



Safety Precautions




Various symbols are used throughout this manual. These are used to emphasize important points for your safety and that of others.

The following are the symbols and their meanings. It is necessary to fully understand these symbols before reading this manual.

For enquiries about PRIMERGY, refer to the "Contact Information" in the "Start Guide".





 Warning	Failure to observe this warning may cause serious injury or death, and/or destroy the system.
 Caution	Failure to observe this warning may lead to injury, destruction of the system, or loss of data.

The following symbols are used to indicate the type of warning or caution being described.


	A triangle mark emphasizes the urgency of the WARNING and CAUTION. Details are described next to the triangle.
	A barred circle (⊘) warns against certain actions (Do Not). Details are described next to the circle.
	A black circle indicates actions that must be taken. Details are described next to the black circle.

About the Server

Warning

-  • Do not place the server in an area with a weak floor. The floor might give way under the weight of the server.
-  • Do not place this server in a humid, dusty, oily, or smoky area. Do not place this server in an area with poor ventilation or in an area close to fire or other sources of heat. Doing so may damage the server as well as cause fire or an electric shock.
-  • Do not place the server in an area close to water. Doing so may damage the server as well as cause fire or an electric shock.
-  • The device (including the rack system) is designed in such a way that it will keep operating even after a vibration of 0.2 G. It is necessary when installing the rack system to secure the server/rack to prevent it falling over during an earthquake. Contact an office listed in the "Contact Information" of the "Start Guide" in relation to this and other earthquake proofing measures.

Caution

-  • Adhere to the following conditions when installing the server.

Parameter		Setting conditions
Temperature	Operating	10°C–35°C
	Resting	-5°C–55°C
Humidity	Operating	20%–80% RH
	Resting	(non-condensing)
Temperature ramp	Operating	Below 15 °C/hr
	Resting	(non-condensing)
Particulates		Below 0.15mg/m ³

⚠ Caution



- Keep the temperature within a 10°C to 35°C range.
Do not expose to direct sunlight or place near heating appliances. Do not install the server in an area where the temperature drops below 10°C. Operating the server outside of this temperature range may damage the server or reduce its life span.
- Do not use the server when the server's environment cannot be maintained within the range of 10°C to 35°C.
Pay special attention to the air conditioning schedule for holidays and after hours.
- During the summer, the air conditioning must be set to keep the environmental temperature below 35°C during operation.
- During the winter, control the heating system to limit ambient temperature rises to less than 15°C per hour to prevent condensation inside the server. Refer to the following figure for details about condensation.

		Room temperature (°C)							Remarks
		10	15	20	25	30	35	40	
Relative humidity (%)	20	-7	-5	-3	1	5	9	13	Example: When the temperature is 25°C and humidity is 60%, condensation will be formed in the server under 17°C.
	40	-3	2	7	11	16	20	24	
	60	3	8	13	17	22	26	31	
	80	7	12	17	22	26	31	—	
	90	9	13	19	24	29	34	—	



- Do not use the server in an area affected by corrosive gas or in a salty environment. Doing so may damage the server.
Corrosive gas and salt air can corrode the server and will cause malfunctions, damage, and shorten the life span of the devices. Therefore, it is necessary to take preventative measures such as installing air-cleaning devices. Installing the server in a dusty area can also cause damage to the memory, hinder cooling of the device, cause malfunctions and shorten the life span of the device.
- Chemical factories and hot spa/volcanic areas are sources of emissions of corrosive gas.
- A salty area is defined as an area within approx. 500m of the coast.
- Do not string the connecting cables in a way that they become trip hazards. Doing so may damage the server and cause injury.
- Do not place the server in areas where strong magnetic fields are generated, such as near TVs and speakers, as doing so may damage the server.
- Do not block the ventilation holes. Leave a space of at least 20cm between the server and the wall. Poor ventilation traps the heat which may lead to fire.

