

WINTERGREEN RESEARCH, INC.

**Identity Resolution, Identity Authentication, and Identity
Management Market Opportunities, Strategies, and Forecasts,
2006 to 2012**

Identity Resolution, Authentication, and Management



Picture by Susie Eustis

MOUNTAINS OF OPPORTUNITY

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

www.wintergreenresearch.com

REPORT # SH29821446 519 PAGES 213 TABLES AND FIGURES 2006 \$2,800

CHECK OUT THESE KEY TOPICS

ANONYMOUS IDENTITY RESOLUTION
FEDERATED IDENTITY MANAGEMENT SERVICES
Key Drivers In The Internet Security Marketplace
Identity Resolution, Authentication, and Management Market
Analysis

Serious Threats In Internet Environment

Identity Security System Issues and Aspects

USES OF INTERNET SECURITY

DIGITAL IDENTITY MANAGEMENT MIDDLEWARE

IDENTITY AND ACCESS MANAGEMENT

BUSINESS SOLUTION AREAS

INFRASTRUCTURE SOLUTION AREAS

SIEGE PROBLEM

DIRECTORY SERVICES

IDENTITY ADMINISTRATION SOLUTIONS

HOST SINGLE SIGN-ON

IDENTITY SECURITY PRODUCTS

OPPORTUNITY ABOUNDS

WinterGreen Research, Inc.

Lexington, Massachusetts

www.wintergreenresearch.com

Identity Resolution, Identity Authentication, and Identity Management Market Opportunities, Market Forecasts, and Market Strategies, 2006-2012

Identity resolution, authentication, and management is a broad market with significant variation between the types of products offered. Middleware is implemented in federated and application specific systems.

The ability to identify fraudulent people proactively is an emerging issue tackled with identity resolution suites. The technology to implement identity resolution is also useful for business analysis of transaction objects. The ability to create correlations, at high speed, between similar objects is fundamental to the next stage of business process management.

Middleware is needed for digital identity management because it leaves the information in place and operates on it there. The ability to move information from one place to another for analysis is good, but the accuracy of information is best assured by leaving it where it is gathered originally.

Digital identity management software enables companies to share and compare information with other companies or government agencies without identifying the people connected to it. The software for anonymous resolution enables companies or government agencies to share personal information on customers or citizens without identifying them.

The software converts data on a person into a string of random characters, using a one-way hash function technique. No names, addresses or Social Security numbers re embedded within the character string. The strings are fed through a program to detect a matching pattern of characters.

Critical components of identity and access management include identity resolution, Web and host single sign-on, user provisioning, advanced and legacy authentication, public key infrastructure, and directory services. Full suites comprise solutions that include directory services, provisioning, secure access/authentication and, federated identity elements.

The market forecasts for 2005-2011, in the worldwide identity and access management market, is expected to double by the year 2011.

Companies Profiled

Market Leaders

IBM
Computer Associates
Novell

Market Participants

ActivCard	Advanced VoIP Pvt Ltd
Alcatel	Alepo
Beta Systems	Blue Ridge Networks
Bluesocket	Bridgewater Systems
Cisco Systems	Ericsson
Factor3	Funk Software
Fujitsu	Huawei Technologies
Intel	Interlink Networks
Language Analysis Systems	Lucent Technologies
Meetinghouse	Microsense
Nexidia	Nortel
PEC CardSaver Software	Rodopi Software
RSA Security	Siemens
Soundex System	Spotngo
Tri-Sector Technologies Group	UTStarcom
Visual Analytics	

Identity Resolution, Identity Authentication, and Identity Management Strategies and Forecasts, 2006-2012

REPORT METHODOLOGY

THIS IS THE 270TH REPORT IN A SERIES OF MARKET RESEARCH REPORTS THAT PROVIDE FORECASTS IN COMMUNICATIONS, TELECOMMUNICATIONS, THE INTERNET, COMPUTER, SOFTWARE, TELEPHONE EQUIPMENT, HEALTH EQUIPMENT, AND ENERGY. 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. WE ESTABLISH ACCURATE MARKET FORECASTS BASED ON ECONOMIC AND MARKET CONDITIONS AS A BASE. USE INPUT/OUTPUT RATIOS, FLOW CHARTS, AND OTHER ECONOMIC METHODS TO QUANTIFY DATA. USE IN-HOUSE ANALYSTS WHO MEET STRINGENT QUALITY STANDARDS. INTERVIEWING KEY INDUSTRY PARTICIPANTS, EXPERTS AND END-USERS. OUR RESEARCH INCLUDES ACCESS TO LARGE PROPRIETARY DATABASES. LITERATURE SEARCH INCLUDES ANALYSIS OF TRADE PUBLICATIONS, GOVERNMENT REPORTS, AND CORPORATE LITERATURE.

YOU MUST HAVE THIS STUDY

Identity Resolution, Identity Authentication, and Identity Management Market Opportunities, Strategies, and Forecasts, 2006 to 2012

Table of Contents

IDENTITY RESOLUTION, IDENTITY AUTHENTICATION, AND IDENTITY MANAGEMENT EXECUTIVE SUMMARY

IDENTITY RESOLUTION, IDENTITY AUTHENTICATION, AND IDENTITY MANAGEMENT EXECUTIVE SUMMARY	ES-1
Anonymous Identity Resolution	ES-3
Federated Identity Manager Services	ES-6
Identity Resolution, Identity Authentication, and Identity Management Market Analysis	ES-10

