

**Application Server Market Shares, Market  
Opportunities, Market Strategies, and Market Forecasts,  
2002 to 2007**

**Application Server Market Assessment**



*Picture by Joe Neustadt*

**Take a Step in the Right Direction**

**WinterGreen Research, Inc.  
Lexington, Massachusetts**

[www.wintergreenresearch.com](http://www.wintergreenresearch.com)

**Application Server Markets,**

**Market Trends,**

**Enterprise Application Servers for Back End Systems,**

**Enterprise Application Servers for Front End Systems,**

**Application Server Market Forecasts**

**MARKET STRATEGIES FORECASTS TO 2007**

Application Server Markets,

Web-Based Systems

Application Servers

MARKET STRATEGIES FORECASTS TO 2007

**CHECK OUT THESE KEY TOPICS**

Application Server Product Definition  
Application Server Market Growth Factors  
Application Server Market Shares  
Application Server Regional Analysis

Application Server Market Growth Opportunities

Application Servers Used to Develop Applications  
Application Server Positioning  
Integration Application Server  
Java Application Server  
Application Server Strategy  
Distributed Multi-Tier Applications  
Web Services Definition  
Web Services Architecture  
Application Server Market Description

**CHECK OUT THESE KEY TOPICS**

**OPPORTUNITY ABOUNDS**

**WinterGreen Research, Inc.**  
**Lexington, Massachusetts**  
[www.wintergreenresearch.com](http://www.wintergreenresearch.com)

**Application Server Market Shares, Market Opportunities, Market Strategies, and Market Forecasts, 2002 to 2007**

Application servers permit IT managers in the enterprise to improve the efficiency of internal network communication and external B2B and Internet exchange operations. A continual drive towards simplifying and automating processes is supported by application server development systems. Networked business relies on clusters of servers that address the business needs of various regional groups to achieve efficient transaction management access, enterprise-wide communication of transactions, and business process systems automation. Application servers permit businesses to achieve distributed transaction management that improves business efficiency.

Application server markets at \$1.7 billion in 2001 are expected to reach \$5 billion by 2007.

Application servers are the systems that manage distributed transaction situations. Application servers provide mission critical management of transaction in local venues. Transactions require mission critical management. The money needs to be managed.

Application servers support services systems development. This is a core IT function being extended to the business managers and business analysts. The ability to implement rules and analysis at the server level is an essential aspect of doing business in a distributed computing environment.

Companies are moving to take control of Web site management by managing distributed transaction servers.

## Companies Profiled

### Market Leaders

**Art Technology Group (ATG)**

**BEA**

**Candle**

**Fujitsu**

**International Business Machines (IBM)**

**IONA**

**Microsoft**

**MQSoftware**

**Oracle**

**RosettaNet**

**SilverStream Software**

**Sun Microsystems**

**Sybase**

## Application Server Market Strategies and Forecasts, 2002-2007

### REPORT METHODOLOGY

THIS IS THE HUNDRED AND THIRTY-FIFTH REPORT IN A SERIES OF MARKET RESEARCH REPORTS THAT PROVIDE FORECASTS IN COMMUNICATIONS, TELECOMMUNICATIONS, THE INTERNET, COMPUTER, SOFTWARE, AND TELEPHONE EQUIPMENT. THE PROJECT LEADERS TAKE DIRECT RESPONSIBILITY FOR WRITING AND PREPARING EACH REPORT. THEY HAVE SIGNIFICANT EXPERIENCE PREPARING INDUSTRY STUDIES. FORECASTS ARE BASED ON PRIMARY RESEARCH AND PROPRIETARY DATA BASES. FORECASTS REFLECT ANALYSIS OF THE MARKET TRENDS IN THE SEGMENT AND RELATED SEGMENTS. UNIT AND DOLLAR SHIPMENTS ARE ANALYZED THROUGH CONSIDERATION OF DOLLAR VOLUME OF EACH MARKET PARTICIPATION IN THE SEGMENT. INSTALLED BASE ANALYSIS AND UNIT ANALYSIS IS BASED ON INTERVIEWS AND AN INFORMATION SEARCH. MARKET SHARE ANALYSIS INCLUDES CONVERSATIONS WITH KEY CUSTOMERS OF PRODUCTS, INDUSTRY SEGMENT LEADERS, MARKETING DIRECTORS, DISTRIBUTORS, LEADING MARKET PARTICIPANTS, OPINION LEADERS, AND COMPANIES SEEKING TO DEVELOP MEASURABLE MARKET SHARE. OVER 200 IN DEPTH INTERVIEWS ARE CONDUCTED FOR EACH REPORT WITH A BROAD RANGE OF KEY PARTICIPANTS AND INDUSTRY LEADERS IN THE MARKET SEGMENT.

