report, capacity and equipment forecasts are structured into FSS-C, -Ku and -Ka band, GEO-HTS-C, -Ku and -Ka band and non-GEO-HTS. Strategic insights on markets and verticals key to capturing growth in these current transformational times are core elements of this study.

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**Digital Twins in IoT: Market Strategies, Challenges & Future Outlook 2019-2023**

Published by Juniper Research

**Price**
- USD 3015 Web Access - PDF & Excel (Enterprise Wide License) ~
- USD 4006.60 Web Access - Full Research Suite (Enterprise Wide License)

www.giiresearch.com/ce/821209

Juniper Research's 'Digital Twins in IoT' research provides a comprehensive evaluation of the origin, challenges, advantages, key drivers and future outlook of Digital Twins. It offers an in-depth assessment of select key players and industries which are offering and utilising Digital Twins respectively.

This research provides crucial insights for industries, particularly in manufacturing, transport and energy and utilities, among others seeking to deepen their understanding of the different strengths, opportunities and weaknesses of Digital Twin modelling solutions presented by key players:

- General Electric
- Dassault Systèmes
- Siemens
- Bosch
- PTC
- Microsoft
- Oracle
- ANSYS
- IBM
- SAP
- Hitachi

It explores different regions and key markets championing the use of digital twins, and subsequently driving adoption of this technology, to enhance efficiency of their physical assets and processes.
Antenna for 5G and 5G-related Applications Patent Landscape

Players worldwide are racing to develop and assert their next generation of antenna devices. On the cusp of the release of the first 5G devices, get an insider’s view of players’ IP activities and their related antenna technology developments.

5G (5th-generation) wireless communication, expected to hit the market by 2020, is the next mobile technology standard - delivering high data rate, low latency communications, and massive device connectivity.

5G is a broad market, and its deployment requires the development of many technology blocks. Indeed, 5G will affect global telecommunication services such as mobile phones, IoT (internet of things), vehicles, and more. Along with mobile devices, 5G and 5G-related networks require the deployment of new infrastructures supporting specific protocols and operation modes, such as multi-input multi-output (MIMO), massive MIMO, beamforming, beam steering, carrier aggregation, and others. In addition to increase the data rate and bandwidth, 5G devices must be compatible with many data types. 5G players must explore new frequency spectrums and more - especially the millimeter wave frequencies (from 20 GHz - 300 GHz). Among all RF components now in development for 5G applications (filters, power amplifiers, RF front-end modules, etc.), the antenna has become a very complex, invaluable segment of the 5G network.

The Global Market for Embedded Security Software: Verticals and Startups Driving Growth

What questions are addressed?

• How large is the market for embedded security software, and how fast is it growing?
• What factors are driving adoption of embedded security software?
• Which vertical markets are the largest and which are the fastest growing for embedded security?
• Which vendors are the leading providers of embedded security software?
• Which types of embedded security software are most important to OEMs and device engineering organizations?

Vendors Listed in this Report

Allegro Software, Argus Cyber Security, BlackBerry (including Certicom, Cylance, and QNX), Bosch (including ETAS, ESCRYPT, and TrustPoint), Gemalto, Harman (including TowerSec), Green Hills Software, HCC Embedded, IBM, Icon Labs, Inside Secure, Intertrust, Irdeto, Kaspersky Labs, Kudelski (including Nagra), McAfee, Mocana, PAS, Rambus, secumet Security Innovation (and OnBoard Security), Sophos, Symantec Synamedia, Thales, Trend Micro, Wind River, WISeKey, wolfSSL
This report provides an outlook on the telecoms and ICT services market in New Zealand for businesses of all sizes. It contains forecasts for voice and data services on fixed and mobile networks, as well as other business services such as security, co-location and hosting, and public and private cloud services.

This report contains:

- forecasts for operator services to micro, small and medium-sized enterprises (MSMEs) and large enterprises including fixed and mobile voice and data services, IoT connectivity services, and ICT business services such as security and co-location and hosting
- quantification of revenue, connections or users and ARPU for each service and each enterprise segment (micro, small, medium and large)
- an estimate of the total market addressable by operators for ICT business services and the share that they are likely to achieve for each service
- demographic data on the number of employees, enterprises and sites within each segment (note that we include entities in the governmental and public sectors).

It also provides brief profiles of the major operators that are active in New Zealand's business market, including 2degrees, Spark, Vocus Group and Vodafone.

The global procurement analytics market size is expected to grow from USD 1.6 billion in 2018 to USD 4.1 billion by 2023, at a Compound Annual Growth Rate (CAGR) of 20.4% during the forecast period. Growth factors for the market include organizations' increasing focus on enhancing the operational efficiencies of their procurement channels and their imminent need to handle compliance polices and contracts. However, lack of analytical expertise and employees' reluctance to adopt advanced analytical technologies may affect the market growth.

Services segment to grow at a higher CAGR during the forecast period

The procurement analytics market by service includes professional and managed services. Further, professional services have been classified into consulting, training and education, integration and deployment and support and maintenance services. These services help clients understand their procurement related processes effectively. The solution segment is expected to hold a larger market size during the forecast period. The procurement analytics solutions are being deployed by many Small and Medium-sized Enterprises (SMEs) for supplier and market intelligence, and to keep company expenditures to a minimum without affecting operations.

This IDC study provides the U.S. government blockchain market forecast for 2019-2022. "We believe asset management, identity management, and smart contracts will be the leading blockchain solutions for government," said Shawn P. McCarthy, research director for IDC Government Insights. "Early spending will focus on supply chain and asset management solutions, while spending in later years will expand to include more identity management and complex financial transactions."

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5G Millimeter-Wave Developments

The demand for connectivity in the 5G era is more fragmented than ever before, and the currently used spectrum is simply not enough to satisfy the huge variety of connectivity needs. The experienced bandwidth shortage has motivated the wireless ecosystem to start using the relatively under-utilized spectrum over 24 GHz, which are referred to as millimeter waves (mmWaves). This set of higher spectrum bands promises to unleash a large bandwidth opportunity for cellular mobile communications. The report examines why the use of these high-band frequencies not only open doors to a vast amount of network capacity, but how its lower cost-per-bit attribution and fiber-like speed will also bring enhanced mobile experiences to a huge variety of different end users. In the first phrase, mainly with Fixed Wireless Access (FWA) and Point-to-Point connectivity, and later on Point-to-Multipoint connectivity to stadiums, concert halls, airports, venues, train stations, and dense urban areas are expected to be the first locations to use mmWave technology.

This report explores the upcoming mmWave related developments and presents leading use cases such as video surveillance, venues, manufacturing, and private indoor networks. The report also extensively examines FWA, its three main types (Wireless to the Home, Wireless to the Building and Wi-Fi AC and Small cell backhauling) and future prospects.
Global 5G Chipset Market Forecast 2019-2027

Published by Inkwood Research
Price
USD 2500 PDF (Single User License) ～ USD 4500 PDF (Enterprisewide License)

Nowadays, the principal component in the consumer devices, customer premise equipment, and network infrastructure equipment has been the 5G chipset that permits the end-user to form the wireless network based on the Fifth generation wireless (5G) standard network. It is described as the next generation to the 4G LTE mobile connection network.

The global 5G chipset market is estimated to grow with a CAGR of 38.83 % during the forecasting period of 2019-2027. The market is expected to reap revenue of $24,335 million by the end of 2027.

MARKET INSIGHTS

The 5G networks are expected to expand broadband wireless services beyond Mobile Internet to the Internet of Things (IoT) and critical communication segments to enable a perceived fully ubiquitous connected world. Interestingly, mobile broadband subscriptions grew with the annual growth rate of more than 20% in the last six years and reached 4.3 billion globally by the end of 2017. This huge adoption in mobile broadband services was due to the affordable price. This significant upsurge in the uptake of mobile broadband services is primarily driving the growth of the 5G chipsets market. Several technological challenges, high infrastructure costs, and certain security concerns pose as the key challenges for the proliferation of the 5G chipset market. The global 5G chipset is segmented on the basis of type, offerings, and verticals.

Global Internet Of Things (IoT) Integration Market Forecast 2019-2027

Published by Inkwood Research
Price
USD 2500 PDF (Single User License) ～ USD 4500 PDF (Enterprisewide License)

Global Internet of Things (IoT) Integration market was valued at $XX million in 2018 and is estimated to generate net revenue of approximately $XX million by 2027, rising at a CAGR of 35.03% during the forecast period 2019-2027. With the proliferation of IoT & connected devices coupled with changing the industrial & commercial landscape, the need for IoT integration services has grown invariably.

MARKET INSIGHTS

Increased adoption of Bring Your Own Device (BYOD) & remote workplace management is expected to be the key reason that is positively influencing the growth of the global IoT integration market. Increasing adoption of BYOD culture has added values to organizations as it allows the employees to access emails, business data & databases on their personal devices such as smartphones & laptops, which can help companies to cut their hardware & service costs.

Though the IoT Integration market has numerous growth drivers, market growth is curtailed by certain challenges. Data security & privacy concerns & lack of standards for interconnectivity & interoperability are factors that are delaying the market growth. Rising data security & privacy concerns are lowering the adoption of IoT which is hindering the global IoT integration market.
Ultra-low latency is one of the major factors driving the 5G services market. Latency in computer network refers to the time a data packet takes to travel. Lower latency leads to a higher data transmission rate. The ultra-low latency of 5G is almost 50 times lower than the current 4G network. The 5G technology is expected to provide a latency of 1 millisecond, whereas, in 4G, the latency rate is 50 milliseconds. Because of this, 5G services would be high in demand for industrial applications and connected IoT ecosystems, as these applications and connections need faster and reliable network services.

Among range, the short-range IoT devices segment is expected to account for the highest market share during the forecast period

The short range IoT devices segment is estimated to show the highest market share in 2020 and expected to witness strong growth characteristics in the coming years. With emerging new application areas, short-range IoT devices need another type of connectivity solution that can fulfill the growing need for data speed. For instance, in-building connectivity devices in manufacturing, healthcare, energy and utilities, and retail sectors demand low latency and high power, which are fulfilled by the 5G network.

Among radio technology, the 5G New Radio (NR) standalone

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The global market for narrowband IoT is anticipated to expand at a CAGR of 43.92 during the forecast period of 2019-2027. The rising Internet penetration across the world, increased demand across industrial and commercial applications and technological development are some of the major factors responsible for the growth of narrowband IoT market. The increasing acceptance of smart technology is presenting a major opportunity for the market to expand.

MARKET INSIGHTS

Nowadays, IoT devices are deployed in both commercial & residential buildings to make energy & resource allocation more efficient with enhanced security. Narrowband IoT helps in efficient deployment of the IoT devices by providing an affordable data transmission network. The building automation market is primarily driven by high investment in the smart city development wherein the IoT is expected to play an important role. Global Smart Cities Primer Picks, Bank of America Merrill Lynch (BAML) anticipates smart city technology & management investment to reach more than $XX trillion by 2020 globally, which further would rise to $XX trillion by 2026.
The healthcare IT market is projected to reach USD 390.7 billion by 2024 from USD 187.6 billion in 2019, at a CAGR of 15.8% during the forecast period. The growing volume of patient data, an increase in technological know-how, and demand for quick and efficient healthcare processes and systems are driving the demand for HCIT solutions. Presently, healthcare systems across the globe are focusing on curtailing rising healthcare expenditure while providing quality care. The advent of information technology in the healthcare and life sciences industries has improved process efficiency in healthcare systems.

"The healthcare providers solutions segment accounted for the largest share of the healthcare IT market, by product and services, in 2018"

The healthcare providers segment is expected to dominate the healthcare IT market during the forecast period. This is attributed to government initiatives to improve the quality of patient care and the need to control growing healthcare costs & improve the efficiency of healthcare services. This segment is also expected to grow at higher CAGR during the forecast period.

This report focuses on aspects of Analysys Mason’s Connected Consumer Survey that relate to the behaviour, preferences and plans of smartphone users in Sub-Saharan Africa (SSA). In particular, it focuses on the handset channel dynamics, the usage of mobile services, spending and the level of awareness of 5G. The survey was conducted in association with On Device Research.

THIS REPORT PROVIDES:

- insight into operators performance as smartphone sales channels, and how their performance relates to consumers' choice of tariffs
- an analysis of mobile data usage patterns among respondents and how they get affected by data pricing
- an assessment of the impact of 4G on mobile users’ spend and engagement with their smartphones
- insight into subscribers’ awareness of 5G and the potential of 5G use cases
- an analysis of data utilisation levels for subscribers and the effects of differing approaches to overage.
The European smart home market is expected to grow from USD 22.8 billion in 2018 to USD 44.0 billion by 2024 at a CAGR of 11.58%. The growth of the European smart home market is driven by factors such as the growing number of internet users and increasing adoption of smart devices in Europe; increasing awareness about fitness; increasing importance of home monitoring in remote locations; rising need for energy-saving and low carbon emission-oriented solutions; cost reduction measures enabled by smart homes; rapid proliferation of smartphones and smart gadgets; large number of manufacturers expanding their smart home product portfolios; and growing concern about safety, security, and convenience among people.

"Smart speaker market of European smart home expected to grow at a high rate during 2018-2024"

The growth of smart speaker is primarily driven by the increasing number of smart homes in Europe, rising disposable income, growing trend of personalization, and rapid proliferation of multifunctional devices. The increasing focus of companies on enhancing customer experience and consumer preference for technologically advanced products over traditional products are expected to offer opportunities to players in the smart speaker space. Further, recent developments in artificial intelligence and natural language processing to enhance voice recognition capabilities have increased the overall demand for smart speakers in smart homes in Europe.

As the manufacturing value chains keep getting more complicated, organizations will look for solutions that can demystify and address the more apparent challenges related to trust. Most manufacturers rely heavily on the data that gets recorded at critical nodes of the value chain, which would be the basis for providing information for compliance, regulatory adherence, and customer satisfaction. A third-party organization can act as a mediator to ensure the accuracy of the data, but with increasing trade volumes, the associated cost and time for data verification has been on the rise. To mitigate these challenges, organizations have been looking at distributed ledger solutions that can increase the data transparency across the value chain.

This IDC Perspective looks at some of the blockchain vendors who have a presence in the supply chain space and a top-level analysis of the various enterprise blockchain platforms in the market. This report would be useful for both CIOs and supply chain line-of-business heads who are looking to invest in blockchain solutions and understand how these platforms align with their business needs.
Healthcare Chatbots Market by Component, Deployment, Application, End User, and Geography - Global Forecast to 2025

The global healthcare chatbots market is expected to grow at a CAGR of 25.1% to reach $703.2 million by 2025.

Optimum internet connectivity and rising adoption of smart devices, limited availability to council huge patient population, technology advancement in artificial intelligence, chatbots to reduce the healthcare cost, and increasing demand of virtual health assistance are the key factors driving the growth of the global healthcare chatbots market. However, factors such as data privacy concern, lack of expertise for chatbot development, and lack of awareness and misconception are hindering the growth of this market.

On the basis of component, the global healthcare chatbots market is broadly segmented into two major segments, namely, software and services. Chatbots market for software include the revenue derived from chatbot solutions excluding services such as consulting, designing, development, system integration, deployment, support and maintenance. Chatbots providers generally derive revenue from subscription-based pricing model and most of them provide freemium version which can be upgraded with monthly or annual subscription model. In 2018, the software segment accounted for the largest share of the global healthcare chatbots market, by component, while the services segment is expected to grow at a higher CAGR during the forecast period.

Worldwide Smartwatch Forecast, 2019-2023

This IDC study discusses our forecast for the worldwide smartwatch market for 2019-2023. "With the building blocks in the wearables market firmly in place, the next several years will bear witness to steadily greater shipments and warming reception among end users," says Ramon T. Llamas, research director for IDC's Wearables team. "Smartwatches have found their place in terms of design, but there is still plenty of room for functionality development. This, in turn, will drive shipment volumes among new users and current owners alike. In addition, smartwatches will connect with other devices and systems, thus increasing their value and utility."

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Network Security Firewall Market by Component, Solution (Signaling Firewall (SS7 and Diameter Firewall) and SMS Firewall (A2P and P2A Messaging)), Service (Professional Services and Managed Services), Deployment, and Region - Global Forecast to 2023

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USD 10000 PDF by E-mail (Global License)

"The network security firewall market is expected to grow at a Compound Annual Growth Rate (CAGR) of 12.2% during the forecast period, owing to growing network security and privacy concerns, increase in SS7 vulnerabilities, and advancement of digital transformation in telecommunication industry."

