6 Summary
(1) Classification of the products to be procured : 14
(2) Nature and quantity of the products to be rent : Research and Educational Information Processing System 1 Set
(3) Type of the procurement : Rent
(4) Basic requirements of the procurement :
① Basic requirements concerning the overall system
1) The full system should be configured from an on-campus network system, an education information terminal system, research system software, a cloud mailing system, a cloud computing system, entrance security control system, environmental impact monitoring system, education IT equipment, a remote conferencing／teaching system, an electronic bulletin board system, a wireless LAN system, a video management website, and a business continuity management system for major disasters.
② Basic requirements for the on-campus network system
1) Replace communication switches with models maximizing low energy consumption／low costs. But an amount equivalent to 10% should be stored by each group as spares for reuse.
2) Install a quarantine system that can quarantine information consent requiring authentication.
③ Basic requirements for the education system and terminals
A Basic requirements for the education information system
a Education information system configuration
1) The education information system should be configured around a core of education information terminals, lesson support servers, lesson support software, educational software and an education printer system ; the system should be configured as a network of these.
b Hardware for student terminals
1) The terminals should be laptop computers with main memory storage of 4 GB+. Details are as follows.
A) Must have SSD memory of 120 GB+
c Software for student terminals
1) Windows 8 shall be initially installed as the OS, to be replaced with any subsequent new OS released upon discussion with the university
2) MS Office 2013 shall be initially installed, to be replaced with any subsequent new Office software released upon discussion with the university
④ Basic requirements for the cloud operating system and terminals
1) Control servers and terminal servers should use public cloud services.
2) The control servers should be able to control 1100 thin clients without delays.
3) The terminal servers should be able to provide services for application software to 1100 thin clients without delays
⑤ Basic requirements for the cloud mailing system
1) The mailing system will utilize a commercial service = CloudMail
2) It should be possible to use two types of systems according to the size of attachable files
3) (1)The first mailing system should be the same as the current one.
4) (2)The second mailing system should use cloud storage and satisfy the following points.
5) A maximum of 1000 of students／teachers at this school wishing to do so can use the system
6) The maximum volume for attachment files should be 2 GB+
⑥ Basic requirements for the cloud computing center
1) The information infrastructure IT equipment of this university should as a rule utilize the services provided by a commercial cloud center
2) The commercial cloud center should be configured from the following equipment, services and requirements as a minimum.
A) The core server is moved to the commercial cloud center. New servers are also installed in the commercial cloud center.
B) Monitoring of the operating status or utilization of all the above equipment should be performed by a single cloud provider.
⑦ Basic requirements for the entrance security control system
1) Set up in accordance with the specified location, specifications and number of people
2) Authentication and functioning should be the same as the current system in place.
3) A control system should be set up in the cloud virtual server to enable focused control of entry／exit of specified rooms／equipment. Each department should be able to control the section it is in charge of.
4) Entry／exit to buildings and floor levels should be with Felica cards used as student／faculty ID.
⑧ Basic requirements for the environmental impact monitoring system
1) Should expand on the function／performance of the existing system as follows.
2) Number of measuring points : 1500+.
3) Storage life : 10 years+
⑨ Basic requirements for education IT equipment for the computer laboratory
1) Replace or install anew the specified computer projectors, large screens and LAN ports. The number and specifications will be specified.
2) The projectors should have 2500+ lumens and should as far as possible be a compact, lightweight, and low power consuming model.
⑩ Basic requirements for video management website
1) Should handle operation of (1)Shizuoka University Television (public viewing) and (2)Shizuoka University CII Television according to instructions of the Information Infrastructure Center
2) Should delete, replace or post new videos as specified based on the video posting application forms approved by the center
⑪ Basic requirements for the electronic bulletin board system
1) Replace or install new systems as specified
⑫ Basic requirements for the wireless LAN system
A Wireless LAN
a Wireless LAN monitoring & service provision services
1) Should be able to constantly monitor the status of the AP to be istalled
2) Should be able to operate on virtual servers on commercial cloud services
B Wireless access points
1) The access points should enable 54 Mbps communications based on the IEEE802.11a standard, 54 Mbps communications based on the IEEE802.11g standard and 11 Mbps communications based on the IEEE802.11b standard.
2) The access points should support Power over Ethernet compliant with IEEE802.3af.
⑬ Basic requirements for utilization of research／education information systems
1) One or more SEs should reside on each campus under the following conditions／terms in order to ensure the smooth running of these systems.
A) Residence frequency : Use the following as a guide. For days the university is open, 1 person×6 hours／day×150 days／year, 9 : 00 am to 4 : 00 pm (with one hour for a lunch break)
B) Total number of hours : 1 person×6 hours／day×150 days／year×4 years=3600 hours