MineNet Software and Master Station

1. **Entering Personnel into the system.**
   a. Unlock the configuration bar menu at the top of the MineNet tracking monitor screen.
   b. Click the PERSONNEL button on the far upper left of the screen.
   c. The screen that pops up should have the current personnel list in it, click on the **+** button to insert record.
   d. A new line should be inserted into the list.
   e. Under **TagID** enter the number on the tracking tag to be assigned.
   f. Under **MinerID** enter the number on the employee's brass tag. Usually the last 4 digits of SSN or personnel #.
   g. Enter the employee's name in the appropriate column, and any other additional information that is necessary in the other columns.
   h. Click on the **√** button to post edit. Click the **+** to continue entering data.
   >   (Note, if you scroll over the buttons with the mouse pointer without clicking on them, it
   >   should display each buttons function on the lower left hand corner of the screen.)
   g. When finished entering data, close the Personnel screen down and click the SAVE button once, then click the BACKUP button once.

2. **Entering Smart Readers and Repeaters into the system.**
   a. Click on the READERS button on the configuration bar menu. (Beside the PERSONNEL button)
   b. Click on the arrow that is in the Reader box, a list of readers should lower, find a reader address that is not being used.
   >   (LOCATION will be empty and the POLL will be disabled if it is not being used)
   >   (Example, Reader 1 is address 1, Reader 2 is address 2, and so on.)
   c. In the box marked LOCATION, enter location in the mine where Smart Reader will be located
   >   (Example, 2 Belt Break 40)
   d. Change Disabled to Enabled in the box marked POLL.
   e. Under ZONE A, ZONE B, ZONE C, ZONE D; enter the exact location of the antennas that are coming off of the Smart Reader.
   >   (Example, under ZONE A type in "2 Belt Break 40 Track", under ZONE B type in "2 Belt
   >   Break 40 Belt Line")
   f. When finished entering data close the Configure Readers screen down, click the SAVE button once, then click the BACKUP button once.
   g. Follow same procedure for entering REPEATERS into the system.

3. **Loading a Map Screen and placing Map zones.**
   a. There must already be a drawing of the Map saved on the computer. Needs to be a .bmp or .jpeg file to load into the Map Screen.
   b. Click UNLOCK button, Click the MAP button. Click Load Map button if Map is not already on the screen.
   >   1. Change "Look In" box to location where map is saved. Click on the map file and click
   >   open.
   c. Click on ALL READERS button, if you do not know the address of the zone needing to be placed. Find the location and the address of the reader. Go back to the map screen and change the zone in the box to the address and sub zone that needs to be placed.
   >   For example, Zone 1A corresponds to the reader at address 1 sub zone A.

d. Once zone is highlighted, click the IDENTIFY button. Move mouse over to the Map Screen and left click where the zone needs to be placed.

e. To clear a zone from of the map screen, highlight the zone to be removed, Click the CLEAR button.

4. Running Checks on the computer station and system.

a. Look at the USB-4011 that is near the Master Station computer. Power light should be on and the RX and TX light should be flashing rapidly.

> 1. TX light flashing means that Master Station is attempting to transmit data to the field.
>
> 2. RX light flashing means that data is being received from the field.

b. If TX light is not flashing, try closing the MineNet program, cut the USB 4011 power switch off. Cut USB 4011 back on, wait 10 seconds or until you hear the communication relay click in the 4011, try opening the MineNet program again.

c. If error comes up saying "Can't open USB". Check to make sure everything is connected properly to the 4011, then check the fuses on the inside of the 4011 enclosure.

d. Click on ALL READERS button, this should bring up a list of all the readers in the mine that are currently enabled. Look in the Reply column to see which readers are OK and which readers are No Reply.

e. To determine where the problem is pay attention to where the last reader is that is working properly.

f. Usually, if a string of Readers is No Reply, then the repeater that feeds the first Reader in line has a problem.

g. If one or two non-consecutive Readers are not working properly or No Reply, the problem is usually with the Reader itself.