2.7 Notes on Network Configuration

2.7.1 Networks

The following measures are taken to improve reliability of the NACCS User Network and ensure security.

(1) Main equipment in the User Network are in duplex configuration.
(2) Main lines in the User Network are duplicated (have multiple routes) to enable rapid switching to alternative routes in case of failure of lines or communication devices.
In addition, the NACCS Center server is connected to the Backbone Network via dedicated lines and the lines are duplicated.
(3) The User Network is logically closed, and only the data of NACCS Users can flow through.
(4) Each user can only communicate with the NACCS Center server and not with other users. (See Figure 2.7.1)
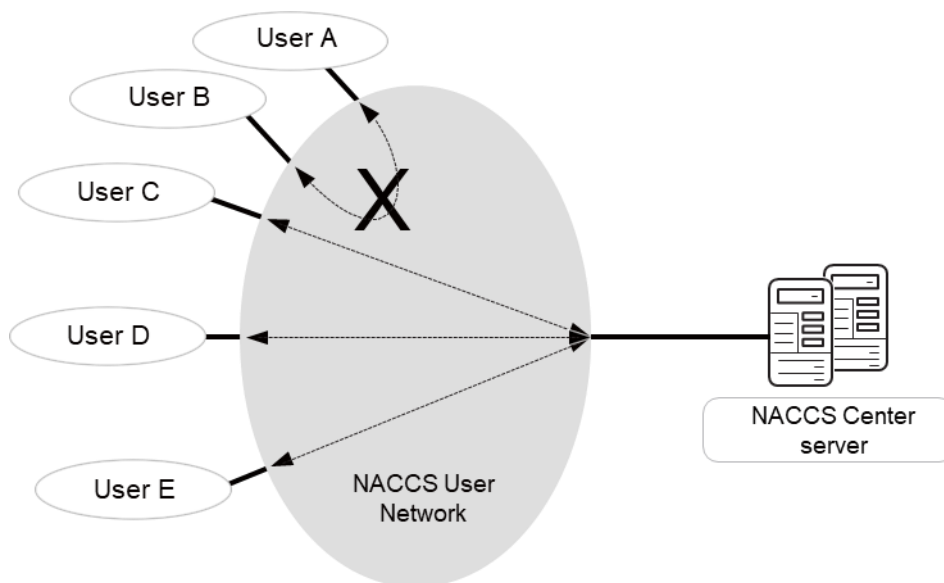

Figure 2.7.1 Image Diagram of Communication between Users and NACCS Center Server

(5) Users must use a router (compatible with 10BASE-T/100BASE-TX/1000BASE-T) provided by NACCS Center to connect to the User Network. The operational condition setting of the router is controlled solely by NACCS Center, and the users cannot change the setting.
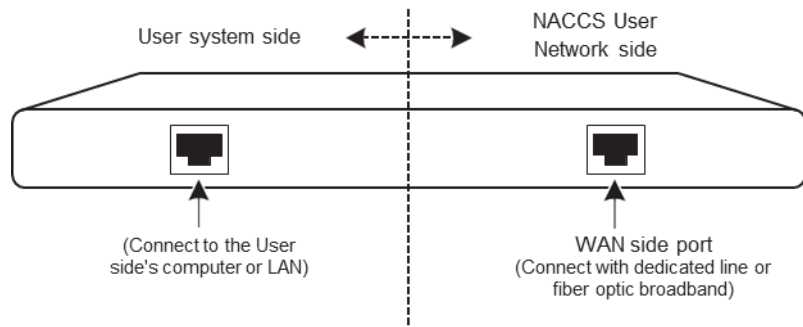Functions (interface) of the router provided to users by NACCS Center are as follows.

User system side ←---┊---→ NACCS User Network side

(Connect to the User side's computer or LAN)

WAN side port
(Connect with dedicated line or fiber optic broadband)

Figure 2.7.2 NACCS Connection Router

(6) The communicable zone from the NACCS Center server to the NACCS Connection Router is controlled by NACCS Center, and therefore users cannot make any changes within the zone.

Gateway connection

Zone where users cannot make changes

Gateway computer

NACCS Connection Router

User Network

No changes can be made in any of the dedicated line connection and fiber optic broadband connections.
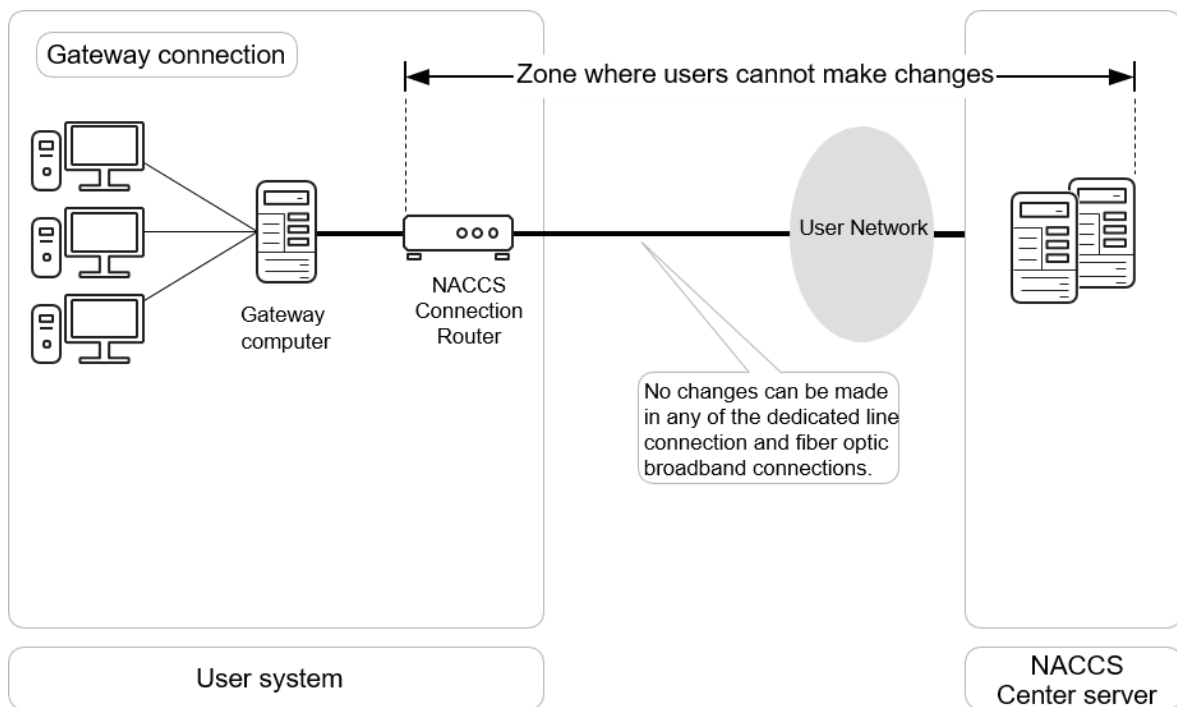
User system

