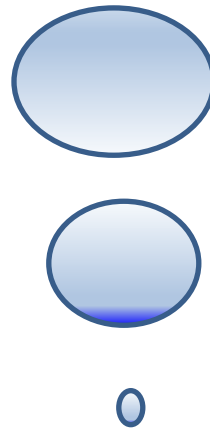


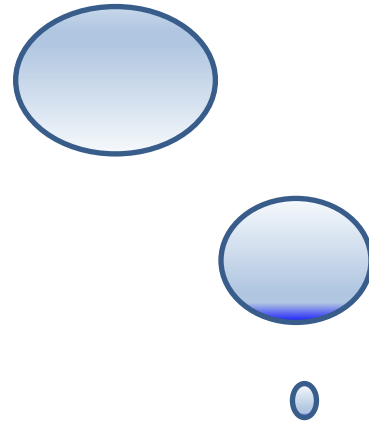


**Robotic Middleware Sample:
Market Shares, Strategies, and Forecasts, Worldwide, 2019 to 2025**



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Robotic Middleware Sample:

Market Shares, Strategies, and Forecasts, Worldwide, 2019 to 2025

Robotic software middleware represents the next evolution of software with increased automation for installation and integration with applications

Robotic Software Technology that Increases IT Operations Efficiency

<ul style="list-style-type: none">SlackCloudIntegrationOrchestrationEvent Driven MiddlewareMission Critical MessagingBPMStorageContainersComponentsManaged File TransferOrganizational CollaborationMessaging Cloud ComputingMiddlewareRobotic SoftwareMiddleware MessagingOpen Source StreamingWeb ServicesE-Commerce	<ul style="list-style-type: none">Cloud TechnologyMiddleware MessagingDrives Web Services and SOAMiddleware MessagingCross ApplicationCross Platform DataExchangeOnce and Only OnceAsynchronous MessageDeliveryMessage Delivery ServerApplication ServerWeb 2.0Wiki-Style CollaborationSocial NetworkingBusiness ProcessManagementVirtualized Systems	<ul style="list-style-type: none">Open Source ApplicationServerWeb AssetsJBOSSSOA Reusable SoftwareComponentsVirtualizationServer Hosting CentersWeb PropertiesWeb Application GalleryWeb PICollaborationMashupsWeb servicesWeb Analytics / FrameworksJavaLinux
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Robotic Software Markets:

Market growth is based on implementation of streaming mobile smart phone network connectivity, tablet use for mobile computing, Internet apps, cloud computing, and business process management systems (BPM) that support collaboration. IoT process API components support enterprise innovation and change. Software forms the basis of change. Software API streaming message development tools drive innovation. Mission critical messaging is a key aspect of those aspects of web process making IT flexible and adaptable.

Figure 1. Mission Critical Messaging and Cloud API Integration Streaming Tools Market Shares, Dollars, Worldwide, 2018

Mission Critical Messaging and Cloud API Integration Streaming Tools Dollars, Worldwide, 2018			
In Millions of Dollars			
	MM\$		%
	2018		2018
Company 1	XX	*	XX
Company 2	XX	*	XX
Company 3	XX	*	XX
Company 4	XX	*	XX
Company 5	XX	*	XX
Company 6	XX	*	XX
Company 7	XX	*	XX
Company 8	XX	*	XX
Company 9	XX	*	XX
Company 10	XX	*	XX
Company 11	XX	*	XX
Company 12	XX	*	XX
Company 13	XX	*	XX
Company 14	XX	*	XX
Other	XX	*	XX
Total	XX		XX

Source: WinterGreen Research, Inc.

Figure 2. Server and PC Operating Systems Market Shares, Dollars, Worldwide, 2018

**Server and PC Operating Systems Market Shares,
Dollars, Worldwide, 2018**
In Millions of Dollars

	MM\$ 2018		% 2018	% Desktop 2018	% Server	% Mainframe
Company 1	XX	XX	XX	XX	XX	XX
Company 2	XX	XX	XX	XX	XX	XX
Company 3	XX	XX	XX	XX	XX	XX
Company 4	XX	XX	XX	XX	XX	XX
Company 5	XX	XX	XX	XX	XX	XX
Other	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: WinterGreen Research, Inc.

