§35. Overview of NIFS Campus Information Network

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The information network is fundamental for the research activity. The advanced NIFS campus information network named "NIFS-LAN" is the information infrastructure which contributes to the development of nuclear fusion research. NIFS has 300 staffs and the number of their PC is near 3,000. "Network Working Group" (NWG) provides 100Mbps / 1Gbps bandwidth to users. NIFS-LAN consists of three autonomous clusters which have their own purposes and usages as follows;

1. *Research Information Cluster* is the network of general use, and covers the campus whole region.

2. *LHD Experiment Cluster* is provided for LHD experiment, and covers the building relevant to LHD experiment.

3. *Large-scale Computer Simulation Research Cluster* is provided in order to support the large-scale computer simulation research efficiently.

NIFS-LAN is connected to Science Information Network 3 (SINET3), managed by National Institute of Informatics. The block diagram of NIFS-LAN is shown in Fig. 1.
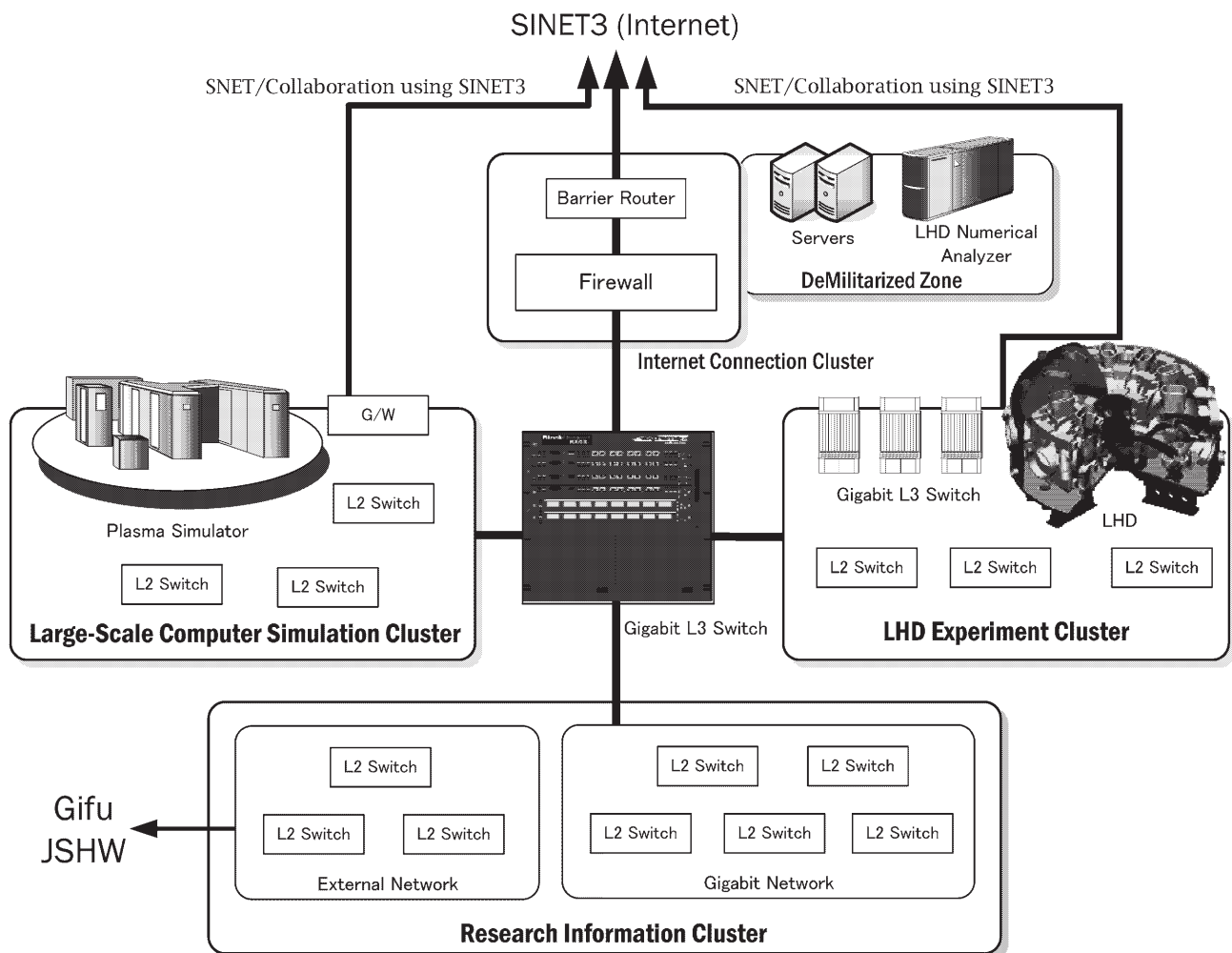

Fig.1. Block Diagram of NIFS Campus Information Network (NIFS-LAN)