The global network security firewall market size is expected to grow from USD 3.0 billion in 2018 to USD 5.3 billion by 2023, at a CAGR of 12.2% during the forecast period. Due to the growing momentum of interconnected devices, the risk of security breach increased as the fraudsters found alternatives such as SMS SPAMs and SMS fraud through grey routes to exploit personal information over the organization's network. Real-time streaming analysis and filtering of SS7 vulnerabilities have been major components of network security firewall and firewall developers are using fraud detection techniques to monitor the traffic behavior of the network. Telecom organizations use network security firewall tools to dynamically extract traffic patterns from the packets transmitted as well as received at the network and continuously check network behavior against malicious contents, and to report all detected anomalies.

Connected Consumer Survey 2018: Digital Services in Europe and the USA

Published by Analysys Mason
Pub. Date 2019/04/04
Price
USD 4999 PPTX, PDF and Excel by E-mail (Single User License)

"Consumers trust operators more than they trust major Internet brands, which provides operators with potential opportunities for the responsible monetisation of customer data."

This report focuses on aspects of Analysys Mason's 'Connected Consumer Survey' that relate to the behaviour, preferences and plans of smartphone users in Europe and the USA. In particular, it focuses on respondents' usage of digital services.

This report:

- Discusses the main ecommerce trends in Europe and the USA, including the type of devices that consumers use to purchase goods, the frequency of these payments and the main payment mechanisms for ecommerce as well as physical payments
- Provides insight into the organisations that consumers in these regions are most willing to trust
- Analyses consumer interest and ownership of various connected devices.

Survey data coverage:

The research was conducted in association with Survey Sampling International between July and September 2018. The survey groups were chosen to be representative of the mobile-Internet-using population in the region. We set quotas on age, gender and geographical spread to that effect. There was a minimum of 1000 respondents per country, and 8000 respondents in the region.
The global infusion pump software market is projected to reach $1,044 million by 2024 from $742 million in 2019 at a CAGR of 7.1%. Growth in the infusion pump software market can be attributed to factors such as increasing incidence of chronic diseases, along with rapid growth in the geriatric population, growing number of surgical procedures performed, rising demand for ambulatory and home care infusion pumps, and technological developments. However, frequent product recalls of infusion pumps may restrain the market to a certain extent.

"The DERS segment is expected to hold the largest market share during the forecast period."

On the basis of type, the global infusion pump software market has been segmented into Dose error reduction software (DERS), clinical workflow software, interoperability software and other software. The DERS segment is expected to hold the largest market share during the forecast period. DERS is offered as a part of the drug library incorporated in the infusion pump. This software aids in preventing incorrect dosage of medicine by alerting the clinician via alarm. Subsequently, increasing number of reported medication errors using infusion pumps is a major factor boosting this market growth.
The growing demand to improve the internal process of educational institutions and seamlessly connect various stakeholders in the education ecosystem are expected to drive the overall growth of the student information system market.

The global student information system market is expected to grow from USD 5.0 billion in 2018 to USD 9.0 billion by 2023, at a Compound Annual Growth Rate (CAGR) of 12.4% during the forecast period. The student information system market is driven by various factors, such as the rising focus of educational institutions to improve education quality and customer satisfaction, widespread government initiatives, and technological advancements. However, lack of awareness among the educational organizations can hinder the growth of the market.

Training and consulting services segment is expected to hold the highest market share during the forecast period.

Stakeholders across the education are still unaware of the benefits and advantages of a robust student information system. Student information system not only helps the educational institution but also provides the world-class experience to its student. Student information system vendors provide training and consulting services to faculty and staff members of educational institutions so that they can have a better understanding of the entire solution. These services also help the vendors to differentiate their offering from other vendors. As the demand for the student information system is increasing the demand for associated services are also increasing.

This IDC Market Perspective provides an overview of the practical challenges in AI adoption and the top technical innovations that will help fuel the adoption of AI. It also reviews example vendor offerings to understand the varied approaches and the state of innovation. "AI is at the heart of digital disruption. AI is changing how every organization serves, operates, and wins. There are practical challenges to scale adoption, and AI-based and AI-optimized technical innovations are poised to fuel AI adoption," says Ritu Jyoti, program vice president, Artificial Intelligence Strategies.

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Full LCD instrument cluster with at least 3 or even 5 to 6 screens, will be an integral of a mainstream electronic cockpit solution which may be integrated with some local and cloud capabilities such as natural language processing (NLP), gesture control, fatigue detection, face recognition, AR HUD, HD map and V2X. So it can be said that cockpit has endless demand for computational resources, for instance, 50000DMIPS in 2020 and more after the year.

Autonomous driving needs processors that perform far better. According to Horizon Robotics’ summary of OEM demand, a higher level of automated driving means more orders of magnitude, namely, 2 TOPS for L2 autonomy, 24 TOPS for L3, 320 TOPS for L4 and 4,000+TOPS for L5.

Only computing power is not enough. Complexity of automotive applications should be taken into account. That’s because an automotive processor also has to consider how much power is consumed, how much computing power is used or whether it is up to the automotive and safety standards or not.

Automotive processor, also referred to as automotive computing chip, typically falls into three types: Application specific standard products (ASSP), like CPU and GPU; application specific integrated circuits (ASIC); field programmable gate arrays (FPGA). Conventional CPU and GPU have begun to find it hard to meet increasing new demand as AI computing is developing by leaps and bounds, and in terms of energy efficiency, underperform semi-custom FPGA and full-custom ASIC, both of which are booming.
The edge AI hardware market is expected to register a shipment of 610 million units in 2019 and is likely to reach 1559.3 million units by 2024, at a CAGR of 20.64% during the forecast period. Major drivers for the market’s growth are growing demand for low latency and real-time processing on edge devices and emergence of AI coprocessors for edge computing. Further, underlying opportunities for the edge AI hardware market include growing demand for edge computing in IoT and dedicated AI processors for on-device image analytics. Major restraints for the market are limited on-device training and limited number of AI experts. Power consumption and size constraint pose major challenges to the edge AI hardware market.

IN PROCESSORS, ASIC IS EXPECTED TO GROW AT THE HIGHEST CAGR DURING THE FORECAST PERIOD IN EDGE AI HARDWARE MARKET

The edge artificial intelligence (AI) hardware market has been segmented on the basis of processors into central processing units (CPU), graphic processing unit (GPU), application-specific integrated circuits (ASICs), and others.

ASIC offers high speed as it is dedicated to performing one particular application only. ASIC offers a user-specific customized solution. An ASIC is dedicated to performing fixed operations extremely fast as the entire chip’s logic area is dedicated to a set of narrow functions. Visual processing unit (VPU) is a class of processors that accelerates machine vision tasks. Image processing unit (IPU) is specially designed to support video and graphics processing functions, and interface with video and image sensors and displays. ASICs currently offered in the market include Intel Movidius VPUs and CEVA-XM4 imaging and computer vision processor.
Communication Services in Western Europe: Trends and Forecasts 2018-2023
Published by Analysys Mason
Price
USD 4999 PPTX, PDF and Excel by E-mail (Single User License)

“The Facebook ecosystem is currently dominating the Western European messaging market.”

This report provides an outlook on the mobile communication services market in Western Europe (WE), including country views for France, Germany, Spain and the UK. It provides forecasts for voice and messaging services provided by both mobile network operators and over-the-top (OTT) providers.

This report provides:
- forecasts for operator services including VoLTE, Wi-Fi calling and IP messaging, as well as traditional voice and messaging services
- quantification of the level of substitution from traditional services to OTT alternatives
- user and traffic forecasts for communication services, including OTT voice and messaging
- an outlook for multi-device usage across smartphones, tablets and PCs/laptops
- data for the region as a whole and for 16 countries
- individual profiles for France, Germany, Spain and the UK.

Virtual Private Server Market by Operating System (Windows and Linux), Organization Size (SMEs and Large Enterprises), Vertical (BFSI, Government and Defense, IT and Telecommunication, Retail, Healthcare), and Region - Global Forecast to 2023
Published by MarketsandMarkets
Price
USD 5650 PDF by E-mail (Single User License) ~ USD 10000 PDF by E-mail (Global License)

Increasing need for dedicated virtual servers to drive the demand for Virtual Private Server (VPS) across the globe

The global VPS market size is expected to grow from USD 2.4 billion in 2018 to USD 5.0 billion by 2023, at a Compound Annual Growth Rate (CAGR) of 15.3% during the forecast period. VPS helps organizations in gain enhanced control on their servers as compared to shared servers. VPS play an important role during the deployment of any virtualization. However, various substitutes for VPS such as shared hosting, dedicated hosting, and cloud servers, may restrict the adoption of VPS.

The Linux operating system segment to hold a larger market size during the forecast period

VPS solution combines all the typical data center hardware-based resources which are storage, compute, and networking onto an industry-standard server. Organizations use VPS for their Windows and Linux applications. However, adoption of VPS for Linux-based applications is popular among organizations. As a result, it is holding a higher market share in the global VPS market.
Micro-Location Technology Market by Application (Asset Management, Proximity Marketing), Technology (BLE, UWB, Wi-Fi, RFID), Offering, Vertical (Retail and Hospitality, Healthcare, Industrial, Transportation, Sports), Geography - Global Forecast to 2024

The micro-location technology market is projected to grow from USD 14.1 billion in 2019 to USD 34.1 billion by 2024 at a CAGR of 19.4%. Increasing importance of asset management across different industries; rise in the use of location-based mobile advertisement; high return on investment; growing adoption of mobile devices; inefficiency of GPS in indoor premises; and necessity to deliver unique customer experience in retail and hospitality are driving the growth of the micro-location technology market. However, the concerns regarding security and privacy, and the growing trend of e-commerce in the retail sector is restraining the growth of micro-location technology market.

"Proximity marketing to hold larger share of micro-location technology market during forecast period"

The micro-location technology market based on application has been segmented into asset management and proximity marketing. The proximity marketing application is expected to hold a larger share of the market during the forecast period. It is gaining traction among retailers as it enables them to send special offers to their customers when they come within a certain proximity of their outlet. Proximity marketing is the perfect way to target exact audiences, and it is expected to be widely accepted by marketers in the coming years.

Reimagining Public Sector IT Services Management to Run IT as a Transformative Service Business

This IDC Perspective discusses how digital transformation (DX) is driving fundamental change in most business models and ecosystems and governments' traditional view and use of IT services management. Digital competencies require a new level of professional business acumen within government IT organizations for "running IT as a service business." IT operational strategy transitions IT from an engineering-driven to a service-delivery organization with a new DX operating/financial model. Successful government CIOs will create a viable and competitive IT services business specifically for agency digital transformation. "Government IT organizations have deep experience with IT services management; some of the necessary ingredients for evolving it to a more strategic business approach exist," says Thom Rubel, adjunct research advisor with IDC's IT Executive Programs (IEPs). "Running IT as a service business for digital transformation requires elevating key business management practices previously lacking in the traditional IT business model to effectively support successful agency program and mission outcomes."
Worldwide Semiannual Software Tracker Methodology, 2H18

This IDC Market Perspective provides a detailed description of IDC's semiannual software tracker methodology. It defines what we include as commercial software, the types of software revenue we count, how we attribute and report commercial software revenue in the software tracker, and other important aspects of our software data collection and forecast methodology. "IDC's software tracker methodology is a reference document to help IDC's clients understand how to interpret the revenue estimates and market forecasts included in our software trackers," said Rasmus Andsbjerg, program director, Worldwide Software and Public Cloud Services Trackers. "Clients should familiarize themselves with the contents of this document to ensure they get the full benefit of the data contained in the software trackers."

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Violin Systems Drives Compelling Value for Enterprises with Its Extreme Performance Storage Platforms

This IDC Vendor Profile examines Violin Systems, a vendor of extreme performance enterprise storage solutions that drive very low storage latencies and differentiating IT infrastructure efficiencies. One of the early pioneers of the use of solid state storage for mixed enterprise workload consolidation, the company helped drive the rapid adoption of all-flash arrays (AFAs) in the datacenter and continues to service the needs of very performance-sensitive customers even as the industry begins its transition from SCSI to NVMe technology. This IDC Vendor Profile explores the evolving enterprise storage market, focusing on the extreme performance segment, and then discusses Violin Systems' portfolio of storage platforms, detailing business and technical value propositions, target markets and customers, go-to-market strategies, and anticipated evolution.

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- Learn More
Network operators have been using AI powered chatbots that allow customers to seek answers to a range of fairly straightforward queries for several years. More recently, digital assistants capable of recognising voice commands have been introduced by several operators, but it is the success of Amazon's Echo and other smart speakers that have drawn attention to the technology and the convenience it provides in controlling equipment, ordering goods or services and finding answers to questions.

The main reason for their popularity is convenience. With a simple voice command, users can enable a wide range of actions, such as playing music, setting thermostat temperatures or booking restaurants, without having to break away from what they are doing to deal with the task, or at a minimum, pick up a smartphone and navigate the apps and menus. Although smartphones have transformed users' ability to access information and carry out numerous tasks, questions and commands using speech are even easier, and fit better with most people's lifestyles. Voice-based AI is appealing because it offers people the ability to communicate in a way that is natural to humans, without the need to type or swipe. However, developing and implementing a system that can interpret free-form speech with a high degree of accuracy provides considerable technical challenges, given the range of variations in wording, phrasing and pronunciation that they must be able to handle.

MarketsandMarkets estimates the global in-store analytics market to grow from USD 1.1 billion in 2018 to USD 3.2 billion by 2023, at a Compound Annual Growth Rate (CAGR) of 23.5% during the forecast period. The in-store analytics market is growing rapidly with the increasing competition of brick-and-mortar retailers from eCommerce players, growing need for better customer service and enhanced shopping experience, and rising data volume around in-store operations. However, the reluctance of traditional retailers to adopt newer technologies would limit the growth of the market.

Merchandising analysis segment is expected to grow at the highest CAGR during the forecast period

Brick-and-mortar retailers have witnessed intense competition from various eCommerce websites, which has led to a decline in their growth. Merchandising analysis software provides analytical insights for building a localized strategy on the basis of strong and weaker-performing stores. It also explores incremental revenue opportunities with flexible ad-hoc analysis. The adoption of such applications helps improve the operational efficiency of the enterprise by meeting changing conditions for each selling season.
**Connected Consumer Survey 2018: Fixed Broadband Retention and Satisfaction in Europe and the USA**

Published by Analysys Mason  
Price  
USD 4999 PPTX, PDF and Excel by E-mail (Single User License)  

"Fixed broadband service speeds correlated with the greatest churn improvements in Europe and the USA, which is an added incentive for operators to invest in improving speeds."

This report focuses on aspects of Analysys Mason's 'Connected Consumer Survey ' that relate to the behaviour, preferences and plans of fixed broadband users in Europe and the USA. In particular, it focuses on the drivers of satisfaction and churn of broadband customers in Europe and the USA.

This report provides:
- new insights into consumers' experiences with their fixed broadband services in Europe and the USA derived from respondents surveyed in eight different countries
- a breakdown of the key factors affecting Net Promoter Score (NPS) and churn, with further discussion about which operators are particularly effective at achieving high scores
- an analysis of recent changes in operator NPS
- insight into operator channels and the link with customer satisfaction
- detailed information about which value-added services have a measurable effect on customer satisfaction and churn intention.

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**Sports Technology Market by Technology (Device, Smart Stadium, Esports, Sports Analytics), Sports (Soccer, Baseball, Basketball, Ice Hockey, American Football/ Rugby, Tennis, Cricket, Golf, Esports), and Geography - Global Forecast to 2024**

Published by MarketsandMarkets  
Price  
USD 5650 PDF by E-mail (Single User License)  
USD 10000 PDF by E-mail (Global License)  

The sports technology market was valued at USD 8.9 billion in 2018 and is projected to reach USD 31.1 billion by 2024; it is expected to grow at a CAGR of 20.63% during the forecast period. In recent years, professional sports bodies have adopted new technologies such as sports data analytics, smart stadium, wearable devices, digital signage, and esports. Smart stadium is one of the major trends worldwide due to the proliferation of sporting events. Technological innovations in the smart stadium market are driving the implementation of several projects worldwide. Market opportunities in Europe and APAC are high, with favorable economic and sporting environment. esports is mainly driven by the increasing popularity of video games. Wearable technology refers to electronic technologies or devices worn by users either on their body or clothing. Wearable devices facilitate human-computer interaction by making use of small body-worn computers. These devices include activity trackers, smart clothing, smart glasses, smartwatches, and virtual and augmented reality devices. Wearable devices allow hands-free operations, real-time data monitoring, network communication, and data analytics. All these technological benefits are driving the overall sports technology market.
"Operators are counting on the increased use of smartphones and mobile data to drive revenue growth. As such, partnerships with major app providers are beneficial to both parties."

