

# *T/Mon LNX, MINI G2, SLIM G2*

## QUICK START



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## Revision History

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June 14, 2019	Minor updates
August 27, 2015	Updated screen shots
February 27, 2014	Added browser compatability info
February 4, 2014	Initial Release

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# 1 T/Mon Overview



DPS is proud to announce the latest in alarm management technology - the T/Mon. It combines T/Mon NOC and EXP technology into one, blazing fast device. The T/Mon yields a cleaner configuration, especially for redundant systems. T/Mon features all the flexibility you expect from T/Mon, with a much faster processor and more RAM - just to name a few enhancements - as it lays the foundation for the future of T/Mon.

The T/Mon Remote Alarm Monitoring System is a multiprotocol, multifunction network alarm manager designed as a single-platform solution for all alarm monitoring applications. T/Mon collects alarm data from a wide variety of equipment, regardless of manufacturer or protocol, and displays the state of your entire network in one interface, eliminating the need for specialized terminals. T/Access is a thing of the past for the LNX, as it supports a fresh, new web interface offering more flexibility and visibility than ever.

## Immediate benefits of upgrading to the T/Mon platform:

- **6 10/100/1000 NICs** versus a single 10/100 in the NOC. With multiple LAN configurations becoming increasingly popular for security reasons, your T/Mon LNX can communicate on 6 networks while maintaining IP segregation. *\*For LNX and G2 only. T/Mon MINI G2 has 2 10/100/1000 NICs.*
- **Processes more** ASCII jobs, virtual polling loops, and more GFX connections - faster
- **Completely compatible** with existing T/Mon EXP applications, such as the SQL History Agent and Voice Dialer
- **On-board RAID 1 for true hard drive redundancy**
- **Better multi-tasking** environment to allow more, faster

## 2 Shipping List

While unpacking the T/Mon, please make sure that all of the following items are included. If some parts are missing, or if you ever need to order new parts, please refer to the part numbers listed and call DPS Telecom at **(800) 622-3314**.



**T/Mon Quick Start**  
**D-QS-TMLNX-12001**



**Ethernet Cable - 14 ft.**  
**D-PR-923-10A-14**



**T/Access Cable (DB9 to DB9)**  
**D-PR-1053-10A-10**



**D-CS-538-20A-01 19" Rack Ears**



**D-CS-538-20A-02 23" Rack Ears**



**4-Pin Barrier**  
**(Shipped with DC powered units only)**  
**1-820-00814-02**



**2-Pin Barrier**  
**(Shipped with DC powered units only)**  
**1-820-00862-02**



**Standard Rack Screws**  
**1-000-12500-06**



**Metric Rack Screws**  
**1-000-80750-03**



**5 Amp Fuse**



(Shipped with DC powered units only)



1-000-80375-02 Ear Screw

AC Power Cord

(Shipped with AC powered units only)

### 3 Specifications

<b>Processor</b>	3.2 GHz Hexa-Core 8th generation I7
<b>RAM</b>	16 GB
<b>LAN Interfaces</b>	Six 10/100/1000 BaseT ports (Gigabit) on T/Mon LNX/SLIM, 2 on TMon MINI
<b>Serial Ports</b> None of T/Mon MINI G2	Support for 16 docking modules on T/Mon LNX, 8 on T/Mon SLIM G2,
<b>Hard Drive</b>	Dual 1TB SATA drives in RAID 1 Configuration
<b>Standard Input Protocols</b>	DCP, DCPf, DCPx, Ping
<b>Standard Output Protocols</b>	DCP, DCPf, DCPx
<b>Optional Input Protocols</b>	SNMP, ASCII, Badger, Cordell, DCM, E2A, Granger, Larse, Modbus, NEC, NTP, Pulsecom, TABS, TBOS, Teltrac, TL1
<b>Optional Output Protocols</b>	ASCII, SNMP, TABS, TL1
<b>Power Input</b>	Dual -48VDC power feeds or 110 VAC (depending on ordering option)
<b>Current Draw:</b>	3.5 Amps peak at -48VDC, 2.0 Amps peak at 110VAC
<b>Fuse</b>	Two 5-Amp GMT fuses (DC version only)
<b>Dimensions:</b>	LNX: 8.75" H x 17" W x 14" D (6 RU) SLIM / MINI: 5.25" H x 17" W x 14" D (4RU)
<b>Weight</b>	28 lbs (30 lbs with slide rack)
<b>Visual Display</b>	Front panel LCD
<b>Removable Storage</b> only	CD/DVD burner drive (supports CD-R, CD-RW, DVD+/-R), T/Mon LNX
<b>Printer Support</b>	Via LPT printer port
<b>Unit Controls</b>	4 LCD menu control buttons
<b>Mounting</b>	19" or 23" rack
<b>Fans</b>	3 internal, 1 CPU
<b>Operating Temperature</b>	41° to 95° F (5° to 35° C)
<b>Operating Humidity</b>	0% to 90% (non-condensing)
<b>Windows Compatibility</b>	XP, Vista, 7, 8.1, 10 32/64 bit
<b>MTBF</b>	60 years
	EMC: Tested to EN55022/55024 Safety: Tested to EN60950-1 Both AC and DC variants have been certified for CE

## 4 Hardware Installation

### 4.1 Mounting

#### ***Slide Rack Mounting - Optional Accessory (T/Mon LNX only)***

The Slide Rack enables the T/Mon LNX to easily slide out of its rack position for installation and service access. Your T/Mon shipped with the Slide Rack already mounted to the unit and with the specified rack ears in the correct position for installation. Installing the T/Mon with Slide Rack takes three steps:

1. Removing the Slide Rack from the T/Mon
2. Mounting the Slide Rack on the equipment rack
3. Mounting the T/Mon on the Slide Rack.

