6 Summary

(1) Classification of the products to be procured : 14

(2) Nature and quantity of the products to be rent : Computer Infrastructure System 1 Set

(3) Type of the procurement : Rent

(4) Basic requirements of the procurement :

A The system consists of servers, client PC subsystems, printing and presentation devices which take overall management ease into consideration. The system must provide services for integrated ID management, integrated operation management, e-Learning, integrated e-mail, integrated contents and repository management, virtual private servers, education for information science, administrative system infrastructure, and library system infrastructure.

B The system must take space-use conservation and energy-use reduction into consideration.

C Multiple managers must be available to supervise and address the needs of system users. A number of certification／authentication affiliations must be available to provide information on users. Certifications／authentications capable of using a variety of certification／authentication procedures／methods must be available. A system which will cope with a web-based interconnected certification／authentication function must be provided including "Gaku-Nin". A system also provides identity management function. The system must be able to manage not only password authentication but also digital certificate, magnetic card, and IC card. Two factor authentication mechanism are desirable. Furthermore, the system must support license model adaptive for lifetime IDs, nonstop maintenance function for authentication and authorization, and authorization mechanism with online test on e-Learning system.

D The system must provide for management of information system infrastructure including log analysis and configuration management. The management system is expected to take not only this system but also other equipment in our university into consideration.

E The system must provide a stable e-Learning infrastructure and take the development of new services for effective education into consideration. A system also provides an authorization mechanism with online test on e-Learning system for authentication and authorization sub system. Furthermore, it is desirable that a system includes web-based online meeting system.

F The e-mail system must be capable to use WebMail, IMAP4, POP3, and SMTP protocol. The system must be able to incorporate all sub-domains and take antivirus function, SPAM prevention, large volumetric information exchange, and flexible mailing list service into consideration. Furthermore, it will be desirable that license model is adaptive for lifetime mail address.

G The digital data repository system must be capable to use not only user's own but also collaborating with another institute. The system must provide the secure and easy-to-use file sharing function, content management function and repository function. Moreover, full-text search function must be provided with English and Japanese.

H The system must provide security function to prevent from irregular intrusion for various devices in our university. The security software vendor of the mail server must be different from that of PCs.

I License managements, including updates of the system must be centrally controllable. The license management system is expected to take license managements of whole software in our university into consideration.

J The server equipment must enable operation with fluid increase and decrease of OS instance. The server equipment must also take applications not dependent on physical hardware into consideration. The servers and network devices for inter-connection must keep availability and reliability with several functions or devices such as live migration, hot swap, redundancy power units and uninterrupted power supply devices. Furthermore, scale out enabled system will be desirable in this rental period.

K All services must be implemented with multiple OS instance for balancing load and redundancy configuration, easing the provision of high performance and reliability.Furthermore, off-loading function with IaaS which is direct attached to SINET via L2VPN will be desirable.

L About 220 compact PCs (as client PC subsystems) must be maintained through a centrally controlled system which includes software updates, configuration changes, current status monitors, and authentication logs. The equivalent function of PCs must be usable remotely from user's PC.

M The printer system must take energy-use reduction into consideration with counting the number of printed sheets for each user and restriction of the total number of printed sheets for each user.

N Devises for presentation in classrooms must be capable to project analog／digital images in various resolutions (from XGA to full HD) and to sound from analog／digital sources for everywhere in the Lab room. The devices must take not only wired connection but also wireless connection between devices into consideration.

O The system must provide a sub-system as an information science education infrastructure. The sub-system must consist of dual use PCs of Windows and Linux (85 sets), portable PCs for experiment program (90 sets) and high-speed wired／wireless network. The sub-system must support development and management of the information educational system. The sub-system must cope with servers of the main system. Note : it is desirable that dual use PCs, printers and presentation system will be same with main system from point of management view. Moreover, portable PCs must be managed from network. The management system must let all portable PCs at once carry out updating and applying security fix, install softwares, resetting user profiles and running script.

P The system must provide a sub-system as an administrative office infrastructure. The sub-system must be able to migrate current rental system (about 30 systems). The sub-system must be able to integrate the current security management system and software license management system. Furthermore, system update procedure is required for outdated system in this rental period.

Q The system must provide a sub-system as a library system infrastructure. The sub-system must provide both library managements (book acceptance, budget, book listing, reference, mutual use, system operation and statistics) and online services (Online Public Access Catalog (OPAC) and Repository of Institute) coping with servers of the main system.

R The system must be connected to the KITnet (High Speed Integrated Network Backbone System of our university) and must also be connected to the Internet through the KITnet. The entire system must be configured for security. Furthermore, existing devices may be replaced for realizing the functions.

(5) Time limit for the submission of the requested material : 17 : 00　24 April, 2017

(6) Contact point for the notice : Tomoyuki Arakawa, Section Chief, Accounting Division, Kyoto Institute of Technology, 1 Hashigami-cho Matsugasaki Sakyo-ku Kyoto-shi 606－8585 Japan, TEL 075－724－7075