

Executive Summary

SUMMARY	2
MARKET OPPORTUNITY	4
Market Trends and Challenges.....	4
<i>Corporate Data Access Bottlenecks.....</i>	<i>4</i>
<i>Sustained productivity despite increased number of users</i>	<i>4</i>
TECHNOLOGY TRENDS	6
<i>Data content and size undergoing tremendous changes</i>	<i>6</i>
<i>Databases capacity growing ten-fold.....</i>	<i>6</i>
MARKET SEGMENTATION	7
Market Segmentation by Applications.....	7
NAS - past, present and future.....	9
NAS VS. SAN.....	10
MARKET FORECAST	11
WW Market for Servers and Storage Subsystems	11
Storage Networking	11
<i>Potential Storage Networking Revenue Projections.....</i>	<i>11</i>
<i>Storage Subsystems Revenues Depicted by Architecture (\$millions)</i>	<i>13</i>
<i>Total Worldwide Storage Software Market Revenue (\$ in millions)</i>	<i>15</i>
VENDOR STRATEGIES	16
High Potential Targeted Markets	16
COMPETITIVE POSITIONING.....	17
Basis of Competition.....	17
<i>Price/Performance.....</i>	<i>17</i>
<i>Support for Heterogeneous Environments/Applications.....</i>	<i>17</i>
<i>Investment Protection / Futures.....</i>	<i>18</i>
<i>Reliability, availability, Serviceability / Fault Tolerance</i>	<i>18</i>
<i>Ease of configuration and Management.....</i>	<i>18</i>
<i>Network Management</i>	<i>18</i>
Superior Price/Performance Positioning.....	18
CHANNELS OF DISTRIBUTION	20
VAR Channels	20
FUTURES.....	22
Major Trends.....	22
Five year outlook	23

Market Drivers & Dynamics

MARKET DRIVERS	3
Rapid Growth of Computer Storage	3
SAN and NAS Architectures Are Proliferating the Market.....	5
Demand Drivers	7
<i>High-End/Enterprise Applications</i>	<i>8</i>
<i>Internet.....</i>	<i>9</i>
<i>Traditional Desktop.....</i>	<i>9</i>
SAN MARKET DRIVERS & DETRACTORS	10
Interoperability	10
Applications.....	11
High Implementation Costs	12
Multibillion dollar budgets to take SAN businesses prime time.....	13
Wall Street Valuations of major SAN Players	14
Computer Storage Incorporates Many Disciplines	15
KILLER APPLICATIONS.....	15
The Growth of Data.....	15
The Focus of Storage	16
<i>Customer Needs.....</i>	<i>16</i>
The changing environment.....	16
The challenges	17
The promise of SANs.....	17
Summary.....	18
FIBRE CHANNEL VS. ETHERNET	18
<i>Multiple Technologies Are Peering into Each Other's Markets for Future Growth</i>	<i>19</i>
<i>VoIP.....</i>	<i>19</i>
<i>SoIP.....</i>	<i>19</i>
The Reality of a Homogenous Network	19
<i>Storage Networking Technologies and Availability.....</i>	<i>19</i>
<i>Historical Perspectives.....</i>	<i>20</i>
The Future.....	21
<i>SCSI, Fibre Channel vs. iSCSI.....</i>	<i>21</i>
<i>Clustering: VI & Infiniband</i>	<i>21</i>
<i>SAN vs. NAS.....</i>	<i>21</i>
COMPETITIVE TECHNOLOGIES: SCSI VS. FC VS. ISCSI.....	22
FC Storage vs. IP Storage	22
<i>Fibre Channel Helps Resolve I/O Constraints</i>	<i>22</i>
<i>Fibre Channel Moves Data More Quickly</i>	<i>24</i>
<i>SCSI And Fibre Channel Comparisons</i>	<i>24</i>
<i>Fibre Channel Traverses Greater Distances</i>	<i>24</i>
Fibre Channel versus Ethernet.....	25
<i>Fibre Channel Components.....</i>	<i>25</i>
<i>Ethernet's TCP/IP Started Out Servicing Government</i>	<i>25</i>
<i>Ethernet Is Cumbersome</i>	<i>25</i>
The Potential Swing Vote	27
<i>EMC Moves</i>	<i>28</i>
<i>EMC's Fibre Channel History.....</i>	<i>28</i>
IP Storage	31
<i>Cisco/Brocade Partnership at Odds</i>	<i>31</i>
<i>Cisco's Acquisition of NuSpeed & Andiamo</i>	<i>32</i>
<i>iSCSI vs. FCIP vs. iFCP</i>	<i>32</i>
Defining SAN	33
Customer Focus.....	34
<i>Low Cost of Management.....</i>	<i>34</i>
<i>High Availability.....</i>	<i>35</i>
<i>Fast Data Transmission.....</i>	<i>35</i>
<i>Heterogeneous Connectivity and File Sharing</i>	<i>36</i>