**Note:** The T/Mon with Slide Rack occupies 6 rack units of space. At least 1 rack unit (1 3/4") should be allowed above the T/Mon for ventilation. The Slide Rack extends nearly 13" — be sure to provide adequate service loop in the connecting cables to allow the T/Mon LNX to extend to this distance. After installation and testing of the T/Mon is completed, the slide lock screws should be installed in the Slide Rack to prevent accidental migration of the unit into the aisle space. The slide lock screws go into the equipment rack when flush mounted.

#### ***Removing the Slide Rack From T/Mon LNX***

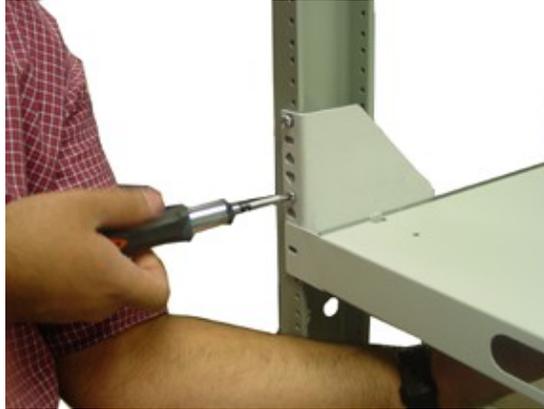
Removing the Slide Rack makes mounting the T/Mon is an easy, one person, job. To remove the Slide Rack, follow these steps:

1. Make sure the T/Mon is off and disconnected from all network interfaces and power supplies.
2. Carefully place the T/Mon upside down on a clean, even surface. (This will not damage the unit.)
3. The T/Mon is secured to the Slide Rack by two screws — see Figure 4a. Remove these screws and save them for reattaching the unit.
4. Gently lift the Slide Rack to remove it from the T/Mon.

### ***Mounting the Slide Rack - Optional***

The Slide Rack is light and can easily be mounted to the equipment rack by one person. The rack ears specified with your order (either 19" or 23") are already attached to the Slide Rack. (If the incorrect ears have been attached to the Slide Rack, look for the extra ears included with your shipment.) To mount the Slide Rack to the equipment rack, follow these steps:

1. Supporting the Slide Rack with one hand, align the mounting holes in the rack ears with the rack rails.
2. Secure both brackets with the rack screws provided in the hardware bag.



**Slide Rack Mounting**

### ***Mounting the T/Mon LNX on the Slide Rack***

To mount the T/Mon on the Slide Rack, follow these steps:

1. Extend the Slide Rack.
2. Lift the T/Mon and place it on the Slide Rack.



**Place the T/Mon on the extended Slide Rack**

3. Gently place the T/Mon onto the mounting tabs.
4. From below the T/Mon, insert the two screws that secure the T/Mon to the Slide Rack.
5. Slide the Slide Rack back into place.



**Secure T/Mon to Slide Rack**

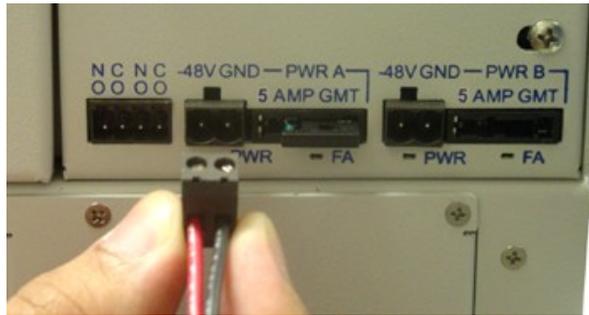
### ***Rack Mounting***

If you did not order the Slide Rack, your T/Mon is equipped with rack ears that can be positioned for either 5" projection or flush mounting in either 23" or 19" racks. To mount the T/Mon directly to the equipment rack, follow these steps:

1. Determine which mounting configuration is required. The T/Mon is supplied with the brackets in the 19" flush and 5" projection positions.
2. If a different configuration is required, remove the 8-32 screws, re-orient the brackets and re-install the screws.
3. Place the T/Mon in the rack and align the mounting holes in the brackets with the holes in the rack rails. Secure each bracket with two 12-24 screws (provided in hardware bag).

## 4.2 Power Connection: -48VDC

The T/Mon is powered by two screw terminal barrier plug power connectors.