## YOU MUST HAVE THIS STUDY

REPORT # K937264387128 300+ PAGES 100+ TABLES AND FIGURES 2002 \$2,800

# Application Server Market Shares, Market Opportunities, Market Strategies, and Market Forecasts, 2002 to 2007

## APPLICATION SERVER EXECUTIVE SUMMARY

<b>APPLICATION SERVER EXECUTIVE SUMMARY</b>	<b>ES-1</b>
Application Server Market Trends	ES-1
Enterprise Application Servers for Back End Systems	ES-2
Enterprise Application Servers for Front End Systems	ES-4
Customer Service	ES-5
Partner Business Drivers	ES-6
Business Process Integration	ES-7
Application Server Market Forecasts	ES-9

## APPLICATION SERVER MARKET DESCRIPTION

<b>1. APPLICATION SERVER MARKET DESCRIPTION</b>	<b>1-1</b>
1.1 Application Servers	1-1
1.1.1 Application Server Positioning	1-2
1.2 Disconnected Silos Of Applications	1-5
1.2.1 Mission Critical Functionality	1-5
1.2.2 Mainframe Environments	1-7
1.3 Distributed Computing	1-8
1.4 Web-Based Systems	1-10
1.5 E-Business Platforms	1-14
1.5.1 Business Process Management Platforms	1-14
1.5.2 Business Process Use Of Application Servers	1-16
1.5.3 Effective Control Of E-Commerce Systems	1-18
1.5.4 Web-Based E-Commerce Systems	1-19
1.6 Web Services Definition	1-20
1.7 Web Services Architecture	1-22
1.8 Distributed Service Discovery Methods	1-24
1.9 Integration With Existing Systems	1-25
1.9.1 Common Platform For Applications	1-25
1.9.2 Scalability, Performance, And Reliability	1-26
1.10 Integrated Functionality	1-27
1.11 Modular, Application Server-Based Architecture	1-28
1.12 Solutions	1-29
1.12.1 Internet Customer Relationship Management Solutions	1-30
1.13 Professional Service Capabilities	1-31
1.13.1 Systems Integrators And Web Developers	1-31
1.13.2 Expanding Market Presence	1-32
1.14 Go To Market Strategies	1-32
1.14.1 Go To Market Partnering	1-33
1.14.2 Business Imperatives	1-34

## APPLICATION SERVER MARKET FORECASTS

<b>2. APPLICATION SERVER MARKET FORECASTS</b>	<b>2-1</b>
2.1 Application Server Product Definition	2-1
2.2 Market Growth Factors	2-3
2.3 Application Segments	2-4
2.4 Application Server Market Shares	2-6
2.4.1 Application Server Market Shares	2-6
2.5 Application Server Market Forecasts	2-11
2.5.1 Complexity Of Integrating	2-13
2.5.2 Application Server Installed Base and Unit Shipments	2-14
2.5.3 Consistent Model For Both Enterprise Application	2-21
2.6 Application Server Regional Analysis	2-22