Any-to-Any Connectivity.....	36
SAN's Killer Application: Serverless and LANless Backup.....	36
Scalability.....	37
The SAN Brain.....	37
Application Servers.....	37
Storage Subsystems.....	37
Dedicated Servers.....	37
Networking Equipment.....	38
SAN Adoption.....	38
SAN AND NAS CONVERGENCE.....	39
Data-Centric Architectures.....	39
Defining NAS.....	39
When NAS Is Scaled, It Becomes a SAN.....	41
SANS Also Enable Disk Mirroring for NAS.....	42
EMC's Celerra NAS Server Is a SAN.....	43
SAN and NAS Architectures Are Proliferating the Market.....	44
BECOME A BELIEVER IN SANS.....	44
Backup Hurts.....	44
Leading LANless Companies.....	45
Data Recovery.....	45
Backup.....	46
Recovery.....	46
Another SAN Killer Application Is SRM.....	47
Device Administration.....	47
Load Balancing.....	47
Failover.....	47
Storage Resource Management (SRM).....	48
Device Administration.....	48
Load Balancing.....	48
Failover.....	48
SOFTWARE TAKES STORAGE TO THE NEXT LEVEL.....	48
The Importance of Software.....	49
The Attraction to Software.....	50
A Competitive and Consolidating Market.....	50
STORAGE SOFTWARE TRENDS.....	51
Replication Software Is Becoming an Important Focus.....	51
Take a Look at EMC's Secret Sauce - SRDF.....	51
SRDF Characteristics.....	51
Descriptions by Category.....	52
Enterprise Storage Resource Management.....	52
Data Management Products.....	53
Storage Infrastructure Products.....	53
STORAGE NETWORKING.....	54
Inside the SAN Cloud.....	54
Market Breakdown.....	54
SAN Bridges.....	55
Traditional SAN Routers.....	55
Existing & New SAN Routing Players.....	55
SAN Hubs.....	57
Entry Level SAN Hubs.....	57
SAN Managed Hubs.....	57
So What the Heck Is the Difference?.....	58
Looplet?.....	58
What's the Difference?.....	59
Pricing.....	59
Hub and Switch Side-By-Side Comparison.....	59
4-port Hub & Switch architectures.....	60
FC-AL Switches versus Fabric Switches.....	60
Switch Addressing - Public Versus Private Loops.....	60

Market/Product Requirements

MAJOR TRENDS	3
MARKET SEGMENTS BY APPLICATION & ENVIRONMENT	5
Application Types	5
Storage System Metrics	5
Technology Requirements by Application	6
<i>Transaction Processing</i>	<i>6</i>
<i>Streaming Data (Multimedia/Video)</i>	<i>6</i>
MARKET REQUIREMENTS: TRANSACTION PROCESSING	7
Low-End: Workgroup Servers	7
Mid-range: Departmental Servers	7
High End: Enterprise Servers	7
MARKET REQUIREMENTS: INTERNET/INTRANETS	8
Intranets	8
High-Speed Access.....	8
Internet Commerce	8
"Streaming" Technologies	8
The Internet Is the Computer	9
Internet Appliance/WebTV.....	9
Voice Over the Internet.....	9
Workflow	9
MARKET REQUIREMENTS: DATA WAREHOUSING	10
Requirements of Data warehousing Applications	11
<i>Scalability</i>	<i>11</i>
<i>Performance.....</i>	<i>12</i>
<i>Storage Management.....</i>	<i>12</i>
<i>Tight Integration of Storage with File System</i>	<i>12</i>
Data Warehouse Market Size & Growth.....	12
Data Warehouse Storage - Market Size & Growth	13
MARKET REQUIREMENTS: VISUAL DATABASES	14
Beyond Rows and Records: The Management of Complex Data	14
Key conclusions.....	14
MARKET REQUIREMENTS: IMAGING/MULTIMEDIA	16
Imaging Applications.....	16
Building The Virtual Enterprise	16
<i>Supportive Multimedia</i>	<i>17</i>
MARKET REQUIREMENTS: MEDICAL	18
Patient Records Management.....	18
<i>Lifecycle in HealthCare</i>	<i>18</i>
<i>Hospitals and HMOs</i>	<i>18</i>
Generic Lifecycle for Scientific Method.....	18
MARKET REQUIREMENTS: VIDEO.....	19
Applications.....	19
Requirements	19
<i>Scaleable I/O & Communications</i>	<i>19</i>
<i>Very High BW.....</i>	<i>19</i>