Screw terminal barrier plugs

To connect the T/Mon to a power supply, follow these steps:

1. Always use safe power practices when making power connections. Be sure to remove fuses from the fuse distribution panel, as well as the back of the T/Mon, before making your power connections.
2. Use the grounding lug to connect the unit to earth ground. The grounding lug is next to the symbol . Insert the eyelet of the earth ground cable between the two bolts on the grounding lug (Ground cable not included).
3. Insert a battery ground into the power connector plug's right terminal and tighten the screw; then insert a battery line to the plug's left terminal and tighten its screw.
4. Insert a fuse into the fuse distribution panel and measure voltage. The voltmeter should read between -40 and -70VDC.
5. The power plug can be inserted into the power connector only one way to ensure the correct polarity. Note that the negative voltage terminal is on the left and the GND terminal is on the right.
6. Insert fuse into the Power A fuse slot. The power LED should be lit green. If the LED is red, the power connection is reversed.
7. Repeat steps 1 -6 for Power B connector.

## 4.3 Power Connection: 110VAC

These instructions apply only to T/Mon models with 110VAC power connection.



110VAC version of the T/Mon

1. Insert the power cord into the power inlet on the back of the T/Mon.
2. Connect the plug end to a 110VAC outlet.
3. Turn on the power switch on the back of the T/Mon to start the system.

## 5 Initial Setup

### 5.1 Changing T/Mon's IP Address via Serial Connection

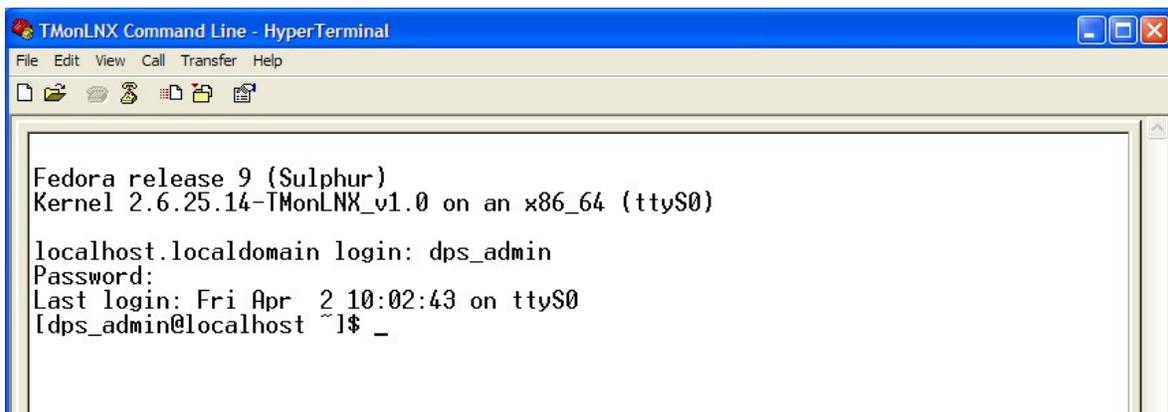
The following script is used to configure **Eth0** (main network interface). Refer to the next section to to create and define additional interfaces.

1. Connect a null terminated serial cable (T/Access cable included with the unit) from a PC's COM port to the T/Mon craft port.
2. Start HyperTerminal on your PC, located in the Start Menu > Programs > Accessories > Communications. Configure a serial port with the following information:

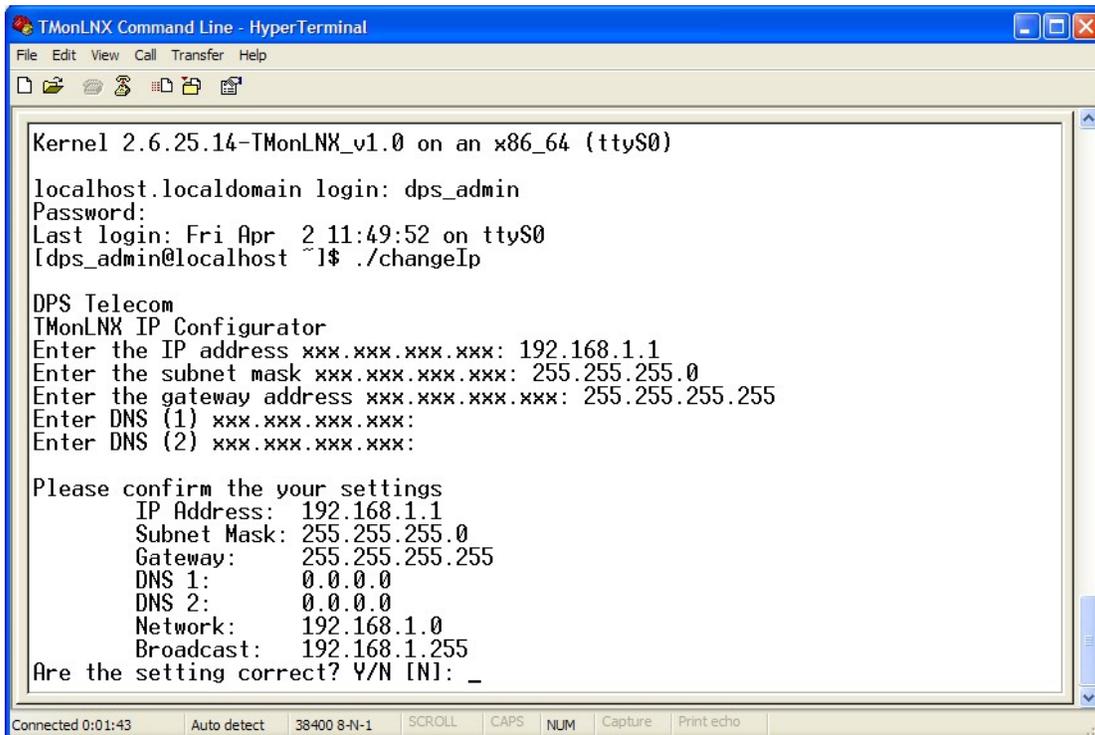
- 38400 bps
- 8 data bits
- No parity
- 1 stop bit
- No flow control