This report provides an outlook on the mobile communication services market in Sub-Saharan Africa (SSA), including country views for Ghana, Kenya, Nigeria and South Africa. It provides forecasts for voice and messaging services provided by both mobile network operators and over-the-top (OTT) providers.

This report provides:

- forecasts for operator services including VoLTE, Wi-Fi calling and IP messaging, as well as traditional voice and messaging services
- quantification of the level of substitution from traditional services to OTT alternatives
- user and traffic forecasts for communication services, including OTT voice and messaging
- an outlook for multi-device usage across smartphones, tablets and PCs/laptops
- data for the region as a whole and for Ghana, Kenya, Nigeria and South Africa
- individual profiles for Ghana, Kenya, Nigeria and South Africa.
The geomarketing market is expected to grow from USD 7.3 billion in 2018 to USD 23.7 billion by 2023, at a Compound Annual Growth Rate (CAGR) of 26.4% The market is driven by factors such as, an increasing demand for location-based intelligence in realizing enhanced business outcome; location analytics and big data providing comprehensive and differentiated information about potential markets and customers; a wide acceptance of location-based applications among consumers, and growing investments in digital marketing compared to conventional marketing. However, the geomarketing market faces various obstacles, such as legal concerns and privacy threats. The businesses should properly check all legal and privacy-related concerns before using location data gathered by location intelligence tools.

The outdoor segment to hold the highest growth rate during the forecast period

Among location type, the outdoor segment is expected to grow at a higher CAGR during the forecast period, due to the increasing use of geofenced areas and virtual perimeters outside the store to attract customers. Businesses can send push notification to the target audience and provide notification about their offerings. It is an effective way as stores can attract multiple people to their businesses just by creating a virtual perimeter or a fence around the geographical area of interest or a target location or locality.

Building on NSR's long tradition of evaluating demand for aircraft connectivity, 'Aeronautical Satcom Markets, 7th Edition' offers the leading analysis and market research on in-flight connectivity (IFC).

With 13+ years of experience actively tracking and forecasting this market, NSR's unique analysis offers the most thorough and in-depth assessment for all types of in-flight connectivity, from FSS/MSS to GEO & non-GEO HTS connectivity through Air-to-Ground services. The study extensively covers all types of passenger and corporate travel aircraft communications: commercial airliners, business jets, general aviation and rotor wing markets. Delving into the key trends and drivers that support the market, the report maps future directions for players involved or interested in this high-growth market.

After more than a decade of monitoring, analyzing and evaluating capacity supply and demand as well as business models, NSR's thorough knowledge of aircraft connectivity markets is encapsulated in 'Aeronautical Satcom Markets, 7th Edition' report, the most recent and exhaustive study on demand for capacity, associated revenues, units in-service and ARPU on a global and regional scale for all types of connectivity for the next ten years.
**Western Europe Printer Distribution Channel Forecast, 2019-2023**

"Indirect channels have grown as the printing environment evolves into a more solutions- and services-led business model, and so will channel partners," said Julio Vial, research manager, IDC Imaging, Printing, and Document Solutions Group.

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**Direct Carrier Billing: Forecasts, Player Strategies & Emerging Opportunities 2019-2024**

Juniper's research into the carrier billing market provides an in-depth analysis into the key benefits to be derived from carrier billing deployments, challenges to achieving mass adoption in both existing and newer user cases, and strategies employed by leading carrier billing platforms.

The research includes industry benchmark forecasts, at both national and regional level, for purchases monetised via carrier billing, including digital content, ticketing, gambling and physical goods purchases.

This research suite includes:

- Deep Dive Strategy & Competition (PDF)
- Deep Dive Data & Forecasting (PDF & Excel)
- Executive Summary & Core Findings (PDF)
- 12 months' access to harvest online data platform
"Operators in both Australia and New Zealand are well trusted compared with tech rivals and advertisers, as well as some unexpected players such as health insurers."

This report focuses on aspects of Analysys Mason’s Connected Consumer Survey that relate to the behaviour, preferences and plans of smartphone users in Australia and New Zealand. In particular, it focuses on respondents’ usage of digital services.

This report:

• discusses the main ecommerce trends in Australia and New Zealand, including the types of devices that consumers use to purchase goods, the frequency of these payments and the main payment mechanisms for ecommerce, as well as physical payments
• provides insight into the organisations that consumers in these countries are most willing to trust
• analyses consumer interest and ownership of various connected devices.

Survey data coverage:

The survey was conducted in association with Survey Sampling International (SSI) between July and September 2018. The survey groups were chosen to be representative of the mobile-Internet-using population in Australia and New Zealand. We set quotas on age, gender and geographical spread to that effect. Each country had a minimum of 1000 respondents.
Connected Consumer Survey 2018: OTT Services in Sub-Saharan Africa

Published by Analysys Mason  
Price  
USD 4999 PPTX, PDF and Excel by E-mail (Single User License)  
www.giiresearch.com/ce/817507

This report focuses on aspects of Analysys Mason’s Connected Consumer Survey that relate to the behaviour, preferences and plans of smartphone users in Sub-Saharan Africa. In particular, it focuses on respondents’ usage of over-the-top (OTT) communications and paid-for online video services.

THIS REPORT:

• identifies which communications apps are used most in Sub-Saharan Africa
• highlights the pockets of growth left in the OTT communication market
• identifies which app features are used most on communication apps
• discusses the ways in which consumers balance their use of OTT communications with that of traditional services
• identifies which paid-for online video services are most popular in Sub-Saharan Africa.

SURVEY DATA COVERAGE:

The research was conducted between August and October 2018. The survey groups were chosen to be representative of the mobile-Internet-using population in Sub-Saharan Africa. We set quotas on age, gender and geographical spread to that effect. There were a minimum of 1000 respondents per country.

Smart Home Adjacencies: Building the Ecosystem

Published by Parks Associates  
Price  
USD 3500 PDF by E-mail (Corporate License - One Location)  
www.giiresearch.com/ce/783064

This report assesses how the smart home is expanding beyond lights, locks, and thermostats to include new products such as smart beds, mirrors, and appliances. It examines how these devices and appliances address additional pain points in the home and enhance overall connected home experiences. The report also estimates the U.S. market size for these devices and appliances.

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Global Digital TV Market

Global Digital TV Market valued approximately USD XX billion in 2017 is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2018-2025. The Digital TV Market is continuously growing in the global scenario at significant pace. The digital television is the new evolution in the TV industry that achieve superior picture and sound quality with minimum transmission bandwidth. The digital television is integrated with the analog and digital functions in a single design and offers high level of viewing experience to their users. Escalating adoption & utility of digital content among the individuals, growing consumer electronic and surging disposable income in both developed and developing countries are the substantial driving factors of the market during the forecast period. Moreover, changing lifestyle & consumer buying behavior is the factor which likely to create numerous opportunity in the market during the forecast period. However, privacy and lack of digital infrastructure in the emerging countries are the factors that limiting the market growth of Digital TV across the globe.

The regional analysis of Global Digital TV Market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America and Rest of the World. North America is the leading/significant region across the world in terms of market share owing to earlier adoption of technology and growing market for digital content. Europe has accounted second position to in the global Digital TV market across the globe.

Global Fingerprint Sensors Market Forecast 2019-2027

The automated method of verifying a match between two human fingerprints is technically termed as fingerprint recognition or fingerprint authentication. It is used to identify individuals & further verify their identification details. It is the oldest biometric technology used for identification. The global fingerprint sensors market is anticipated to grow at a rate of 15.69% CAGR to capture $14.51 billion by 2027, during the forecast period. The base year considered for the market study is 2018 & the estimated period is between 2019 & 2027.

MARKET INSIGHTS

With the mounting user reception for biometric-enabled smart devices, the uptake of fingerprint biometrics in smart devices, like that of smartphones, laptops, & tablets, is increasing, that is creating a positive impact on market revenue. The governments across many countries are also imposing regulations for warranting the custom of fingerprint biometrics among the end-users. An increase in the usage of mobile devices among various end-users, such as government, enterprise, healthcare, & BFSI, will increase the need for security in the upcoming years.

An observation has been made with respect to one of the end-users with the largest reach, namely the healthcare sector. As more healthcare networks begin storing patient records electronically, they have become increasingly concerned with security, and thus, many are turning towards biometrics. However, the fingerprint biometric devices are vulnerable to spoofing, physical attack, & damage to cables & wires.
The global fiber optics market size is expected to reach USD 9.1 billion by 2025, according to a new report by Grand View Research, Inc., expanding at a CAGR of 4.6% over the forecast period. Rising government funding to develop secure infrastructures is anticipated to drive the adoption.

Rising terrorism is appealing government authorities and defense services of different countries to take initiatives and stringent steps to curb down such occurrences. This has led to the evolution and adoption of technologies such as body cams, wearables, and other responders that keep the security personnel connected, irrespective of user location and user fiber optics for communications. The concept of Internet of Everything (IoE) is attracting security sector owing to increasing awareness regarding effectiveness and efficiency of the technology that aids in curbing national issues, such as riots, massacres, killings, and other criminal offenses. Need for high-speed internet, which is capable of efficiently transmitting the data, is anticipated to grow with increasing demand for IoE.

Growth prospects for fiber optics technology in telecommunications sector appears to be promising due to its growing adoption in communication and data transmission services. Fiber optics enable high-speed data transfer services in both small and long-range communications.

Following a rapid growth rate, the number of mobile wallet users is projected to rise to a ten-digit figure in 2019, according to the research findings cited in the yStats.com report. Asia-Pacific is the top global region by mobile wallet adoption, accounting for more than two in three mobile wallet users worldwide. The top services in this region include Alipay and WeChat Pay in China, Paytm and PhonePe in India, LINE Pay and Rakuten Pay in Japan, and others.

Security concerns hinder wider usage of mobile wallets in-store

Among the mobile wallets from equipment manufacturers, Apple Pay is in the lead on the global scale. The service is used for an increasing number of transactions both in-store and online. When it comes to in-store mobile payment usage, surveys cited in the yStats.com report reveal that consumers are still wary of security of mobile wallets. Nevertheless, proximity mobile payment user penetration is projected to maintain strong growth across all global regions through 2022.
The global meter data management system market is projected to reach USD 428 million by 2023 from an estimated USD 169 million in 2018, at a CAGR of 20.48%. This growth can be attributed to factors such as increasing government support and legislative requirements to install smart meters and smart grids and the need to increase energy efficiency. However, cyber security and vulnerability of data generated and lack of proper standards interoperability is hindering the growth of the meter data management system market.

"The software segment is expected to be the fastest growing market from 2018 to 2023."

The software segment, by component, is estimated to be the largest and the fastest growing segment during the forecast period. The software component of meter data management aids in data collection, synchronization, enables load mapping and stores non-billing data such as voltage and amperage to provide deeper visibility into the smart grid and smart metering infrastructure.

"The residential segment, by end-use type, is expected to be the largest market from 2018 to 2023."

The residential segment is expected to hold the largest market share and the fastest growing segment during the forecast period because of the accelerating rollouts of smart meters in the residential sector. The meter data management system used in smart meters enables processing hundreds of millions of data to generate utility bills. Also, the meter data management system enables utilities to provide utility bills based on different tariff structures and enable in accurate billing for residential consumers.
Global User Authentication Solution Market Size study, by Type, by Application and Regional Forecasts 2018-2025

Global User Authentication Solution Market valued approximately USD XX billion in 2017 is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2018-2025. The User Authentication Solution Market is continuously growing in the global scenario at significant pace. The user authentication solution refers to verification of a wide range of transfers of human to machine credentials which require the authenticity of the user for confirmation. In contrast the term machine authentication refers to automated process which does not require a human input. User authentication is required in all human to computer interaction other than automatically and guest logged in to a particular account. The authentication authorizes human to machine interaction on wireless and wired networks so that the system can provide access to internet and network connected resources and systems. Increasing use of BYOD trend and increasing threat of profile cyber-attacks are the substantial driving factors of the market during the forecast period. Moreover, technical advancements is one of the major factor that likely to creating lucrative opportunity in the near future. Furthermore, user authentication solutions improve user experience and increasing productivity along with reduced IT costs is another major factor that impelling the demand of User Authentication Solution among people. However, existing authentication solution is one of the major factor that limiting the market growth of User Authentication Solution during the forecast period.

Global Telematics Market

Global Telematics Market valued approximately USD 18 billion in 2017 is anticipated to grow with a healthy growth rate of more than 29% over the forecast period 2018-2025. The Telematics Market is continuously growing in the global scenario at significant pace. Telematics is a set of interdisciplinary technologies that are providing the automotive industry the tools, methodologies and systems to transform driving into an engaging and interactive connected vehicle user experience (UX). In a broader context, it functions as a collection of foundational enablement technologies that facilitate the seamless exchange of information, vital to creating connected vehicle industry services, applications and ecosystems. Rising demand for raw diagnostic data to improve vehicle performance, increase in demand for telematics solutions from healthcare sector and government mandates about safety and security are the substantial driving factors of the market during the forecast period. Moreover, potential for 5G technology providers and increasing development of semi-autonomous & autonomous cars is the major factor that likely to creating lucrative opportunity in the near future. Additionally, telematics offers several benefits such as reduce operating costs, increase job satisfaction, improve safety, optimize vehicles and so on. These benefits also aiding the growth of the market across the globe. However, lack of standardization, vulnerability to cyber-attacks and lack of infrastructure in emerging countries are the major factor that limiting the market growth of Telematics during the forecast period.
Global Telecom Power Systems Market

Global Telecom Power Systems Market valued approximately USD 2.93 billion in 2017 is anticipated to grow with a healthy growth rate of more than 10.40% over the forecast period 2018-2025. The Telecom Power Systems Market is continuously growing in the global scenario at significant pace. Telecom power systems assist telecommunication services in cases of grid power fluctuations and interruptions. The intersection of the telecom industry with information technology (IT) has resulted in the evolution of the telecom power systems market. The rising penetration of telecom towers in rural and off-grid areas and the recent disposition of small cell power systems used for LTE, are the substantial driving factors of the market during the forecast period. Additionally, the rising adoption of hybrid power systems is estimated to contribute to the growth of telecom power systems over the forecast period. Moreover, expansion of telecom infrastructure in rural areas is the major factor that likely to creating lucrative opportunity in the near future. However, environmental concerns pertaining to telecom towers’ power supply system’s due to high utilization of diesel for powering telecom infrastructure are the factor that limiting the market growth of Telecom Power Systems during the forecast period.

Global Live Streaming Services Market

Global Live Streaming Services Market valued approximately USD XX billion in 2017 is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2018-2025. The Live Streaming Services Market is continuously growing in the global scenario at significant pace. Live streaming is online streaming media simultaneously recorded and broadcast in real time. It is often referred to simply as streaming, however this abbreviated term is ambiguous due to the fact that “Streaming” may refer to any media delivered and played back simultaneously without requiring a complete downloaded file. Rapid growth in cloud-based video streaming services, growing preference for social media features such as digital security and secured homes and increasing adoption of smartphones & laptops among people are the substantial driving factors of the market during the forecast period. In addition, smart homes applications include surveillance camera, automotive products, testing, gas and fire detection, and other commercial vision applications. This factor also boosting the volume of Live Streaming systems care across the globe. Moreover, advancements in live streaming services is the major factor that likely to creating lucrative opportunity in the near future. However, availability of internet connectivity is one of the major factor that limiting the market growth of Live Streaming Services during the forecast period.
**Global Threat Intelligence Market**

Global Threat Intelligence Market valued approximately USD 7.58 billion in 2017 is anticipated to grow with a healthy growth rate of more than 18.42% over the forecast period 2018-2025. The Threat Intelligence Market is continuously growing in the global scenario at significant pace. Threat intelligence, also known as cyber threat intelligence, is organized, analyzed and refined information about potential or current attacks that threaten an organization. The primary purpose of threat intelligence is helping organizations understand the risks of the most common and severe external threats, such as zero-day threats, advanced persistent threats and exploits. Threat intelligence includes in-depth information about specific threats to help an organization protect itself from the types of attacks that could do them the most damage. Rising adoption by SMEs, growing adoption of crowd sourced threat intelligence stages and high implementation of threat intelligence solutions across various sectors are the substantial driving factors of the market during the forecast period. Furthermore, evolution of threat intelligence solutions and increasing demand for integrating security operations are expected to boost the growth of the threat intelligence market.

