Colocation Service
for the Tokyo Commodity Exchange’s
Next Generation System

30th September 2008
KVH Co., Ltd.
Registered Telecommunication carrier established in Tokyo by Fidelity Investments to provide integrated communications and IT management services in Japan and other major cities in Asia.

- Solid financial base
- Sufficient knowledge and wealthy experience of IT infrastructure and security for financial institutions

**Europe**
- 1992: Established in London
- Oct 1993: Service launched
- Dec 1996: Listed in LSE, NASDAQ
- 1998: Operations in 32 cities in Europe

**Coverage:**
- Austria, Belgium, Denmark, France, Germany, Ireland, Italy, Netherlands, Portugal, Spain, Sweden, Switzerland, U.K.

**Asia**
- 1999: Established in Tokyo
- Nov 2000: Service launched in Tokyo
- Jun 2001: Service launched in Osaka
- Apr 2002: Data Center Service

**Customers:** 1,650+
- Financial institutions, media, contents providers, publishing, medical / pharmaceutical, manufacturing, distribution, etc

Established by Fidelity Investments, the world’s largest Financial Services / BPO (Business Process Outsourcing)
- Fidelity provides a solid financial base with a long-term perspective
- KVH leverages Fidelity’s knowledge and experience in telecom / IT services (including COLT which covers Europe area)
COLT provides the lifeblood for the smooth running of Europe's financial systems.

Company Data (2007 annual report)
- 2007 Revenue: €1,679.6m
- No. of Employees: 4,019
- Share Capital: € 850.3m
- Head Office: London, UK

COLT at a Glance
- 50,000 customers across all industry sectors
- Metropolitan area networks (MANs) in 34 cities with direct fiber connections into 15,000 buildings and 18 Data Centers
- Linked by its own pan-European network
- Over 20’000 Km of fiber across 13 countries
- 50 accredited partners deliver further reach

COLT Connects The Key Institutions
- 20 European stock exchanges
- World’s largest 25 financial services companies
- 67 of the top 100 European banks
- 24 of the top 25 European hedge funds
- Largest 5 providers of market data
- COLT is the largest accredited SWIFT network-provider, with 750 European clients
- Over 1,000 financial services institutions

CEO Rakesh Bhasin

COLT Products & Services
Colt provides a comprehensive portfolio of Data, Voice and Managed Services.
Why COLT?

- COLT already underpins 20 European Exchange’s networks
- 7 Exchanges are hosted in COLT data centres – now
- COLT’s data centres sit on the network backbone – inherently suited to latency sensitive applications such as algorithmic trading
- COLT’s customers include all of the major trading banks, a majority of hedge funds and all market data providers – this is our core market
- COLT connects all major Clearing & Settlement market infrastructures, including Euroclear, London Clearing House & SWIFT

Locations Where COLT Already Offers Proximity Services
The KVH Data Center has been designed to meet mission critical needs of financial services companies.

<table>
<thead>
<tr>
<th>KVH Tokyo Data Center</th>
<th>ITIL-compliant Services</th>
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<tbody>
<tr>
<td>Load Balancer</td>
<td>Service Support</td>
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<td>Operation Management</td>
<td>Service Delivery</td>
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<td>Caching</td>
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<td>Data Backup</td>
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<td>Virus Check</td>
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<td>Firewalls</td>
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<td>IDS</td>
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<td>UNIX</td>
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<td>Windows</td>
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<td>Linux</td>
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<tr>
<td>Network Support</td>
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<tr>
<td>Platform Services</td>
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<tr>
<td>Internet / Intranet Access</td>
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<tr>
<td>High reliability of redundant power and High Security environment</td>
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<tr>
<td>Industry Leading Service Level Agreement (SLA)</td>
<td>KVH has implemented the Information Security Management System (SMS) and our Tokyo Data Center has been certified to meet security standards set by the international standard “ISO/IEC 27001:2005/ JIS Q 27001:2006”. The certification covers Data Center operations and management and Service Desk.</td>
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- Designed to meet mission critical needs of financial services companies
- Top-level security
- FISC complied operations
- Sophisticated equipment which is connect to KVH Metro network
- Stable and secured platform for mission critical application
- Service Desk supports both Telecommunications and Data Center Services
In the case of collocation service provided at an Exchange, trading members’ hardware (trading engine and algorithm servers) is placed at the same location as facilities of the Exchange, reducing the physical distance from the Exchange practically to zero. Therefore, latency is low with this solution but there may be restrictions with regard to available space and operations.