3. Connect HyperTerminal and Press Enter. A login prompt should appear.



4. Enter the default username "dps\_admin" and default password "dpstelecom" (without quotes)
5. Enter **./changelp** (case-sensitive; type without quotes, leads with a period) and press Enter. Enter in the new IP address, subnet, gateway, and DNS information.



```
TMonLNx Command Line - HyperTerminal
File Edit View Call Transfer Help
Kernel 2.6.25.14-TMonLNx_v1.0 on an x86_64 (ttyS0)

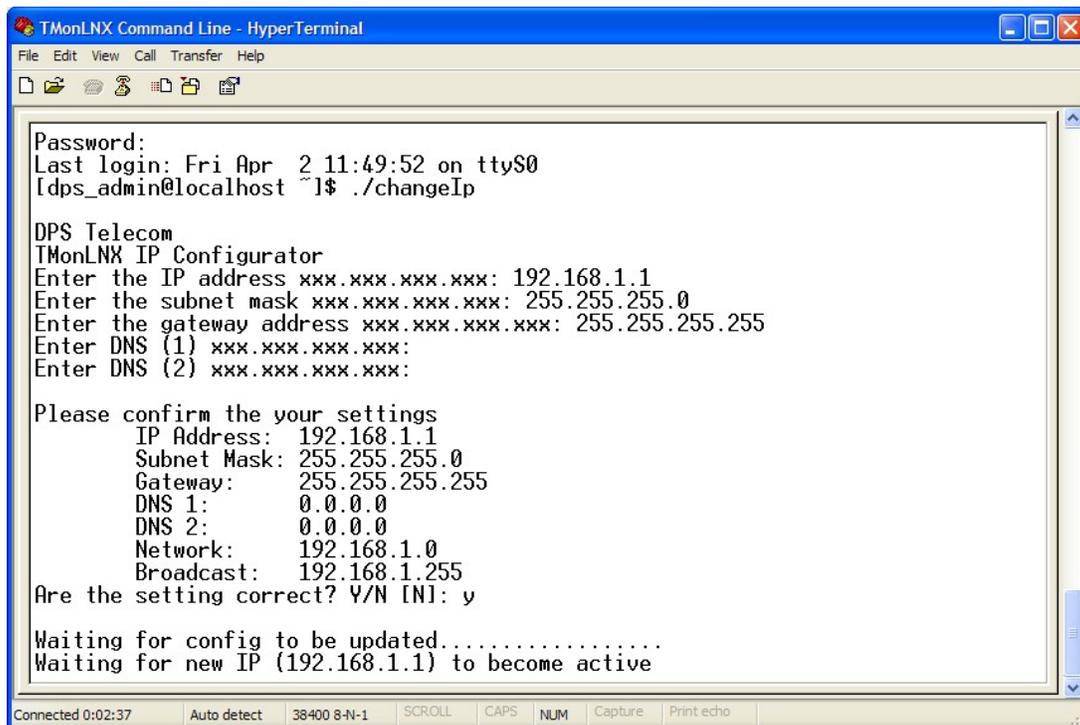
localhost.localdomain login: dps_admin
Password:
Last login: Fri Apr  2 11:49:52 on ttyS0
[dps_admin@localhost ~]# ./changeIp

DPS Telecom
TMonLNx IP Configurator
Enter the IP address xxx.xxx.xxx.xxx: 192.168.1.1
Enter the subnet mask xxx.xxx.xxx.xxx: 255.255.255.0
Enter the gateway address xxx.xxx.xxx.xxx: 255.255.255.255
Enter DNS (1) xxx.xxx.xxx.xxx:
Enter DNS (2) xxx.xxx.xxx.xxx:

Please confirm the your settings
      IP Address: 192.168.1.1
      Subnet Mask: 255.255.255.0
      Gateway:    255.255.255.255
      DNS 1:      0.0.0.0
      DNS 2:      0.0.0.0
      Network:    192.168.1.0
      Broadcast:  192.168.1.255
Are the setting correct? Y/N [N]: _

Connected 0:01:43  Auto detect  38400 8-N-1  SCROLL  CAPS  NUM  Capture  Print echo
```

