Contents

Safety Information.....5
Safety Guidelines 5
Replacing a drive.....7
Removing an individual drive.....7
Installing a drive.....7
Replacing a power supply.....9
Removing a power supply.....9
Installing a replacement power supply.....9
Replacing a chassis (node).....11
Removing an existing node.....11
Installing the replacement node.....11

Safety Information

Safety Guidelines

Observe the safety precautions listed here whenever you are adding, removing, or replacing and Field Replacement Unit (FRU). If your environment requires more strict guidelines, always observe the strictest guidelines presented.

Site safety

Ensure that your site is safe for operation and replacement activity. Your environment should be:

- Clean, dry, and free of airborne particles.
- Well-ventilated and away from sources of heat including direct sunlight and radiators.
- Away from sources of vibration or physical shock.
- Isolated from strong electromagnetic fields.
- Provided with a properly grounded wall outlet.
- Provided with sufficient space to access the power supply cords.
- Mounting of the equipment in the rack from the bottom up to avoid uneven mechanical loading.

Electrical safety

- Before installing or removing cables, ensure that the power cords for the system are unplugged.
- Disconnect the power cable from the electrical outlet before relocating the system.
- When adding or removing any device to or from the system, ensure that the power cords for those devices are unplugged before the signal cables are connected.
- Use one hand, when possible, to connect or disconnect signal cables to prevent a possible shock from touching two surfaces with different electrical potentials.

General safety

Always follow safety guidelines for lifting, storing, and replacing.

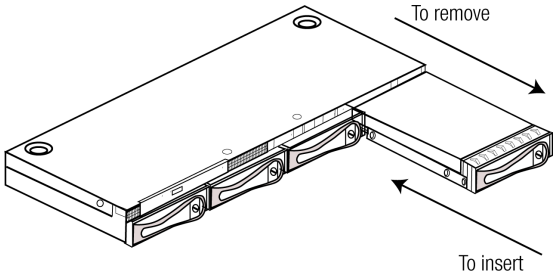
Replacing a drive

Removing an individual drive

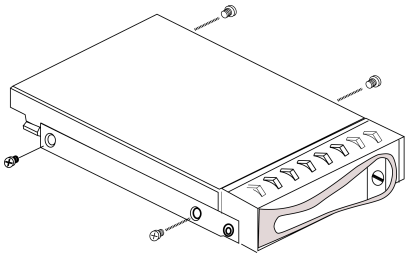
Disconnect all necessary cable connections before beginning.

To remove the failed drive:

1. Turn the lock counter-clockwise to release the lever from the HDD.
2. Slide the release button to the direction of the arrow, and the lever will be lifted automatically.
3. Slide the drive assembly out of the HDD bay.



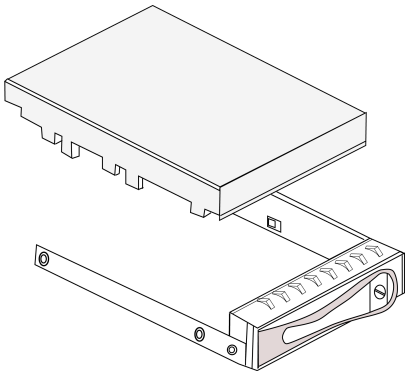
4. Remove the screws on either side of the carrier and lift the drive out of the carrier.



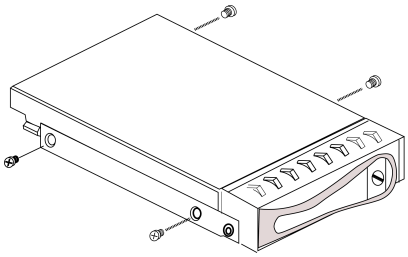
Installing a drive

To install a drive:

1. Place the drive into the HDD tray.



2. Secure the HDD with four screws (provided).



3. Carefully insert the HDD assembly into the bay with the lever lifted until it completely enters the bay. You should feel it "set" into the assembly bay.
4. Push the lever back in place.
5. Turn the lock on the lever clockwise to secure the drive.

Replacing a power supply

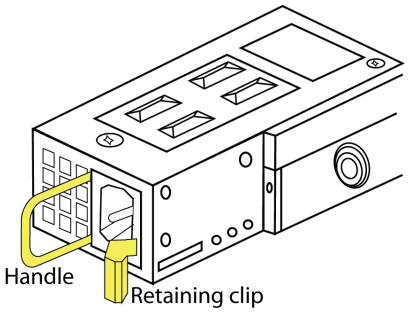
Removing a power supply

There are two power supplies for each node. If one should fail, the other will maintain the node until the failed unit can be replaced. Power supplies are located at the right rear of the chassis. Have the replacement power supply ready before removing a failed one.