⚠ Caution



- Do not place heavy objects on the server. Do not drop anything on it or strike it. Doing so may cause the server to lose its balance and fall over or cause a failure or error.
- Do not place the server unit on a slanted, unstable surface or in areas that tend to shake. Doing so may cause it to tip over and injury. As a preventative measure, do not place the server in heavy traffic areas such as in a hallway. Passersby may shake the unit and cause damage or malfunction.
- Shutdown all power and disconnect all cables and peripherals (e.g. mouse, keyboard, etc.) when moving this server.
- When carrying this server, be sure to note the following:

Weight of the server	Number of workers needed
18kg or more	2 or more
36kg or more	3 or more
54kg or more	4 or more

Do not hold and/or carry the server by the front door. The door may come loose causing the server to fall which will in turn cause injury or damage the server.



- Be sure to attach the stabilizers to the base of the rack of servers to minimize the risk of injury in the event of vibration.

Power/ Voltage/ Connections








* The warning labels for power cables and power plugs include cautions for using an AC adapter.

⚠ Warning




- Do not use a voltage other than that displayed. Also, do not use a double adapter. Doing so may lead to a fire or cause an electric shock.
- Do not handle the power cable with wet hands. Doing so may cause an electric shock.
- Do not damage or modify (i.e. cutting or extending) the power cable. Heating, forced bending, twisting, pulling, or placing heavy objects on the power cable may damage it, causing fire or electric shock.
- Do not use the power cable or the power plug if it is damaged or if the plug outlet is not firmly connected to the cable. Doing so may cause a fire or an electric shock.
- Do not bundle or bind power cables together. Doing so may cause a fire.
- Do not use an AC adapter that is different from that described in the manual. Also, do not tinker with or disassemble the AC adapter. Doing so may cause injury or fire.

Warning



-  Do not use a service outlet that is different from that described in the manual. Doing so may cause injury or fire.
-  When unplugging the power cable, do not pull the cable, unplug by grasping the plug. Pulling on the cable may expose the cable's wiring or break the cable, causing a fire or an electric shock.
-  Use a dry cloth to remove all dust from plugs and power outlets. Failure to do so may cause a fire.
-  For servers that need an earth, ensure the earth has been grounded before turning on the power. If you cannot connect the earth, contact an office listed in the "Contact Information" of the "Start Guide". A short circuit may lead to a fire or cause an electric shock.
-  If a thunder storm is occurring nearby, unplug the server's power cable and modular cable. Failure to do so may cause destruction of the server by lightning and cause a fire.
-  When it is necessary to move the server, make sure to unplug the power plug and to disconnect the power cables. Pay attention to where you are stepping while working. If power cables are damaged, they may cause a fire or an electric shock and if the server falls, it may cause injury.
-  When the server is not used for a long period of time, unplug all power plugs. Failure to do so may lead to a fire or cause an electric shock.

Caution

-  Ensure the plug is fully inserted into the inlet/power outlet. Failure to do so may lead to a fire or an electric shock.











If an Error Occurs

Warning




-  In the event of heat, smoke, a strange smell or noise coming from the server, immediately turn off the power and unplug the power source. After checking that the smoke is gone, contact an office listed in the "Contact Information" of the "Start Guide". Do not attempt to repair the server by yourself. Using the server without repairing it may cause a fire or an electric shock.
-  If a foreign object (water, pieces of metal, liquid, etc.) falls into the server, immediately turn off the power and unplug from the power source. Please contact an office listed in the "Contact Information" of the "Start Guide". Failure to do so may cause a fire or an electric shock. Extreme care should be taken in households with young children.