<i>Instant access to very large databases</i>	19
<i>High Availability System Design</i>	19
<i>Price Sensitivity</i>	19
Application Requirements	19
<i>EMC Celerra Video Storage Subsystem</i>	20
NETWORK/ENTERPRISE MANAGEMENT SYSTEMS	22
Network Management Protocols	22
WBEM	22
Interface to standard Network Management Packages	22
Implementation Requirements	22
MARKET REQUIREMENTS - FIBRE CHANNEL SAN	24
<i>Performance</i>	25
<i>Availability</i>	25
<i>Cost</i>	25
<i>Scalability</i>	25
<i>Interoperability</i>	25
<i>Manageability</i>	25
Future of SAN	25
MARKET REQUIREMENTS - THIN CLIENTS/SERVERS	27

Market Forecast

STORAGE & SERVERS MARKET	3
SAN Market Sizing	3
<i>Storage Subsystems Revenues Depicted by Architecture (\$millions)</i>	5
Storage Networking	6
<i>Potential Storage Networking Revenue Projections</i>	6
Market Trends	6
FC MARKET SHARES 1999	8
NAS Market Size	8
STORAGE SOFTWARE TRENDS	8
<i>Total Worldwide Storage Software Market Revenue (\$ in millions)</i>	9
Storage Resource Management (SRM)	9
<i>SRM Projections More than Doubled</i>	10
SAN Market Sizing	10
NT and UNIX Focus	11
<i>SRM</i>	11
Failover	12
<i>Device Administration</i>	12
<i>Load Balancing</i>	12
<i>Networking Backup and Recovery Projections More than Double</i>	12
Data Management Products	13
Storage Infrastructure Products	13
Replication	14
Replication To Offer Tremendous Future Growth	14
Replication Software Is Becoming an Important Focus	14
<i>EMC's Secret Sauce - SRDF</i>	14
<i>Data Replication Market - Dominant Market Leadership</i>	14
<i>Veritas Poised To KOCK Replication</i>	14
<i>Legato's Recent Challenges Create Opportunity</i>	14
<i>Storage Software Projections Doubled!</i>	14
Segment Analysis	15
<i>Dominant Market Leadership</i>	16
Replication To Offer Tremendous Future Growth	16
<i>Legato's Recent Challenges Create Opportunity</i>	17
<i>Doubled Its Storage Software Projections!</i>	17
<i>Veritas Poised To KOCK Replication</i>	18
Software Risks	18
NT and UNIX Focus	19
<i>Total WW Storage Management Software Market Share Revenue by Platform (\$millions)</i>	19
<i>WW Storage Software Market Revenue by Selected Vendor (\$ in millions)</i>	20
Segment Analysis	21
Market Trends	21
Market Forecast	22
<i>Numbers Are a Bit Low</i>	22
<i>Methodology</i>	22
<i>Figure 62. Storage networking Revenue As % Of External RAID (\$millions)</i>	23
<i>Figure 63 Potential Storage Networking Revenue Projections</i>	23
<i>Figure 62. Storage networking Revenue As A Percentage Of External RAID Projections</i>	23
<i>Figure 63. Potential Storage Networking Revenue Projections</i>	24
MARKET SHARES	25
<i>Networking Backup and Recovery Projections More than Double</i>	25
SERVER CLUSTERING MARKET OUTLOOK	26

<i>WW Server Clustering Market Forecast (Rev \$M)</i>	26
<i>WW Server Clustering Market Forecast (Units in 000s)</i>	26
<i>WW Server Clustering Penetration of Total Servers by OS (units basis)</i>	27
Server Clustering Market Shares	27
Future consolidation in Server Clustering Software Market	27