INTERNET SECURITY MARKET DESCRIPTION

1. INTERNET SECURITY IDENTITY MARKET DESCRIPTION	1-1
1.1 Key Drivers In The Internet Security Marketplace	1-1
1.1.1 Applications Drive the Internet Security Marketplace	1-1
1.1.2 Internet Security Market Segments	1-2
1.2 Serious Threats In Internet Environment	1-3
1.2.1 Need for Application Intelligence	1-4
1.2.2 Defense Strategies for Application-Level Security	1-5
1.2.3 Validate Compliance to Standards	1-6
1.2.4 Control Application-Layer Operations	1-6
1.3 Identity Security System Issues And Aspects	1-7
1.3.1 Securing Data Resources	1-7
1.4 Mainframe Clustered Systems As the Model For Internet Security Systems	1-10
1.5 Uses Of Internet Security	1-11
1.6 Identity Security Products	1-13
1.7 Information As A Service	1-14
1.8 Service-Oriented Architecture (SOA) Unlocks The Business Value	1-22
1.8.1 Aligning Business Process And Technology	1-22
1.8.2 Business Process Challenges	1-23
1.8.3 Business Environment	1-23
1.9 Service Oriented Architecture (SOA) Ability To Transform Business	1-24
1.9.1 Service-Oriented Architecture Works By Abstracting Business Processes	1-24
1.10 Layers of Application Integration	1-25
1.11 Web Services Positioning	1-32
1.12 Business Imperatives	1-33
1.13 E-Business Platforms	1-34
1.14 Syndication As a Business Model	1-35
1.15 Business Process Management Platforms	1-36
1.16 Business Processes Use Web Services	1-38
1.17 Customer-Centric, Agile Enterprise	1-39
1.18 Managing Transactions in a Distributed Environment	1-40

1.19	Exchanging Information	1-43
1.20	Application Building	1-43
1.21	Software And Platform Interoperability	1-44
1.21.1	Role Of Distributed Transaction Processing	1-44
1.21.2	Transaction-Processing Solution	1-46
1.22	Internet Revolution	1-46
1.23	Business Requirements For Information Security	1-47
1.24	Network Context	1-51
1.25	Siege Problem	1-53
1.26	Internet Commerce	1-54
1.27	Telecommuting	1-56
1.28	Types Of Networks	1-58
1.29	Internet And Intranet Strategy	1-61

IDENTITY RESOLUTION, IDENTITY AUTHENTICATION, AND IDENTITY MANAGEMENT MARKET SHARES AND MARKET FORECASTS

2. IDENTITY RESOLUTION, IDENTITY AUTHENTICATION, AND IDENTITY MANAGEMENT MARKET SHARES AND MARKET FORECASTS	2-1
2.1 Digital Identity Management Middleware	2-1
2.1.1 Identity Resolution, Identity Authentication, and Identity Management Market Driving Forces	2-3
2.2 Identity Resolution, Identity Authentication, and Identity Management Market Analysis	2-6
2.2.1 Identity Resolution, Identity Authentication, and Identity Management Market Shares	2-6
2.2.2 Identity Resolution, Identity Authentication, and Identity Management Total Market Forecasts	2-11
2.2.3 Identity and Access Management Server Market Shares	2-14
2.2.4 Single Sign On Market Shares	2-17
2.2.5 Token Identity Authentication Market Shares	2-21
2.2.6 Identity Directory Market Shares	2-29
2.2.7 Enterprise AAA Radius Market Shares	2-37
2.2.8 Carrier Service Provider AAA Radius Market Shares	2-45
2.2.9 Identity Resolution Market Shares	2-53
2.2.10 Identity Directory Market Shares	2-61
2.2.11 Federated Identity Market Shares	2-69
2.3 Federated Identity	2-79
2.4 IBM Tool Masks Shared Data	2-80
2.5 Identity Directory	2-82
2.6 Identity Entity Resolution	2-83
2.7 Directory Identity Services	2-90
2.8 Identity And Access Management	2-90
2.8.1 Computer Associates Identity And Access Management	2-90
2.9 Host Single Sign-On	2-93
2.10 Provisioning User Lifecycle Account Management	2-93

IDENTITY RESOLUTION, IDENTITY AUTHENTICATION, AND IDENTITY MANAGEMENT PRODUCT DESCRIPTION

3. IDENTITY RESOLUTION, IDENTITY AUTHENTICATION, AND IDENTITY MANAGEMENT PRODUCT DESCRIPTION	3-1
3.1 Computer Associates	3-1
3.1.1 Identity Access	3-3
3.1.2 eTrust SiteMinder	3-4

