Introduction of
LG Hitachi

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07. Business Partners
Since its foundation in 1986, LG Hitachi has been highly trusted company by HITACHI with its cutting-edge IT products and solutions. Also LG Hitachi leads overseas market by collaborating with top partners in the country.

Based on a close partnership with customer, we strive to improve and dig up the customer needs providing new value and being the first to find with the challenges they meet.

Soo-Yeop Kim, CEO

<table>
<thead>
<tr>
<th>Company Name</th>
<th>LG Hitachi Ltd.</th>
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</thead>
<tbody>
<tr>
<td>Establishment Date</td>
<td>9/2/1986</td>
</tr>
<tr>
<td>CEO</td>
<td>Soo-Yeop Kim</td>
</tr>
<tr>
<td>Capital (W)</td>
<td>5 Billion KRW</td>
</tr>
<tr>
<td># of Employees</td>
<td>217 (July, 2018)</td>
</tr>
<tr>
<td>Shareholders</td>
<td>Hitachi Ltd. 51%, LG Corp. 49%</td>
</tr>
<tr>
<td>Location</td>
<td></td>
</tr>
<tr>
<td>Headquarter</td>
<td>8F LG Mapo Bldg., 155, Mapo-daero, Mapo-gu, Seoul, 04143, Korea</td>
</tr>
<tr>
<td>Daejeon Office</td>
<td>138, Dunsanjung-ro, Seo-gu, Daejeon, 35209, Korea</td>
</tr>
<tr>
<td>Busan Office</td>
<td>316, 99, Centum dong-ro, Haeundae-gu, Busan, 48059, Korea</td>
</tr>
<tr>
<td>Tokyo Office</td>
<td>302 Narikawa Bldg., 112 Shimohirama, Saiwai-ku, Kawasaki-shi, Kanagawa-ken 212-0053, Japan</td>
</tr>
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<td>URL</td>
<td><a href="http://www.lghitachi.co.kr">www.lghitachi.co.kr</a></td>
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02 | History

1986  ‘GoldStar-Hitachi Systems’ Founded
1987  Launched Main Frame
1993  Launched Financial SI
1995  Changed Company Name to LG Hitachi Ltd. / Launched Public SI
1996  Launched Storage (Hitachi Vantara)
2000  LG Transferred Mgmt. Rights to Hitachi / Launched Network
2002  Established a Tokyo Branch / Launched IC Card·RFID
2005  Launched Blade Server
2006  Launched Security Solution
2007  Won ‘MGA\(^1\)’ Award for utilizing RFID
2009  Launched UTIS, U-City Solutions
2010  Implemented Logistics Information Synchronization National Research Project / Launched EMV Credit Card Terminal
2011  Launched FTA Solutions
2012  Launched Public Infra SI
2014  Opened Daejeon, Busan Office
2015  Launched FinTech Service
2016  Big Data Based Integrated Compliance Solution Business
2017  IoT Solution Business
2018  Launched Biometric Payment Service (Finger Vein)

\(^{1}\) MGA: Ministry of Government Administration
**03 | Business Areas**

**VISION**

LG Hitachi contributes to create new value for sound society, based on our accumulated experience and Hitachi's advanced technology

**Leader of Social Security Managing Big Data**

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<th>Finance</th>
<th>Public</th>
<th>Overseas</th>
<th>Platform</th>
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<tr>
<td>• Compliance</td>
<td>• Infra SI</td>
<td>• Solution Export</td>
<td>• HV Product, Solution</td>
</tr>
<tr>
<td>- Audit Information, AML&lt;sup&gt;1)&lt;/sup&gt;, FDS&lt;sup&gt;2)&lt;/sup&gt;</td>
<td>• Infrastructure Maintenance</td>
<td>• Smart MIG&lt;sup&gt;4)&lt;/sup&gt;, BRMS&lt;sup&gt;5)&lt;/sup&gt;, On-Line Excel, JP1&lt;sup&gt;6)&lt;/sup&gt;</td>
<td>• Technical Assessment</td>
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<tr>
<td>• FinTech Service</td>
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<td>• System Development</td>
<td>• Big Data Analytics</td>
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<tr>
<td>• Finger Vein Authentication</td>
<td></td>
<td>• Japan, Europe, Southeast Asia</td>
<td>• based Appliance</td>
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<tr>
<td>• Integrated Maintenance</td>
<td></td>
<td></td>
<td>• Maintenance Service</td>
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<tr>
<td>• Appliance</td>
<td></td>
<td></td>
<td>• IoT Solutions</td>
</tr>
<tr>
<td>• DW&lt;sup&gt;3)&lt;/sup&gt;, Informational System</td>
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<td></td>
<td>• People Flow Analysis</td>
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<tr>
<td>• Digital Branch</td>
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03 | Business Areas