Technology Trends

SAN/NAS TECHNOLOGY	4
What is a SAN	4
Flexibility and Scalability	5
Performance Tradeoffs	5
Achieving High Availability	6
Improved Manageability	6
Killer Applications: The inevitable conclusions	7
RAID Systems	10
<i>Background, Data Striping, Summary</i>	<i>11</i>
SAN COMPONENTS	12
SAN Servers	13
SAN Storage	13
SAN Interconnects	13
<i>Cables and Connectors</i>	<i>14</i>
<i>Gigabit Link Modules (GLM) & Gigabit Interface Convertors (GBIC)</i>	<i>14</i>
<i>Media Interface Adapters (MIA)</i>	<i>14</i>
<i>Adapters, Extenders and Multiplexors</i>	<i>14</i>
<i>Hubs: Unmanaged and Managed</i>	<i>15</i>
<i>Bridges, Routers & Gateways</i>	<i>15</i>
<i>Switches & Directors</i>	<i>15</i>
<i>ESCON & FICON</i>	<i>16</i>
SAN Applications	16
<i>Shared Repository and Data Sharing</i>	<i>17</i>
<i>Storage Sharing</i>	<i>17</i>
<i>Data-Copy Sharing</i>	<i>18</i>
<i>"True" Data Sharing</i>	<i>18</i>
<i>Network Architecture</i>	<i>18</i>
<i>Data Vaulting and Data Backup</i>	<i>18</i>
<i>Data Interchange</i>	<i>18</i>
<i>Clustering & High Availability</i>	<i>18</i>
<i>Data Protection and Disaster Recovery</i>	<i>18</i>
<i>Managing the SAN</i>	<i>19</i>
<i>Capacity Management</i>	<i>20</i>
<i>Configuration & Asset Management</i>	<i>20</i>
<i>Performance Management</i>	<i>20</i>
Hubs, Switches & Bridges	20
<i>Fibre Channel Hubs</i>	<i>21</i>
<i>Fibre Channel Switches</i>	<i>22</i>
<i>Fibre Channel to SCSI Bridges</i>	<i>22</i>
Backup Solutions	22
<i>Backup Hardware</i>	<i>23</i>
SAN Software	24
<i>San Management Utilities</i>	<i>25</i>
<i>SAN Management SW</i>	<i>25</i>
Data Replication	27
Replication Methods	27
<i>Storage replication</i>	<i>27</i>
<i>Application level replication</i>	<i>27</i>
Replication Types	28
<i>Synchronous replication</i>	<i>28</i>
<i>Asynchronous replication</i>	<i>28</i>
Uses of Replication	28
<i>Disaster recovery</i>	<i>28</i>

Off-host processing	28
Content Distribution.....	28
Data sharing.....	28
Data consolidation.....	28
Follow-the-sun processing	29
Volume & File Management	29
NAS & SAN MARKET	30
NAS Market Sizing	33
SAN Market Sizing	30
THE NEXT GENERATION OF SANS: STORAGE DOMAIN MANAGEMENT.....	33
The Emergence Of Storage Area Networking	33
Achieving The Promise Of SANs.....	34
What Is Storage Domain Management?	35
The Fundamentals Of Storage Domain Management	35
Heterogeneous Interoperability	35
Secure, Centralized Management.....	36
Enterprise-Class Reliability, Availability And Serviceability (RAS).....	37
An Intelligent Purpose-Built Platform	37
Conclusion.....	38
FIBRE CHANNEL TECHNOLOGY.....	38
Executive Summary	38
Fibre Channel Standards.....	38
Interoperability	39
Storage	40
Storage Devices and Systems.....	40
Storage Area Network.....	40
Networks	41
Technology Comparison	42
Why Fibre Channel?	43
Fibre Channel Systems	45
SAN MANAGEMENT	46
SAN STANDARDS.....	47
Overview	47
SAN Standards are evolving.....	47
A Phased Approach	47
Getting to the third phase	48
Other Players	49
Future of SAN Standards	49
VIRTUALIZING SAN	50
WW MARKET - SAN VIRTUALIZATION	51
SAN Virtualization Revenues.....	51
FC Switch Ports Installed Base	51
WW Market - FC Hub & Switches	51
STORAGE SHARING	57
DATA SHARING	58
PERFORMANCE OPTIMIZATION.....	59
STORAGE ON DEMAND.....	60
SAN SERVICES	61
SAN CONTROLLER	64
SAN SERVER	65