KVH Trading Avenue is a proximity hosting service whereby traders, information vendors, ISV, brokers and other trading participants maintain the same relative distance from the Exchange. Trading members will connect directly to the Exchange, etc using KVH’s low latency optical fiber network and leading-edge data center services by collocating at Trading Avenue in the KVH data center. With Trading Avenue, trading members may also connect to multiple Exchanges from the same location.

KVH Trading Avenue aims to energize the market further by offering DC space and operations services which complement the collocation service offered by the Exchange.
Trading Avenue will allow access to all Exchanges from a single location

COLT DC

COLT • KVH Global Proximity Network

KVH DC

Market data system
Trading system

ISV

Members facilities

Market
Trading

A Exchange DC

B Exchange DC

KVH NW

Facilities of offshore non-members
Collocation solutions for TOCOM Colocation Service Users

Designated vendor
- NTT Data and KVH have been designated as service providers by TOCOM
- KVH will provide network and collocation services to TOCOM collocation customers

Managed network
- KVH will manage connectivity from the customer’s server used to place orders to TOCOM’s network gateway

Managed switch
- The service includes the managed switch installed at the customer’s rack. The customer, therefore, will be able to allocate management resources to management and operations of the server.
- Server rental and full managed services are optionally available.
- Customer’s rack will come with two 100Base-Tx (full duplex) ports for main and back-up circuits
- 10M and 100M circuits are available as circuits connecting the centers
- Traffic from the KVH Data Center to the TOCOM Center is shaped using the center router based on the number of login users (1Mbps x number of login users) in accordance with system requirements
Pricing for the standard package is as follows (excluding consumption tax):

<table>
<thead>
<tr>
<th>Circuit</th>
<th>10Mbps x 2</th>
<th>Support up to 10 Login Uses</th>
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<tbody>
<tr>
<td></td>
<td>100Mbps x 2</td>
<td>Support up to 100 Login Users</td>
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<tr>
<td>Managed L2 switch (Catalyst2960-24TC-L)</td>
<td>Two units</td>
<td>100Base-T</td>
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<td>Collocation rack</td>
<td>One rack</td>
<td>700mm - 1000mm, AC100V 2N, 3kVA</td>
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<td>TOCOM Colocation Service Fee will be charged separately.</td>
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<td>Monthly fee per service user: ¥350,000</td>
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The minimum contract period of the service is 3 years
(The price may change in the case of shorter period of contract, additional rack, multiple circuits, etc.)
Access circuits from the host/server at the collocation rack in the KVH Data Center to external locations are provided with additional charge.

- **Domestic**
  1. Ethernet leased line
  2. Wide area Ethernet
  3. Other data circuits
  4. PSTN and INS circuits

- **International**
  1. Global Ethernet
  2. IP-VPN

Connection with Ethernet leased line (10Base-T interface)

Connection with Ethernet
Service Facilitator

KVH will liaise between customers and Exchanges as an “agent” for the customers.

Administrative support and Service Desk support (English / Japanese)

KVH Exchange service facilitator covers two main parts

1. Before Service In
   In this stage KVH will assist customers in
   - Understanding the Exchange’s service requirements and contract negotiation,
   - Application for exchange services
   - Application for connectivity and support in circuit and system settings

2. After Service In
   Once contract is signed, circuits delivered, and customer starts receiving market data; KVH will be the single point of contact with the exchange house for the following
   - Inquiries to and from the exchange relating to service contents, changes, notifications,
   - Translate daily exchange notifications
   - Billing management (KVH will pay on behalf of the customer for all exchange invoices)
   - Circuit maintenance (carrier maintenance notification, port verification, etc…)
   - Emergency requirements related to customer’s system (Hardware change, remote operations, hardware check, etc..)

* Administrative support for Remote Membership will be also available.
For more information, please contact:

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Shosei Fumikawa, Account Executive for TOCOM, Sales Dept. 1
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We will be happy to discuss your requirements.