**Global Telecommunication Market**

Global Telecommunication Market valued approximately USD XX billion in 2017 is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2018-2025. The Telecommunication Market is continuously growing in the global scenario at significant pace. Telecommunication sector is responsible for designing infrastructure capable of transferring the data in word, voice and audio to consumers irrespective of distance. The infrastructure that allows this kind of communication includes mostly wireless and digital technology. Technological enhancements and growing investments in new telecommunication technologies such as wireless communication and satellite are the substantial driving factors of the market during the forecast period. Additionally, innovative services such as e-agriculture and e-education, affordability of services, and increasing demand for high speed internet are further aiding the growth of the market. Moreover, rising development of 4G & 3G cellular networks is the major factor that likely to creating lucrative opportunity in the near future. Additionally, telecommunication offers several benefits such as improve efficiency of employee, inspire collaboration, save time, bring flexibility at workplace and so on. These benefits also aiding the growth of the market across the globe. However, high cost associated with the value-added services and stringent government regulation are the factor that limiting the market growth of Telecommunication during the forecast period.
Global Telecom Consulting Market

Global Telecom Consulting Market valued approximately USD XX billion in 2017 is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2018-2025. The Telecom Consulting Market is continuously growing in the global scenario at significant pace. Telecom consulting is the process of evaluating the communication needs of a business or organization and implementing an efficient telecommunication solution. Technological enhancements, rising investment in enhancement of infrastructure, surge in development of next generation networks and rising acceptance of new technologies by telecom operators are the substantial driving factors of the market during the forecast period. Moreover, rising development of mobile networks, bandwidth and cloud services is the major factor that likely to creating lucrative opportunity in the near future. Additionally, telecom consulting offers several benefits such as reduced costs, save time, expand options for needs of business and so on. These benefits also aiding the growth of the market across the globe. However, reduced demand in developed economies is one of the major factor that limiting the market growth of Telecom Consulting during the forecast period.

Global Tape Storage Market

Global Tape Storage Market valued approximately USD XX billion in 2017 is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2018-2025. The Tape Storage Market is continuously growing in the global scenario at significant pace. Magnetic tape storage is a system that enables the storage of digital data on a magnetic tape. It is based on one of the oldest concepts of digital information storage. Though tape storage technology has been displaced as a primary back-up storage medium, it still remains well-suited for the purpose of archiving digital data owing to its long-term durability, low cost and high data storage capacity. Increasing number of end-user industries demanding efficient tape storage and rising concern towards threats of ransomware attacks on their networks are the substantial driving factors of the market during the forecast period. Moreover, growing industrialization and trade in developing economies is the major factor that likely to creating lucrative opportunity in the near future. Tape storage are more durable but ensure that they are kept in clean environment is another factor that aiding the growth of the market during the forecast period. However, high initial investment is one of the major factor that limiting the market growth of Tape Storage during the forecast period.
Global Mentoring Software Market

Published by Bizwit Research & Consulting LLP
Price
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USD 5550 Printable PDF by E-mail (Enterprise License)

Global M-Health Application Market valued approximately USD XX billion in 2017 is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2018-2025. The M-Health Application Market is continuously growing in the global scenario at significant pace. mHealth refers to mobile health, a term used for the practice of medicine and public health supported by mobile devices. The term is most commonly used in reference to using mobile communication devices, such as mobile phones, tablet computers and PDAs, and wearable devices such as smart watches, for health services, information, and data collection. mHealth applications include the use of mobile devices in collecting community and clinical health data, delivery of healthcare information to practitioners, researchers, and patients, real-time monitoring of patient vital signs, and direct provision of care (via mobile telemedicine). Technological enhancements in the field of healthcare and rising incidences of lifestyle diseases are the substantial driving factors of the market during the forecast period. Moreover, significant opportunities from developing economies is the factors that likely to create numerous opportunity in the near future. However, Several security and confidentiality threats along with resistance to change and market volatility are the factors that limiting the market growth of M-Health Application during the forecast period.

Global Internet of Things Networks Market

Published by Bizwit Research & Consulting LLP
Price
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USD 5550 Printable PDF by E-mail (Enterprise License)

Global Internet of Things (IoT) Networks Market valued approximately USD XX billion in 2017 is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2018-2025. The Internet of Things (IoT) Networks Market is continuously growing in the global scenario at significant pace. The Internet of Things is the network of devices such as vehicles, and home appliances that contain electronics, software, actuators, and connectivity which allows these things to connect, interact and exchange data. Surge in cloud-based solution adoption, decline in connected device prices, advent of data analytics & data processing and enhancements in wireless networking technologies are the substantial driving factors of the market during the forecast period. Moreover, IoT traction among SMEs is the factor which likely to create numerous opportunity in the market during the forecast period. Furthermore, IoT offers several benefits such as it is safe, efficient highly efficient, it helps in better decision making, it generates high revenue and many more. Therefore, these benefits also increasing demand Internet of Things networks among its end-users across the world. However, concern associated with data privacy and security is one of the major factors that limiting the market growth of Internet of Things (IoT) Networks across the globe.
Global 5G Infrastructure Market

Published by Bizwit Research & Consulting LLP

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USD 5550 Printable PDF by E-mail (Enterprise License)

Global 5G Infrastructure Market valued approximately USD XX billion in 2017 is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2018-2025. The 5G Infrastructure Market is continuously growing in the global scenario at significant pace. 5th generation wireless systems, abbreviated 5G, are improved wireless network technologies deploying in 2018 and later. The primary technologies include: Millimeter wave bands (26, 28, 38, and 60 GHz) offer performance as high as 20 gigabits per second; Massive MIMO (Multiple Input Multiple Output - 64-256 antennas) offers performance "up to ten times current 4G networks;" "Low-band 5G" and "Mid-band 5G" use frequencies from 600 MHz to 6 GHz, especially 3.5-4.2 GHz. Rising importance of software implementation in communication network, growth of machine-to-machine communication in industries and growing demand for high speed and large network coverage are the substantial driving factors of the market during the forecast period. Moreover, growing demand from different business verticals and growth of IoT technology would open new opportunities for 5G infrastructure are the factor which likely to create numerous opportunity in the market during the forecast period. However, delay in standardization of spectrum allocation is one of the major factors that limiting the market growth of 5G Infrastructure across the globe.

Connected Consumer Survey 2018: Mobile Services and Devices in the Middle East and North Africa

Published by Analysys Mason

Price
USD 4999 PPTX, PDF and Excel by E-mail (Single User License)

"The level of 5G awareness is higher than expected among smartphone users in the Middle East and North Africa, which bodes well for operators that plan to launch services in 2019."

This report focuses on aspects of Analysys Mason’s Connected Consumer Survey that relate to the behaviour, preferences and plans of smartphone users in the Middle East and North Africa (MENA). In particular, it focuses on the handset channel dynamics in consumer mobile services. The survey was conducted in association with On Device Research.

THIS REPORT PROVIDES:

• insight into operators’ performance as smartphone sales channels, and how their performance relates to consumers' choice of tariffs
• an analysis of mobile data usage patterns among respondents and how they are affected by data pricing
• an assessment of the impact of 4G on mobile users' spend and engagement with their smartphones
• insight into subscribers' awareness of 5G and the potential of 5G use cases
• an analysis of data utilisation levels for subscribers and the effects of differing approaches to overage
**Global M-Health Application Market**

Published by Bizwit Research & Consulting LLP

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www.giiresearch.com/ce/821233

Global M-Health Application Market valued approximately USD XX billion in 2017 is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2018-2025. The M-Health Application Market is continuously growing in the global scenario at significant pace. mHealth refers to mobile health, a term used for the practice of medicine and public health supported by mobile devices. The term is most commonly used in reference to using mobile communication devices, such as mobile phones, tablet computers and PDAs, and wearable devices such as smart watches, for health services, information, and data collection. mHealth applications include the use of mobile devices in collecting community and clinical health data, delivery of healthcare information to practitioners, researchers, and patients, real-time monitoring of patient vital signs, and direct provision of care (via mobile telemedicine). Technological enhancements in the field of healthcare and rising incidences of lifestyle diseases are the substantial driving factors of the market during the forecast period. Moreover, significant opportunities from developing economies is the factors that likely to create numerous opportunity in the near future. However, Several security and confidentiality threats along with resistance to change and market volatility are the factors that limiting the market growth of M-Health Application during the forecast period.

**Global Taxi & Limousine Software Market**

Published by Bizwit Research & Consulting LLP

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www.giiresearch.com/ce/821240

Global Taxi & limousine Software Market valued approximately USD XX billion in 2017 is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2018-2025. The Taxi & limousine Software Market is continuously growing in the global scenario at significant pace. The Taxi & Limousine Software has the ability to operate a complete transportation system which allows the users or the individuals to borrow bikes, small electric cars and shuttles by paving a specific subscription fees. Rising shared transportation system and rising urbanization in developed & developing economies are the substantial driving factors of the market during the forecast period. Further, the shared transportation includes the passenger transportation services which consists of drivers, taxis, bikes and buses under a single specific platform. Moreover, rising ground passenger transportation sector is the major factor that likely to creating lucrative opportunity in the near future. Additionally, taxi & limousine software offers several benefits such as more efficient & safer, helps in saving money to the individual, and so on. These benefits also aiding the growth in taxi & limousine software market across the globe. However, high initial investment requirement and presence data security concerns are the factor that limiting the market growth of Taxi & limousine Software during the forecast period. The regional analysis of Global Taxi & limousine Software Market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America and Rest of the World.
Global FinFET Technology Market: Focus on 7nm, 10nm, 14nm, 16nm, and 22nm FinFET Technology, and Applications in Smart Phones, Wearable, and High-End Networks - Analysis and Forecast, 2018-2023

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USD 5000 Unprintable PDF by E-mail (Single User License) ~ USD 8000 Printable PDF and Excel by E-mail (Enterprise-wide License)

FinFET technology continues to gain immense popularity with increasing rate of revenue at a global level. Rising mobile and consumer electronics market and enhanced performance with lower current leakage has led to the widespread emergence of the global FinFET technology market. The global FinFET technology market is estimated to witness growth at a CAGR of 28.6% over the period of 2016 to 2022. This growth rate is expected due to increasing Integrated Circuit (IC) industry which is providing ample growth opportunities to FinFET market.

North America led the global FinFET technology market in 2015. Asia Pacific FinFET technology market is expected to grow with the highest rate during the forecast period and overtake the position of North America in global FinFET technology market. China and India are going to be the key market regions for the growth of FinFET Technology in Asia Pacific region because of the growing demand of high end smartphones in the market. Large number of small and big companies are investing in smartphone market and this invariably leads to an increase in the growth of FinFET Technology market in this region.

Virtual Reality: The Evolving Ecosystem

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Virtual reality is capturing the imaginations of consumers and the video industry regarding new use cases and levels of immersion. However, for VR to succeed, a full ecosystem of devices, services, and content must exist as well as a viable economy that allows profitability. This report examines the evolving ecosystem for VR, including content creation, distribution, and monetization and the major players and new entrants that are making it all happen. The report assesses areas of opportunity and the growth of this new area of entertainment.

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7.0. Implications and Recommendations
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GPS tracker uses the global positioning system (GPS) to detect, monitor, and record the location of a person or device such as smartphones, laptops, cars, and others. GPS uses (Global Navigation Satellite System (GNSS) network to offer real-time as well as historical worldwide data tracking. The tracking devices record the location at regular intervals and broadcast the data via a cellular network. The GPS tracking system is used majorly for security purpose in patrols, transport, fleet management, and asset tracking among others.

The global GPS tracker market is expected to reach approximately USD 2.72 billion by 2023, registering a CAGR of 14.42% during the forecast period.

The market has been divided into various segments based on type, network, vertical, and region.

By type, the market has been segmented into covert GPS trackers, standalone tracker, and advance trackers. The advance trackers segment is expected to dominate the global GPS tracker market in the type segment, generating the highest revenue. Advance trackers are multifunctional tracking devices. Due to advanced features such as reporting, configurable alerts, 3D mapping, and landmark creation, advance trackers are widely adopted which is driving the growth of this segment in the market.

Application Security is the utilization of software, hardware, and measures that are adopted by enterprises to identify, fix and protect applications against external threats and vulnerabilities such as denial of service attacks, data breaches, data thefts and other cyber-attacks. Various techniques are used to address security vulnerabilities for different stages of an application lifecycle which includes design, development, deployment, upgrade, and maintenance. There are various types of applications security solutions like firewalls, anti-virus programs, encryption programs, spyware detection and removal programs, and biometric authentication systems. Many organizations implement operating system security, network security and end-point or mobile security to inspect, inform, and mitigate cyber threats.

Application security is a process to reduce risks associated with developing, running business-critical software and providing effective and proactive risk management solutions.

The global application security market is growing with the rapid pace is mainly due to increasing monetary transaction through mobile application which consists of confidential information such as account details, banking and login details of user, which is propelling the application security market growth to the large extent.
An expense management software is a financial management software tool that assists enterprises in automating and streamlining the process of expense report management and approval. It significantly reduces the time and efforts required for submitting, approving, and processing employee expense reports, as well as reimbursing the expenses.

The expense management software market is expected to witness significant growth. The market growth is attributed due to the centralization of enterprise expense-related data. The global economy has witnessed constant alterations due to technological advancements, that enable businesses and employees to function efficiently. Centralizing all-expense-related data along with utilizing expense management software enables employees of an organization to review, monitor, and submit expense reports on the go. It also eliminates data entry errors and examines the expense report quickly and accurately while providing visible insights into the expense management software system.

Centralization of enterprise expense-related data helps overcome challenges related to employee-initiated expenses with the assistance of cloud-based technology. This allows employees of an organization to submit their expenses on web-based expense systems even with the help of mobile applications. According to a study conducted by GovLoop in association with SAP Concur, 16% of employees in the public sector have access to cloud web-based systems and applications to monitor and submit their expenses.

The demand for gaming has expanded with the widespread availability of low-cost internet access, penetration of mobile devices along with the growing popularity of streaming games. In addition, the demand for games content to power immersive experiences such as Augmented Reality and Virtual Reality is growing exponentially. The rapid advancement of technology has made video games available to the masses, and this industry has become one of the fastest growing segments in the global media and entertainment market. We are increasingly seeing more of the global video games production taking place in a globally distributed mode. Production work is becoming global with tax incentives, regional low labor costs and lower computing costs, which put pressure on companies to reduce costs and set up facilities in tax advantaged or low-cost regions. This is a model which is increasingly being tapped by content producers.
European Animation & VFX Industry: Strategies, Trends & Opportunities, 2019

The demand for animation and VFX has expanded with the increase in targeted broadcasting hours by cable and satellite TV, availability of low cost internet access, penetration of mobile devices along with the growing popularity of streaming video. In addition, the demand for Animation and VFX content to power immersive experiences such as Augmented Reality and Virtual Reality is growing exponentially. The rapid advancement of technology has made animation & VFX available to the masses, and this industry has become one of the fastest growing segments in the global media and entertainment market. We are increasingly seeing more of the global animation and VFX production taking place in a globally distributed mode. Production work is becoming global with tax incentives, regional low labor costs and lower computing costs, which put pressure on companies to reduce costs and set up facilities in tax advantaged or low-cost regions. This is a model which is increasingly being tapped by content producers.

Asian Animation & VFX Industry Strategies, Trends & Opportunities, 2019

The demand for animation and VFX in Asia has expanded with the increase in targeted broadcasting hours by cable and satellite TV, availability of low cost internet access, penetration of mobile devices along with the growing popularity of streaming video. In addition, the demand for Animation and VFX content to power immersive experiences such as Augmented Reality and Virtual Reality is growing exponentially. The rapid advancement of technology has made animation & VFX available to the masses, and this industry has become one of the fastest growing segments in the global media and entertainment market. We are increasingly seeing more of the global animation and VFX production taking place in a globally distributed mode. An emerging trend in the Asian animation industry is the increasing focus towards production of local animation content for television as well as production of animated movies. A number of Asian animation studios are giving importance to owning and protecting animation content by investing in intellectual property protection mechanisms.

MARKET SIZE

The total value of Asian animation industry was US$ 52 billion in 2018. Most of the segments in the Asian animation industry are growing at the rate of 2-3 % YoY. In Asia the spend on special effects as a percent of production cost is about 5-10%. In Asia, there is a sharp increase in streaming video consumption. The traditional form of content viewership is giving way to a sharp increase in streaming video consumption. The production cost per animation movie in Asia ranges anywhere between US$ 3 Million to US$ 60 Million.
Global Biometric Authentication and Identification Market: Focus on Modality (Face, Eye, Fingerprint, Palm, and Vein), Motility, Application, and Technology Trends Analysis and Forecast: 2018-2023

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The report presents a detailed market analysis including an in-depth study of the market drivers, opportunities, challenges, and growth trends mapped across segments. The market is segmented based on modality, motility, application, and regional presence. The increasing risk of data breaches along with privacy concerns among consumers, is one of the crucial issues to be looked upon in the current scenario. The effort to deliver such solutions, along with the growing demand of handheld devices, is acting as one of the major drivers for the global biometric authentication and identification market at present.

