

# Business Prospectus

**JIPDEC**



# Towards the next 50 years

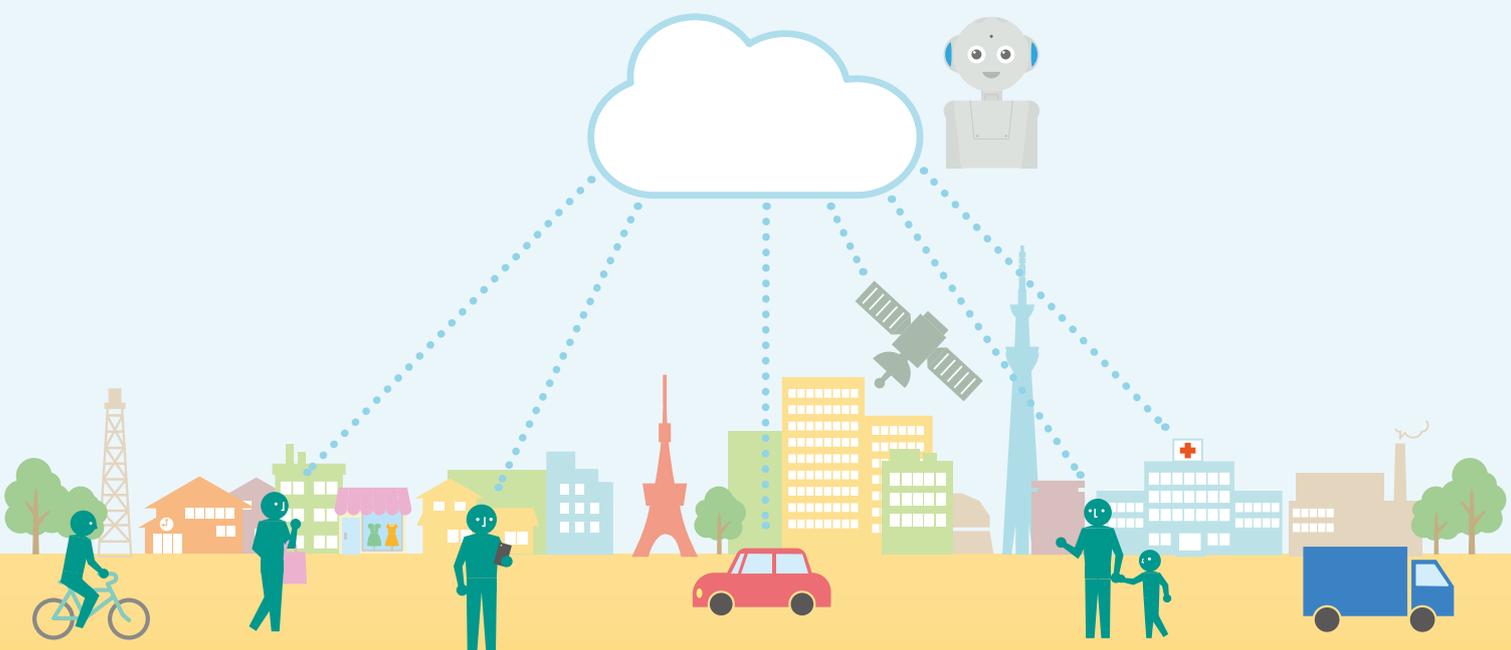
Much of what we believed was science fiction 50 years ago when JIPDEC was formed, is now fact, rooted in the reality in our own lives today.

- More now than ever we are trusting an *invisible partner*, from our private conversations to important decision-making agreements and binding contracts, as we make use of the Internet in so many new ways.
- Artificial Intelligence finds the optimum solution from various censored data sets, from individual personal data to society's reflections and thoughts, with robots supporting our actions based on these answers.