6. Press Y to confirm the new IP address. The script will apply the new IP.



```
TMonLNx Command Line - HyperTerminal
File Edit View Call Transfer Help
Password:
Last login: Fri Apr  2 11:49:52 on ttyS0
[dps_admin@localhost ~]# ./changeIp

DPS Telecom
TMonLNx IP Configurator
Enter the IP address xxx.xxx.xxx.xxx: 192.168.1.1
Enter the subnet mask xxx.xxx.xxx.xxx: 255.255.255.0
Enter the gateway address xxx.xxx.xxx.xxx: 255.255.255.255
Enter DNS (1) xxx.xxx.xxx.xxx:
Enter DNS (2) xxx.xxx.xxx.xxx:

Please confirm the your settings
      IP Address: 192.168.1.1
      Subnet Mask: 255.255.255.0
      Gateway:    255.255.255.255
      DNS 1:      0.0.0.0
      DNS 2:      0.0.0.0
      Network:    192.168.1.0
      Broadcast:  192.168.1.255
Are the setting correct? Y/N [N]: y

Waiting for config to be updated.....
Waiting for new IP (192.168.1.1) to become active

Connected 0:02:37  Auto detect  38400 8-N-1  SCROLL  CAPS  NUM  Capture  Print echo
```

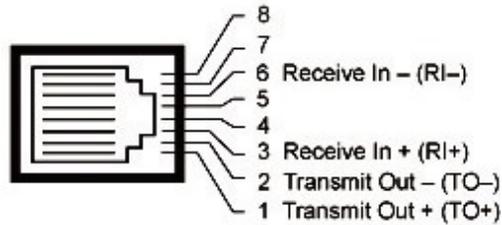
## 5.2 LAN Connection

Connect the T/Mon to your LAN by inserting a standard Ethernet cable into the "eth0" port, located on the rear of the unit.