## APPLICATION SERVER PRODUCT DESCRIPTION

<b>3. APPLICATION SERVER PRODUCT DESCRIPTION</b>	<b>3-1</b>
3.1 Distributed Multi-Tier Applications	3-1
3.2 Application Servers Used To Develop Applications	3-2
3.3 IBM WebSphere	3-3
3.3.1 IBM WebSphere Application Server Java 2 Enterprise Edition (J2EE) Technology	3-5
3.3.2 WebSphere Build-To Integrate Platform	3-7
3.3.3 WebSphere Integrated Application Development	3-7
3.3.4 WebSphere Intelligent End-To-End Optimization	3-8
3.3.5 WebSphere Support For Flexible Configurations	3-9
3.3.6 WebSphere Web Services Positioning	3-10
3.3.7 WebSphere Positioned to Increase Productivity	3-12
3.3.8 IBM WebSphere Integration Infrastructure	3-13
3.3.9 IBM Websphere B2B Integrator	3-14
3.3.10 WebSphere Dynamic Web Site Positioning	3-16
3.3.11 WebSphere Software Platform	3-19
3.3.12 IBM WebSphere Edge Server	3-20
3.3.13 IBM WebSphere Partner Agreement Manager	3-20
3.3.14 IBM WebSphere Security	3-22
3.3.15 IBM Mainframes	3-23
3.4 BEA WebLogic Server	3-24
3.4.1 BEA Application Servers	3-26
3.4.2 BEA WebLogic Platform Advantages	3-29
3.4.3 BEA Standards Compliance	3-32
3.4.4 BEA Graphical Tool	3-33
3.4.5 BEA Compilation Utility	3-33
3.4.6 BEA Security Framework	3-33
3.4.7 Wizard-Based Deployment	3-34
3.4.8 Robust Administration	3-35
3.4.9 Network Interface Cards	3-36
3.4.10 BEA Web Services	3-37
3.4.11 J2EE Connector Architecture	3-37
3.4.12 Pluggable Messaging	3-38
3.4.13 BEA WebLogic jCOM	3-38
3.4.14 BEA WebLogic RMI / IIOP	3-39
3.4.15 Mainframe Quality Of Service (QoS)	3-41
3.4.16 Value-Added Features	3-41
3.4.17 BEA Weblogic Enterprise	3-42
3.4.18 BEA Weblogic Express	3-42
3.4.19 BEA Tuxedo	3-42
3.4.20 BEA WebLogic Log Central	3-44