The increased usage of deep learning techniques for big data in biometrics, has been identified as the key opportunity that could escalate the market growth in the coming years. However, latent fingerprint and spoofing coupled with concerns of cyber threats, continue to remain the pain points of the market.

The modality chapter is divided into eight broader categories including fingerprint, vein pattern, facial, eye, palmprint, voice, handwritten, and others. The information supplied in the report includes key market players, market size, key restraints, and growth opportunities.

Global Smartwatch Market - Analysis By Product Type, By OS, By Application, By Channel, By Region, By Country: World Market Review and Forecast to 2024 - By Region, By Country

Published by Azoth Analytics Pub. Date 2019/03/31
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A comprehensive research report created through extensive primary research (inputs from industry experts, companies, stakeholders) and secondary research, the report aims to present the analysis of Global Smartwatch Market. The report analyzes the Smartwatch Market by Product Type of Smartwatch (Extension, Standalone and Classic/Hybrid), By Operating System (WatchOS, WearOS, Tizen, RTOS, and Others), and By Distribution Channel (Offline and Online). The Smartwatch market has been analyzed By Region (North America, Europe, Asia Pacific and Rest of the World) and By Country (US, Canada, UK, Germany, France, Italy, China, Japan, India, and Australia) for the historical period of 2014-2018 and the forecast period of 2019-2024.

According to Azoth Analytics research report "Global Smartwatch Market - Analysis By Product Type (Extension, Standalone, Hybrid), By OS (WatchOS, WearOS, Tizen, RTOS), By Application (Fitness, Lifestyle), By Channel (Online, Offline), By Region, By Country (2019 Edition): World Market Review and Forecast to 2024 - By Region (North America, Europe, Asia Pacific, Rest of the World), By Country (US, Canada, UK, Germany, France, Italy, China, Japan, India, Australia)", the global Smartwatch market is projected to display a robust growth represented by a CAGR of 18.44% during 2019 - 2024.
Augmented reality (AR) has the great potential to revolutionize the way in which consumers interact with technology, each other, and the world around them. Some believe that AR devices could even replace smartphones and personal computers in the future. This report presents an overview of the current state of AR technologies and devices, with an emphasis on new innovations in the AR space that can help drive adoption. It includes a deep dive into the activities of major AR players, including Microsoft, Google, and Apple, as well as product lifecycle estimates.

ANALYST INSIGHT:

"In the consumer space, there is low familiarity with the term augmented reality, even though a higher percentage of consumers use augmented reality in some form than do virtual reality. None of the top consumer AR applications are AR-first but rather additive experiences to another core benefit or use case,” said Kristen Hanich, Senior Analyst, Parks Associates

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The global augmented reality (AR) and virtual reality (VR) in the healthcare market is a multi-billion market which consists of a multitude of companies catering to different needs within hospitals, clinics, and education centers. The broad segments the market has been defined under are hardware, software, and services, among others.

Hardware and software are the two leading segments contributing to 64.95% and 23.91% of the overall market, respectively. The hardware systems market is primarily driven by increasing surgeon’s demand for enhanced perception of depth during surgeries. The market segment comprises a broad range of products such as video systems, head-mounted displays, motion sensors, 360° cameras, and surgical displays, among others.

The purpose of this study is to gain a holistic view of the global AR and VR healthcare market in terms of various influencing factors such as regional adoption trends, technological advancements, and pricing patterns. The scope of this report constitutes an in-depth study of the global AR and VR the healthcare market, including a thorough analysis of the products across different regions. The report presents the reader with an opportunity to unlock comprehensive insights with respect to the market and helps in forming well-informed strategic decisions. The research uncovers some of the substantial parameters that must be taken into consideration before entering the market.
The rapid advancement of technology has made games available to the masses, and this industry has become one of the fastest growing segments in the global media and entertainment market. We are increasingly seeing more of the games production taking place in a globally distributed mode. Production work is becoming global with tax incentives, regional low labor costs and lower computing costs, which put pressure on companies to reduce costs and set up facilities in tax advantaged or low-cost regions. This is a model which is increasingly being tapped by content producers.

MARKET SIZE

The size of European video gaming industry was US$ 19 billion in 2018 and is projected to reach 21.5 billion by 2020.

STRATEGIES, OPPORTUNITIES, GROWTH FACTORS

Cloud Gaming services which are growing at an exponential pace would need the right pricing model to both drive adoption and generate sufficient returns for platforms and publishers. The availability of low cost micro-payment systems is allowing users to pay for access or download small quantities of digital content and is the key for online games market to grow. Artificial Intelligence and Machine Learning based techniques are being used for in-game analytics, customer acquisition, retention, cross sell, churn, classify player behavior etc.

Modern Broadband: Competition and Retention at Gigabit Speeds

An increasing number of providers across global markets offer, or are testing, gigabit-speed broadband services, pushing new fixed-line data offerings to data-hungry consumers. This report examines current competition in gigabit-speed services as well as operator strategies to retain subscribers in the face of such high-speed competition. The report analyzes broadband churn and cord cutting, as well as reasons and likelihood for each, and provides five-year forecasts for fixed-line broadband subscribers.

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Race to Control the Smart Home Ecosystem: Attracting Partners

Partnerships are vital to creating an intelligent and coordinated ecosystem. Works with Nest, Apple HomeKit, and SmartThings are all building an ecosystem of products and services that seamlessly work together and provide an exceptional user experience. This report reviews the strategies of the major smart home platforms in the consumer electronics and security industries and their approach to attracting manufacturers to their ecosystem.

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Consumption Habits in Short-Form and Social Video Content

Average video viewing on computers and mobile devices has increased since 2010, but lower viewing volume compared to television may indicate shorter instances of video viewing. With platforms like YouTube, Facebook, and Snapchat emerging and capturing audiences in the mobile space, short-form video content presents a unique audience and monetization opportunity for content providers. This research identifies consumption habits for mobile, online, and social experiences and identifies key audience segments and services related to short-form video.

ANALYST INSIGHT:

"Short-form and social video content are important elements of consumers' entertainment habits, especially among younger viewers. Short-form video (content of 10 minutes or less) has become a mainstay of news and information as many sources are turning to this format to provide users with short, digestible snippets that can be viewed anytime." - Billy Nayden, Research Analyst, Parks Associates.
Asian Video Games Industry: Strategies, Trends & Opportunities, 2019

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The demand for gaming in Asia has expanded with the increased availability of low-cost internet access, penetration of mobile devices along with the growing popularity of streaming video. The rapid advancement of technology has made video games available to the masses, and this industry has become one of the fastest growing segments in the global media and entertainment market. We are increasingly seeing more of the global games production taking place in a globally distributed mode. An emerging trend in the Asian video games industry is the increasing focus towards production of local animation content for television as well as production of animated movies. A number of Asian games studios are giving importance to owning and protecting animation content by investing in intellectual property protection mechanisms.

STRATEGIES, TRENDS, OPPORTUNITIES, GROWTH FACTORS

Global consumers are displaying a growing appetite for engaging, high-definition visual experiences. Cloud Gaming services which are growing at an exponential pace would need the right pricing model to both drive adoption and generate sufficient returns for platforms and publishers. The availability of low cost micro-payment systems is allowing users to pay for access or download small quantities of digital content and is the key for online games market to grow. Artificial Intelligence and Machine Learning based techniques are being used for in-game analytics, customer acquisition, retention, cross sell, churn, classify player behavior etc.

Building an Engaging IT Culture to Retain High-Value Talent

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www.giiresearch.com/ce/816298

This IDC Perspective provides a blueprint for developing a plan for cultural transformation; we discuss specific tactics that have worked and why they have worked. The discussion includes guidance to CIOs on how to make these practices their own and see measurable difference in employee retention and diversity metrics; it should be clear from the discussion that this is not an area where CIOs should just assume that human resource (HR) will keep the culture whole and productive. “CIOs must be intentional about building a culture that keeps high-value talent and helps them thrive, evolving all IT team members into high-performing engaged employees who seek out opportunities to grow personally and to unite the team in the accomplishment of the enterprise mission,” according to Cora Carmody, adjunct research advisor with IDC’s IT Executive Programs (IEP).
Telecom and Cable Service Provider M&A and IPO Analysis, 2018

This IDC Perspective provides an overview and analysis of telecom and cable service provider network M&A deals, joint ventures (JVs), and IPOs disclosed in 2018. The document is limited to M&A deals in which the acquirer would take operational control of the target company and 50:50 JV deals. According to Ragupathy Vellappa, associate research manager, IDC's Worldwide Telecommunications Research, "The year 2018 witnessed a tremendous growth for M&As in telecom and cable service provider networks in terms of deal value. The top 3 deals disclosed in 2018 were more than $10 billion in size accounting for 76% ($136.2 billion) of total deal value, thanks to high-profile deals such as T-Mobile US-Sprint and Comcast-Sky. In 2019, increasing scale and achieving synergy benefits will remain the top priority for communications service providers to pursue M&As. There will be quite a number of outbound deals to be witnessed in 2019, primarily driven by the United States-based acquirers. At the same time, continuation of cross-sector convergence, advances in technology, and digital transformation will continue to drive communications service providers to add vertically integrated assets such as digital media, OTT video services, IoT, artificial intelligence, cybersecurity, and cloud computing technologies. At the same time, PE-backed investments will continue to flow in telecom space, primarily driven by availability of cheap capital on the back of low interest rates and carrier group's exit from noncore markets."

Distributed Integrity Provides the Utmost Trust to Modern Enterprises: A Review of 7 Zero Trust Vendors

This IDC Market Perspective discusses the concept and principles guiding distributed integrity architecture, a term coined by IDC in 2016 that has a lot of similarities to Zero Trust Architecture. It surveys the current market landscape flourishing with the so-called "zero trust" vendors and studies seven of them in detail. The new enterprise security architecture, distributed integrity or zero trust, shifts access controls from the perimeter to individual devices and users. It requires dynamic verification continuously treating access from within the network just the same as access from outside the network, in other words, no one is trusted. It also implies more stringent authentication methods and uses a "least privilege" account philosophy.

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Managed Service Provider Services: Worldwide Forecast 2018-2023

"We expect MSPs to be one of the fastest-growing providers of ICT services - MSP revenue will increase at an average rate of 12% from 2018 to 2023."

Managed service providers (MSPs) have a large and rapidly expanding opportunity. We expect MSPs to account for 11% of the USD2.8 trillion ICT market worldwide by 2023. This report forecasts nine different ICT service categories for MSPs, with more-granular detail on the three most important service categories for MSPs: IT and managed services, infrastructure and business applications.

This report provides:

- forecasts for nine different high-level service categories from 2018-2023
- cloud and on-premises growth comparisons
- forecasts for spending across business sizes
- more-granular forecasts for the service categories that are most important to MSPs: IT and managed services, infrastructure and business applications.

Global Point of Sales (POS) Terminals Market (2018 - 2024)

The Global Point of Sales (POS) Terminals Market size is expected to reach $92.2 billion by 2024, rising at a market growth of 7.4% CAGR during the forecast period.

A point-of-sale (POS) terminal is a hardware system for handling card payments at retail locations. A software is embedded inside the hardware to read magnetic credit and debit card strips. The next generation of POS systems are portable devices (i.e., terminals that are not anchored to counters), which are either proprietary or third-party, and reflect contactless capabilities for the emerging forms of mobile payments. Essentially, POS terminals are standard-issue computers who run software that is designed to enable the necessary operations of a store at the point of sale. The point of sale (also called the point of purchase) is any location wherever transactions occur in a store. In majority of retail locations, the point of sale can be found at designated counters or the checkout area.

The increased Internet penetration and payment solutions, such as online payments, stationary telephones and mobile payments have given the POS terminal market a boost. With electronic and email receipts, POS terminals are gradually shifting to paperless, digital format. Increased acceptance of debit and credit cards has also led to high demand for these appliances. The industry is migrating towards EMV chip card payments through progress in payment technologies, which are anticipated to further enhance the market momentum of point of sale (POS) terminals over the coming years.
**Communication Services in the Middle East and North Africa: Trends and Forecasts 2018-2023**

Published by Analysys Mason  
Pub. Date 2019/03/29  
Price  
USD 4999 PPTX, PDF and Excel by E-mail (Single User License)

“"There are signs of a weakening in the confrontational position between operators and OTT voice services and an acceptance of some of the benefits of communication apps.""

This report provides an outlook on the mobile communication services market in the Middle East and North Africa (MENA), including country views for Morocco, Oman, Saudi Arabia and the UAE. It provides forecasts for voice and messaging services provided by both mobile network operators and over-the-top (OTT) providers.

This report provides:
- forecasts for operator services including VoLTE, Wi-Fi calling and IP messaging, as well as traditional voice and messaging services
- quantification of the level of substitution from traditional services to OTT alternatives
- user and traffic forecasts for communication services, including OTT voice and messaging
- an outlook for multi-device usage across smartphones, tablets and PCs/laptops
- detailed forecasts for Morocco, Oman, Saudi Arabia and the UAE.

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**5G Video: Game-Changer, Market-Booster of the Decade**

Published by IDATE DigiWorld  
Pub. Date 2019/03/29  
Price  
USD 3300 Web Access - PDF (Single Department License/1-5 Users)  
USD 4950 Web Access - PDF (Group License/All Users)

This report examines the prospects of video entertainment contents and services within the framework of upcoming 5G launches.

An introductory section describes the 5G roadmap in the world. Some 5G video uses cases are then illustrated, by projects and on field tests held, within each of the four main families of enhanced video services covered (ultra-high fidelity media, public venue experiences, UGC, immersive media) and anticipated operational gains from 5G (in video production and distribution).

We also present an analysis of the new media ecosystem brought by 5G. Transformation in the chain and impacts are addressed by segment (content production, services, distribution, devices, consumption and monetisation).

The impacts on players in the chain are then highlighted and illustrated though company profiles (media, Internet and telcos).

Finally, the report details 5G video revenues market forecasts up to 2030, broken down on a worldwide basis by source of revenues (FWA pay-TV offers, 5G pay- and advertising-based video services) and by key geographic zones (Asia, North America and Europe).

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Pub. Date 2019/03/29

Price
USD 4999 PPTX, PDF and Excel by E-mail (Single User License)

"FWA offers the only significant revenue-positive opportunity for mobile-centric operators in the first wave of 5G."

This report assesses the size of the 5G fixed-wireless access (FWA) market opportunity in 2023: in other words, the limits of what can be addressed, rather than pure forecasts of what proportion of the broadband market that FWA will actually take. It describes the various criteria that create or limit the opportunity for 5G FWA, and assesses their importance at an individual country level. It gives an indication of the addressable market for 5G FWA, which will help operators and vendors to focus their efforts.

This report answers the following questions.

・ How many premises are addressable for 5G FWA?
・ What are the commercial models for 5G FWA technologies - for example, should it be complementary or substitutive - and which model will yield the best result?
・ What will be the size of the addressable market for mid-band or millimetre wave (mmWave) variants?

IDC PlanScape: Digital Transformation for New Product Development and Introduction

Published by IDC

Pub. Date 2019/03/29

Price
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This IDC study discusses digital transformation for new product development and introduction."Where 'classic NPDI' is focused on speed, digitally transformed NPDI evolves to incorporate automation, enables cross-domain collaboration, and provides cognitive, iterative intelligence while maintaining a focus on moving quickly and achieving time to X goals and a closed loop that connects the organization and value chain," said Jeff Hojlo, program director, Product Innovation Strategies.

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"Users are well-accustomed to OTT voice services, given the high levels of app penetration, though data allowances and poor quality of service on cellular networks remain significant barriers to further adoption."

This report provides an outlook on the mobile communication services market in emerging Asia-Pacific (EMAP), including country views for China, Indonesia, Malaysia and the Philippines. It provides forecasts for voice and messaging services provided by both mobile network operators and over-the-top (OTT) providers.

This report provides:

- forecasts for operator services including VoLTE, Wi-Fi calling and IP messaging, as well as traditional voice and messaging services
- quantification of the level of substitution of traditional services by OTT alternatives
- user and traffic forecasts for communication services, including OTT voice and messaging
- an outlook for multi-device usage across smartphones, tablets and PCs/laptops
- data provided for the region as a whole and for Bangladesh, China, India, Indonesia, Malaysia, Myanmar, Pakistan, the Philippines, Thailand and Vietnam
- individual profiles for China, Indonesia, Malaysia and the Philippines.
The overall 5G enterprise market is estimated to be valued at USD 2.3 billion in 2020 and is further projected to reach USD 31.7 billion by 2026, at a CAGR of 54.4%. The growth of this market is attributed to 5G enterprise connectivity platform is expected to enable several industries with a single network, unified 5G enterprise network is likely to boost cross-industry connection and industrial application development, and rising importance of software implementation is expected in the communication network. Key restraining factors of the global 5G enterprise market are the growth of Wi-Fi communication technology as de-facto connectivity technology among enterprises, and the lack of authority in owning and managing corporate network.