SAN CLUSTER	67
SERVER CLUSTERING	68
<i>Server clustering to be key area of growth for storage and networking companies</i>	68
<i>Fig. - Server Clustering to achieve higher Availability and scalability</i>	68
<i>Server Clustering Using Switches</i>	69
Storage Companies Have Embraced VI and Infiniband for Clustering	70
<i>Virtual Interface (VI)</i>	70
<i>Infiniband (IB)</i>	71
Breaking Apart the Server Seems Logical	72
VI on Ethernet vs. Fibre Channel vs. Infiniband	73
SERVER CLUSTERING MARKET OUTLOOK	74
<i>WW Server Clustering Market Forecast (Rev \$M)</i>	74
<i>WW Server Clustering Market Forecast (Units in 000s)</i>	74
<i>WW Server Clustering Penetration of Total Servers by OS (units basis)</i>	75
Server Clustering Market Shares	75
Future consolidation in Server Clustering Software Market	75

Competitive Products & Positioning

SAN STORAGE SOLUTIONS - VENDOR POSITIONING	2
SAN Major Storage Solution Suppliers	2
SAN Definition	3
Key Issues	3
Scoring Method	3
Suppliers	4
<i>EMC</i>	<i>4</i>
<i>Compaq Computer</i>	<i>4</i>
<i>Storage Technology</i>	<i>4</i>
<i>Dell Computer</i>	<i>5</i>
<i>Hewlett-Packard</i>	<i>5</i>
<i>IBM</i>	<i>5</i>
<i>Hitachi Data Systems</i>	<i>5</i>
<i>MTI's</i>	<i>5</i>
<i>Sun Microsystems</i>	<i>5</i>
Summary	5
VENDORS & PRODUCTS	6
STORAGE SOLUTIONS, SUBSYSTEMS & COMPONENT VENDORS	12
FIBREALLIANCE	18
Equipment Vendors	18
Interconnect Vendors	18
HBA Vendors	19
Server Vendors	19
Service Providers	19
Software Management Vendors	20
Storage Vendors	20

SAN Suppliers & Strategies

BROCADE	3
Summary	3
Company Overview	3
Competitive Positioning	3
<i>Feature rich storage networking products</i>	3
<i>The Debate Continues: Fibre Channel and Ethernet</i>	4
<i>Strategic Partnerships</i>	4
<i>Cisco</i>	4
<i>EMC</i>	4
<i>Highground</i>	5
<i>Optical Networks</i>	6
<i>StorageNetworks</i>	6
<i>Veritas</i>	6
Brocade Is the Official Standard	6
<i>Interconnecting Vendor's Switches Is Important</i>	6
<i>Inter-operability Promotes the Industry</i>	6
<i>Brocade Is Not Leaving Itself Vulnerable</i>	7
Management	7
Product Road Map	7
Products	7
<i>SilkWorm Switch Product Family</i>	8
<i>Brocade's SilkWorm Switches</i>	8
<i>Brocade Software Upgrades Increase Functionality</i>	8
<i>Brocade's Scalability Advantage</i>	9
<i>Public-to-Private Loops - the "Translative Mode"</i>	9
<i>Brocade's Zoning</i>	10
<i>Brocade Web Tools</i>	10
GADZOOX	11
Summary	11
Company Overview	11
Competitive Positioning	11
<i>Install Base Must Be Scaled</i>	11
Gadzoos Products	12
<i>Hardware</i>	12
<i>Axxess Networked Storage Pool</i>	13
<i>Geminix FC-to-SCSI Router</i>	13
<i>Software</i>	13
LEGATO	15
Summary	15
Company Overview	15
Competitive Positioning	15
<i>Benefit of APIs</i>	15
<i>Total Solution</i>	15
Legato Products	15
<i>Enterprise Resource Management</i>	16
<i>Data Management</i>	16
<i>NetWorker Modules</i>	16
<i>Celestra</i>	17
<i>Storage Infrastructure</i>	17
<i>HA/Cluster</i>	17
OEMs and Partners	18
<i>Data Protection (source code and/or binary)</i>	18
<i>Data Availability Partners</i>	18
<i>Major ELAs</i>	19
<i>Linux Partners</i>	19
<i>Major NT Deployments</i>	19
VERITAS	20