3.4.21	BEA Jolt	3-47
3.4.22	BEA WebLogic M-Commerce	3-49
3.5	Sybase	3-50
3.5.1	Sybase iAnywhere M-Business Studio / Wireless	3-52
3.5.2	Sybase EAServer	3-52
3.5.3	Sybase / Financial Fusion	3-53
3.5.4	Financial Fusion Finance Platform	3-53
3.5.5	Sybase E-Business	3-55
3.5.6	Sybase Application Vantage	3-56
3.5.7	Sybase OptimalFlow	3-57
3.5.8	Sybase Open Architecture	3-58
3.5.9	Sybase EAServer Business Transformation	3-59
3.5.10	Sybase Web Services Strategy	3-60
3.6	Fujitsu Objectstar	3-61
3.6.1	Fujitsu Objectstar Legacy Integration	3-61
3.6.2	ObjectStar E-Commerce Products	3-61
3.6.3	ObjectStar Positioning	3-66
3.6.4	ObjectStar Architecture	3-66
3.6.5	ObjectStar Operational Components	3-67
3.6.6	ObjectStar Key Features	3-68
3.7	Sun Microsystems	3-69
3.7.1	Sun ONE Application Server	3-70
3.7.2	Multi-Process, Multi-Threaded Architecture	3-72
3.7.3	Enterprise And Business-To-Business Integration	3-73
3.7.4	Sun One Application Server Visualcafé	3-74
	3.7.5 SUN Microsystems Sun ONE Application Server Companion Products	3-74
	3.7.6 Sun ONE Application Server and Sun ONE Web Server Key Features and Benefits	3-76
3.7.7	Sun ONE Application Server Core Services	3-78
3.7.8	Sun ONE Application Server Process Management Services	3-79
3.7.9	Sun Free Application Server Strategy	3-80
3.7.10	Sun Application Server Product Perspective	3-81
3.7.11	Web Application Development	3-82
3.7.12	EJB Development	3-83
3.8	Iona's Middleware	3-86
3.8.1	Iona iPortal Application Server	3-87
3.8.2	Iportal Application Server Benefits	3-87
3.8.3	Architecture Of The iPortal Application Server	3-88
3.8.4	IONA iPortal Application Server Features	3-89
3.8.5	Portal Application Server Infrastructure	3-92
3.8.6	IONA's Orbix E2A Benefits	3-94
3.9	ATG	3-95
3.9.1	ATG Dynamo Application Server	3-95
3.9.2	ATG Third Generation Web Application Builder	3-97
3.9.3	ATG Dynamo Rapid Application Development	3-100
	3.9.4 ATG Dynamo Application Server High-Performance Platform	3-101
3.9.5	ATG Flexible, Highly Extensible, Component-Based Framework	3-103
3.9.6	ATG Wireless Support	3-104
3.9.7	ATG Transaction Application Management	3-104
3.9.8	ATG Dynamo Business Integrator	3-106
3.9.9	ATG Dynamo Business Integrator Benefits	3-106
3.9.10	ATG Dynamo Application	3-108
3.9.11	ATG Dynamo Application Server Open-Architecture	3-108
3.9.12	ATG Dynamo Application Server Features and Benefits	3-109
	3.9.13 ATG Dynamo Application Server Transaction Management	3-111
	3.9.14 ATG Dynamo Application Server Scalability and Reliability	3-113
3.10	Silverstream	3-114
3.10.1	High Performance Web Services Engine	3-116
3.10.2	SilverStream eXtend Web Services	3-116

3.10.3	Enterprise Data Connectivity	3-118
3.10.4	Developer Productivity	3-119
	3.10.5 SilverStream eXtend High Availability, Performance, and Scalability	3-120
3.10.6	SilverStream eXtend Security	3-120
3.10.7	Administration APIs	3-121
3.11	BroadVision One-To-One Enterprise	3-122
3.12	Oracle	3-122
3.12.1	Oracle9i Application Server	3-124
3.12.2	Oracle9i Application Server's Web Cache	3-127
3.12.3	Oracle9i Application Server Supports JDBC	3-129
3.12.4	Apache-Based Web Server	3-129
3.12.5	Support for Java, XML, and SQL	3-129
3.12.6	Oracle9iAS Wireless	3-130
3.12.7	Oracle9i Application Server Security	3-130
3.13	Microsoft	3-131

## **APPLICATION SERVER STRATEGY**

<b>4. APPLICATION SERVER STRATEGY</b>	<b>4-1</b>
4.1 Strategy 4-1	
4.2 Application Server Positioning	4-3
4.3 Integration Application Server	4-3
4.4 B2B Commerce Technology As A Working Reality	4-3
4.5 Java Application Server	4-4
4.6 Communities Of Partners	4-5
4.7 IBM Strategy	4-5
4.7.1 WebSphere Application Development Targets Ordinary People	4-6
4.7.2 Common Development Environment Across Windows And Linux	4-7
4.7.3 IBM Partner Strategy	4-8
4.7.4 IBM Application Server Bundling	4-9
4.8 BEA Strategy	4-10
4.8.1 BEA Positions To Preserve Existing Investment In IT Systems	4-11
4.8.2 BEA Application Infrastructure Positioning	4-12
4.8.3 BEA Sales Strategy	4-13
4.9 Oracle Strategy	4-19
4.10 Transaction Automation	4-20
4.11 Asynchronous Communications Dominate	4-20
4.12 Packaged Applications	4-22
4.13 Real-Time Processing	4-23
4.14 Stateless Session Bean	4-26
4.15 Cluster	4-27
4.16 Location Transparency	4-28
4.17 Smart Proxy	4-29
4.18 Load Balancing	4-29
4.19 Process-Entity Design Pattern	4-30
4.20 Command Objects / Control Flow	4-30
4.21 Authorization Checks	4-31
4.22 Delegation	4-32
4.23 Collaborative Filtering	4-33
4.24 Site Analysis	4-33