"Radio node to hold largest size of 5G enterprise market by 2026"

Radio node is expected to hold the largest size of the 5G enterprise market by 2026. Radio nodes are emerging as an efficient and cost-effective alternative for network expansion for mobile network operators with low operating and capital costs. These radio nodes are available in a compact form and are easy to install. The nodes consume less power that can be supplied using Power-over-Ethernet (POE) technology and can be deployed both indoors and outdoors.

The Global API Management Market size is expected to reach $6.2 billion by 2024, rising at a market growth of 28.4% CAGR during the forecast period. An effective API management solution controls the usage of APIs to open the data of enterprises or a system in a way that it can also be utilized by other parts of the organization or by third-party organizations in expedient and innovative ways. API Management provides a convenient, resourceful and effective experience in the development of societies who use these APIs. Furthermore, API management provides a life-cycle framework and governance for the APIs.

Progressions in the Internet of Things & Big Data, benefits of cost and feature, and the growing requirement for managing API traffic are projected to collectively shape the API managements market over the analysis period. Security concerns associated with API might impede the market growth of API management for a fixed period. However, system integrators and SOA and PaaS integrations are expected to pave attractive opportunities for API management market in the coming years.
Recruitment Process Outsourcing Market to 2027 - Global Analysis and Forecasts by Type and Industry

The global recruitment process outsourcing market is accounted to US$ 4.16 Bn in 2018 and is expected to grow at a CAGR of 29.1% during the forecast period 2019 - 2027, to account to US$ 40.57 Bn by 2027. Recruitment process outsourcing module is adopted in a wide range of industries such as manufacturing, retail, hospitality, and construction. Availability of enormous size of job seekers and simplification of human resource operations are positively impacting the market in developed and developing regions. North American countries witness significant growth in a number of wide variety of industries, which demand huge employment have been beneficial for recruitment process outsourcing service providers. Further, growth in the manufacturing and retail industry across the globe have been boosting the recruitment process outsourcing market over the years.

North America led the recruitment process outsourcing market globally followed by Europe and Asia Pacific region. Owing to the fact, that the industries in the continent are creating substantial job opportunities; several recruitment agencies, recruitment process outsourcing companies, and managed service providers are establishing their businesses in the countries. This is facilitating the recruitment companies to increase their annual revenues. In recent years the majority of human resource departments in the region have outsourced their hiring procedures in order to simplify other processes in the organization. This practice has showcased significant growth in the number of recruitment process outsourcing (RPO) companies which are consistently introducing new products and services, which has helped the recruitment process outsourcing market to propel over the years in North America.

Global Application virtualization Market (2018 - 2024)

The Global Application virtualization Market size is expected to reach $5.3 billion by 2024, rising at a market growth of 14.4% CAGR during the forecast period. The wide application of new technologies has enhanced demand for cloud-based services as a major platform, including platform as a service (PaaS), software as a service and infrastructure as a service (IaaS). The application and adoption of changing technology has increased. In addition, Cloud-based Services will now be equipped with a common CIFS that provides access to printers, files, serial ports and others and acts as a communication channel between network nodes. Today, technological transport is the main driving force of the virtualization application market. The lack of awareness of applications in emerging markets and security in developing countries, however, constitutes major challenges in the application virtualization market.

Based on Component, the market is segmented into Solution and Services. Solution segment is further bifurcated into Agent Based Solution and Agent Less Solution. Application virtualization is majorly used with the purpose of accessing the same version of an application at the similar time over multiple machines. Application virtualization has various other advantages, such as easy migrations of operating systems, security enhancement, and reduced administration costs.
IDC's Worldwide Services Taxonomy, 2019

Published by IDC
Price
USD 4500 PDF by E-mail (Single User License)

www.giiresearch.com/ce/816280

This IDC study provides a detailed description of IDC's services market taxonomy. In 2019, the taxonomy includes individual foundation markets grouped within three primary market segments: project-oriented services, managed services, and support services. At the worldwide level, spending is also segmented across three geographic macroregions: the Americas; Europe, the Middle East, and Africa (EMEA); and Asia/Pacific. These macroregions are further segmented at the regional and local levels. IDC's services market taxonomy is the basis for IDC services research studies, trackers, and forecasters. "IDC's services taxonomy presents a comprehensive and standardized view of the worldwide services marketplace," said Chad Huston, senior analyst, Global Services Markets and Trends. "It continues to be the premier source for defining and categorizing external IT and business services."

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Security Information and Event Management Market to 2027 - Global Analysis and Forecasts by Solution; Service; and End User

Published by The Insight Partners
Price
USD 4550 PDF by E-mail (Single User License) ~
USD 8550 PDF by E-mail (Enterprise License)

www.giiresearch.com/ce/819830

The global Security Information and Event Management market accounted to US$ 2.59 Bn in 2018 and is expected to grow at a CAGR of 10.4% during the forecast period 2019 - 2027, to account to US$ 6.24 Bn by 2027. The advancement in IT technologies has witnessed unprecedented adoption across the industry verticals. Moreover, the growing popularity of IoT solutions and connected devices has further boosted the penetration of IT solution across major industrial and service sectors. As a result, the significant presence of IT systems and solutions coupled with large exposure to various devices results in effective and efficient management of cyber security posture of the organization. Thus, the organization has spent heavily towards minimizing the potential vulnerabilities and containment of immediate unauthorized access and breach of data. Also, the growing sophistication of cyber threats coupled with a large number of alerts and events notification has created a strong demand for the robust and efficient market for various security-related solutions. Also, the massive cyber security attacks targeting various critical utilities and organization has swung the various international agencies into action for improved corporation towards developing superior solutions capable of mitigating such threats. As per The Insight Partners, it is estimated that the total spending on enterprise security was estimated around 98 billion in 2017, and expected to have high year-on-year growth during the forecast period.
Next-Generation Data Storage Market by Storage System (Direct-Attached, Network-Attached, Storage Area Network), Storage Architecture (File- & Object-Based, Block), Storage Medium (SSD, HDD, Tape), & End User - Global Forecast to 2024

Published by MarketsandMarkets Pub. Date 2019/03/29
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USD 5650 PDF by E-mail (Single User License) ~
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The next-generation data storage market is estimated to grow from USD 56.8 billion by 2019 to USD 102.2 billion by 2024 at a CAGR of 12.48%. The major drivers for this market include the massive growth in digital data volume; proliferated use of smartphones, laptops, and tablets; growth of the IoT market; and increasing penetration of high-end cloud computing. However, the breach in data security in cloud and server-based services, and less structured data are the major restraints for the growth of the next-generation data storage market.

"Market for SSD to grow at highest CAGR during forecast period"

SSD is expected to hold the largest share of the next-generation data storage market by 2024. The rapidly growing volumes of data being generated from various users are raising the storage demand on datacenters. In addition to the connected users, machines such as autonomous cars and connected planes generate a greater volume of content; this is also leading to the increased demand for storage capacity. In the past few years, SSD capacities have surpassed HDD capacities. Moreover, the price of SSDs has also declined to a great extent in these years, which has increased their adoption in various industries.

Adjacent Sector Digital Opportunities for Mnos

Published by Mobile Market Development Ltd Pub. Date 2019/03/29
Price
USD 2800 PDF by E-mail (Single User License)

Operators are transforming their business models to counter challenging competitive conditions, concentrating on diversifying revenues through offering digital services in a variety of new markets. This is happening alongside similar focus on digitalising internally, using the latest technologies to simplify business processes and increase quality of service.

Most mobile service users frequently use two or more connected devices simultaneously at some point during their day, and a large volume of spontaneous purchases are made using smartphones. There is a wide range of interactive and digital content services delivered via TVs and digital devices, and social media services are becoming sales and service channels. As use of digital services rise, consume r expectations rise, too, and they expect high levels of customer service as well as high quality services. Operators therefore face many challenges in response to this, including intense competition from many different market players, regulatory pressures, saturated markets and inadequate IT systems. In addition, offering digital services will become increasingly expensive as data consumption increases traffic on networks.
Location of Things Market to 2027 - Global Analysis and Forecasts by Application; and Industry Vertical

The global Location of Things (LoT) market was valued at US$ 19.10 Bn in 2018 and is expected to grow at a CAGR of 24.5% during the forecast period 2019 - 2027, and reach US$ 128.75 Bn in 2027. Development of internet infrastructure and IoT in recent years is primarily driven due to the need for energy efficient communications network infrastructure, and proliferation of IoT and connected devices. Such a prominent growth of IoT is projected to propel the Location of Things (LoT) market in the coming years.

Location Intelligence integrates geographical dimensions with the existing data from business intelligence applications. It allows an ability to visualize numerous metrics on the map. The location-based data enables organizations to determine new competitive advantage and insights. The savvy enterprises incorporate information about the location and geography in their data, which later allows them to utilize geospatial data to assist business intelligence. In addition, location technology assists in changing business and industries. Application of IoT, big data, advanced analytics in real problems is proven to be an effective solution.

LoT is used to create a new ecosystem for both business and organizations. The lot is gaining high momentum in diversified industry verticals at a large scale particularly in transportation & logistics, government & utilities, and retail industry. Furthermore, rising smartphone penetrations, increase in the number of devices connected over the internet has resulted in an explosion of data.

Asia/Pacific (Excluding Japan) Internet of Things Landscape: Market Trends and Insights from the 2018 IoT Global Decision Maker Survey

This research is a deep dive into IDC’s IoT Global Decision Maker Survey 2018 results. The survey, administered in October 2018, captures the perception of leaders within end-user organizations on IoT deployment plans, analytics play, platform ecosystem, monetization, edge, security, and several other themes. It also provides a comparative view of how IoT projects are thriving in the region vis-a-vis the rest of the world and how they have evolved from 2017 to 2018. “While manufacturing remains the fastest-growing segment in terms of IoT investments, overall the use cases with respect to smart buildings, security, and surveillance and traffic management have become more popular in the APEJ region in 2018,” says Shaily Shah, research manager, Internet of Things, IDC Asia/Pacific. “Among the mature markets, South Korea and Singapore are the most mature in terms of IoT infrastructure strategy, ecosystem development, and enterprise-wide deployments. Countries such as China and Vietnam have promising growth opportunities led by aggressive government agendas but need to overcome current challenges to scale across the enterprise,” adds Randy Roberts, research director, Internet of Things and Telecommunications, IDC Asia/Pacific.
In an industrial set-up, various equipment’s and components such as controllers, servers, remote terminals, monitoring equipment, and sensors are connected to the internet. Further, computer systems, applications, moving assets to the cloud or even remote facilities being connected to the Wide Area Network (WAN) require internet usage. All these are being done to gather real time insights for enhanced decision making.

However, this is increasing the attack surface. Adding several IoT devices to the network is only creating challenges for managing security as they may transmit sensitive data. Further, with the IT-OT convergence, the attack surface is expanding and subject to higher risks. IT personnel are still focusing on the security of IT network with little insight on securing the OT infrastructure. They are still focused on legacy applications that are difficult to upgrade. They also have limited opportunities for patch management due to the growing number of vulnerabilities. Further, IoT devices are under attack for various reasons such a poor installation of different codes and devices and lack of security experts in IoT security.

To meet the growing challenges of attacks, various vendors are providing security solutions across the IIoT architecture and not just for IT/OT networks, to ensure security against every potential threat.

This IDC Perspective examines contextual collective intelligence for insight at scale for work, operations, and experience. Borrowing from Tom Malone, founding director of the MIT Center for Collective Intelligence, the design objective for creating the Future of Intelligence in the Future Enterprise must address a fundamental question: How can people and computers be connected so that - collectively - they act more intelligently and create more economic, social, and environmental value than any person, group, or computer has ever done before? This Perspective describes an enterprise framework to meet this design objective: developing, socializing, and enhancing contextual collective intelligence (CCI) on collaborative human-machine learning networks. The framework describes how a digitally transformational business strategy should develop, apply, and socialize four modalities of intelligence (analytical, creative, emotional, and normative) to improve customer experience, operations, and work and innovate products and services. Our research identifies the sources of value and streams of benefits CCI unlocks and describes three key enablers. "Artificial intelligence and machine learning have primarily leveraged analytical intelligence to improve task-oriented or process-oriented decision making," notes Greg Girard, primary author of this document. "Five other modalities complement analytical intelligence - collectivity, contextuality, creative, emotional, and normative."
Global App Analytics Market (2018 - 2024)

The Global App Analytics Market size is expected to reach $3 billion by 2024, rising at a market growth of 19.4% CAGR during the forecast period. The app analytics technology helps to monitor the performance levels of mobile, desktop, and other device applications. Companies are adopting the app analytics software at a rapid scale to initiate better-informed and extensively data-driven decisions. The advent of new insights enables companies to enhance their product, marketing, and overall profitability. With the help of app analytics, organizations can unlock immense growth opportunities, however, without these; a company usually operates at great risks.

The growth of the app analytics market is expected to be driven by the growing demand for mobile and web apps, the increased application of advertising through smartphones, as well as the increasing implementation of digital transformation strategies. Moreover, the growing investments in analytics technology are one of the main factors expected to increase market growth.

Based on Type, the market is segmented into Web App Analytics and Mobile App Analytics. Based on Application, the market is segmented into App Performance Analytics & Operations, User Analytics, Ad Monitoring & Marketing Analytics, and Revenue Analytics. Based on Component, the market is segmented into Software and Services.

Worldwide Storage Software and Public Cloud Market Shares, 4Q18:
Fourth Quarter Caps Off Impressive Growth for Both Markets

This IDC study provides a brief overview of the worldwide storage software and basic storage (infrastructure as a service [IaaS]) market performance during the fourth calendar quarter of 2018 (4Q18) and full year 2018. "The storage software market finished the year strong, growing 4.5% year to year in the fourth quarter of 2018. This quarter caps off an impressive year of growth for the market, which expanded 6% annually in 2018, after a difficult 2017," said Andrew Smith, research manager, Infrastructure Systems, Platforms, and Technologies Group, IDC. "The relatively high growth of storage software in 2018 was driven by three key trends. First, the enterprise storage systems market also grew in 4Q18, dragging system-related software sales. Second, the continued expansion of public cloud IaaS creates opportunity for cloud-based secondary storage solutions for data protection, archive, and data management. Finally, the storage software market benefits from the relentless growth in storage data volume and complexity, which creates opportunity for software solutions to expand their functionality and generate additional value."
Worldwide Datacenter Network Forecast, 2019-2023

This IDC study provides a forecast for and analyzes key trends affecting the worldwide market for datacenter networking. "Ostensibly, the worldwide datacenter network retains a relatively enviable growth profile. Nonetheless, cloud is having a disruptive effect on all datacenter networking technologies and markets, and that disruption presents challenges and opportunities for suppliers and their customers." - Brad Casemore, IDC research vice president, Datacenter Networks

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Global Data Centre Investment and Technology Trends, Forecast to 2022

The demand for data transfer and storage has significantly increased over the past few years and is expected to continue to do so till 2022, driving data center expansion and investment. Escalating Internet and mobile data traffic has led to data growth; global Internet IP traffic is likely to rise from 6.8 ZB (zettabyte) in 2016 to 24.6 ZB by the end of 2022, representing nearly a four-fold increase over six years. Meanwhile, the rapid adoption of smart phones has led to greater mobile Internet penetration, which is anticipated to increase from nearly 50 percent of the total mobile users in 2017 to more than 70 percent in 2022.

The demand for data transfer and storage has also resulted in storage and compute solutions becoming more complex and advanced, creating a shift towards virtualization, modularity, edge computing, and Artificial Intelligence (AI). The data center by itself evolving from the traditional brick and mortar model to a self-contained modular design. This trend will play a crucial role in the expansion of the overall data center market, especially with the advent of 5G and edge computing.