Summary	20
<i>Growth Drivers</i>	20
<i>Demand Building for Back-end of 2006 and Full Year 2007</i>	21
Company Overview	21
Competitive Positioning	22
Competition	22
<i>Plowing Through Tough Times</i>	22
<i>Veritas Signs on Hewlett-Packard and IBM</i>	22
<i>UNIX Market Projections</i>	23
<i>Solaris + HP-UX + AIX = UNIX Domination</i>	23
<i>IBM's AIX Presents an Excellent Opportunity</i>	23
<i>Business Mix and a Look into 2009</i>	23
<i>Goal to \$10 Billion</i>	24
Sales Channels	24
Veritas, Oracle, and Sun (VOS) Joint Alliance	24
<i>Veritas' Interoperability Lab Is a Key Competitive Advantage</i>	24
Active Acquisition History	25
<i>VERITAS Acquisition Activity</i>	25
Acquisition War Chest	25
<i>The Purchase of Seagate NSMG - Take 1</i>	25
<i>The Purchase of Seagate NSMG - Take 2</i>	26
Veritas Products	26
<i>Enterprise Resource Management</i>	26
<i>Data Management</i>	26
<i>Infrastructure</i>	27
<i>HA/Clustering</i>	27
<i>Other</i>	27
<i>Veritas' V3 - The SAN Manager</i>	27

SAN PRODUCTS BY SUPPLIER BY MODEL - SUBSYSTEMS & COMPONENTS	5
Bridges/Routers	5
Switches	5
Cables/Connectors	5
Components	6
Host Adapters	6
RAID Storage Systems	8
Servers	8
SAN Mgmt Software	9
Storage Devices	9
Storage Systems RAID	9
Switches	10
System Design and Integration	11
Test Equipment, Tools & Services	11
Training and Education	11
ADAPTEC	12
<i>Host 1/O</i>	<i>12</i>
<i>RAID Controllers</i>	<i>12</i>
<i>Software</i>	<i>12</i>
<i>NICS</i>	<i>13</i>
ADVANCED DIGITAL INFORMATION CORP. (ADIC)	13
ALACRITECH	14
AMERICAN MEGATRENDS	14
BAYDEL	15
BMC SOFTWARE	16
BULL	16
BUS-TECH	16
CAMBEX	17
CHAPARRAL NETWORK STORAGE	18
CIPRICO	18
<i>Ciprico's FibreSTORE Family of Storage Systems</i>	<i>18</i>
<i>FibreStore Products include:</i>	<i>18</i>
<i>SCSI Interface Products</i>	<i>19</i>
<i>Total Storage Solutions</i>	<i>19</i>
CMD TECHNOLOGY	19
<i>Storage Systems Products</i>	<i>19</i>
<i>Storage Interconnect Products</i>	<i>20</i>
COMMAULT SYSTEMS	20
COMPAQ	20
<i>Compaq ENSA</i>	<i>21</i>
<i>StorageWorks Enterprise Volume Manager (EVM)</i>	<i>22</i>
COMPUTER ASSOCIATES	24
COMPUTER NETWORK TECHNOLOGY	25
CROSSROADS	26
History	26

Product Offerings	26
4X50.....	26
4200.....	26
CROSSTOR	27
DATACORE SOFTWARE	27
DATADIRECT NETWORKS	28
DATALINK	29
DELL	29
DOT HILL SYSTEMS	30
Products	31
Professional Services	31
EMC	31
Storage Subsystems	32
<i>Symmetrix</i>	32
<i>CLARiiON</i>	33
<i>Connectrix</i>	33
<i>Celerra</i>	33
Enterprise Storage Services	34
Internet Services	34
EMULEX	34
EXABYTE CORPORATION	35
FINISAR	36
GIGANET	36
HEWLETT-PACKARD	37
HIGHGROUND	38
HITACHI DATA SYSTEMS	39
IBM	39
Storage Subsystems	39
Software	40
IMATION	40
INRANGE TECHNOLOGIES	40
INTEL	41
I-TECH	41
JNI	41
LSI LOGIC	42
MCDATA CORPORATION	43
Products	43
<i>Storage Directors</i>	43
<i>FICON Bridge</i>	43
<i>ES-1000</i>	43
<i>EFC Manager</i>	43
<i>ED-5000 and ED-1000 Product Managers</i>	43
MELLANOX TECHNOLOGIES	44
MTI TECHNOLOGY	44

