

# Adding a New RTU/PLC to a MISER System

If **CHANGING** the Host end setup of an existing unit, refer to † below.

1. If necessary, setup any new Terminal Server and its relevant serial port with the correct line speed, parity, stop bits, Remote Access, etc. This is only applicable if the new unit will communicate serially, and requires a new serial connection.
2. If necessary, edit `CONFIGURE_GENERIC.COM`.
  - a. If necessary, add a Line Terminal (serial) Device (`@MNET$COM: SETUP_LAT` or `TELNET` command) or a Line Logical (`DEF/SYS` – for a Network RTU/PLC) thus adding a Line.
  - b. If a Line Terminal Device (`LTAx` or `TNAx`) was added above, or an existing Terminal Device is newly in use talking to the new unit, add a `@MENT$COM: RTUPOINT` command to setup the device.
  - c. Add any logicals (i.e., `FIRST_POINT_x_xxx`) that are necessary to make the new unit work.
  - d. Save the file and exit the edit session by pressing `<Ctrl-z>`.
  - e. Run `DIFF CONFIGURE_GENERIC.COM` to verify that **only** the desired changes were made and that those changes appear to be correct.
  - f. Run `NET_DIST CONFIGURE_GENERIC.COM` to ensure that each configuration file across the all of the MISER Hosts and Workstations is the same. In this way, there are multiple backups of each file in the MISER system.
3. If Step 2 was necessary, then on all relevant computers (most often the A and B Hosts) redo `DIFF SITE$COM: CONFIGURE_GENERIC.COM` and copy/paste the new commands into the command prompt, so that they function without rebooting the system. Do not forget to do this also on the Standby Host if there is one.
4. If Step 2 was necessary, next add the new line in `NCCGEN`.
  - a. `NCCGEN SET DEAFULTS/NEW_LINE=FTWxxx: :n:mm`
  - b. `NCCGEN SH ALL/LINE=FTWxxx: :n:mm`
  - c. Change Line parameters as needed.

**NOTE:** This is to avoid having to reboot the system.

5. If the new RTU/PLC is a network device (has an IP address), it is possible to add a Hostname for it to the Static TCP/IP database on each MISER Host / Workstation. Refer to the HSQ User Note: [Adding an Item to the Host Database](#) for details.
6. If the new RTU/PLC is a Network device it may be necessary to add the file `SITE$DATA: *.RTU` for it. This is necessary for RTUs using the HSQ, BACnet, or SNMP protocols because the system needs more

## ADD RTU TO MISER

information than just an IP address for each unit. For instance, for HSQ RTUs, the IP address must be associated with a MISERnet RTU address.

7. Edit `CONFIG.DAT` (required). In order to avoid having to reboot, place the new NCC entry (if there is a new NCC) and the new RTU entry at the **END** of the `$NETWORK` section of `CONFIG.DAT` (i.e., just before the `$DATABASE` section).
8. Run `DIFF CONFIG.DAT`.
9. Run `NET_DIST CONFIG.DAT`.

Review the HSQ User Note: [Using SYSMOD](#) for detailed information on SYSMOD.

† If you are dynamically **CHANGING** the setup of an existing unit in `CONFIG.DAT`, instead of adding a unit, it is necessary to **BLOCK** that unit (**BKR**) before running **SYSMOD**.

10. On the system Online Host, run **SYSMOD** and enter <y> when prompted to make changes.
11. Use `NET_CMD` to run **SYSMOD/CN** on all the remaining MISER computers.
12. Entering `USR FTWxxx: :n:mm` should now show the new unit.
13. `NCCGEN SHOW ALL/RTU=FTWxxx: :n:mm` should show the **CURRENT\_LINE** to be the correct line.
14. † If the unit was blocked in Step 10 above, unblock it now using **UBR**.
15. Entering **USR** should now show the unit as UP.