Information Technology (IT) has accelerated the change of everything around us. Prior to the widespread diffusion of the Internet, IT influenced changes in the efficiency and rationalization of traditional operations and procedures. Today however, IT has changed the industrial structure, our values and our social rules. As society advances to this new stage, a significantly different social system and trust framework are needed.

As we celebrated our 50th anniversary last year, JIPDEC took the first step toward the next 50 years. We will continue to evolve our business activities to be essential in the future, and we highly appreciate your continuing support and cooperation.

JIPDEC



# Promoting Personal Information Protection

Increased activities related to the Internet of Things (IoT) will generate many new business opportunities for the use of personal information. Benefits to society will include more value-added services such as customized medical and nursing support or recommended services targeted specifically to an individual's preferences and needs. Service providers should be aware of more increased, and sophisticated cyberattacks in addition to human error and internal crimes. These providers are required to be trusted by consumers and associated businesses.

## ● Operation of the PrivacyMark® System

JIPDEC has been operating the “PrivacyMark System\*” since April 1st, 1998. We assess an entity's framework and operation for handling of personal information in a secure and appropriate manner, under specific assessment criteria. Entities which meet the standardized requirements for the secure handling of personal information are permitted to use the PrivacyMark registered logo.

Assessment criteria for the PrivacyMark System are based on the *Personal information protection management system – Requirements (JIS Q 15001)* and comply with Japan's *Act on the Protection of Personal Information* and related legal regulations. The PrivacyMark logo is viewed by users as a symbol of trust, signifying that an entity manages their customers' personal information with a high degree of competency, voluntarily following prescribed standards in compliance with legal regulations.

In the past 20 years since the establishment of the PrivacyMark system, Japan's *Act on the Protection of Personal Information* was enacted and amended in 2015. In addition, JIS Q 15001 has been revised and the European Union's *General Data Protection Regulation* has been fulfilled. In this way, the importance of personal information protection and its appropriate use have seen significant awareness and growth.

JIPDEC encourages businesses to develop Personal Information Protection Management Systems (PMS), and advises registered PrivacyMark entities on the appropriate measures required to protect personal information. JIPDEC also actively promotes the “PrivacyMark System” by holding seminars and informing consumers about personal information protection.

\*PrivacyMark and PrivacyMark System are registered trademarks.



Japan's *Act on the Protection of Personal Information* was amended to set forth basic principles for how business operators should handle personal information. The basic principles include an appropriate way of providing and sharing personal information between their business associates. Compliance with international laws and regulations related to personal information protection like the EU's *General Data Protection Regulation*, that came into force in May, 2018, is expected to grow in scope.

### ● Acting as an accredited personal information protection organization

Since June 2005, JIPDEC has been an accredited personal information protection organization under Japan's *Act on the Protection of Personal Information*. JIPDEC manages complaints about the target entities handling of personal information and personal information incidents. JIPDEC also provides a series of guidelines specifying the handling of anonymously processed information to the target entities in keeping with the newly amended articles of the *Act on the Protection of Personal Information* enforced in May 2017.

In January 2016, JIPDEC was accredited as the first Japanese Asia-Pacific Economic Cooperation (APEC) Cross-Border Privacy Rules (CBPR) Accountability Agent. Since then, JIPDEC has certified that the privacy policies and practices of participating companies are compliant with the CBPR system program requirements. The APEC CBPR system was developed by participating APEC economies after seeking the views of industry and civil society in order to build consumer, business and regulator trust in cross border flows of personal information. The APEC CBPR system has been in operation since 2011. Japan has participated in this system since April 2014. Accountability Agents perform a key role in the APEC CBPR system by certifying that the privacy policies and practices of participating companies are compliant with the CBPR system program requirements.

# Ensuring the trust of information on the Internet

Ensuring trust of information on the Internet is crucial for advancing the flow of knowledge in a data driven society. JIPDEC is engaged in various activities to realize an environment where online services can be more safely used.