Connecting the T/Mon to LAN

### RJ45 Ethernet Connection

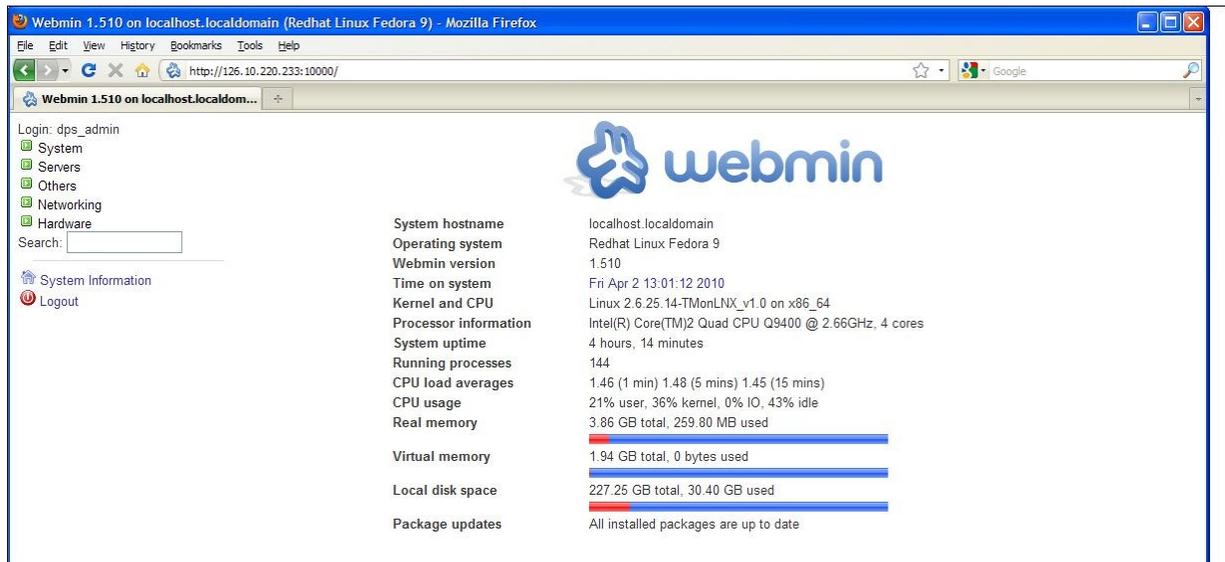


Ethernet port pinout

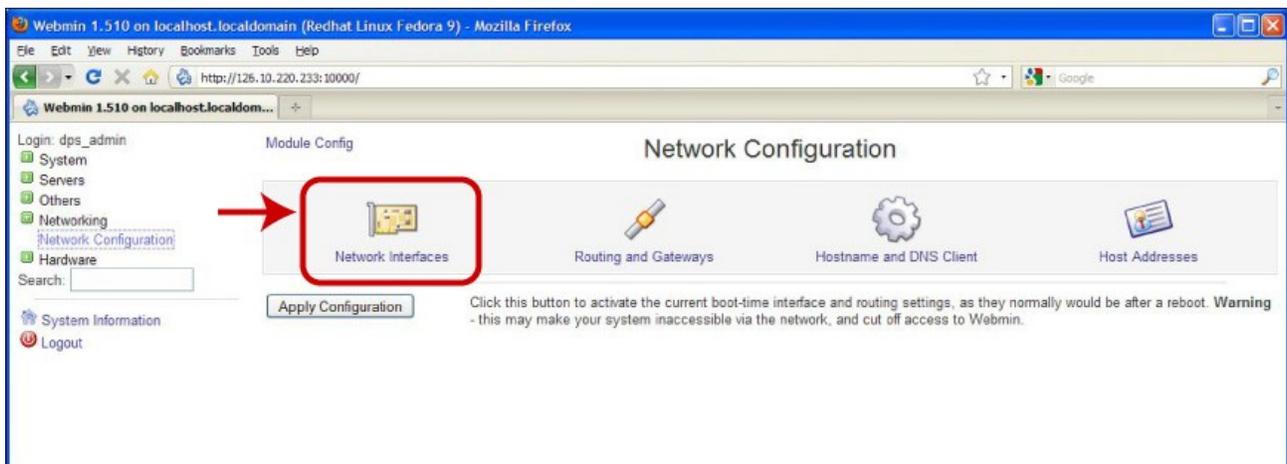
## 5.2.1 Configuring the NIC Interfaces

Your main network interface, Eth0, was created in the previous step. Use the following instructions for creating Eth1 through Eth5 (Network interfaces 2-6).

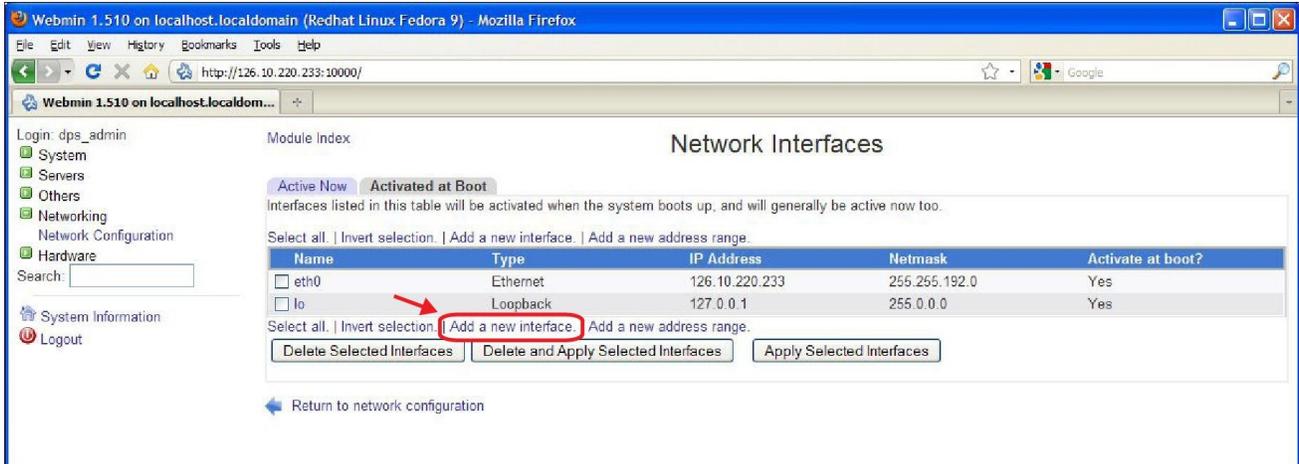
1. After giving the T/Mon an IP address, open an Internet browser and navigate to the IP at port 10000: <http://xxx.xxx.xxx.xxx:10000> (where x's are T/Mon's IP address)
2. Login with the default username of "**dps\_admin**" and password "**dpstelecom**"



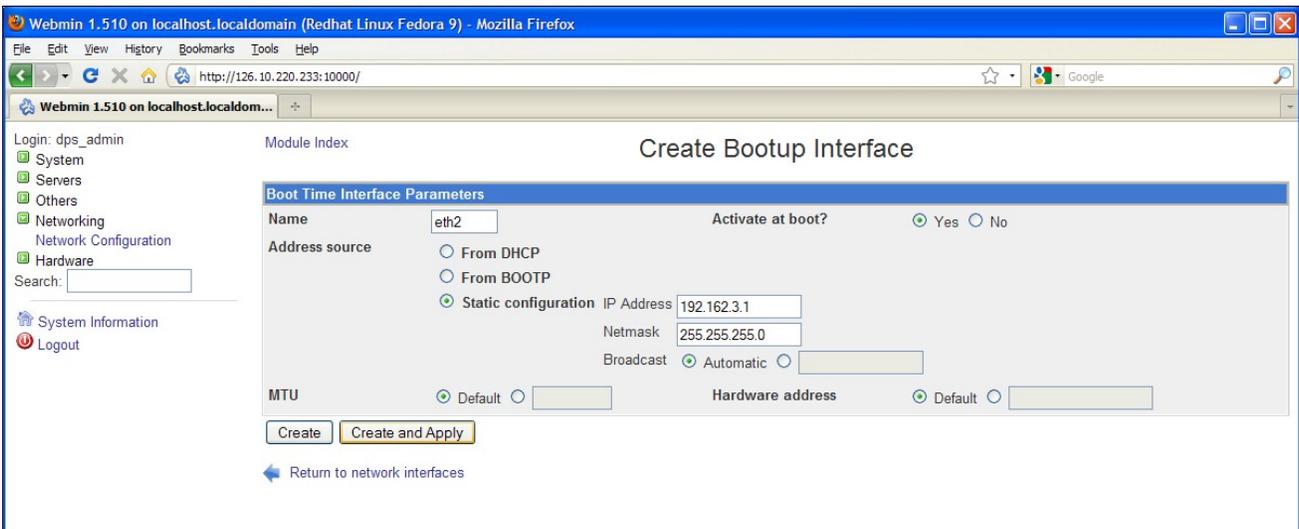
3. In the left frame, click on **Networking**, then click on **Network Configuration**.
4. In the right frame, click on **Network Interfaces**. Click on the **Activated at Boot** tab.