## APPLICATION SERVER COMPANY PROFILES

<b>5. APPLICATION SERVER COMPANY PROFILES</b>	<b>5-1</b>
5.1 Art Technology Group (ATG)	5-1
5.1.1 ATG Solutions	5-1
5.1.2 ATG Strategy	5-2
5.1.3 ATG Data Anywhere Architecture	5-3
5.1.4 ATG Customers	5-4
5.2 BEA	5-4
5.2.1 BEA WebLogic E-Business Platform	5-6
5.2.2 BEA Web Services	5-6
5.2.3 BEA Core Business	5-7
5.2.4 BEA WebLogic Portal	5-9
5.2.5 BEA Customer Base	5-9
5.2.6 BEA Systems and Novell	5-10
5.2.7 BEA Product Development	5-11
5.2.8 BEA Revenue	5-11
5.3 Candle	5-13
5.3.1 Omegamon Systems Management	5-14
5.3.2 Support for IBM's WebSphere	5-15
5.3.3 Omegamon XE for WebSphere Application Server	5-16
5.3.4 WebSphere and WebSphere MQSeries Applications Monitoring	5-16
5.3.5 Managing Service Levels to Manage The Business	5-17
5.3.6 Candle Partnerships	5-17
5.4 Fujitsu	5-18
5.4.1 Fujitsu ObjectStar	5-18
5.4.2 Fujitsu Network Communications Revenue	5-19
5.4.3 Fujitsu FY2001 Third Quarter Financial Results	5-19
5.4.4 Services & Software	5-20
5.4.5 Information Processing	5-21
5.4.6 Telecommunications	5-21
5.4.7 Electronic Devices	5-22
5.5 International Business Machines (IBM)	5-22
5.5.1 IBM Revenue	5-22
5.5.2 Websphere MQ Product Family	5-24
5.5.3 IBM Middleware	5-25
5.5.4 IBM Middleware Products	5-26
5.5.5 IBM / Nortel	5-28
5.6 IONA	5-28
5.6.1 IONA Revenue	5-29
5.6.2 IONA Partnership Agreements	5-30
5.6.3 IONA Customers	5-30
5.6.4 IONA Products	5-30
5.6.5 IONA Acquires Integration from Software AG	5-31
5.7 Microsoft	5-32
5.7.1 Microsoft.Net	5-34
5.7.2 Microsoft BizTalk Server	5-35
5.8 MQSoftware	5-35
5.8.1 MQSoftware Products	5-36
5.8.2 MQSoftware Key Customers	5-37
5.8.3 MQSoftware IBM Partnership	5-37
5.8.4 MQSoftware Locations	5-37
5.9 Oracle	5-38
5.9.1 Oracle Internet Application Server	5-39

5.9.2	Oracle Revenue	5-40
5.10	RosettaNet	5-40
5.11	SilverStream Software	5-41
5.11.1	SilverStream eXtend Components	5-42
5.11.2	Silverstream Revenue	5-43
5.12	Sun Microsystems	5-43
5.12.1	Sun Business Strategy	5-44
5.12.2	Developing Network Computing Technologies	5-44
5.12.3	Internet Positioning	5-44
5.12.4	Sun Revenue	5-45
5.13	Sybase	5-46
5.13.1	Sybase Third Quarter Revenue	5-46
5.13.2	Sybase Customers	5-47
5.13.3	Sybase Products	5-47