## ● Services focused on ensuring trust in the Internet

### ■ The JCAN Certificate

JIPDEC promotes the use of the JCAN Certificate which ensures safer electronic contracts and prevents e-mail spoofing.

#### ▶ Electronic contracts

An independent study carried out by JIPDEC, found the expected growth of electronic transactions between companies will increase the need for electronic contracts services with over 43% of companies now using such services as of January 2018. Electronic contracts offer the following benefits for businesses, such as minimizing the use of printed contacts through the ability to execute the contracts online using e-signatures. Electronic contracts also help to reduce personnel and operating costs, eliminate the need for revenue stamps, and enable business to more easily and securely track the history of each contract, thus maintaining security and preventing falsification.

#### ▶ Preventing e-mail spoofing, and falsification

The JCAN Certificate can prevent e-mail spoofing by attaching an e-signature identifying the e-mail sender.

In addition, the JCAN Certificate authenticates the author of a document and prevents falsification. Encrypted documents prevent access from uncertified logging and ensure confidentiality.

#### ▶ Authentication

The JCAN Certificate identifies and prevents access by uncertified users to an organization's local area networks and computer systems.



### ■ Verification of authenticated e-mails

JIPDEC also promotes the "Spam-Free Mark" which acts as a measure to prevent cyberattacks. The "Spam-Free Mark" framework indicates that the sender of an e-mail is authenticated by Domainkeys Identified Mail (DKIM) and ROBINS – The Cyber Business Register.



### ■ Framework for trusted services

Cloud services such as electronic contract services are expected to reduce the cost burden and complexity of IT systems for users including small and medium-sized enterprises (SMEs). However, it is not easy for SMEs to distinguish adequate, appropriate, and reliable cloud services from the various services available. To aid SMEs with their choices, JIPDEC has made a framework for the evaluation of cloud services and offers information to users concerning the trust of those services.



## ● Useful information services to enhance business activities

### ■ ROBINS – The Cyber Business Register

サイバー法人台帳  
**ROBINS**

ROBINS – Reference Of Business Identity for Networked Society, is a database registry that provides reliable and verified corporate information such as the office address, and telephone number, and also includes the official website and e-mail domains. The ROBINS registry contains various corporate information such as, “The Corporate Number” assigned by the National Tax Agency of Japan, and “Labor Management Assessment information” promoted by the Japan Federation of Labor and Social Security Attorney’s Associations all of which are verified by reliable third parties. The ROBINS registry also includes business activities such as public procurements, awards, and various corporate permits as stipulated under the law, all of which are sourced from the government’s central database covering corporate information held by Japanese government ministries.

### ■ Registration and management of the Standard Company Code

The Standard Company Code is a unique corporate identifier, compliant with international standards, and widely used in Electronic Data Interchange (EDI). JIPDEC is a registered agent for the issuance of the Standard Company Code.

## ● Implementation of the Designated Investigative Organization services for the Act on Electronic Signatures and Certification Business

The enforcement of the *Act on Electronic Signatures and Certification Business* (e-Signature Act) in April 2001, created a legal framework that allowed electronic signatures to be used in the same context as handwritten signatures and seals. The Japanese government has introduced a system to accredit the Specified Certification Business conforming to certain criteria.

In 2003, JIPDEC was designated as the Designated Investigative Organization for the e-Signature Act. JIPDEC investigates whether or not the equipment of the Specified Certification Business and their implementation methods conform to the standards provided in the e-Signature Act. JIPDEC provides information provision, advice and other support services in response to inquiries and consultation from entities conducting the Specified Certification Business, and the users of those services.

# Research and recommendations for a data driven society

The rapid proliferation of IoT machinery coupled with advances in Artificial Intelligence will produce a framework for collecting, analyzing, using and transferring large amounts of sensor data, and will have major impacts in business use and produce various social benefits. As the EU's General Data Protection Regulation (GDPR) mandates global companies to comply with the regulation, the growth of cross border data transfer demands global companies to conform with legal arrangements on data protection and utilization worldwide. It is crucial for global companies to be aware of such legal trends and respond promptly in this age of the interconnected society.