Figure 3. Linux Operating System Development Platforms Market Shares, Shipment Dollars, Worldwide, 2018

Linux Operating System Development Platforms Market Shares, Shipment Dollars, Worldwide, 2018				
In Millions of Dollars				
In Thousands of Units Shipped				
	MM\$	MM\$ %	Domains	%
	2018	2018	2018	2018
				Domains
Company 1	xx	xx	xx	xx
Company 2	xx	xx	xx	xx
Company 3	xx	xx	xx	xx
Company 4	xx	xx	xx	xx
Company 5	xx	xx	xx	xx
Other	xx	xx	xx	xx
Total Linux Distros (000)			xx	xx
Total MM\$	xx	xx		
Note: 818 Billion domains				
Source: WinterGreen Research, Inc.				

Figure 4. Event-Driven Middleware Market Shares, Dollars, Worldwide, 2018

Event-Driven Middleware Market Shares, Dollars, Worldwide, 2018 In Millions of Dollars		
	MM\$ 2018	% 2018
Company 1	xx	xx
Company 2	xx	xx
Company 3	xx	xx
Company 4	xx	xx
Company 5	xx	xx
Company 6	xx	xx
Company 7	xx	xx
Other	xx	xx
Total	xx	

Source: WinterGreen Research, Inc.

WinterGreen Research, Inc.

Figure 5. Mission Critical Messaging, Market Units and Dollars, Worldwide, 2019-2025

Mission Critical Messaging Market

Units and Dollars, Worldwide, 2019-2025

In Number of Units

In Millions of Dollars

	2018	2019	2020	2021	2022	2023	2024	2025
Total								
Middleware Messaging (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx
Middleware Messaging (Units)	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

Figure 6. Application Server Market Shares, Units and Dollars, Worldwide, 2018

Application Server Market Shares, Units and Dollars, Worldwide, 2018		
In Millions of Dollars		
in % of Units		
	MM\$	%
	2018	2018
Company 1	XX	XX
Company 2	XX	XX
Company 3	XX	XX
Company 4	XX	XX
Company 5	XX	XX
Other	XX	XX
Total	XX	XX
Java Based (MM\$)	XX	
Java Units in Millions	XX	
JEE Based (MM\$)	XX	
JEE Units in Millions	XX	

Source: WinterGreen Research, Inc.

Figure 7. Enterprise Messaging Middleware Market Shares, Dollars, Worldwide, 2018

Enterprise Messaging Middleware Market Shares,
Dollars, Worldwide, 2018
In Millions of Dollars

	MM\$ 2018	MM\$ %	MM\$ Army 2018	MM\$ Army % 2018	MM\$ Navy 2018	MM\$ Navy % 2018	MM\$ Air Force 2018	MM\$ Air Force % 2018
Company 1	xx	xx	xx	xx	xx	xx	xx	xx
Company 2	xx	xx	xx	xx	xx	xx	xx	xx
Company 3	xx	xx	xx	xx	xx	xx	xx	xx
Company 4	xx	xx	xx	xx	xx	xx	xx	xx
Company 5	xx	xx	xx	xx	xx	xx	xx	xx
Company 6	xx	xx	xx	xx	xx	xx	xx	xx
Company 7	xx	xx	xx	xx	xx	xx	xx	xx
Other	xx	xx	xx	xx	xx	xx	xx	xx
Total	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

WinterGreen Research, Inc.

Hybrid Cloud Robotic Middleware Market Shares, Units, Worldwide, 2018 In Thousands of Units

	2018	% 2018	Army 2018	Army % 2018	Navy 2018	Navy % 2018	Air Force 2018	Air Force % 2018
Company 1	XX	XX	XX	XX	XX	XX	XX	XX
Company 2	XX	XX	XX	XX	XX	XX	XX	XX
Company 3	XX	XX	XX	XX	XX	XX	XX	XX
Company 4	XX	XX	XX	XX	XX	XX	XX	XX
Company 5	XX	XX	XX	XX	XX	XX	XX	XX
Company 6	XX	XX	XX	XX	XX	XX	XX	XX
Company 7	XX	XX	XX	XX	XX	XX	XX	XX
Other	XX	XX	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX	XX	XX

Source: WinterGreen Research, Inc.