## List of Tables and Figures

### APPLICATION SERVER EXECUTIVE SUMMARY

Table ES-1	ES-1
Application Server Market Trends	
Table ES-2	ES-3
Business Benefits of Application Servers	
Table ES-3	ES-4
Enterprise Back End System Advantages from Application Servers	
Table ES-4	ES-5
Enterprise Market Advantages from Application Servers	
Table ES-5	ES-7
Integration Targeted To B2B and Exchanges	
Table ES-6	ES-8
Business Process Integration Advantages	
Figure ES-7	ES-9
Worldwide Application Server Market Forecast, Dollars, 2002-2007	

### APPLICATION SERVER MARKET DESCRIPTION

Table 1-1	1-2
Benefits Of Distributed Computing	
Table 1-2	1-3
Back End Functionality Support	
Table 1-3	1-4
Application Server Mobile Worker Functionality Support	
Table 1-4	1-6
Transaction Mission Critical System Requirements	
Table 1-5	1-7
Transaction System Aspects	
Table 1-6	1-8
Mainframe System Limitations	
Table 1-7	1-9
Application Server Positioning	

Table 1-8	1-10
Distributed Server Applications	
Table 1-9	1-11
Types Of E-Commerce Transaction Requests	
Table 1-10	1-12
Types Of Distributed Computer transactions	
Table 1-11	1-13
Reasons Web Sites Gather Information About Users	
Table 1-12	1-15
Benefits Of Business Process Management Products	
Table 1-13	1-18
Effective Control Of E-Commerce Systems	
Table 1-14	1-22
Web Services Common Set Of Standard Protocols	
Table 1-15	1-23
Web Services Architecture	
Table 1-16	1-28
Modular, Application Server-Based Architecture Solutions	
Table 1-17	1-29
Application Server Solutions	

**APPLICATION SERVER MARKET FORECASTS**

Table 2-1	2-1
Application Server Primary Functions	
Table 2-2	2-3
Applications Server Market Positioning	
Table 2-3	2-4
Market Driving Forces for Applications Servers	
Table 2-4	2-5
E-Commerce Target Markets	
Figure 2-5	2-7
Application Server Market	
Table 2-6	2-8
Application Server Market Shares, 2001	
Figure 2-7	2-12
Worldwide Application Server Market Forecast, Dollars, 2002-2007	
Table 2-8	2-13
Application Server Market Forecasts, Dollars, 2002-2007	
Figure 2-9	2-15
Worldwide Number of Application Servers Shipped Market Forecast, Units, 2002-2007	
Table 2-10	2-16
Application Server Units Shipped Forecasts, New and Replacement, 2002-2007	
Figure 2-11	2-17
Worldwide Application Server New and Replacement Market Segments, 2001	
Figure 2-12	2-18
Worldwide Application Server New and Replacement Market Segments, 2007	
Figure 2-13	2-19
Global Application Server Units Installed, Market Forecast, 2002-2007	
Table 2-14	2-20
Application Server Market Penetration Forecasts, 2002-2007	
Figure 2-15	2-21
Worldwide Application Server Market Penetration Market Forecasts, 2002-2007	