NACCS Center server

Figure 2.7.3 Zone Where Users Cannot Make Changes

(Note) In the figure above, a gateway connection user is used as an example, but the same is true for router connection users.

2.7.2 Demarcation point of responsibility for when there are any failures

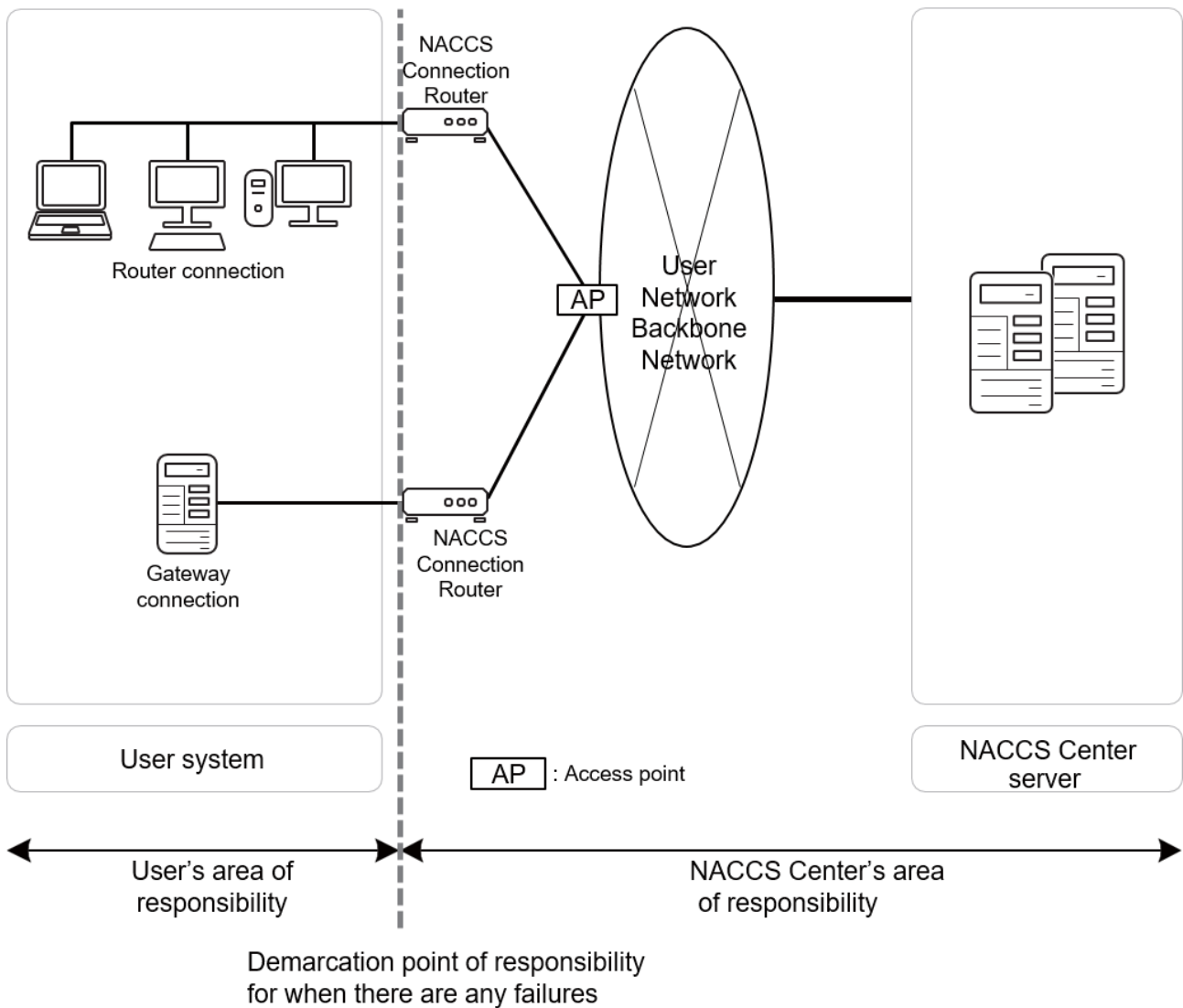NACCS Center shall assume liability for failures between the NACCS Center server and the NACCS Connection Router on the user side.

Figure 2.7.4 Area of responsibility for when there are any failures