WinterGreen Research, Inc.

Enterprise Messaging Middleware Market Shares, Dollars, Worldwide, 2018 In Millions of Dollars

	MM\$ 2018	MM\$ %	MM\$ Army 2018	MM\$ Army % 2018	MM\$ Navy 2018	MM\$ Navy % 2018	MM\$ Air Force 2018	MM\$ Air Force % 2018
Company 1	xx	xx	xx	xx	xx	xx	xx	xx
Company 2	xx	xx	xx	xx	xx	xx	xx	xx
Company 3	xx	xx	xx	xx	xx	xx	xx	xx
Company 4	xx	xx	xx	xx	xx	xx	xx	xx
Company 5	xx	xx	xx	xx	xx	xx	xx	xx
Company 6	xx	xx	xx	xx	xx	xx	xx	xx
Company 7	xx	xx	xx	xx	xx	xx	xx	xx
Other	xx	xx	xx	xx	xx	xx	xx	xx
Total	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

WinterGreen Research, Inc.

Middleware Messaging Applications Market Segments, Percent, Worldwide, 2019-2025 In Percent

	2018	2019	2020	2021	2022	2023	2024	2025
Applications for Mid IR Sensors								
Total MM\$	xx	xx	xx	xx	xx	xx	xx	xx
Message Broker Once and Only								
Once Delivery	xx	xx	xx	xx	xx	xx	xx	xx
Azure Linux Based Cloud Enable	xx	xx	xx	xx	xx	xx	xx	xx
Publish Subscribe	xx	xx	xx	xx	xx	xx	xx	xx
Open Source Linux Based	xx	xx	xx	xx	xx	xx	xx	xx
Orchestration Cloud Enabled	xx	xx	xx	xx	xx	xx	xx	xx
Total %	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: WinterGreen Research, Inc.

WinterGreen Research, Inc.

Data Center Market Segment Forecasts, Dollars and Percent, Middle East, 2019-2025

In Percent, in Millions of Dollars

	2018	2019	2020	2021	2022	2023	2024	2025
Data Centers								
Total MM\$	XX	XX	XX	XX	XX	XX	XX	XX
Telecommunications (Carriers)	XX	XX	XX	XX	XX	XX	XX	XX
Financial	XX	XX	XX	XX	XX	XX	XX	XX
Government	XX	XX	XX	XX	XX	XX	XX	XX
Energy & Utility (Electricity)	XX	XX	XX	XX	XX	XX	XX	XX
Software and Cloud Services	XX	XX	XX	XX	XX	XX	XX	XX

Source: WinterGreen Research, Inc.

WinterGreen Research, Inc.

Business Collaboration Messaging Shares, Dollars, Worldwide, 2018 In Millions of Dollars

	MM\$ 2018	% 2018
Slack	XX	XX
Microsoft	XX	XX
Alphabet / Google	XX	XX
Cisco	XX	XX
Other	XX	XX
Total	XX	XX

Source: WinterGreen Research, Inc.

Business Collaboration Messaging Market Forecasts, Dollars and Percent Growth, 2019-2025

In Percent Growth, in Millions of Dollars

	2018	2019	2020	2021	2022	2023	2024	2025
Business Collaboration Messaging								
Total MM\$	XX	XX	XX	XX	XX	XX	XX	XX
% Growth	XX	XX	XX	XX	XX	XX	XX	XX

Source: WinterGreen Research, Inc.

WinterGreen Research, Inc.

Managed File Transfer Market Forecasts, Dollars and Percent Growth, 2019-2025

In Percent Growth, in Millions of Dollars

	2018	2019	2020	2021	2022	2023	2024	2025
Managed File Transfer								
Total MM\$	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

Server Operating Systems Market Forecasts, Dollars and Percent Growth, 2019-2025

In Percent Growth, in Millions of Dollars

	2018	2019	2020	2021	2022	2023	2024	2025
Server Operating Systems								
Total MM\$	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

WinterGreen Research, Inc.