Finance

• Holds professional consulting capabilities and specialized financial solutions with business Know-how over many years
• Consultants can afford the best solution and service for customers from building and operating strategic system

Fields of Business

- Comprehensive Inspection Information / AML\(^1\)/ FDS\(^2\)
- Strategic Information System (DW / CRM / ODS\(^3\) / Data Migration)
- Biometric Authentication(Finger vein) Security & Payment Service
- Management Accounting / Financial Accounting / IFRS\(^4\), Integrated Risk Management (ALM\(^5\))
- Digital Branch (BPR\(^6\) System)

Products and Solutions

- Financial Integration Appliances (Data detection / Analysis / Mining / Forecasting / Prevention)
- Big Data Based Integrated Compliance Solution
- Abnormal Transaction Detection / Personal Information Leakage Prevention Solution
- Biometric Authentication (Financial Transaction, Access Security)
- JP1 System Integration Management Solution

Key Achievements

- Comprehensive Audit Information for SM bank, J bank, S bank, D securities firm
- Next-generation Data Migration for K bank, H bank
- Internal control system and Integrated Maintenance for S bank
- Biometric Payment Service for C convenience store
- Digital Branch for B bank
- AML System for I bank, W bank, H bank
- FDS System for W card
- Strategic Information System for N bank, S bank, P bank
- DW / CRM for N bank, S bank, P bank, N card
- Smart ATM Finger Vein Authentication for B bank
- Financial / Management Accounting System for N bank, S bank
- IFRS for Koscom (22 securities firms), S bank, N bank
- ALM of 7 banks including N bank liquidity management system
- BPR system for N bank
- BI system for I bank

1) AML : Anti-Money Laundering  
2) FDS : Fraud Detection System  
3) ODS : Operational Data Store  
4) IFRS : International Financial Reporting Standards  
5) ALM : Asset Liability Management  
6) BPR : Business Process Reengineering
Financial Solutions

Through the rule / scenario based real-time analysis of all transaction data suspicious transactions are extracted then monitoring information is monitored/tracked or screened on business screen to prevent accidents. In addition, we conduct follow-up management tasks such as intellectual/ action/correction.
03 | Business Areas

Public

- Government agencies, including the Supreme Court carried out a large-scale infrastructure projects in public institutions
- Perform system administration and integrated maintenance services

Fields of Business

- Infra SI Build-up
- Infra SI Operation and Maintenance
- Big Data System Build-up
- Security SI
- Artificial Intelligence System Build-up

Key Achievements

- National Information Resources Service
  - AI based Next-generation Security System Build-up
  - Implemented integrated data analysis system using Big Data
  - Security infrastructure maintenance
- Korea Local Information Research and Development Institute
  - Common infrastructure equipment maintenance
- Supreme Court
  - Family relations DR system
  - Network separation (Stage 1, 2)
  - Data center integrated maintenance
- National Health Insurance Service
  - Information system upgrade
  - Infrastructure reinforcement
- Social Security Information Service
  - Operating system integrated maintenance
03 | Business Areas

Overseas

- Achieve global business development through international business partnerships and its know-how for many years
- Globally runs business in various areas such as public, finance and international SI industry by collaborating with HITACHI

Fields of Business

- Systems Integration (Japan, Europe, South East Asia)
- Solution Exports

Products and Solutions

- BRMS\(^1\) solution : InnoRules
- BI solution : On-Line Excel (i-MATRIX)
- Data Migration solution: Smart-MIG (Finance, Public, Industry)
- Monitoring Solution: Web Services Monitoring (Smart SQM edge)