Handling the Server

Warning

-  Do not attempt to tinker with the server. Doing so may lead to a fire or cause an electric shock.
-  Do not remove the covers of this server and its slots except when installing optional equipment. Contact an office listed in the "Contact Information" of the "Start Guide" to request internal check or repair. Areas of high voltage in the server may cause an electric shock.
-  When opening the server cover or movable parts, work in an area out of reach of children. Also, do not leave the device until the work is finished. If children touch the device, they may be injured by the server or sharp edges inside, or may cause a device failure.
-  Keep removed covers, caps, screws and other small objects that children might swallow out of their reach. If swallowed, contact a doctor straight away.
-  Do not use the server if nothing can be displayed on the screen or in other failed states. Doing so may cause a fire or cause an electric shock. Contact an office listed in the "Contact Information" of the "Start Guide" to request repairs.
-  Do not insert or drop foreign objects such as metals or inflammable objects into openings in the server (ventilating holes, etc.). Doing so may damage the server as well as cause fire or an electric shock.
-  Do not place vases, flowerpots or cups containing water or metal objects near or on the server. Doing so may damage the server as well as cause fire or an electric shock.
-  Do not use any inflammable aerosol cleaners. Doing so may damage the server as well as cause fire.
-  When using insect killer to perform pest control in the vicinity of this device, stop the server and cover it with plastic sheets.
-  Do not pour or spill water on this server. Doing so may damage the server as well as cause fire or an electric shock.

Caution

-  Do not obstruct the openings (ventilation holes). Doing so may cause overheating and fire.
-  Do not place heavy objects on the server. Also do not jolt the server. Doing so may cause the server to lose its balance and fall over causing injury.
-  Do not insert your fingers into the floppy disk drive, CD/DVD drive or IC card slots. Doing so may cause injury.

Handling the Optional Devices

Warning



- Before installing or removing optional devices from the server, turn off the server, all peripheral devices, and any other connected devices and unplug the power source. Failure to do so may cause an electric shock.



- Do not connect anything that is not recommended by FUJITSU. Doing so may damage the server as well as cause fire or an electric shock.



- When connecting a double modular plug to the modem card attached to the server, do not insert your finger in the open slots. Doing so may cause an electric shock.

Caution



- Two or more people are necessary to carry heavy devices such as the display. Failure to do so may cause injury.

Handling Batteries

Warning



- After removing used batteries, keep them out of the reach of children. If swallowed, contact a doctor straight away.

Caution



- Do not use batteries not listed in the manual. Also, do not mix new and old batteries. Doing so may cause fire, injury and contaminate the area by explosion or leakage of batteries. Follow the manufacturer's instructions when disposing of used batteries.



- Do not heat, disassemble, or put the battery in fire or water. Doing so may cause fire or injury and contaminate the area by explosion or leakage of batteries.



- Do not recharge dry cell batteries. Doing so may cause fire or injury and contaminate the area by explosion or leakage of batteries.



- When inserting batteries, make sure the plus and minus are facing the correct way. If they are not, the batteries will be damaged and batteries will leak and cause fire or injury and contaminate the area.

Handling the Rack

Caution



- Do not block the rack openings (ventilation holes). Doing so may cause overheating and fire.



- Contact an office listed in the "Contact Information" of the "Start Guide" to replace a display. If the display falls, it may cause injury.



- When pulling out the mouse table, lock the arm rest securely. If you pull out the table without doing this, the mouse table may be damaged.



- Do not rest your elbow on the mouse table. Doing so may damage the table.



- When performing operations on the server somewhere under the keyboard table after pulling it out, be careful not to bump your head. Failure to do so may lead to injury.



- If the server is installed in a multipurpose table, secure the server to the table using the belt provided.



- Be sure to attach stabilizers to the base of the rack to minimize the risk of injury in the event of vibration.



- When moving the rack after installing it, contact an office listed in the "Contact Information" of the "Start Guide". If the rack/device is not moved correctly it may be damaged.

Other

Caution



- Do not use a cell phone near the server. The server may not work properly.



- In the interests of health, take a 10 to 15 minute break every hour to rest your eyes and hands.



- When using headphones, be careful not to raise the volume too high. Listening to loud noises for long periods of time may damage your hearing.



- Do not turn on/off the power while wearing the headphones. Doing so may damage your hearing.