## 5. Click on **Add a New Interface**.

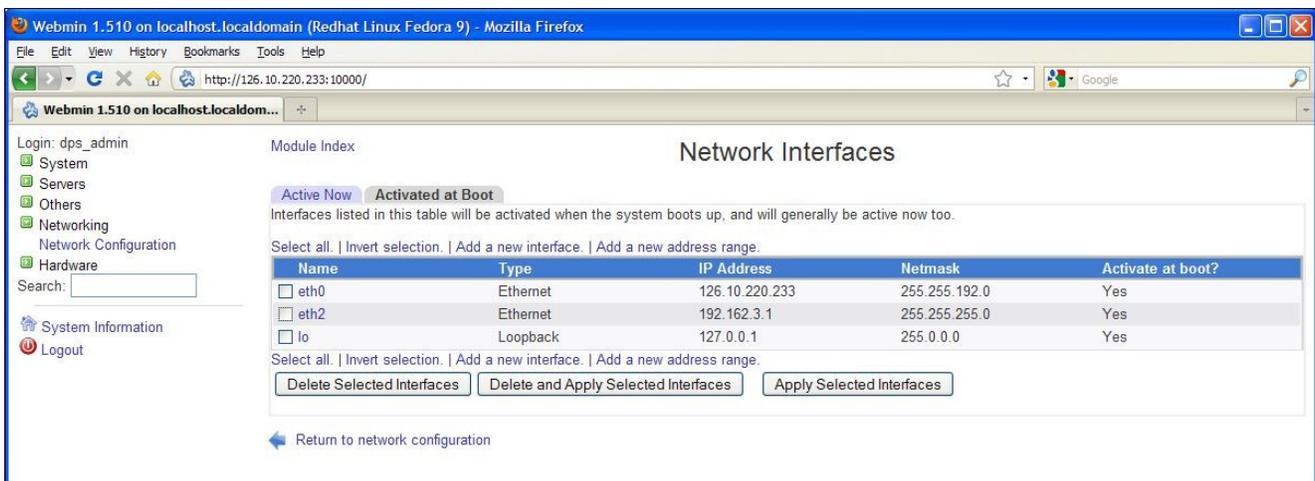


## 6. In the name field, enter the NIC label on the back of the T/Mon unit you want to use: eth1, eth2, eth3, eth4, or eth5. **NOTE:** If the network is not active, don't define.



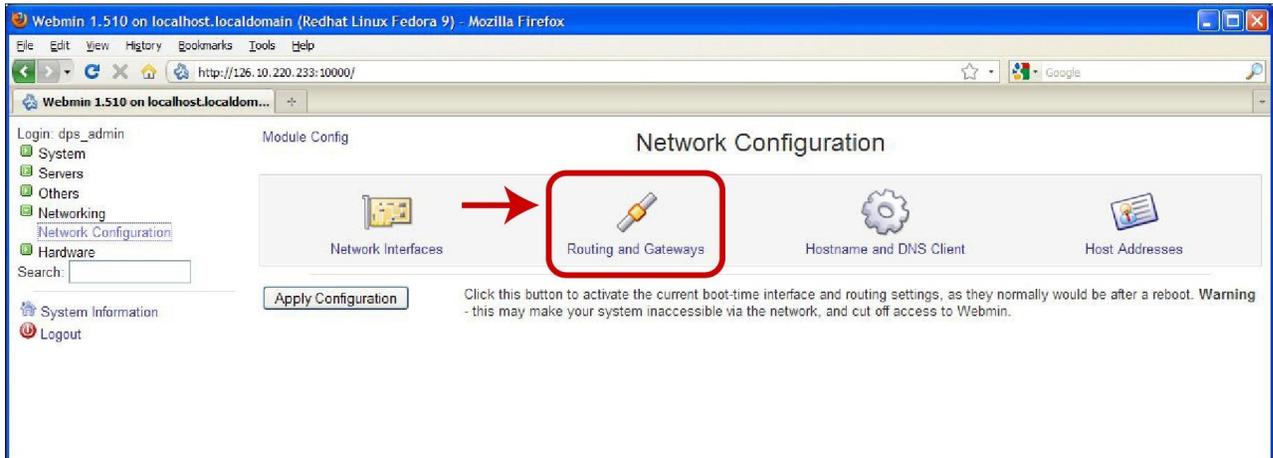
## 7. Click on **Create and Apply**.