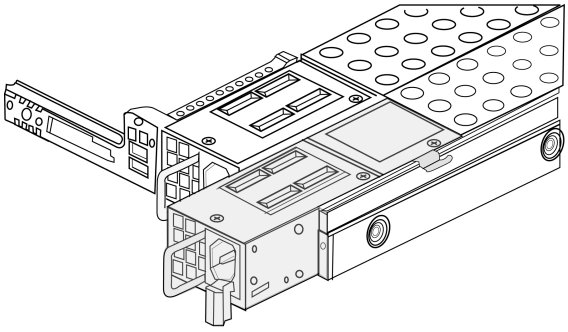
⚠ **Caution:** Never remove a power supply that is connected to a power source. Follow all safety guidelines.

To remove a failed power supply:

1. Press the retaining clip on the lower right side of the power supply. At the same time, pull out the power supply by using its handle.



The power supply takes considerable force to remove.

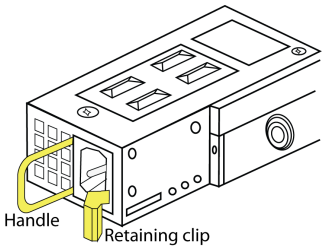


2. To also remove the power cage, loosen the screws from the chassis.
3. Remove the power cage by pushing the power cage out of the chassis.

Installing a replacement power supply

1. Make sure that there is no power to the node.
2. Firmly grasping the replacement power supply, slide the power supply into the power cage slot.

Push the power supply into the cage until the retaining clip snaps.

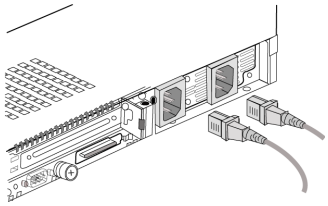


3. If you removed the screws from the side of the chassis, replace them.

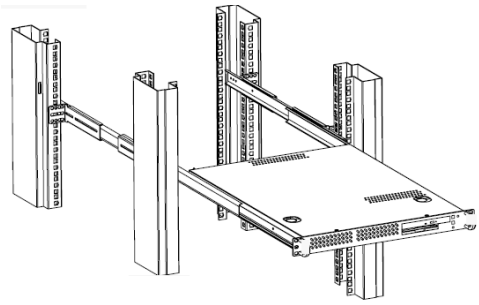
Replacing a chassis (node)

Removing an existing node

1. Power off the node and remove both power cords.

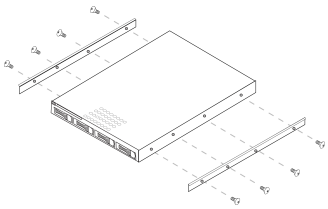


2. Remove all cables from the node.
3. Remove the screws that secure the node to the rack rails.
4. Carefully, using proper safety and lifting precautions, slide the node out of the rack.

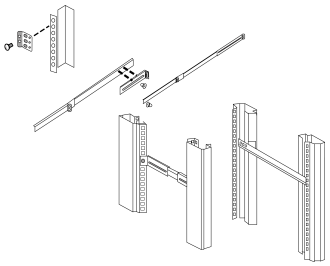


Installing the replacement node

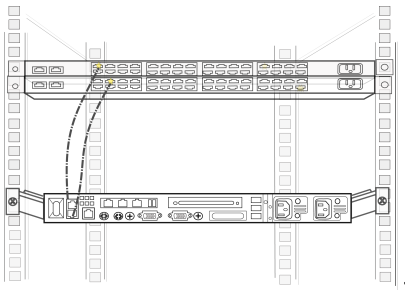
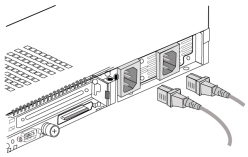
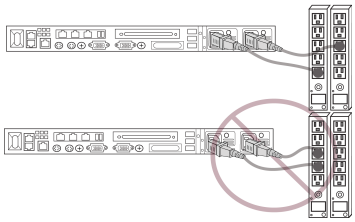
1. Install the inner rails onto both sides of the MCN4000 chassis.



2. If the original rack rails were removed, reinstall the outer rails onto the rack.



3. Maintaining standard safety precautions, lift the node, slide it into the rack, and secure it.
4. Connect the node to the Ethernet switches.



5. Plug both power connector cables into the node, and into a different power source.