## ● **Research on advanced uses of information**

Striking the right balance between personal data protection and utilization, legal arrangements on data such as intellectual property rights and ownership frameworks are becoming crucial issues in a data-driven society. JIPDEC is carrying out research on new and advanced technologies and is collating information on domestic and global legal systems. JIPDEC is also teaming up with key players in industry, academia and government in building a consensus on social infrastructure for advanced uses of information and recommendations on political policies.

## ● **Enhancing collaboration between industry, government, and academia**

To better understand the needs of industry, in solving problems, and creating new business opportunities, JIPDEC has assumed the role of secretariat for three consortia. We encourage the government to enact policies respecting the opinions of the consortia, and we support the government to implement policies and promote frameworks for the secure use of information.

- ▶ The “g-Contents Exchange Promotion Association” is working on the development of a distribution framework for digital content containing geospatial information, referred to as “g-contents.”
- ▶ The “Consortium for the Promotion of Next-Generation Personal Services” is focused on formulating rules for handling personal information based on domestic and international standards.
- ▶ The “Consortium for the ID Federation Trust Framework” is conducting research for how best to build trust between industry and consumers.

JIPDEC also provides a platform, the “Forum on Advanced Uses of Digital Information,” in cooperation with the members of the above consortia. The forum invites leaders from industry, academia, and the government to examine IT related topics, of importance to society, such as information security and personal data protection.

# Promotion of information security management

With an increase in the frequency and sophistication of information security incidents such as recent cyber-attacks and information leaks, it is becoming more crucial that organizations adopt comprehensive security measures in order to protect their critical information from various aspects that cover both technical and organizational perspectives. In these situations, businesses today face an urgent need to establish management systems for information security.

## ● Promoting the development of information management systems

With the aim of securing the trust and reliability of information management systems in various industries, JIPDEC provides information to help organizations develop these systems based on International Standards such as ISO/IEC 27001 for ISMS (Information Security Management Systems) and ISO/IEC 20000 for ITSMS (IT Service Management Systems). Additionally, JIPDEC supports the promotion of those schemes relevant to respective industries, including both the ISMS conformity assessment scheme and the ITSMS conformity assessment scheme. JIPDEC also works on promoting ISMS that additionally encompasses cloud-specific information security measures by applying criteria consistent with ISO/IEC 27017 that is targeted for cloud service providers and customers in order to ensure the reliability of those services.

With the recent proliferation of general-purpose technologies and networks, it is becoming imperative to protect industrial automation and control systems that support social and industrial infrastructures from cyber-attacks. JIPDEC is also engaged in dissemination of CSMS (Control systems Security Management Systems) along with ISMS with the sole purpose of preventing cyber-attacks to the control systems.

## ● Participation in international standardization activities

JIPDEC participates in international standardization activities for ISMS, actively cooperating in the development and revision of the entire family of ISMS International Standards. Through these activities, JIPDEC also provides updates on international standardization trends.

