4. New Developments in Platforms Business
<table>
<thead>
<tr>
<th>Current Information System Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>24-hours/365-days Uninterrupted Operation</strong></td>
</tr>
<tr>
<td>Total System Reliability, Including Network</td>
</tr>
<tr>
<td><strong>Ability to Handle Large-Scale Load Fluctuations</strong></td>
</tr>
<tr>
<td>High Performance / High Scalability / Load Distribution Among Servers</td>
</tr>
<tr>
<td><strong>Fast Links Among Enterprises and Businesses</strong></td>
</tr>
<tr>
<td>Business Process / Database Integration</td>
</tr>
<tr>
<td><strong>Continual Growth in Applications</strong></td>
</tr>
<tr>
<td>Speedy Development of New Businesses / Smooth Links with Existing Operations</td>
</tr>
</tbody>
</table>
Necessity of Comprehensive Approach

Limitations of Individual Systems

Comprehensive Solutions Made Possible by Links/Fusion

TRIOLE

Solutions Via Tri-polar Server/Storage/Network Configuration
New Product Development Based on TRIOLE Concept

- Achieves Mainframe-Level Reliability in Open Systems Environment
- Supports Continuous Operation While Offering Superior Scalability

Non-Disruptive Expansion

PRIMEPOWER PRIMERGY

Servers

Storage Systems

Storage Server

Non-Disruptive Expansion

SAN/NAS Data Sharing

Data Exchange (XML)

Autonomous Operation

IP Server (Platform Layer)

Achieves High Performance/Reliability Through Automatic Allocation Based on Load/Expansion/Problem

Server/Storage Virtualization

IP Network

Clients

GeoStream/FLASHWAVE
Competitive Advantage: PRIMEPOWER

- **Top Performance**
  - TPC-C, SAP-SD Benchmarks
  - Scalable to 128 CPUs
    - Pursue Leading CPU Performance in FY2002
  - Maintain Competitive Superiority through Use of CS100 Leading-edge Semiconductor Technology

- **Reliability to Support Mission-Critical Systems**
  - Achieves Mainframe-Equivalent High Reliability
    - Faster Server Switchover Time
    - Disaster Recovery
    - Improved Ability to Handle System Expansion while Maintaining Continuous Operation
  - Combination of Fujitsu Platforms (Servers, Storage Systems, Middleware) for Ideal Mission-Critical System Solution
Competitive Advantage: ETERNUS Storage System

Reliability and Performance for Mission-Critical Systems
- Uses Interconnect Method for Flexible Scalability and High Performance
- Redundant Components for High Reliability
- Advanced Copy Function for Zero Application Downtime
- Remote Copy Function for Disaster Readiness

Advanced Storage Management
- Stronger Storage Platform with SP500, SP5000
  - SAN, NAS Integration
  - Content Sharing and Management
  - Autonomous Control for Storage and Files
- System-Wide Management, Incl. Servers & Network

Total Integration
- Integrated System Combining Servers (PRIMEPOWER), Software, and Services
Competitive Advantage: GeoStream IP Router

High Reliability and Availability: 99.9999% Uptime

- All Modules Fully Redundant
- Super-Fast Recovery
  - Power Failure Recovery Time: 0 \( \mu \) sec
  - Processor Failure Recovery Time: 19.3 \( \mu \) sec
  - Software Update During Operations: 524 \( \mu \) sec
  (Source: TOLLY GROUP Availability Benchmark, Dec. 2001)

Multi-Service Platform

- Efficiently Handles Multiple Services:
  - VPN (Layer 2 VPN, Layer 3 VPN)
  - IPv6
  - VOIP
  - BRAS (xDSL, FTTx, etc. – Wide Range of Broadband Access Support)
  - Mobile IP
Organizational Reform to Support Development of Next-Generation Systems

Telecommunications Group
Transport Systems Group
Network Systems Group

Information Processing Group
Computer Systems Group
File System Group
Software Group
Personal Systems Business Group
Mobile Phones Group

Platforms Business Group
Recent Initiatives in Platforms Business

New Products & Alliances

<table>
<thead>
<tr>
<th>Month</th>
<th>Initiative Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug. ’01</td>
<td>Updated PRIMERGY IA Server Lineup</td>
</tr>
<tr>
<td>Aug. ’01</td>
<td>Developed World-leading 100 Gbit/in² Hard Disk Technology</td>
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<tr>
<td>Aug. ’01</td>
<td>Announced INTERSTAGE Solution Suite of Business Process Templates</td>
</tr>
<tr>
<td>Oct. ’01</td>
<td>Released MHR Series 2.5” HDD with Capacity Up to 40 GB</td>
</tr>
<tr>
<td>Oct. ’01</td>
<td>Launched Global Sales of GR700 Series Storage Systems</td>
</tr>
<tr>
<td>Nov. ’01</td>
<td>Fujitsu LIFEBOOK Receives “Best of Show” at COMDEX 2001</td>
</tr>
<tr>
<td>Nov. ’01</td>
<td>INTERSTAGE v4 Software Platform Released Worldwide</td>
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<tr>
<td>Nov. ’01</td>
<td>Released SystemWalker v10 Integrated Operations-Management Software</td>
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<tr>
<td>Dec. ’01</td>
<td>Formed Alliance with Oracle Japan to Promote Technologies for High-Reliability Systems</td>
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<tr>
<td>Dec. ’01</td>
<td>SymfoWARE Server v5 Database Software Released</td>
</tr>
<tr>
<td>Jan. ’02</td>
<td>Cooperated with 4 Enterprise Linux Vendors to Enhance Failure-Detection Functions</td>
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<tr>
<td>Jan. ’02</td>
<td>40 Gbps Optical Transmission Module Commercialized</td>
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<tr>
<td>Jan. ’02</td>
<td>Introduced B-STOREPOWER Broadband POS System</td>
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<tr>
<td>Feb. ’02</td>
<td>ETERNUS SP5000 Network Storage Server Released</td>
</tr>
<tr>
<td>Feb. ’02</td>
<td>TRIOLE Platform Concept Announced</td>
</tr>
<tr>
<td>Feb. ’02</td>
<td>Formed Basic Technology Development Alliance for 3G Wireless Handsets with SAGEM of France</td>
</tr>
<tr>
<td>Feb. ’02</td>
<td>Introduced GS21 600 Model Group, World’s Fastest Mainframes</td>
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