Rapid advancements in the field of IoT, IoE, and 5G are accelerating growth in edge applications in data centers. As the 'compute' moves to the edge of the network to achieve better latencies, there will be a surge in the number of smaller new edge data centers across the world. The edge data center market is forecast to grow at a compound annual growth rate (CAGR) of 36.3 percent from $768 million in 2017 to $3.6 billion in 2022. The need for edge-based data centers arises due to latency, growing data volume, and reduction in data processing at large data centers.
The DX World Brings a Huge Opportunity for Technology Vendors to Gain Market Share

This IDC Market Perspective outlines four types of IT deployment models and the opportunity for businesses and technology vendors in the DX world. Multiplied innovation means businesses’ use of innovation is accelerating. These expansive changes are impacting markets, customer expectations, and operational efficiencies. Technology no longer is just simplifying manual processes but is also addressing more complex problems with multiple data points and business processes, streamlining business interactions while also allowing workers to be more engaged as they model and predict outcomes. This means businesses of all shapes and sizes are reconfiguring how they view, select, and use technology. “In this era of multiplied innovation, there may be a new world enterprise technology order emerging. DX spending is expected to steadily expand throughout the 2017-2022 forecast period, achieving a five-year compound annual growth rate of 16.7%, which means the race is on to see who the leaders will be in enterprise applications,” says Mickey North Rizza, program VP, Enterprise Applications and Digital Commerce. “Organizations are going through an exercise of rationalization and modernization in the name of digital transformation. The technology vendors have a rare opportunity to create a new world order with the right platform, road map, partner ecosystem, and even the right M&A strategy.”

Li-Fi Enabled Communication System Market to 2027 - Global Analysis and Forecasts by Component and End User

The global Li-Fi enabled communication system market is classified on basis of different end users as smart home, smart city, automotive, education, retail, healthcare, government, transportation and others. The developed and developing countries are witnessing a rise in numbers of smart homes and smart cities, which is benefiting the Li-Fi technology developers. Smart cities could definitely benefit from Li-Fi enabled street lights to provide internet access to mobile phones.

The on-going trend of sophistication of modern automotive with various advanced technologies, is poised to drive the Li-Fi enabled communication devices through automotive industry. Further, the constant appetite for adoption of advanced technologies among the North American end user industry is expected to drive the Li-Fi enabled communication system market in the coming years.

North America is the leading region in the global market followed by Europe in the Li-Fi enabled communication system market. The availability of efficient infrastructure in the developed nations has enabled the manufacturing companies to explore the limits of science, technology, and commerce. Across North America, technological advancements have led to a highly competitive market. The factors such as a surge in demand for smartphones, industrial automation, internet of things (IoT), increase in a number of smart cities, and smart homes automation systems are boosting the growth of Li-Fi enabled communication system market in this region.
**Global Security as a Service Market (2018 - 2024)**

Published by KBV Research

Price
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USD 4320 PDF by E-mail (Site License)

www.giiresearch.com/ce/820644

The Global Security as a Service Market size is expected to reach $19.1 billion by 2024, rising at a market growth of 16.4% CAGR during the forecast period.

Security-as-a-service is an outsourcing model which is built for security management. Security as a service typically covers applications such as internet - based anti - Virus software; however the term may also refer to internal security management from an external organization. Security as a service (SecaaS or SaaS) is a cloud computing model which has been introduced to the market for delivering managed security services over the internet. SecaaS is based on the Software as a Service (SaaS) model, but is restricted to specialized security information services.

The compulsion of following regulatory and data protection laws, the extensive costs and risks associated with management of on-premises security solutions, and the growing demand for cloud-based security solutions are the prime influencers of this market. Security as a Service market is segmented into components (solutions and services), application area, organization size, vertical, and region. By solution, the market includes continuous monitoring, business continuity and disaster recovery, encryption, Data Loss Prevention (DLP), Identity and Access Management (IAM), Security Information and Event Management (SIEM), intrusion management, vulnerability scanning, and others.

**Digitally Transforming Enterprises Are Managing to Higher Levels of Storage and Data Availability**

Published by IDC

Price
USD 4500 PDF by E-mail (Single User License)

www.giiresearch.com/ce/816300

This IDC Perspective reviews how storage and data availability requirements are on the rise, focusing in particular on what this has meant for availability targets set by enterprises and how well organizations are performing in meeting those targets. Survey results collected in December 2018 are used to shed light on how enterprises define and measure availability, what methods they're using to protect their applications and data, and also any location dependencies associated with defined availability tiers (noncloud, private cloud, public cloud)."As enterprises evolve to new, more data-centric business models where data is a key strategic resource, data availability requirements are on the rise," said Eric Burgener, research vice president, Infrastructure Systems, Platforms and Technologies Group. "More workloads are deemed mission-critical than in the past, and more stringent recovery point and recovery time objectives are being established to help organizations manage to the higher levels of availability required."
**Worldwide Business Workflow Automation and Optimization Forecast, 2019-2023**

Published by IDC

Price

USD 4500 PDF by E-mail (Single user license)

This IDC study provides the worldwide market forecast for business workflow automation and optimization from 2018 to 2022. "In 2017, the worldwide business workflow automation and optimization market continued to grow, fueled by digital transformation and the growing demand for improved process efficiencies and management of content." - Allison Correia, senior research analyst, Imaging, Printing, and Document Solutions.

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**Privacy Management Software Market to 2027 - Global Analysis and Forecasts by Application ; Deployment Mode ; Organization Size ; Industry Vertical**

Published by The Insight Partners

Price

USD 4550 PDF by E-mail (Single User License) ~ USD 8550 PDF by E-mail (Enterprise License)

The global privacy management software market is accounted to US$ 521.3 Mn in 2018 and is expected to grow at a CAGR of 13.7% during the forecast period 2019 - 2027, to account to US$ 1,585.8 Mn by 2027. The global privacy management software market is experiencing steady growth in the forecast period with regards to continuous research and development activities, to bring necessary innovations in privacy management software market. The cloud hold a significant position in deployment type segment, which is a model where the data is stored in the third-party cloud provider. The clients have no control over the location of the infrastructure; this infers that if a vendor's data center is breached, the enterprise will have no control over time period of the outage or what data may be conceded. The cloud deployment model is ideal for organizations which are willing to adopt analytics solutions with low investment. It mainly allows the company to procure the data with all their services, but on an economical expense. Thus, the rapidly increasing demand for cloud based deployment is expected to boost the privacy management software market in the near future.
Wires And Cables Global Market Opportunities And Strategies To 2022

Published by The Business Research Company

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Wires And Cables Global Market Opportunities And Strategies To 2022 report from The Business Research Company provides the strategists, marketers and senior management with the critical information they need to assess the global wires and cables market.

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Global Connected Car Market Outlook, 2019

Published by Frost & Sullivan

Price
USD 6000 Web Access (Regional License)

The 2019 version of the connected car outlook covers an overview on the upcoming technologies, features, services and global trends surrounding connected cars and automotive IT. The research includes latest features being introduced by automakers such as Marketplace, features-on-demand, in-vehicle payments and newer telematics services. Predictions for 2019 market scenario have been showcased and the actual market scenario of 2018 have also been summarised. The outlook includes concepts, case studies of select use-cases and companies that have been the highlight of 2018 and are going to play a major role in shaping up the industry in the coming years.

Observations from interviews with automakers, Tier-I suppliers, technology providers, telecom providers etc. has been covered and these are trends pertaining to connected services, smartphone interfacing solutions and digital assistants to name a few. Forecasts for the total connected car, navigation system, embedded telematics solutions, etc. has been presented from the in-depth analysis and key findings. Topics such as data monetization, cybersecurity, Vehicle-to-Everything (V2X) etc., discusses the opportunities for OEMs and potential start-ups who are seeking to understand business models, regulations and market size to venture into such domains.
**Five Open Source Software Projects to Watch Carefully**

Published by IDC  
Price  
USD 4500 PDF by E-mail (Single User License)  
www.giiresearch.com/ce/816274  

This IDC Perspective looks at five open source software project areas that have the potential to impact the industry broadly: thin virtualization, Istio and service mesh, deep learning, edge-enabling infrastructure, and enabling technology for serverless computing. "Open source software is or will be an essential part of every organization’s IT strategy going forward," said Al Gillen, GVP, Software Development and Open Source, IDC. "These five project areas are subjects that you should be familiar with - and should be following so you can take advantage of products and services built around these important solutions in the near future."

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**Digital Education Publishing Market in the US 2019-2023**

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USD 5000 PDF by E-mail (Global license)  
www.giiresearch.com/ce/475107  

Digital education content is available in various formats such as electronic textbooks, digital textbooks, multimedia books, and online interactive books. With the emergence of various devices such as mobile devices that are compatible with digital content, vendors are increasingly innovating and capitalizing toward the adoption of interactive and multimedia content to improve their offerings. Educational institutions, as well as corporates, are adopting digital education content to undertake didactic innovation. It facilitates personalization and self-paced learning among students, contributing to the development of imagination and creativity.

Technavio's analysts forecast the digital education publishing market in the US to grow at a CAGR of 10.68% during the period 2017-2021.

**Covered in this report**

The report covers the present scenario and the growth prospects of the digital education publishing market in the US for 2017-2021. To calculate the market size, the report considers the revenue generated from the sales of digital education publications such as e-books, e-textbooks, e-journals, and other educational publications such as e-magazines and e-papers.

Technavio's report, Digital Education Publishing Market in the US 2017-2021, has been prepared based on an in-depth market analysis with inputs from industry experts. The report covers the market landscape and its growth prospects over the coming years. The report also includes a discussion of the key vendors operating in this market.
"Smaller operators in Sub-Saharan Africa tend to perform better than incumbents in terms of Net Promoter Score and intention to churn."

This report focuses on aspects of Analysys Mason's 'Connected Consumer Survey' that relate to the behaviour, preferences and plans of smartphone users in Sub-Saharan Africa (SSA). In particular, it focuses on the drivers of customer satisfaction and churn in consumer mobile services. The survey was conducted in association with On Device Research.

THIS REPORT PROVIDES:

- insight into the main drivers of mobile customer experience and how they vary by country and by operator
- analysis of the key factors that influence consumers' intention to churn
- Net Promoter Scores (NPSs) of operators in Sub-Saharan Africa
- an assessment of why some operators have better NPSs than others
- analysis of the role of bundling additional services on customer retention and how new service-based pricing models affect KPIs
- insight into the role of digitalising customer services and its impact on KPIs.

"More than half of the respondents in Australia and New Zealand have not heard about the launch of 5G, but awareness is higher in Australia than in New Zealand."

This report focuses on aspects of Analysys Mason's 'Connected Consumer Survey' that relate to the behaviour, preferences and plans of mobile users in Australia and New Zealand. In particular, it focuses on respondents' usage of mobile services and devices.

THIS REPORT PROVIDES:

- an assessment of the strength that operators have as smartphone sales channels
- findings about the role of the handset in customer retention and acquisition
- an analysis of the impact of 4G on mobile users' spend and engagement
- a discussion about the effects that 4G has on customer satisfaction
- a first look at customers' awareness of 5G and their interest for 5G-enabled mobile services
- an analysis of the relationship between data usage and spend.
ADAS and Autonomous Driving Industry Chain Report, 2018-2019 - Automotive Lidar

In the markets where Chinese companies master core technologies, price of products is bound to plummet. Take IPG for example, its 20W fiber lasers were priced at over RMB150,000 per unit in 2010, compared with current quote at RMB8,800 from the peer -- Shenzhen REEKO Information Technology Co., Ltd., Maxphotonics Co., Ltd. and Shenzhen JPT Opto-electronics Co., Ltd. are another two rivals in the fiber laser price war.

The similar stories echo in the LiDAR market where price competition pricks up in 2019 as Hu Xiaobo, a founder of Maxphotonics Co., Ltd., ventures into the LiDAR field for a new undertaking.

Yet, front runners still have a big say in the automotive LiDAR market. Velodyne has shipped 30,000 LiDARs worth a whopping $500 million since production. The giant will continue to produce more LiDARs for autonomous driving and short-range ones used in ADAS for detecting road conditions, blind spots and obstacles.

Velodyne’s new factory in San Jose which already becomes operational, can produce as many as 1 million units a year. If acquiring orders for 100,000 units, Velodyne will cut down the price of its VLS 128-channel products to less than $1,000, and that of VLS 32 to roughly $650, let alone $500 for mass-produced 32-channel Velarray solid-state LiDAR and $150 for 8-channel ones.

Digital Marketing to Life Scientists 2019

Scientists were among the first to use the Internet to publish and share information and to communicate with each other. The suppliers of lab instruments and consumables were among the first to identify their customer's digital behavior and respond with email marketing to direct them to the earliest online catalogs and e-commerce systems. This evolution continues today with suppliers and scientists alike. As scientists take advantage of new digital media their suppliers respond with new ways to inform and influence their customers online.

This report examines some of the most important elements of digital marketing, including Search Engine Optimization, social media, email, mobile, video, webinars, websites, and content marketing. The scientists responding to this survey described their use of each of these channels, how they use them, and the forms of content they are most interested in accessing. BioInformatics Inc. has been tracking scientists’ use of digital media since 1997 which give our report a unique perspective on the subject. This report includes trending data with our 2016 and 2017 reports on the same topic, so readers can understand which digital marketing techniques remain effective, which are falling out of favor, and what new techniques are emerging.
Japan SMB IT Spending Forecast Update by Vertical Segment, 2018-2022

This IDC study is a translation of the Japanese document IDC #JPJ42861818. It presents the Japan SMB IT market actual performance in 2017, estimated performance in 2018, and the market size forecasts from 2019 to 2022 according to product category, company size, and industry after considering the latest economic situation and product information gained from vendor surveys conducted until September 2018. IDC predicts that the market will grow positively until 2019 because of the PC replacement demand and compliance with the Consumption Tax Rise and Reduced Tax Rate System. However, IT spending growth rate is expected to remain low in 2020 and later because of the backlash from growth in the previous year. "In order to achieve growth in the Japan SMB IT market in 2020 and later, IT suppliers must develop new solutions and strengthen business service areas with continuous high growth by growing together with SMBs, as well as transforming into a new business promotion framework while responding to current needs," says Akira Muranishi, research manager, IT spending, IDC Japan.

Japan IT Spending Forecast by Company Revenue, 2019-2022

This IDC study is a translation of the Japanese document, which provides IT spending trends and forecasts by annual sales sizes. Annual sales sizes in FY15 (accounting year) are classified based on the following four revenue categories: less than 10 billion yen, 10 billion yen to less than 30 billion yen, 30 billion yen to less than 100 billion yen, and 100 billion yen and above. The report also describes the performance of the Japan IT market in 2014 and 2015, and presents market forecasts for the 2016-2020 period by annual sales, product, and industry. Growth in the Japan IT market will remain essentially flat in 2017, but IDC forecasts that IT spending will increase from 2018 onward because of capital spending in preparation for the Tokyo Olympics and Paralympics. However, IDC expects the upgrading of existing systems or PC replacement demand to form the bulk of IT spending among companies with annual sales of less than 30 billion yen. Only few companies in this segment will expand their IT spending with strategic goals. "IT suppliers should actively develop and propose solutions that allow companies with annual sales of less than 30 billion yen feel the actual benefits of IT spending with strategic goals," says Hitoshi Ichimura, research manager, IT Spending, IDC Japan.
Japan Telecommunications Services Forecast, 2019-2023

This IDC study is a translation of the Japanese document. It presents the forecasts for the number of connections, revenue, and spending in each Japan key telecommunications services market from 2017 to 2022. IDC made these forecasts for the enterprise WAN services market, mobile telecommunications market, fixed broadband market, VoIP market, and fixed voice/ISDN market. IDC also presents the forecasts for the WAN services market for public cloud connection applications and mobile virtual network operator (MVNO) telecommunications services market as focus areas. Increased cloud utilization and increased spending on IoT continue to drive the enterprise market. “Network in the future will incorporate new applications, such as cloud and Internet of Things, and evolve so that it will be able to ‘connect’ more variety and multitude of things. Carriers are required to change as well. They must have the ability to advantageously develop their competitiveness over their rivals using software, as well as the capability to create new solutions and services together with leader companies in digital transformation,” says Yoko Ono, communications research manager, IDC Japan.

Far-Field Speech and Voice Recognition Market by Component (Microphones, DSP and Software), Application (Smart TV/STB, Smart Speakers, Automotive, and Robotics), Microphone Solutions (Single, Linear, Circular), and Geography - Global Forecast to 2024

The far-field speech and voice recognition market is expected to grow from USD 969 million in 2018 to USD 3,505 million by 2024, at a CAGR of 23.89%. The growth of the far-field speech and voice recognition market can be attributed to the advancement of deep-learning-based far-field microphones, growing impact of front-end hardware components on the accuracy of speech and voice recognition, and growth in voice control-based smart speakers. However, growing privacy threat from voice-enabled smart home devices and lack of accuracy in far-field speech and voice recognition systems in noisy and harsh environments are restraining the market growth.

“Software expected to grow at highest CAGR during the forecast period.”