Key Achievements

- Offer Productivity Solution at Bank and Insurance company(InnoRules)
- Export Web-based Excel Solution (On-Line Excel)
- Data Migration - Banks, Railways, Manufacturing Industry
- Export E2E Web Service Monitoring Solution (SmartSQM edge)
- Export Advanced Data Security Solution(Fasoo DRM)
- Export Fraud Detection System(FDS)
- Joint Export of KGIT\(^2\) Member Solution
- Establish Japanese Companies IT System(Support for ERP etc.)
- Establish Railway Operation Management System
- Establish Tram/Bus Reservation and Ticketing System
- Establish Stock Exchange System, Securities Trading System
- Establish Enterprise System, Billing System for Electricity and Gas
- Establish Customers, Rates, Base station Management System for Telecommunications Companies
- Establish Sales Manufacturing Portal System

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1) BRMS : Business Rule Management System
2) KGIT : Korea Global IT Institution
03 | Business Areas

Storage

- Provides Hitachi Vantara’s specialized products and solutions
- Consulting and services are based on the excellent Know-how in the storage business for over 30 years

Fields of Business

- Hitachi Vantara Product, Solution
- Storage Architecture Consulting Service
- Big Data Analysis based Appliance
- Cloud Computing Solution
- Technical Assessment Service
- Maintenance Service

Products and Solutions

- Virtual Storage Platform G Series
- Virtual Storage Platform F Series
- Unified Compute Platform CI, RS, HC
- Unified Converged Platform for SAP HANA/IQ
- Unified Converged Platform for Oracle
- Hitachi Content Platform
- Hitachi NAS Platform
- Hitachi Video Management Platform

Key Achievements

- Replace S Bank DW/CRM
- Core Task Storage System for M Stock Company(AFA)
- Replace Storage for Biometric Authentication of D Medical Center
- Replace Storage for S Hospital
- Connected Banking(GSE) Storage for N Bank
- Information System Storage and DR System for N Bank
- Integrated Virtualization Web Service for D Economic Organization
- L Company’s ECM1) Storage
- Scholarship Foundation National Scholarship Control System
- Tax Integration Business for National Health Insurance Service
- Replace Infrastructure System for Korea Local Information Research & Development Institute
- Seoul Data Center Infrastructure Expansion Project
- Seoul City Hall Resource Integration Project
- Local Government CCTV Integrated Control Project

1) ECM : Enterprise Contents Management
Finger Vein Authentication

- A technology that identifies individual by finger vein pattern which is unique to each individual
- Hitachi first patented Finger Vein Authentication and developed in various fields.

Feature

- High security
- Compact and easy to use
- Worldwide Reference
- Smaller / lighter authentication devices
- The unique patent portfolio
- High accuracy/
- Speedy authentication

Key Achievements

- Establishment of certification service of bio information distributed management center of KFTC
- S Bank business control system using bio information
- B Bank Smart ATM, SM bank ATM
- K Bank Smart Branch
- N bank safe deposit box
- B card computer room access control
- G resort membership management, time attendance management
- Military facility access control
- National Sports Corporation’s electronic card issuance, player management system
- The Ministry of Employment and Labor (HRD-NET)

사업분야

Financial Institution

- Bank window trading
- ATM
- Internet Banking
- Safe deposit box

Public Institutions

- PC / Business System Login
- Access control
- Time and attendance management
- Manage printer output
- Key management

Medical Institutions

- Access to electronic medical record system
- Medication management
- Prevention of illegal payment
- Personal authentication of medical device

Leisure / Facilities

- Speed check-in
- Preventing misuse of tickets
- Easy payment
- Luggage storage
05 Organization Chart

- CMO/Vice President
- 3 Division, 6 Unit
- 14 Team, 1 Center

CEO

CMO / Vice President
- President Office
- Compliance Team

ICT & Service Business Division
- ICT Business Unit
  - Service Business Unit
    - TS Team
    - ICT Service Team
- Overseas Solution Business Unit
  - Overseas Solution Team
  - Overseas Solution Support Center
- Domestic Solution Business Unit
  - Domestic Solution Team
  - Solution Consulting Team

Solution Consulting Division

Public System Solution Business Division
- Public System Solution Sales Team
- Public System Solution Team

Corporate Planning Unit
- Strategic Planning Team
- Human Resources Team
- Procurement Team

Corporate Management Unit
- Finance Team
- Finance Planning & Analysis Team
- PMO Team

Administration Part
06 | Customers
07 | Business Partners