NETWORK APPLIANCE	44
NISHAN SYSTEMS.....	45
NSTOR	46
OTG SOFTWARE	46
PATHLIGHT	47
POWERQUEST.....	47
QLOGIC.....	48
SAN VALLEY	48
SANCASTLE.....	49
SEAGATE	49
STORAGEAPPS	50
STORAGETEK.....	50
STORAGE NETWORKING TECHNOLOGIES LTD.	50
SUN MICROSYSTEMS.....	51
TRICORD	51
TROIKA NETWORKS, INC.....	52
TRUESAN NETWORKS	52
VICOM.....	53
VIXEL	53

Channels of Distribution

INDUSTRY STRUCTURE	3
Manufacturers, Channels of Distribution, End Users by Vertical Markets)	3
MAJOR CHANNELS OF DISTRIBUTION	4
Channels of Distribution by EU Business Size.....	4
<i>Direct & Indirect Channels (OEM, Distribution, VARS/SI, Retail)</i>	<i>4</i>
Channels of Distribution by Application Markets.....	5
<i>Vertical Markets Players - Transaction Processing.....</i>	<i>5</i>
<i>Vertical Markets Players - Video</i>	<i>5</i>
CHANNELS OF DISTRIBUTION BY VERTICAL MARKETS	5
Top Federal System Integrators	5
DISTRIBUTOR PROGRAMS	6
OEM Programs	6
Reseller Programs	6
<i>VAR Partner Programs</i>	<i>6</i>
<i>High Volume Reseller Programs.....</i>	<i>6</i>
Business Partner Marketing Program.....	6
DISTRIBUTOR SERVICES.....	6
Broad Product line	6
Financial & Credit Services.....	6
Add-on Services for Profit	6
<i>Network Services</i>	<i>6</i>
<i>Software Licensing Programs</i>	<i>7</i>
Interactive Electronic Tools Services	7
<i>Electronic Commerce.....</i>	<i>7</i>
<i>End-User Printed & Electronic Catalogs</i>	<i>7</i>
Marketing Services	7
<i>Tech Expos</i>	<i>7</i>
<i>Prepaid TechSupport Cards.....</i>	<i>7</i>
<i>Training</i>	<i>7</i>
Technical Support Services	7
PRICING STRUCTURES	8
<i>Pricing Structure - Direct Channels (Direct, Web/Mail).....</i>	<i>8</i>
<i>Pricing Structure - Indirect Channels (OEM, Disty, VAR/SI, Retail).....</i>	<i>8</i>
MAJOR CHANNEL PLAYERS	9
Top OEMs, Distributors, VARS, VADS.....	9
<i>System OEMs</i>	<i>9</i>
<i>Distributors</i>	<i>9</i>
<i>Large System Integrators.....</i>	<i>9</i>
<i>Small System Integrators.....</i>	<i>9</i>
<i>VARS</i>	<i>9</i>
<i>VADS/Retail Chains.....</i>	<i>9</i>
TOP-50 SYSTEM INTEGRATORS	10
Top 50 VARS.....	12
TOP-75 VADS.....	14
TOP-75 VADS.....	14
TOP OEMS	17

Research Methodology

- METHODOLOGY2
- Primary Data2
- Factors Fueling Growth.....2
- Key Findings.....2
- MARKETS3
- Market Segments**3
- Server Platform by price/performance segments:3
- Server and storage subsystems shipments by major OS categories:.....3
- Server and storage subsystems shipments by price categories:3
- Server and storage subsystems shipments by Channels of Distribution:3
- Server and storage subsystems shipments by File Systems:.....3
- Server and storage subsystems shipments forecast by applications categories (in future)3
- Server and storage subsystems worldwide shipments by Geography (future)3
- Market Demand Forecast**4
- Market Demand 2007-20114
- Near Term Forecast.....4
- Long-Term Forecast.....4
- Market Shares**.....4
- Geographic Coverage**.....4
- IMEX DEFINITIONS & TERMINOLOGY5
- Definitions**.....5
- Terms**.....5
- Computer Systems & Servers.....5
- Storage Subsystems5

Appendices

REFERENCES1
 Related IMEX Research2
 Glossary of Terms.....4