3.1.3	eTrust® Access Control	3-5
3.1.4	eTrust® Identity and Access Management	3-6
3.1.5	Identity Manager	3-10
3.1.6	Identity Manager / Netegrity	3-15
3.2	Identity Resolution, Identity Authentication, Identity Management, and Identity Access	3-15
3.2.1	IBM Identity Resolution Entity Analytic Solutions	3-16
3.2.2	IBM DB2 Entity Analytic Solutions / DB2 Data Management Software	3-16
3.2.3	IBM DB2 EAS Products	3-20
3.2.4	IBM DB2 Entity Analytic Anonymous Resolution	3-22
3.2.5	IBM EAS Middleware Enhances Privacy and Increases Security	3-25
3.2.6	IBM DB2 Anonymous Resolution Entity Analytic Solutions (EAS)	3-27
3.2.7	IBM DB2 EAS Pre-Processing One-Way Hash	3-29
3.2.8	Components To The IBM DB2 EAS Anonymous Resolution Solution	3-30
3.2.9	IBM DB2 Anonymous Resolution Methodology Functions	3-32
3.2.10	IBM DB2 Anonymous Relationship Resolution Resolver Site	3-34
3.2.11	IBM DB2 Anonymous Identity Resolution	3-35
3.2.12	IBM DB2 Anonymous Identity Resolution Single Organization Deployment	3-36
3.2.13	IBM DB2 Anonymous Identity Resolution Multi Organization Deployment	3-36
3.2.14	IBM DB2 Anonymous Resolution Security, Auditability, and Control	3-37
3.2.15	IBM DB2 Anonymous Identity Resolution Components	3-42
3.2.16	IBM DB2 Entity Analytics Security, Auditability, And Control	3-49
3.2.17	Language Analysis Systems	3-50
3.2.18	Language Analysis Systems Suite Of Products	3-56
3.2.19	Language Analysis Systems NameParser	3-57
3.2.20	Language Analysis Systems NameClassifier	3-57
3.2.21	Language Analysis Systems NameHunter	3-58
3.2.22	Language Analysis Systems MetaMatch	3-58
3.2.23	Language Analysis Systems Name Reference Library	3-58
3.2.24	Language Analysis Systems Name Reference Library	3-58
3.2.25	Language Analysis Systems NameGenderizer	3-58
3.2.26	Soundex System	3-59
3.2.27	Factor3 Technologies	3-59
3.2.28	Factor3 F3BAM	3-61
3.2.29	Factor3 Productivity And Compliance Products	3-63
3.2.30	Intelligent Search Technology	3-63
3.2.31	Nexidia	3-65
3.3	Directory Services As An Identity Management Foundational Technology	3-66
3.3.1	Novell Security and Identity	3-67
3.3.2	Novell e-Directory	3-68
3.3.3	Microsoft Active Directory	3-71
3.4	Federated Identity Managers	3-72
3.4.1	IBM Tivoli Federated Identity Manager	3-73
3.4.2	IBM Tivoli Federated Identity Manager Services	3-75
3.4.3	IBM Tivoli Federated Identity Manager Simplified Integration	3-79
3.4.4	IBM Tivoli Federated Identity Manager User Identification Lifecycle Management	3-81
3.4.5	HP OpenView Identity Management	3-84
3.4.6	RSA Federated Identity and Access Management	3-85
3.5	Identity Administration Solutions	3-86
3.5.1	RSA Security Two-Factor Authentication	3-86
3.5.2	RSA Authentication Manager Software	3-88
3.5.3	RSA Security Application Program Interfaces	3-91
3.5.4	RSA Identity Administration Solution	3-92

3.5.5	RSA Security Xellerate® Identity Manager	3-92
3.6	Authentication and Remote Authentication Dial-In User Service (RADIUS) Server Products	3-96
3.6.1	RSA SecurID Authentication	3-96
3.6.2	RSA Authenticators	3-98
3.6.3	RSA Integration	3-98
3.6.4	Cisco Aironet	3-99
3.6.5	Cisco Network EAP or Open Authentication with EAP	3-99
3.6.6	Cisco Client Authentication Methods	3-99
3.6.7	Cisco Radius Message Transmission	3-100
3.6.8	Funk Software Steel-Belted Radius	3-100
3.6.9	Funk Software Steel-Belted Radius Functions	3-103
3.6.10	Funk Software Steel-Belted Radius Allows Administrators To Centralize The Authentication Of All Users	3-104
3.6.11	Funk Software 802.1X-Based Infrastructure	3-105
3.6.12	Funk Software Steel-Belted Radius Features and Functionality	3-105
3.7	Interlink Networks AAA RADIUS Server	3-109
3.7.1	Interlink Wireless LAN	3-109
3.7.2	Interlink LucidLink™ Secures 802.1x Wireless LAN	3-115
3.7.3	Interlink LucidLink Enterprise-Class Wireless Security for Small Business	3-115
3.8	Lucent	3-116
3.8.1	Lucent NavisRadius™ Authentication Server for Service Providers	3-117
3.9	Alcatel	3-124
3.9.1	Bridgewater Providing OEM Radius Server for Alcatel SSC	3-126
3.10	Siemens Wireless Portfolio (WLAN) Depends on Radius Server	3-127
3.10.1	Siemens Enables Service Provider And Enterprise Mobility Access Management	3-129
3.10.2	Siemens Enterprise HiPath Wireless Controller	3-129
3.10.3	Siemens Enterprise HiPath Wireless Convergence Software	3-130
3.10.4	Siemens Wireless Access Points	3-130
3.11	Bridgewater Radius Products	3-131
3.11.1	Bridgewater Systems, A Leading Developer Of Subscriber-Centric Policy Management Software For IP-Based Services	3-133
3.11.2	Bridgewater Systems Supports Verizon Wireless V CAST Wireless Broadband Multimedia Service	3-133
3.12	Alepo RADIUS and AAA Billing Solutions	3-134
3.12.1	Alepo Radius Reliability And Scalability	3-135
3.12.2	Alepo Radius Web Based Administration	3-136
3.12.3	Alepo Radius Support For The Latest RFCs	3-136
3.12.4	Alepo Smart Radius Servers	3-138
3.12.5	IBM Radius Authorization Policy	3-138
3.13	Microsoft Remote Authentication Dial-In User Service (RADIUS)	3-139
3.13.1	Microsoft Internet Authentication Service	3-140

IDENTITY TECHNOLOGY BY INDUSTRY

4. IDENTITY TECHNOLOGY BY INDUSTRY	4-1
4.1 Business Solution Areas	4-1
4.1.1 Business Intelligence (BI)	4-1
4.1.2 Customer Relationship management (CRM)	4-1
4.1.3 Enterprise Resource Planning (ERP)	4-1
4.1.4 Product Lifecycle Management (PLM)	4-1
4.1.5 Supply Chain Management (SCM)	4-2
4.2 Infrastructure Solution Areas	4-2
4.2.1 Digital Media	4-2

