

# Remarks for Special Issue on Enterprise Solutions to Support a Safe, Secure and Comfortable Life

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We are facing diverse social challenges on a planetary scale. The newly developing countries are witnessing a population explosion, while developed countries are experiencing declining birth rates and an aging population. Demand for limited energy, water and food resources is growing. Natural disasters are increasing in severity in step with global warming and climate change. Migration to urban areas continues to fuel population growth in the cities, and widen the economic gap between urban and rural areas. Daily life is facing a growing threat of terrorism and cyber crime. This is the world we live in.

Focusing our efforts on our Solutions for Society – solutions that contribute to greater safety, security, efficiency and equality, and enrich people's lives. NEC is meeting these challenges with innovative social infrastructure that is a fusion of cutting-edge ICT, diverse knowledge and ideas.

The social infrastructure that makes, carries and sells things to consumers is the most familiar and the most intimate part of our daily lives. These social infrastructure functions are performed by the manufacturing, logistics, retail and the service industries which come under the enterprise domain.

Our customers in the enterprise domain are confronting a variety of issues including the multi-polarization of global markets that has accompanied the economic growth of the newly developed countries; the increasing sophistication and diversification of user needs in mature markets, and the



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Senior Vice President

growing challenge of product differentiation and fierce price competition. In order to solve these issues and not only survive but also win in this global competition, NEC is tackling social value creation in the belief that the realization of “value chain innovation” will be indispensable in providing new value to the people, things and processes that are linked together in the supply chain comprising "MAKE," "CARRY" and "SELL."

Technology that networks objects, also known as IoT (Internet of Things), will open the door to new advances such as mass customization which leverages automation and autonomous intelligent operation for multi-product, variable quantity production, or the realization of new value-added services crafted to satisfy user needs identified through the IoT-aided visualization of product and service usage.

The consumer lifestyles diversify. In such a trend, NEC will continue to support a safer, more secure and comfortable life for consumers by realizing omni-channels that fulfill consumer desires anytime and anywhere, providing services that can be used with confidence 24/365, and improving global traceability and quality.

The realization of these innovations requires the structuring of processes for value creation based on data collection, analysis and the results. From our development of the world's highest level of image recognition technology and Big Data analytical engines to our state-of-the-art network and security technologies, NEC has been supporting the advance of ICT

including IoT.

Every day, over 1,000 NEC researchers at 9 R&D centers around the world, are paving the way for emerging technologies with an endless stream of ICT innovation. In order to create innovation, NEC collaborates closely not only with key partners in industry and academia, but also with technology partners around the world, keeping our fingers on the pulse of socioeconomic trends and nimbly responding to both evolutionary and revolutionary changes, and together with our customers, we are continuously creating innovative value for society. Moreover, we will continue to provide strong support for the global operations of our customers through "NEC Global Enterprise Solutions", which systematically combine ICT and solutions with our cumulative experience, know-how and comprehensive support.

In this special issue on “Enterprise Solutions to Support a Safe, Secure and Comfortable Life,” NEC would like to present various case studies and introduce you to the kinds of value provided by our ICT and solutions.

NEC hopes that this special issue will provide you with a better understanding of how we are working with you to orchestrate a better world. On behalf of all of us at NEC, I would like to extend our wishes for your future success and our hope that we will continue to receive your invaluable trust and encouragement.

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# Information about the NEC Technical Journal

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Thank you for reading the paper.

If you are interested in the NEC Technical Journal, you can also read other papers on our website.

## Link to NEC Technical Journal website

Japanese

English

### Vol.10 No.1 Special Issue on Enterprise Solutions to Support a Safe, Secure and Comfortable Life — - Value Chain Innovation Linking “MAKE,” “CARRY” and “SELL” -

Remarks for Special Issue on Enterprise Solutions to Support a Safe, Secure and Comfortable Life  
NEC's Approach to Value Chain Innovation  
- Safer, More Secure and More Comfortable Living Through Value Chain Innovation -

#### Value chain innovation: “MAKE”

Making the Manufacturing Industry More Responsive – NEC Manufacturing Co-creation Program  
NEC Industrial IoT - Building the Foundation for Next-Generation Monozukuri  
Industrie 4.0 and the Latest Trends in Monozukuri Innovation in the Auto Industry

#### Value chain innovation: “CARRY”

Logistics Visualization Cloud Services in Asian Developing Countries

#### Value chain innovation: “SELL”

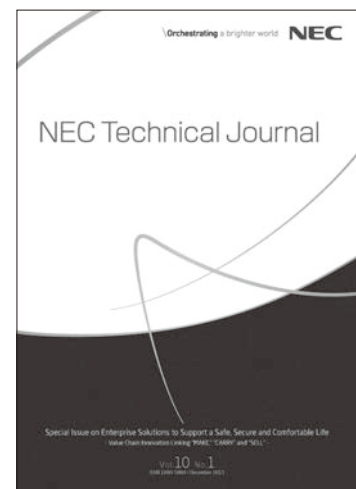
ICT and the Future of the Retail Industry - Consumer-Centric Retailing  
An Advanced Electronic Payment System to Support Enhanced Service Provision  
NEC's “NeoSarf/DM” E-Commerce Solution and the Omni-Channel Era  
NEC Smart Hospitality Solutions - Deploying OMOTENASHI or the Unique Japanese Way of Entertaining Guests

#### Sustainable living/Sustainable lifestyles

Transit System Smart Card Solutions and Future Prospects  
NEC's Commitment to Smart Mobility  
EV Charging Infrastructure System That Facilitates Commercialization of EV Charging  
IoT Device and Service Platforms Development and Realizing IoT Business

#### NEC's advanced ICT/SI for the enterprise domain

NEC's Approach to Big Data  
Demand Forecasting Solution Contributing to Components Inventory Repair Optimization  
Predictive Analytics Solution for Fresh Food Demand Using Heterogeneous Mixture Learning Technology  
Global Deployment of a Plant Failure Sign Detection Service  
Application of Big Data Technology in Support of Food Manufacturers' Commodity Demand Forecasting  
Contributing to Business Efficiency with Multi-cloud Utilization and Migration Technology  
Integrated Group Network Using SDN Case Study: Toyo Seikan Group Holdings  
Meeting the Challenge of Targeted Threats  
Security Assessment Ensuring “Secure Practice” Against Escalating Cyberattacks  
Control System Security Anticipating the Coming Age of IoT  
NEC's Approach to VCA Solutions Using Image Identification/Recognition Technology  
Quick-Delivery, Low-Cost Web Development Architecture born from Field SE  
Embedded System Solutions for Creating New Social Values in the Age of IoT  
NEC's Advanced Methodologies for SAP Projects



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Special Issue TOP