## APPLICATION SERVER PRODUCT DESCRIPTION

Table 3-1	3-1
Application Server System Uses	
Table 3-2	3-2
Application Server Product Positioning	3
Table 3-3	3-4
WebSphere Application Server Deployment Environment	
Table 3-4	3-8
WebSphere Application Server Functions	
Table 3-5	3-11
Functions Supported by Interoperability between Web services and J2EE™	
Table 3-6	3-13
WebSphere Scalability, Availability And Performance Features	
Table 3-7	3-14
IBM Integration Features	
Table 3-8	3-15
IBM HTTP Features	
Table 3-9	3-17
IBM WebSphere Platform Features	
Table 3-10	3-25
BEA WebLogic Server Benefits	
Table 3-11	3-27
BEA WebLogic Platform Functions	
Table 3-12	3-28
BEA Application Server Modules	
Table 3-13	3-29
BEA application server Positioning	
Table 3-14	3-30
BEA WebLogic Platform Advantages	
Table 3-15	3-32
BEA WebLogic Positioning For System Usability	
Table 3-16	3-40
J2EE 1.3 APIs included in BEA WebLogic Server	
Table 3-17	3-43
BEA Tuxedo Benefits	
Table 3-18	3-44
BEA WebLogic Log Central Functions	
Table 3-19	3-45
BEA WebLogic Log Central Features	
Table 3-20	3-48
BEA Jolt Functions	
Table 3-21	3-49
BEA Jolt Benefits	
Table 3-22	3-51
Sybase Application Server Functions	
Table 3-23	3-54
Financial Fusion Server Functions	
Table 3-24	3-60
Sybase Web Services Strategy	
Table 3-25	3-62
EIF Access To And From Databases	
Table 3-26	3-63

Fujitsu ObjectStar Product Portfolio Modules	
Table 3-27	3-68
ObjectStar Key Features	
Table 3-28	3-71
Sun One Application Server Features	
Table 3-29	3-75
Sun ONE Companion Products	
Table 3-30	3-77
Sun ONE Application Server Key Features and Benefits	
Table 3-31	3-84
Sun One Enterprise-Class Deployment Platform Functions	
Table 3-32	3-85
Sun One Development Environment	
Table 3-33	3-90
Iona iPortal Application Server Features	
Table 3-34	3-91
Iona iPortal Application Server Functions	
Table 3-35	3-92
iPortal Application Server Support System	
Table 3-36	3-96
Atg Dynamo Application Server Functions	
Table 3-37	3-97
ATG Dynamo Application Server Benefits	
Table 3-38	3-98
ATG Dynamo Application Server Key Features	
Table 3-39	3-100
ATG Dynamo Rapid Application Development Integration	
Table 3-40	3-101
ATG J2EE and Java Application Solutions	
Table 3-41	3-102
ATG J2EE and Java Application Functions	
Table 3-42	3-107
Native support for XML document exchange	
Table 3-43	3-111
ATG Dynamo Application Server Transaction Resources	
Table 3-44	3-115
SilverStream eXtend Application Server Business Benefits	
Table 3-45	3-117
SilverStream eXtend Application Server Standards Supported	
Table 3-46	3-123
Oracle Application Server Partners	
Table 3-47	3-124
Advantages of Tight link between the application server and the database products	
Table 3-48	3-125
Oracle9i Application Server Features	
Table 3-49	3-127
Oracle9iAS Positioning	

**APPLICATION SERVER STRATEGY**

Table 4-1	4-2
Mainstream Application Servers Strategic Positioning	
Table 4-2	4-4

Aspects Of Application Server Technology	
Table 4-3	4-7
People Needing Tools To Implement Web Systems	
Table 4-4	4-14
Types Of BEA Strategic Alliances	
Table 4-5	4-16
BEA ISV Solution Providers	
Table 4-6	4-21
Distributed Transaction Functions	
Table 4-7	4-22
Buy Or Build Decision	
Table 4-8	4-24
B2B Application Server Quantifiable Business Benefit	
Table 4-9	4-24
Trading Exchange Positioning	
Table 4-10	4-25
Integrated e-Market Benefits	
Table 4-11	4-34
Portal Functions	

**APPLICATION SERVER COMPANY PROFILES**

Table 5-1	5-8
BEA Core Business	
Table 5-2	5-24
Base Mission Critical Messaging Functions	
Table 5-3	5-26
IBM Middleware Solutions	
Table 5-4	5-42
SilverStream eXtend integrated components	