4.2.2	Linux-Based Solutions	4-2
4.2.3	Security And Business Resilience	4-2
4.2.4	Wireless	4-2
4.3	IBM DB2 Anonymous Resolution Law Enforcement	4-3
4.3.1	IBM DB2 Federal Government Anonymous Resolution	4-4
4.3.2	LAS Intelligence Identity Processing	4-5
4.3.3	LAS Name Recognition Intelligence Capabilities	4-8
4.3.4	LAS Intelligence Community And Federal Government	4-8
4.3.5	LAS Law Enforcement Systems	4-9
4.3.6	LAS Law Enforcement for FBI Wanted Individuals	4-11
4.3.7	LAS Precision Name Recognition For Homeland Security	4-13
4.4	Data Marketing: Getting the Name Right Increases ROI	4-14
4.4.1	Financial Institution Identity Compliance	4-17
4.4.2	Financial Institution Multi-Cultural Name Recognition Products	4-17
4.4.3	Name Matching Bank Technology Software	4-21
4.4.4	Banks Screen Out Unwanted Clients	4-23
4.5	IBM DB2 Anonymous Resolution Health Care	4-25
4.5.1	IBM DB2 Anonymous Resolution Operational Process For A Health Care Study	4-26
4.6	Extending the Utility of Existing One-Way Hashing	4-28
4.6.1	Input Text Hashed Value	4-29
4.6.2	IBM DB2 Anonymous Resolution for ISP's (Internet Service Providers)	4-30
4.7	Lightweight Directory Access Protocol (LDAP)	4-30

IDENTITY RESOLUTION, IDENTITY AUTHENTICATION, AND IDENTITY MANAGEMENT COMPANY PROFILES

5. IDENTITY RESOLUTION, IDENTITY AUTHENTICATION, AND IDENTITY MANAGEMENT COMPANY PROFILES	5-1	
5.1	ActivCard	5-1
5.1.1	ActivCard Revenue	5-3
5.1.2	ActivCard / Protocom	5-5
5.2	Advanced VoIP Pvt Ltd	5-6
5.3	Alcatel	5-6
5.3.1	Alcatel Positioning	5-10
5.3.2	Alcatel Market Issues	5-10
5.3.3	Alcatel Multi-service Aggregation	5-13
5.3.4	Alcatel Broadband Access	5-14
5.3.5	Alcatel-To-End Communications Solutions	5-15
5.3.6	Alcatel VND Division	5-15
5.3.7	Alcatel Net Sales 2003	5-16
5.3.8	Alcatel Third Quarter 2004 Revenue	5-17
5.3.9	Alcatel Fixed Communications	5-20
5.3.10	Alcatel Mobile Communications	5-21
5.3.11	Alcatel Private Communications	5-22
5.3.12	Alcatel Third Quarter 2004 Regional Revenue	5-23
5.3.13	Third Quarter 2003 Regional Revenue	5-24
5.3.14	Alcatel Participation In Communications Network Equipment Markets	5-26
5.3.15	Alcatel Metro DWDM	5-27
5.3.16	Alcatel and Optics	5-30
5.4	Alepo	5-32
5.4.1	Alepo Customers	5-32
5.5	Beta Systems	5-34
5.6	Blue Ridge Networks	5-35

5.7	Bluesocket	5-36
5.8	Bridgewater Systems	5-38
5.9	Cisco Systems	5-38
5.9.1	Cisco IP Communications	5-39
5.9.2	Cisco Systems Second Quarter Fiscal Year 2005 Revenue	5-39
5.9.3	Cisco IP Communications	5-44
5.9.4	Cisco / Linksys	5-44
5.9.5	Cisco / Linksys Broadband and Wireless Networking	5-47
5.10	Computer Associates	5-50
5.11	Ericsson	5-51
5.11.1	Ericsson Revenue	5-51
5.11.2	Ericsson Customers T-Mobile UMTS network	5-54
5.11.3	Sony Ericsson Mobile Communications Revenue	5-55
5.11.4	Sony Ericsson Mobile Communications Products	5-56
5.11.5	Sony Ericsson Symbian	5-57
5.12	Factor3	5-57
5.13	Funk Software	5-58
5.13.1	Funk Software Solution Customers and Partners	5-59
5.13.2	Funk Software Odyssey Product	5-59
5.13.3	Funk Software Steel-Belted Radius Product	5-60
5.13.4	Funk Software Radius/AAA Products For Remote And WLAN User Management	5-60
5.13.5	Funk Software Proxy Remote Control Solution	5-63
5.14	Fujitsu	5-64
5.14.1	Fujitsu Network Communications	5-66
5.14.2	Fujitsu Considers WiMAX vs. 3G vs. Wi-Fi	5-66
5.14.3	Fujitsu FLASHWAVE® 7500 Small System	5-66
5.14.4	Fujitsu FASST Transition Solutions	5-67
5.14.5	Fujitsu Microelectronics America	5-67
5.14.6	Fujitsu Network Communications Inc.	5-67
5.14.7	Fujitsu Revenue	5-68
5.14.8	Fujitsu Business Segment Results	5-69
5.15	Huawei Technologies	5-71
5.16	International Business Machines (IBM)	5-75
5.16.1	IBM Identity Resolution Software	5-77
5.16.2	IBM Information Management Portfolio	5-78
5.16.3	International Business Machines Revenue	5-79
5.16.4	IBM On Demand Operating Environment Architecture	5-84
5.16.5	IBM Clients	5-85
5.16.6	IBM Capabilities	5-86
5.16.7	IBM Acquires Ascential Software	5-87
5.16.8	IBM Advanced Information Technologies	5-89
5.16.9	IBM / Corio,	5-91
5.16.10	IBM Global Services	5-92
5.16.11	IBM Multi-Core Processor Architecture Design	5-92
5.16.12	IBM Technology	5-95
5.16.13	IBM 2004 Fourth-Quarter And Full-Year Revenue	5-95
5.16.14	IBM RFID Moving To Continuous Information Visibility	5-100
5.16.15	IBM RFID Strategic Alliances	5-102
5.16.16	IBM Comprehensive RFID Services	5-102
5.16.17	IBM / Ascential Software	5-104
5.17	Intel	5-106
5.17.1	Intel Communications Wi-Fi Company Investment	5-112