Application Server Market Forecasts, Dollars and Percent Growth, 2019-2025

In Percent, in Millions of Dollars

	2018	2019	2020	2021	2022	2023	2024	2025
Applications Servers								
Total MM\$	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

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ABOUT THE COMPANY

WinterGreen Research, research strategy relates to identifying market trends through reading and interviewing opinion leaders. By using analysis of published materials, interview material, private research, detailed research, social network materials, blogs, and electronic analytics, the market size, shares, and trends are identified. Analysis of the published materials and interviews permits WinterGreen Research senior analysts to learn a lot more about markets. Discovering, tracking, and thinking about market trends is a high priority at WinterGreen Research. As with all research, the value proposition for competitive analysis comes from intellectual input.

WinterGreen Research, founded in 1985, provides strategic market assessments in telecommunications, communications equipment, health care, Software, Internet, Energy Generation, Energy Storage, Renewable energy, and advanced computer technology.

Industry reports focus on opportunities that expand existing markets or develop major new markets. The reports access new product and service positioning strategies, new and evolving technologies, and technological impact on products, services, and markets. Innovation that drives markets is explored. Market shares are provided. Leading market participants are profiled, and their marketing strategies, acquisitions, and strategic alliances are discussed. The principals of WinterGreen Research have been involved in analysis and forecasting of international business opportunities in telecommunications and advanced computer technology markets for over 30 years.

The studies provide primary analytical insight about the market participants. By publishing material relevant to the positioning of each company, readers can look at the basis for analysis. By providing descriptions of each major participant in the market, the reader is not dependent on analyst assumptions, the information backing the assumptions is provided, permitting readers to examine the basis for the conclusions.

WinterGreen Research is positioned to help customers facing challenges that define the modern enterprises. The increasingly global nature of science, technology and engineering is a reflection of the implementation of the globally integrated enterprise. Customers trust wintergreen research to work alongside them to ensure the success of the participation in a particular market segment.

WinterGreen Research supports various market segment programs; provides trusted technical services to the marketing departments. It carries out accurate market share and forecast analysis services for a range of commercial and government customers globally. These are all vital market research support solutions requiring trust and integrity.

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ABOUT THE PRINCIPAL AUTHORS

Susan Eustis, President, co-founder of WinterGreen Research is a senior analyst. She has done research in communications and computer markets and applications. She holds several patents in microcomputing and parallel processing. She has the original patents in electronic voting machines. She has new patent applications in format varying, multiprocessing, and electronic voting. She is the author of recent studies of the Solar Renewable Energy, Wind Energy, Thin Film Batteries, Business Process Management marketing strategies, Internet equipment, biometrics, a study of Internet Equipment, Worldwide Telecommunications Equipment, Top Ten Telecommunications, Digital Loop Carrier, Web Hosting, Web Services, and Application Integration markets.

Ms. Eustis is a graduate of Barnard College. Worldwide Who's Who named her Top Female CEO of 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019. She has been twice featured on the cover of the Women of Distinction magazine. She was cited in a recent Time Magazine cover article and major media Washington Post, London Times, New York Times, LA Times, and WSJ articles on Youth Sports market growth. She has been quoted as a reliable industry source in Barron's and by Bloomberg relating to blockchain. She is head of the GBA blockchain group on elections systems.

About the WinterGreen Research Team: The WinterGreen Research Team is comprised of senior analysts that prepare the market research and analysis that is offered to the client and developed using an iterative process to achieve a final study. Typical projects include providing market/viability research. The team can look at how drones can be applied to critical infrastructures safety, including: type of market existing, Barriers, Forecast demand and competitors, SWOT and competitive advantages, Price Analysis, product design recommendations (marketing orientation).

Research is typically for many different regions or localities, for example EU countries including Spain, UK, Nordic, Germany, and France. Typical projects profile the United States and areas of Asia. It is common to three representative countries from South America, Brazil, Argentina, Chile, and Mexico. Representative countries from Asia APAC typically include Japan, China, India, and Australia.

Critical infrastructure safety, including: type of market existing, barriers to entry and to faithful execution of product provision, forecast of demand, market share, SWOT, competitive advantage of major competitors, identification of new technologies and new companies, price performance analysis, product design recommendations, and marketing considerations are typical topics covered.