

Information / Network

1. Introduction

The Information Communication Technology (ICT) infrastructure and its services at the Harima campus of RIKEN are provided to users of SPring-8/SACLA, which is managed and operated by RIKEN SPring-8 Center (RSC) and RIKEN (as the owner of the SPring-8/SACLA facilities at the Harima campus) with the support by Japan Synchrotron Radiation Research Institute (JASRI, as the registered institution for facilities use promotion for SPring-8/SACLA).

2. Work assignments for the SPring-8/SACLA mission

RSC, RIKEN, and JASRI are undertaking the following joint business construction in the ICT:

RSC and RIKEN

1. Hardware Administration of ICT
 - Servers/storage hardware and virtual machines infrastructure
 - Wired and wireless network infrastructure
 - Access control system to enter and exit buildings
2. Software Administration ICT
 - Operating system
 - Middleware, etc.
 - a. Web (Apache, CMS, etc.)
 - b. Mail system software
 - c. Management of virtual machines
 - d. Management of authentication
 - e. etc.

JASRI

1. Management of information content for users of SPring-8/SACLA
2. Management of SPring-8/SACLA user accounts

3. Security audit for the spring8.or.jp domain and its IP address range

3. Work description in FY2019

In FY2019, the following operations were conducted to ensure the stability of information system services in SPring-8/SACLA and RIKEN Harima branch:

- 3.1 Operations and maintenance of the network infrastructure
- 3.2 Construction of additional network cable facilities
- 3.3 Construction of the authentication system for RIKEN-Staff WiFi access.
- 3.4 Support of a work from home environment for administrative users.
- 3.5 Network services to users

4. Conclusions

On a campus with a national shared facility called SPring-8/SACLA, ICT provides many services, mainly network systems, to various users. Currently, the focus is on the maintenance of systems and services. We have not been able to provide new network services. However, beginning in FY2020, many projects are planned such as expanding the provision of ICT-related services to RIKEN users at the RIKEN headquarters and responding to the next SINET. In addition, the expansion of remote work due to the impact of COVID-19, which began at the end of FY2019, will be discussed in conjunction with the reform of working methods. As this report demonstrates, ICT is essential in the provision of various services as well as implementing updates and upgrades of IT equipment. These activities

affect many people related to the RIKEN Harima campus. We plan to continue our efforts based on providing appropriate information to and obtaining feedback from stakeholders.

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