5.18	Interlink Networks	5-114
5.18.1	Interlink Networks Products	5-116
5.18.2	Interlink Networks Use At A Large-Scale Hotspots	5-118
5.19	Language Analysis Systems	5-120
5.19.1	LAS Commercial Products	5-121
5.19.2	Visual Analytics Partners with LAS to Bolster Data Mining of Names	5-122
5.20	Lucent Technologies	5-124
5.20.1	Lucent Technologies Maximize Service Revenues	5-125
5.20.2	Lucent Technologies Systems	5-125
5.20.3	Lucent Bell Labs	5-126
5.21	Meetinghouse	5-136
5.22	Microsense	5-137
5.23	Nexidia	5-137
5.24	Nortel	5-138
5.24.1	Nortel VoIP Network Elements	5-142
5.24.2	Nortel VoIP Enabling Technologies	5-142
5.24.3	Nortel ATM (Asynchronous Transfer Mode)	5-143
5.24.4	Nortel Networking And Communication Services And Infrastructure	5-144
5.24.5	Nortel Network Elements	5-148
5.24.6	Nortel Enabling Technologies	5-148
5.24.7	Nortel ATM (Asynchronous Transfer Mode)	5-149
5.25	Novell	5-149
5.25.1	Novell Web Services Solutions	5-152
5.26	PEC CardSaver Software	5-155
5.27	Rodopi Software	5-156
5.27.1	Rodopi Billing System	5-156
5.28	RSA Security	5-157
5.28.1	RSA Consumer Identity Protection	5-159
5.28.2	RSA Lead e-Security	5-161
5.28.3	RSA Seamless Solutions	5-162
5.28.4	RSA Path to the Future	5-162
5.29	Siemens	5-166
5.29.1	Siemens Business Services	5-166
5.29.2	Siemens Research and Development	5-167
5.29.3	Siemens Information and Communication Networks	5-167
5.29.4	Siemens Information and Communication Mobile Group	5-168
5.30	Soundex System	5-169
5.31	Spotngo	5-170
5.32	Tri-Sector Technologies Group	5-171
5.33	UTStarcom	5-172
5.33.1	UTStarcom Third Quarter 2004 Revenue	5-173
5.33.2	Key UTStarcom Customer Wins	5-174
5.33.3	UTStarcom Global Technology	5-175
5.33.4	UTStarcom Sarbanes-Oxley	5-175
5.34	Visual Analytics	5-177

List of Tables and Figures**IDENTITY RESOLUTION, IDENTITY AUTHENTICATION, AND IDENTITY MANAGEMENT
EXECUTIVE SUMMARY**

Table ES-1	ES-3
IBM DB2 Anonymous Resolution Algorithm Methodology Functions	
Table ES-2	ES-7
Identity Resolution, Identity Authentication, and Identity Management Market Driving Forces	
Table ES-3	ES-9
Identity Resolution, Identity Authentication, and Identity Management Product Benefits	
Table ES-4	ES-10
Worldwide Enterprise and Carrier AAA Radius Server License Shipments Market Shares, Dollars, 2004	
Table ES-5	ES-11
Worldwide Enterprise and Carrier AAA Radius Server License Shipments Market Shares, Dollars, 2005	
Table ES-6	ES-12
Worldwide Identity Resolution Market Forecasts, Software License and Service/Maintenance, Units and Dollars, 2005-2011	
Table ES-7	ES-13
Worldwide Identity Management Token Architecture Market Forecasts, Software License, Services, and Maintenance Dollars, 2005-2011	
Table ES-8	ES-13
Worldwide Identity and Access Management Market Forecasts, Software License and Service/Maintenance, Units and Dollars, 2005-2011	

INTERNET SECURITY MARKET DESCRIPTION

Table 1-1	1-2
Internet Security Market Segments	
Table 1-2	1-3
Internet Security Market Aspects	
Table 1-3	1-5
Defense Strategies for Application-Level Security	
Table 1-4	1-8
Network Identity Security Issues	
Table 1-5	1-9
Security System Aspects	
Table 1-6	1-11
Use Of Internet Security	
Table 1-7	1-12
Industries Using Internet Security	
Table 1-8	1-15
Information Access To Create A Service	
Table 1-9	1-16
Services Oriented Architecture To Achieve Flexible Infrastructure	
Table 1-10	1-17
Services Oriented Architecture Line Of Business Positioning	
Table 1-11	1-18
Services Oriented Architecture Business Process Efficiency	

Table 1-12	1-18
Services Oriented Architecture Business Process Challenges	
Table 1-13	1-20
Services Oriented Architecture Business Process Risk Management	
Table 1-14	1-21
Services Oriented Architecture Business Process Improvements	
Figure 1-15	1-26
EAI Infrastructure Architecture Forecast	
Figure 1-16	1-27
Layers of Application Integration	
Table 1-17	1-28
Layers of Application Integration	
Table 1-18	1-29
Application Integration Engines	
Figure 1-19	1-30
Layers Of Network Security Software	
Table 1-20	1-31
Security technologies	
Table 1-21	1-32
Web Services Back End Functionality Support	
Table 1-22	1-37
Benefits Of Business Process Management Products	
Table 1-23	1-42
Web-Based Transaction Service Requirements	
Table 1-24	1-48
Supply Chain Exchanges	
Table 1-25	1-50
Critical Network Security Needs	
Table 1-26	1-57
Types Of Telecommuting Access Needing Internet Security	
Table 1-27	1-59
Networks Requiring Security	
Table 1-28	1-60
Domains Of Network Security	
Table 1-29	1-60
Logged Session Activity Viewing Points	
Table 1-30	1-61
Organizational Challenges In The Context Of Security	

**IDENTITY RESOLUTION, IDENTITY AUTHENTICATION, AND IDENTITY MANAGEMENT
MARKET SHARES AND MARKET FORECASTS**

Table 2-1	2-3
Identity Resolution, Identity Authentication, and Identity Management Market Driving Forces	
Table 2-2	2-5
Identity Resolution, Identity Authentication, and Identity Management Product Benefits	
Figure 2-3	2-7
Worldwide Enterprise and Carrier AAA Radius Server License Shipments, Market Shares, Dollars, 2004	
Table 2-4	2-8
Worldwide Enterprise and Carrier AAA Radius Server License Shipments, Market Shares, Dollars, 2004	
Figure 2-5	2-9
Worldwide Enterprise and Carrier AAA Radius Server License Shipments, Market Shares, Dollars, 2005	