**ABOUT THE COMPANY**

**WINTERGREEN RESEARCH**, FOUNDED IN 1985, PROVIDES STRATEGIC MARKET ASSESSMENTS IN TELECOMMUNICATIONS, COMMUNICATIONS EQUIPMENT, HEALTH CARE, AND ADVANCED COMPUTER TECHNOLOGY. INDUSTRY REPORTS FOCUS ON OPPORTUNITIES THAT WILL EXPAND EXISTING MARKETS OR DEVELOP MAJOR NEW MARKETS. THE REPORTS ASSESS NEW PRODUCT AND SERVICE POSITIONING STRATEGIES, NEW AND EVOLVING TECHNOLOGIES, AND TECHNOLOGICAL IMPACT ON PRODUCTS, SERVICES, AND MARKETS. 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.

**ABOUT THE PRINCIPAL AUTHORS**

**ELLEN T. CURTISS**, TECHNICAL DIRECTOR, CO-FOUNDER OF WINTERGREEN RESEARCH, CONDUCTS STRATEGIC AND MARKET ASSESSMENTS IN TECHNOLOGY-BASED INDUSTRIES. PREVIOUSLY SHE WAS A MEMBER OF THE STAFF OF ARTHUR D. LITTLE, INC., FOR 23 YEARS, MOST RECENTLY AS VICE PRESIDENT OF ARTHUR D. LITTLE DECISION RESOURCES, SPECIALIZING IN STRATEGIC PLANNING AND MARKET DEVELOPMENT SERVICES. SHE IS A GRADUATE OF BOSTON UNIVERSITY AND THE PROGRAM FOR MANAGEMENT DEVELOPMENT AT HARVARD GRADUATE SCHOOL OF BUSINESS ADMINISTRATION. SHE IS THE AUTHOR OF RECENT STUDIES ON WORLDWIDE TELECOMMUNICATIONS MARKETS, THE TOP TEN INTERNET EQUIPMENT COMPANIES, THE TOP TEN CONTRACT MANUFACTURING COMPANIES, AND THE TOP TEN TELECOMMUNICATIONS MARKET ANALYSIS AND FORECASTS.

**SUSAN EUSTIS**, PRESIDENT, CO-FOUNDER OF WINTERGREEN RESEARCH, 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 REGIONAL BELL OPERATING COMPANIES' 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.

ORDER FORM

Return To: WinterGreen Research, Inc.

6 Raymond Street

Lexington, MA 02421 USA

Phone: (781) 863-5078 --- Fax: (781) 863-1235 or (781) 860-0897

PLEASE ENTER MY ORDER FOR:

Application Server Market Shares, Market Opportunities, Market Strategies, and Market Forecasts, 2002-2007

-ALL REPORTS ARE AVAILABLE IN EITHER PRINT OR PDF-

PDF PRINT

ENCLOSED IS MY CHECK FOR \$2,800 FOR SINGLE COPY, \$3,800 FOR WEB SITE POSTING

PLEASE BILL MY COMPANY USING P.O. NUMBER

PLEASE CHARGE MY MASTERCARD/VISA/AMERICAN EXPRESS

CARD NUMBER EXP. DATE

If charging to a Credit card you may e-mail the order form, but not the card information

Fax or Call with credit card information - Do not send card number as e-mail - You may send the order as e-mail

ADDITIONAL COPIES, @ \$375 (EXTRA COPY PRICE IN EFFECT ONLY WITH INITIAL ORDER)

NAME TITLE

SIGNATURE

COMPANY DIVISION

ADDRESS

CITY STATE / ZIP

TELEPHONE

FAX

EMAIL

PLEASE NOTE: RESIDENTS OF MASSACHUSETTS AND CONNECTICUT MUST INCLUDE APPROPRIATE SALES TAX
SUBSCRIBERS OUTSIDE THE UNITED STATES MUST PROVIDE PREPAYMENT IN U.S. FUNDS