Software or deep learning plays a major role in voice pickup. It offers beamforming, spectral noise reduction, acoustic echo cancellation, and de-reverberation technologies to enhance speech recognition performance in far-field use cases and hence improve the quality of the input speech signal. Alango offers a voice enhancement package (VEP), a set of software technologies comprising a multi-microphone beamforming array and echo canceller, which support far-field speech recognition enhancement in smart home products, mobile phones, and automotive voice-controlled applications.
2019 Global Managed SD-WAN Market Forecasts

Published by Frost & Sullivan

Price
USD 4950 Web Access (Regional License)

www.giiresearch.com/ce/820545

Software-defined Wide Area Network (SD-WAN) continues to attract the attention of enterprises eager to leverage the business benefits offered by the technology; for example, faster deployment of branch sites, cost savings from using private and public networks, optimized cloud connectivity, and application-aware routing.

In this report, we provide an overview of key market trends in the global managed SD-WAN market, market revenue and customer sites forecasts, and detailed competitive profiles of leading managed SD-WAN providers in the market.

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- Market Definitions
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- Appendix

Mobile Wallet and Payment Technologies: Global Markets

Published by BCC Research

Price
USD 5500 PDF by E-mail (Single User License) ~
USD 9504 PDF by E-mail (Enterprise License)

www.giiresearch.com/ce/265538

The global mobile wallet market reached $46.8 billion in 2014. The market is expected to reach $635.0 billion by 2020 from $113.5 billion in 2015, increasing at a compound annual growth rate (CAGR) of 41.1% from 2015 to 2020.

This report provides:

- An overview of the global mobile wallet market and related payment technologies.
- Examination of supporting equipment and technologies, including RFID, smartphones, and 4G technology.
- Discussion of payment framework and challenges, and legislation and regulatory framework for devices and technologies.
- Delineation of technologies, such as mobile commerce, mobile payments (taxis, hotels, phone bills and others, and entertainment events), premium messages, mobile Web payments, near-field communication (NFC), cloud computing, and social media.
- Comprehensive company profiles of major players.
Global Mobile Backhaul & Fronthaul Market Insights, Forecast to 2025

The mobile front end interfacing part of the cellular network is known as mobile fronthaul, and the back end part of cellular network which connects fronthaul with voice/data circuits is known as Mobile backhaul.

The Global Mobile Backhaul & Fronthaul market is expected to increase to $40,143.04 million by 2026 from $12,121.20 million in 2019, growing at a CAGR of 18.66% from 2019 to 2026.

The major players in global Mobile Backhaul & Fronthaul market include:

- Cisco
- Ericsson
- Broadcom
- Fujitsu
- Omnitron Systems
- LS Networks
- Nokia Networks (Alcatel-Lucent)
- Huawei Technologies
- Ciena
- Infinera
- ZTE

Global Artificial Intelligence Market in the Telecommunication Market Size, Status and Forecast 2019-2025

Telecommunication Artificial Intelligence (AI) is intelligence demonstrated by machines for Telecommunication.

In 2018, the global Artificial Intelligence Market in the Telecommunication market size was xx million US$ and it is expected to reach xx million US$ by the end of 2025, with a CAGR of xx% during 2019-2025.

This report focuses on the global Artificial Intelligence Market in the Telecommunication status, future forecast, growth opportunity, key market and key players. The study objectives are to present the Artificial Intelligence Market in the Telecommunication development in United States, Europe and China.

The key players covered in this study:

- Alphabet
- IBM
- Microsoft
- Cisco Systems
- Intel

Market segment by Type, the product can be split into:

- Solutions
- Services
**Connected Consumer Survey 2018: Digital Services in Emerging Asia-Pacific**

Published by Analysys Mason  
Price  
USD 4999 PPTX and PDF by E-mail (Single User License)  
Pub. Date 2019/03/27  
www.giiresearch.com/ce/814232

 Operators in EMAP have limited direct involvement in ecommerce, but they can promote usage of their enablement services (including logistics, identity management and mobile wallet payments) to enrich the sector.

This report focuses on aspects of Analysys Mason’s Connected Consumer Survey that relate to the behaviour, preferences and plans of smartphone users in emerging Asia-Pacific (EMAP). In particular, it focuses on respondents’ usage of digital services.

This report:

- discusses the main ecommerce trends in emerging Asia-Pacific, including the type of devices that consumers use to purchase goods, the frequency of these payments and the main payment mechanisms for ecommerce, as well as physical payments
- provides insight into the organisations that consumers in these regions are most willing to trust
- analyses consumer interest and ownership of various connected devices.

Survey data coverage:

The survey was conducted in association with On Device Research (ODR) between August and October 2018. The survey groups were chosen to be representative of the mobile-Internet-using population in emerging Asia-Pacific. We set quotas on age, gender and geographical spread to that effect. Each country had a minimum of 1000 respondents, and 5000 in the region.

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**IT Services Global Industry Almanac 2014-2023**

Published by MarketLine  
Price  
USD 2995 PDF by E-mail (Single user license)  
USD 8985 PDF by E-mail (Enterprise License)  
Pub. Date 2019/03/27  
www.giiresearch.com/ce/346379

Global IT Services industry profile provides top-line qualitative and quantitative summary information including: industry size (value 2014-18, and forecast to 2023). The profile also contains descriptions of the leading players including key financial metrics and analysis of competitive pressures within the industry.

Key Questions Answered -

What was the size of the global it services industry by value in 2018?  
What will be the size of the global it services industry in 2023?  
What factors are affecting the strength of competition in the global it services industry?  
How has the industry performed over the last five years?  
What are the main segments that make up the global it services industry?
Japanese operators have decided to address the messaging market using rich communication services (RCS); KDDI, NTT DoCoMo and SoftBank simultaneously launched interconnected native RCS.

This report provides an outlook on the mobile communication services market in developed Asia-Pacific (DVAP), including country views for Australia, Japan, South Korea and Taiwan. It provides forecasts for voice and messaging services provided by both mobile network operators and over-the-top (OTT) providers.

This report provides:

- forecasts for operator services including VoLTE, Wi-Fi calling and IP messaging, as well as traditional voice and messaging services
- quantification of the level of substitution from traditional services to OTT alternatives
- user and traffic forecasts for communication services, including OTT voice and messaging
- an outlook for multi-device usage across smartphones, tablets and PCs/laptops
- data provided for the region as a whole and for Australia, Hong Kong, Japan, New Zealand, Singapore, South Korea and Taiwan
- individual profiles for Australia, Japan, South Korea and Taiwan.
Global Near Field Communication (NFC) Chips Market 2019-2023

The increased penetration of smartphones is one of the key factors expected to foster the near field communication (NFC) chips market growth in the forthcoming years. NFC-enabled smartphones are often being used for peer-to-peer communication and card emulator applications. Furthermore, the increasing application of NFC chips is encouraging OEMs for integrating NFC chips in their products. This will further drive the near field communication (NFC) chips market growth in the forthcoming years. Technavio’s analysts have predicted that the near field communication (NFC) chips market will register a CAGR of over 7% by 2023.

Market Overview

Increasing adoption of contactless payments

One of the growth drivers of the global near field communication (NFC) chips market is the increasing adoption of contactless payments. The rising prevalence of contactless payment and the increasing use of contactless cards and mobile payments are expected to drive the demand for NFC card readers across POS terminals.

Low awareness of NFC technology

One of the challenges in the growth of the global near field communication (NFC) chips market is the low awareness of NFC technology. With the reducing adoption of NFC chips in key market segments, the barrier to the growth of the market will increase. This will affect the unit shipment of NFC chips.


DMG Consulting’s 12th annual Workforce Management Product and Market Report provides the most comprehensive and insightful coverage of this evolving technology sector. The 292-page Report contains detailed vendor, product, technology, trend, price and market data to help decision-makers in contact centers, back offices and branches select a WFM solution that meets their unique needs. It examines the new features, including artificial intelligence (AI) and machine learning, being incorporated into the current generation of WFM solutions. The Report also covers best practices to position an organization for a successful implementation and to achieve a rapid ROI on a WFM investment.

The WFM sector has undergone a dramatic transformation in the past three years. The key differences between "old school" and "new wave" WFM are flexibility, mobility, enablement, and automation. The new generation of WFM solutions gives agents unprecedented visibility into and control over their schedules. Contact centers also benefit from reduced operating costs, optimized scheduling, improved performance, decreased staff attrition, and a more engaged and committed workforce.
Asia-Pacific Professional Security Services Market, Forecast to 2022

C-level executives, board of directors, senior management, and other stakeholders want to get an insight into their enterprise’s cybersecurity risk management program. Enterprises can no longer deal with threats with their own in-house IT teams and need expert advice to protect against increasingly sophisticated threats. Thus, outsourcing to third-party service providers or entering into strategic alliances with industry-leading vendors is being witnessed today.

Professional security services are value-added services provided by firms to improve the security posture of organizations. They can include security advisory, implementation services, and technical services, such as assessment, benchmarking, design, planning, configuration, and incident response services. Professional security services fall under the Managed Security Services (MSS) portfolio. MSS are provided by Managed Security Service Providers (MSSPs) to manage and monitor the security posture of their customers’ IT infrastructure. By availing these services, client organizations are often able to reduce expenditure on either customer-premises equipment or on in-house security specialists, while receiving effective security management. Professional security services are mainly customized according to the requirements of the customer. The end-customers avail these services on a project basis. On the other hand, MSS is standardized and offered over time.

Digital English Language Learning Market to 2027 - Global Analysis and Forecasts by Product Type (On-premise and Cloud); Business Type (Business-to-Business and Business-to-Customer); End User (Academic and Non-Academic)

The Global Digital English Language Learning Market was valued at US$ 3,247.4 Mn in 2018 and is anticipated to grow at a CAGR of 15.2% to account for US$ 11,445.6 Mn by 2027. Factors such as increasing adoption of the digital education system, implementation of advanced level English curriculum in schools, increasing number of immigrants for higher education are the key factors driving the global Digital English Language Learning market. Also, the Asia-Pacific region is anticipated to provide numerous profitable opportunities for the market players operating in the Digital English Language Learning market in the coming years.

Digital English language learning market operates in a highly-fragmented and competitive marketplace. As leading companies in this market continues to broaden its addressable market, by expanding its current product portfolio, diversifying its client base, and developing new applications and markets, all the prominent players faces an increasing level of competition, both from start-ups as well the leading established companies in the world. Various companies in the value chain are acquiring other players in the market to maintain their position in market and provide efficient solutions to its customers. Major companies of digital English language learning providers are based in North America, and mainly US. However, the market is penetrating at high growth rate in APAC region.
**Software Global Industry Almanac 2014-2023**

Published by MarketLine

Price
USD 2995 PDF by E-mail (Single User License) ~
USD 8985 PDF by E-mail (Enterprise License)

Global Software industry profile provides top-line qualitative and quantitative summary information including: market size (value 2014-18, and forecast to 2023). The profile also contains descriptions of the leading players including key financial metrics and analysis of competitive pressures within the market.

Key Questions Answered -

What was the size of the global software market by value in 2018?

What will be the size of the global software market in 2023?

What factors are affecting the strength of competition in the global software market?

How has the market performed over the last five years?

What are the main segments that make up the global software market?

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**Global Social Media Management Software Market 2019-2023**

Published by TechNavio (Infiniti Research Ltd.)

Price
USD 2500 PDF by E-mail (Single user license) ~
USD 5000 PDF by E-mail (Global license)

Social media management software is used to streamline social media marketing tasks. It provides functions for managing social media accounts and social media posts as well as to schedule social media posts. Social media management software is used primarily by the marketing and communications departments of a company. Organizations adopt social media management solutions because of their advantages such as better use of social media analytics, improved management of dashboards, and availability of data recording facilities. These organizations are gradually shifting their IT resources from on-premise to cloud-based software-as-a-service (SaaS) solutions, to minimize upfront costs and scale up their IT infrastructure.

Technavio's analysts forecast the global social media management software market to grow at a CAGR of 14.57% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global social media management software market for 2017-2021. To calculate the market size, the report considers the new installations of social media management software.
Supply Chain Visibility Market: Asset Tracking and Traceability Market
by Technology (Location Tech, IoT, Blockchain), Infrastructure,
Connection Type (Wired, 3G, 4G, 5G, WiFi and WiMAX), Mobility,
Industry Verticals and Regions 2019 - 2024

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USD 6995 PDF by E-mail (Global Enterprise License)

www.giiresearch.com/ce/814605

There is a fast-growing need for global visibility of enterprise assets. This includes raw materials as well as support equipment, machines, and products in transit and storage. The market drivers for asset tracking go well behind regulatory and corporate compliance as enterprise operations realize improved logistics efficiency and overall business effectiveness across a wide variety of industry verticals and use cases. In addition, cargo theft and enterprise asset pirating is on the rise globally, leading to the need for a holistic approach to a multitude of business problems ranging from fleet management to asset direct/redirect to prevention of spoilage, counterfeiting, diversion, pilferage.

Leading asset tracking market companies provide solutions based on technology integration including M2M/IoT and location technologies (GPS, RFID, and others) with value-added software and supply chain visibility as a service options. For example, Sensitech provides supply chain visibility by way of a portfolio of products and services. The company provides the ability to both track and trace assets, which is a key solution for many supply chain use cases such as determining care of custody and related responsibility for handling and condition of goods and proper delivery of services.

Cloud Based Payroll Software Market to 2027 - Global Analysis and Forecasts by Organizational Size and Industry Vertical

Published by The Insight Partners
Pub. Date 2019/03/27
Price
USD 4550 PDF by E-mail (Single User License) ~
USD 8550 PDF by E-mail (Enterprise License)

www.giiresearch.com/ce/819797

The global cloud based payroll software market was valued at US$ 7.34 Bn in 2018 and is expected to grow at a CAGR of 10.3% during the forecast period 2019 - 2027, to account to US$ 17.39 Bn by 2027. Factors such as advancements in cloud technology, and high adoption among by SMEs is driving the cloud based payroll software market growth.

The market has of large number well-recognized as well as medium and smaller companies across the globe which are involved in development of robust software and offer services to their clients. Also the advancements in cloud technology has accelerated the procurement of cloud based payroll software among numerous companies across industries.

Also, owing to low entry barrier to the cloud based payroll software market, the emerging companies are also experiencing significant growth in terms of clientele and revenue, which is smoothening the growth path of cloud based payroll software market in the emerging countries. In addition, the cost competitiveness among the cloud based payroll market players, is increasing the quest to adopt the advanced technology, thereby projecting a significant future for cloud based payroll software market.
**APEJ Wireless SD-WAN Forecast and Analysis 2019-2023**

Published by IDC  
Price  
USD 4500 PDF by E-mail (Single User License)  
www.giiresearch.com/ce/816262

This IDC study analyzes the Asia/Pacific (excluding Japan) wireless software-defined WAN (SD-WAN) market and provides IDC's second forecast for this networking segment. "Systems integrators are realizing that multi-cellular and multinetwork (fixed + cellular + satellite + LPWAN) is a viable way to provide reliable communications in remote and mobile environments, and enables the integration of 3G, 4G LTE, 5G, and satellite access technologies while exploiting the benefits of cloud-based software-defined networking," says Bill Rojas, adjunct research director, IDC Asia/Pacific. "The use cases adopting wireless SD-WAN are expanding to all forms of maritime and merchant shipping, energy, and resources including smart farming, healthcare, public sector, and terrestrial transportation," he added.

**ADAS and Autonomous Driving Industry Chain Report 2018-2019 - OEMs**

Published by ResearchInChina  
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USD 2600 Unprintable PDF by E-mail (Single User License)  
USD 3900 Printable & Editable PDF by E-mail (Enterprise-wide License)  
www.giiresearch.com/ce/673516

OEM ADAS and Autonomous Driving Strategy Research: At least Billions of Dollars and Thousands of Software Engineers are Required.

The new trends "electrification, networking, intelligence and sharing" led by autonomous driving are disrupting the traditional automotive industry.

Yet, barriers to L4 and above autonomous driving are so high that no one can image. WAYMO that has spent over a decade and billions of dollars on the technology, has slowed its pace of commercialization even if being far ahead of its rivals, and has admitted that the fully automated driving will take time. As Waymo CEO John Krafcik said in late 2018, though driverless cars are "truly here", they aren't ubiquitous yet and autonomy always will have some constraints for decades to come.

This means that autonomous driving costs too much and those who shell out for it will face long-term loss. To cope with the challenges posed by Waymo, traditional OEMs are forming alliances. Examples include the partnership among Daimler, BMW and Intel (Mobileye) and the collaborations between GM and Honda, VW and Ford.