Table 2-6	2-10
Worldwide Enterprise and Carrier AAA Radius Server License Shipments, Market Shares, Dollars, 2005	
Table 2-7	2-11
Worldwide Identity Resolution Market Forecasts, Software License and Service/Maintenance, Units and Dollars, 2005-2011	
Table 2-8	2-12
Worldwide Identity Management Token Architecture Market Forecasts, Software License, Services, and Maintenance Dollars, 2005-2011	
Table 2-9	2-13
Worldwide Identity and Access Management Market Forecasts, Software License and Service/Maintenance, Units and Dollars, 2005-2011	
Figure 2-10	2-13
Worldwide Identity and Access Management Market Forecasts, Software License and Service/Maintenance, Units and Dollars, 2005-2011	
Figure 2-11	2-14
Worldwide Identity and Access Management Server License Shipments, Market Shares, Dollars, 2004	
Table 2-12	2-15
Worldwide Identity and Access Management Server License Shipments, Market Shares, Dollars, 2004	
Figure 2-13	2-16
Worldwide Identity and Access Management Server License Shipments, Market Shares, Dollars, 2005	
Table 2-14	2-17
Worldwide Identity and Access Management Server License Shipments, Market Shares, Dollars, 2005	
Figure 2-15	2-18
Worldwide Single Sign On Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Table 2-16	2-19
Worldwide Single Sign On Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Figure 2-17	2-20
Worldwide Single Sign On Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Table 2-18	2-21
Worldwide Single Sign On Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Figure 2-19	2-22
Worldwide Token Identity Authentication License Shipments, Market Shares, Dollars, 2004	
Table 2-20	2-23
Worldwide Token Identity Authentication License Shipments, Market Shares, Dollars, 2004	
Figure 2-21	2-24
Worldwide Token Identity Authentication License Shipments, Market Shares, Dollars, 2005	
Table 2-22	2-25
Worldwide Token Identity Authentication License Shipments, Market Shares, Dollars, 2005	
Figure 2-23	2-26
Worldwide Token Identity Authentication Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Table 2-24	2-27
Worldwide Token Identity Authentication Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Figure 2-25	2-28
Worldwide Token Identity Authentication Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Table 2-26	2-29
Worldwide Token Identity Authentication Maintenance and Services Shipments, Market Shares, Dollars, 2005	

Figure 2-27	2-30
Worldwide Identity Directory License Shipments, Market Shares, Dollars, 2004	
Table 2-28	2-31
Worldwide Identity Directory License Shipments, Market Shares, Dollars, 2004	
Figure 2-29	2-32
Worldwide Identity Directory License Shipments, Market Shares, Dollars, 2005	
Table 2-30	2-33
Worldwide Identity Directory License Shipments, Market Shares, Dollars, 2005	
Figure 2-31	2-34
Worldwide Identity Directory Server Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Table 2-32	2-35
Worldwide Identity Directory Server Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Figure 2-33	2-36
Worldwide Identity Directory Server Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Table 2-34	2-37
Worldwide Identity Directory Server Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Figure 2-35	2-38
Worldwide Enterprise AAA Radius Server License Shipments, Market Shares, Dollars, 2004	
Table 2-36	2-39
Worldwide Enterprise AAA Radius Server License Shipments, Market Shares, Dollars, 2004	
Figure 2-37	2-40
Worldwide Enterprise AAA Radius Server License Shipments, Market Shares, Dollars, 2005	
Table 2-38	2-41
Worldwide Enterprise AAA Radius Server License Shipments, Market Shares, Dollars, 2005	
Figure 2-39	2-42
Worldwide Enterprise AAA Radius Server Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Table 2-40	2-43
Worldwide Enterprise AAA Radius Server Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Figure 2-41	2-44
Worldwide Enterprise AAA Radius Server Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Table 2-42	2-45
Worldwide Enterprise AAA Radius Server Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Figure 2-43	2-46
Worldwide Carrier Service Provider AAA Radius Server License Shipments, Market Shares, Dollars, 2004	
Table 2-44	2-47
Worldwide Carrier Service Provider AAA Radius Server License Shipments, Market Shares, Dollars, 2004	
Figure 2-45	2-48
Worldwide Carrier Service Provider AAA Radius Server License Shipments, Market Shares, Dollars, 2005	
Table 2-46	2-49
Worldwide Carrier Service Provider AAA Radius Server License Shipments, Market Shares, Dollars, 2005	

Figure 2-47	2-50
Worldwide Carrier Service Provider AAA Radius Server Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Table 2-48	2-51
Worldwide Carrier Service Provider AAA Radius Server Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Figure 2-49	2-52
Worldwide Carrier Service Provider AAA Radius Server Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Table 2-50	2-53
Worldwide Carrier Service Provider AAA Radius Server Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Figure 2-51	2-54
Worldwide Identity Resolution License Shipments, Market Shares, Dollars, 2004	
Table 2-52	2-55
Worldwide Identity Resolution License Shipments, Market Shares, Dollars, 2004	
Figure 2-53	2-56
Worldwide Identity Resolution License Shipments, Market Shares, Dollars, 2005	
Table 2-54	2-57
Worldwide Identity Resolution License Shipments, Market Shares, Dollars, 2005	
Figure 2-55	2-58
Worldwide Identity Resolution Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Table 2-56	2-59
Worldwide Identity Resolution Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Figure 2-57	2-60
Worldwide Identity Resolution Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Table 2-58	2-61
Worldwide Identity Resolution Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Figure 2-59	2-62
Worldwide Identity Directory License Shipments, Market Shares, Dollars, 2004	
Table 2-60	2-63
Worldwide Identity Directory License Shipments, Market Shares, Dollars, 2004	
Figure 2-61	2-64
Worldwide Identity Directory License Shipments, Market Shares, Dollars, 2005	
Table 2-62	2-65
Worldwide Identity Directory License Shipments, Market Shares, Dollars, 2005	
Figure 2-63	2-66
Worldwide Identity Directory Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Table 2-64	2-67
Worldwide Identity Directory Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Figure 2-65	2-68
Worldwide Identity Directory Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Table 2-66	2-69
Worldwide Identity Directory Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Figure 2-67	2-70
Worldwide Federated Identity Management Server License Shipments, Market Shares, Dollars, 2004	
Table 2-68	2-71
Worldwide Federated Identity Management Server License Shipments, Market Shares, Dollars, 2004	
Figure 2-69	2-72
Worldwide Federated Identity Management Server License Shipments, Market Shares, Dollars, 2005	
Table 2-70	2-73
Worldwide Federated Identity Management Server License Shipments, Market Shares, Dollars, 2005	