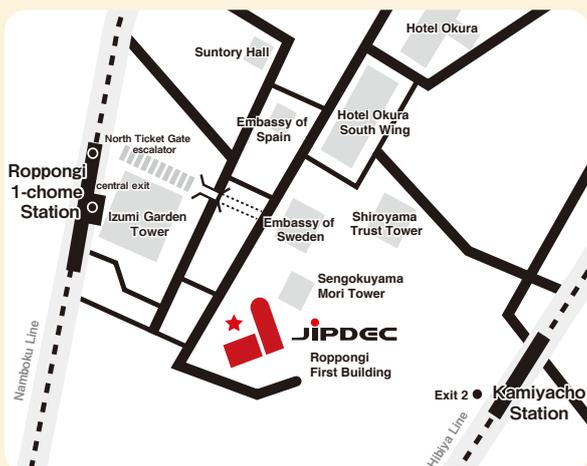
## Organization Outline

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<b>■ Name</b>	JIPDEC	
<b>■ Date of establishment</b>	December 20, 1967	
<b>■ Capital</b>	3,999 million yen	
<b>■ Business budget</b>	2,424,500 thousand yen (FY 2018)	
<b>■ Number of employees</b>	101 (as of June 1, 2018)	
<b>■ Contacts</b>		
Administrative Department		+81-3-5860-7551
Internet Trust Center		+81-3-5860-7562
Utilization of Digital Information Research Department		+81-3-5860-7558
PrivacyMark® Promotion Center		+81-3-5860-7563
Electronic Signature and Authentication Promotion Center (ESAC)		+81-3-5860-7571
Accredited Personal Information Protection Organization Administrative Office		+81-3-5860-7576
Public Relations Office		+81-3-5860-7555
Security Management Promotion Office		+81-3-5860-7561
 <b>■ Associated organization</b>		
ISMS Accreditation Center (ISMS-AC)		+81-3-5860-7570

## Corporate History

December, 1967	Japan Information Processing Development Center (JIPDEC) was established.
September, 1968	Japan Computer Usage Development Institute (CUDI) was established.
March, 1970	Institute of Information Technology (IIT) was established.
April, 1976	CUDI and IIT were incorporated into JIPDEC.
April, 1984	Japan Information Technology Engineers Examination Center (JITEC) was established (JITEC was moved to the IPA in 2004).
February, 1985	Center for the Informatization of Industry (CII) was established (CII was abolished in 2000).
June, 1987	IIT was reorganized into the Central Academy of Information Technology (CAIT) (CAIT was abolished in 2002).
May, 1988	JIPDEC published guidelines for personal data protection in the private sector.
October, 1992	Japan Electronic Data Interchange Council (JEDIC) was jointly founded by 39 industrial organizations as a voluntary organization (JEDIC was abolished in 2012).
July, 1995	Japan STEP Promotion Center (JSTEP) was established (JSTEP was abolished in 1998).
October, 1995	Research Institute for Advanced Information Technology (AITEC) was established (AITEC was abolished in 2003).
January, 1996	Electronic Commerce Promotion Council of Japan was established.
October, 1996	Japan Computer Emergency Response Center (JPCERT/CC) was established (JPCERT/CC was reorganized as a limited liability intermediate corporation).
April, 1998	JIPDEC established the PrivacyMark System on April 1, 1998
July, 1998	JSTEP was reorganized into Japan EC/CALS Organization (JECALS).
April, 2000	CII, and JECALS were incorporated into the ECOM.
December, 2000	Asia PKI Forum (APKI-J) was jointly founded by almost 70 industrial organizations.
April, 2002	JIPDEC officially started the operation of the ISMS (Information Security Management System) accreditation activities.
April, 2003	JIPDEC was designated as the official investigative body for the e-Signature Act.
April, 2006	Database Promotion Center, Japan was incorporated into JIPDEC.
April, 2011	“JIPDEC” became a general incorporated foundation and revised its Japanese name.
December, 2011	The office was relocated to Roppongi 1-chome.
April, 2012	JIPDEC launched the JCAN Certificate service.
July, 2013	JIPDEC launched ROBINS-The Cyber Business Register.
April, 2014	JIPDEC PIA (Privacy Impact Assessment) support service was started.
January, 2015	JIPDEC began services to assist private sector organizations in understanding how to securely handle Japan’s new Social Security and Tax Number (MyNumber).
January, 2016	JIPDEC was recognized as Japan’s first Accountability Agent in compliance with APEC CBPR system.
December, 2017	JIPDEC marked its 50th Anniversary of establishment.
April, 2018	ISMS-AC became a General Incorporated Association



## JIPDEC

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