Figure 2-71	2-74
Worldwide Federated Identity Management Server Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Table 2-72	2-75
Worldwide Federated Identity Management Server Maintenance and Services Shipments, Market Shares, Dollars, 2004	
Figure 2-73	2-76
Worldwide Federated Identity Management Server Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Table 2-74	2-77
Worldwide Federated Identity Management Server Maintenance and Services Shipments, Market Shares, Dollars, 2005	
Table 2-75	2-78
Identity Middleware Aspects:	
Table 2-76	2-84
Variability Found In Identity Data	
Table 2-77	2-86
Benefits of Anonymous Resolution	
Table 2-78	2-87
Identity Management Competitive Intelligence Issues	
Table 2-79	2-88
Risk potential	
Table 2-80	2-92
CA's eTrust Identity and Access Management Suite Functions	

**IDENTITY RESOLUTION, IDENTITY AUTHENTICATION, AND IDENTITY MANAGEMENT
PRODUCT DESCRIPTION**

Table 3-1	3-1
Computer Associates Products	
Table 3-2	3-3
Identity and Access Management Critical Components	
Table 3-3	3-6
eTrust Access Control Features	
Table 3-4	3-7
eTrust	
Table 3-5	3-8
ETrust Identity and Access Management Features	
Table 3-6	3-9
eTrust Identity and Access Management Suite Solutions	
Table 3-7	3-12
CA's e-Trust Identity and Access Management Suite	
Table 3-8	3-13
Identity Manager Features	
Table 3-9	3-17
IBM DB2 Entity Analytic Solutions (EAS) Benefits	
Table 3-10	3-18
IBM DB2 EAS Middleware Portfolio Target Markets	
Table 3-11	3-19
IBM DB2 EAS Middleware Portfolio Functions	
Table 3-12	3-21
IBM DB2 EAS Products	

Table 3-13	3-22
IBM DB2 Entity Analytic Anonymous Resolution Solution Functions	
Table 3-14	3-24
IBM DB2 Anonymous Resolution Features	
Table 3-15	3-28
IBM DB2 Anonymous Resolution Entity Analytic Solutions Aspects	
Table 3-16	3-30
Main Components To The IBM DB2 Anonymous Resolution Solution	
Table 3-17	3-32
IBM DB2 Anonymous Resolution Algorithm Methodology Functions	
Table 3-18	3-38
IBM DB2 Anonymous Resolution Technology Target Markets	
Table 3-19	3-40
IBM DB2 Anonymous Resolution Functions	
Table 3-20	3-43
IBM DB2 Anonymous Identity Resolution Component Characteristics	
Table 3-21	3-44
IBM DB2 Anonymous Identity Resolution Data Format Characteristics	
Table 3-22	3-45
IBM DB2 Anonymizer requirements	
Table 3-23	3-46
IBM DB2 Resolver requirements	
Table 3-24	3-47
IBM DB2 Anonymous Resolution Platforms	
Table 3-25	3-48
IBM DB2® Entity Analytics Support	
Table 3-26	3-51
Language Analysis Systems Target Markets	
Table 3-27	3-52
Language Analysis Systems Intelligence Community Target Markets	
Table 3-28	3-52
Language Analysis Systems Benefits	
Table 3-29	3-55
Language Analysis Systems Multiple Cultural Capabilities	
Table 3-30	3-60
Factor3 Critical Issues Addressed	
Table 3-31	3-62
Factor3 F3BAM Target Market Positioning	
Table 3-32	3-74
IBM Tivoli Federated Identity Manager Key Aspects	
Table 3-33	3-76
IBM Service-Oriented Architecture (SOA) Environment Identity Management Functions	
Table 3-34	3-77
IBM Service-Oriented Architecture (SOA) Environment Identity Management Benefits	
Table 3-35	3-78
IBM Service-Oriented Architecture (SOA) Environment Identity Management Features	
Table 3-36	3-82
IBM Tivoli Federated Identity Manager User Identification Lifecycle Management Benefits	
Table 3-37	3-83
IBM Tivoli Federated Identity Manager User Identification Lifecycle Management Services	
Table 3-38	3-87
RSA Security Two-Factor Authentication Functions	

Table 3-39	3-88
RSA Authentication Manager Software Features	
Table 3-40	3-89
RSA SecurID Authentication Manager Software Benefits	
Table 3-41	3-91
Primary/Replica Configuration Of RSA Authentication Manager Software Enables Users To Authenticate To Multiple Servers	
Table 3-42	3-94
RSA Xellerate Identity Manager Benefits	
Table 3-43	3-97
RSA Security range enterprise networks for user authentication	
Table 3-44	3-101
Funk Software Steel-Belted Radius Solution Network Functions	
Table 3-45	3-103
Funk Software Steel-Belted Radius Functions	
Table 3-46	3-106
Funk Software Steel-Belted Radius Features	
Table 3-47	3-107
Funk Software Steel-Belted Radius Functions	
Table 3-48	3-110
Interlink AAA RADIUS Server Functions	
Table 3-49	3-111
Interlink RAD-Series Features	
Table 3-50	3-113
Interlink RAD-Series Benefits	
Table 3-51	3-114
Interlink RAD-Series Advanced Control Flexibility	
Table 3-52	3-117
Lucent Security Software Benefits	
Table 3-53	3-118
Lucent NavisRadius™ Authentication Server for Service Providers Target Markets	
Table 3-54	3-119
Lucent NavisRadius Licensing Options	
Table 3-55	3-120
Lucent NavisRadius Value Description	
Table 3-56	3-121
Lucent NavisRadius Features	
Table 3-57	3-125
Alcatel Radius Server Key Benefits	
Table 3-58	3-128
Siemens Wireless Portfolio (WLAN) Radius Server Functions	
Table 3-59	3-131
Bridgewater Product Suite	
Table 3-60	3-135
Alepo RADIUS Billing Solutions Services Supported	
Table 3-61	3-137
Alepo Radius billing RADIUS RFCs Compliance	
Table 3-62	3-141
Microsoft Internet Authentication Service IAS Features	
Table 3-63	3-142
Microsoft Internet Authentication Service IAS Supported Authentication Methods	

IDENTITY TECHNOLOGY BY INDUSTRY

Table 4-1	4-4
IBM DB2 Federal Government Anonymous Resolution Sharing Locations	
Table 4-2	4-6
LAS Intelligence Identity Processing Benefits	
Table 4-3	4-10
LAS Law Enforcement Systems Key Benefits	
Table 4-4	4-12
Precision Name Recognition Mapping	
Table 4-5	4-13
LAS Precision Name Recognition For Homeland Security Features	
Table 4-6	4-15
Corporate Uses Of Personal Names	
Table 4-7	4-16
Corporate Personal Name Tracking Benefits	
Table 4-8	4-18
LAS Name Matching Technology In Financial Institutions	
Table 4-9	4-19
LAS Financial Institution Name Matching Benefits	
Table 4-10	4-22
Office of Foreign Assets Control (OFAC) regulations risks	

**IDENTITY RESOLUTION, IDENTITY AUTHENTICATION, AND IDENTITY MANAGEMENT
COMPANY PROFILES**

Table 5-1	5-2
ActivCard Principal Competitors	
Table 5-2	5-11
Alcatel Market Issues	
Table 5-3	5-12
Alcatel Positioning To Address Carrier Issues	
Table 5-4	5-13
Alcatel Strategic Network Focus	
Table 5-5	5-14
Alcatel Data Networks Positioning	
Table 5-6	5-29
Alcatel Metro DWDM Positioning	
Table 5-7	5-31
Alcatel Terrestrial Optical Networking Strategy	
Table 5-8	5-33
Alepo RBS Advantages	
Table 5-9	5-34
Beta Systems Product Positioning	
Table 5-10	5-37
Bluesocket Wireless LAN Gateway Functions	
Table 5-11	5-46
Cisco / Linksys Business Use Of Products To Enhance Productivity	
Table 5-12	5-61
Funk Software Radius/AAA Products For Remote And WLAN User Management Components	
Table 5-13	5-62
Funk Software Complete Suite Of Radius/AAA Solutions For Carriers And ISPs	

Table 5-14	5-88
Ascential Software Enterprise Data Integration Software Functions	
Table 5-15	5-90
IBM RFID Business Operations	
Table 5-16	5-94
IBM / Sony / Toshiba Cell Functions	
Table 5-17	5-108
Intel Wireless Hotspot Installations	
Table 5-18	5-141
Nortel Voice Over IP Benefits	
Table 5-19	5-143
Nortel Voice Over IP VoIP Technologies	
Table 5-20	5-147
Nortel Voice Over IP Benefits	
Table 5-21	5-150
Novell Identity Management And Web Services Solutions	
Table 5-22	5-171
Tri-Sector Technologies Group Communications Solutions	

ABOUT THE COMPANY

WINTERGREEN RESEARCH, HAS A UNIQUE RESEARCH STRATEGY THAT RELATES TO IDENTIFYING MARKET TRENDS THROUGH READING AND INTERVIEWING OPINION LEADERS. BY READING THE ELECTRONIC EQUIVALENT OF 40 FEET OF PAPER, WINTERGREEN RESEARCH SENIOR ANALYSTS CAN LEARN A LOT MORE ABOUT MARKETS, A LOT FASTER THAN CAN BE LEARNED THROUGH EXPENSIVE SURVEYS AND FOCUS GROUPS. 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.

IT IS A LUXURY REALLY, AVAILABLE TO ONLY A VERY FEW PEOPLE, TO BE ABLE TO GATHER INFORMATION, LOTS OF INFORMATION FROM READING MASSIVE AMOUNTS OF CONTENT, AND THEN TRYING TO MAKE SENSE OF THAT CONTENT. THE ABILITY TO THINK ABOUT MARKET TRENDS IS ENHANCED BY DOING IT OVER AND OVER FOR MANY DIFFERENT MARKETS. THAT IS WHAT WINTERGREEN RESEARCH IS ALL ABOUT: READING AND THINKING IS AN ESSENTIAL ASPECT OF COMPETITIVE ANALYSIS. TALKING TO OPINION LEADERS IS THE THIRD ESSENTIAL ASPECT OF PRODUCING GOOD, RELIABLE DATA.

WINTERGREEN RESEARCH, FOUNDED IN 1985, PROVIDES STRATEGIC MARKET ASSESSMENTS IN TELECOMMUNICATIONS, COMMUNICATIONS EQUIPMENT, HEALTH CARE, INTERNET AND ADVANCED COMPUTER TECHNOLOGY. INDUSTRY REPORTS FOCUS ON OPPORTUNITIES THAT 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:

Identity Resolution, Identity Authentication, and Identity Management Market Opportunities, Strategies, and Forecasts 2006-2012

-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