## 8. The new interface should now appear on the list.

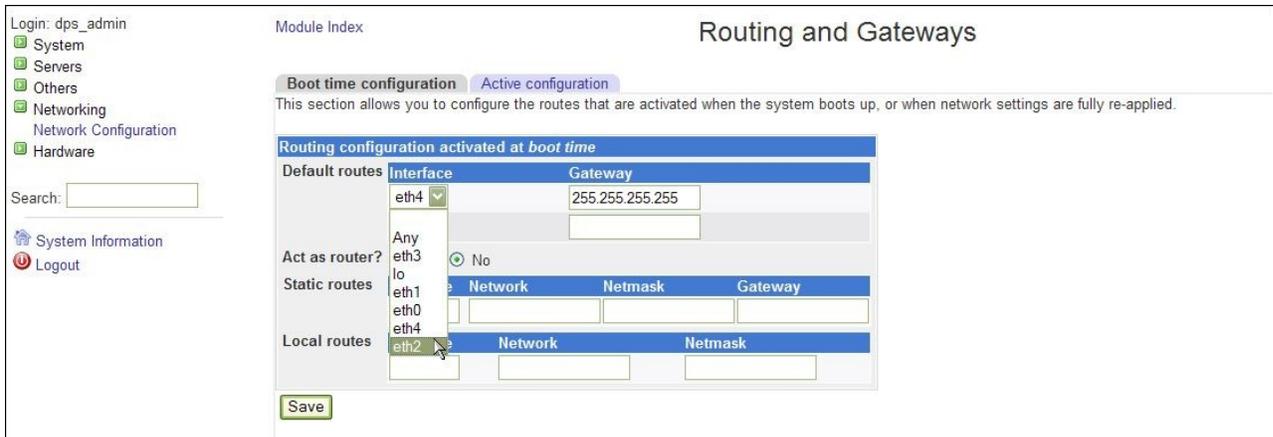


## 9. Adding gateways to new network interfaces:

- Return to the **Network Configuration** page from Step 3. This time, click on the **Routing and Gateways** icon.

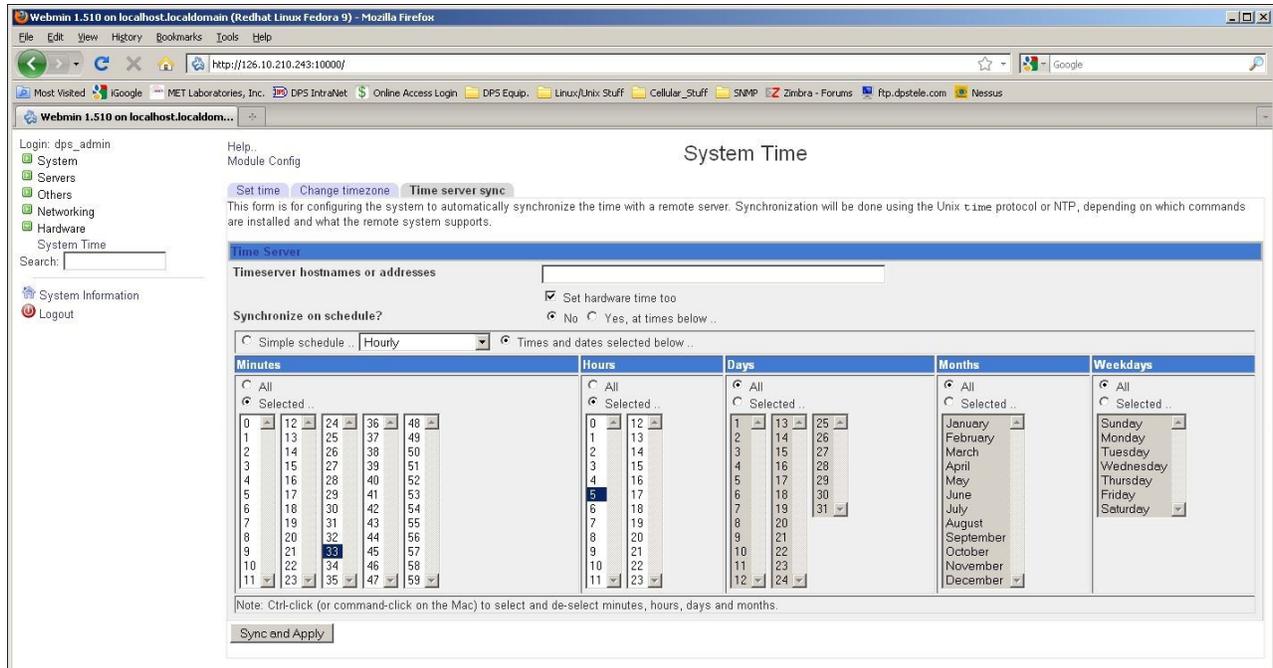


- Select the network interface you've just created from the drop-down menu (Eth2 in this example). Enter the gateway information.
- Select **No** for **Act as router**. Click **Save** to finish.



## 5.3 Network Time Protocol (NTP)

On T/Mon, time syncing is no longer handled as a job, as previously in the T/Mon NOC & IAM. If an NTP job is defined in your existing T/Mon database, you must set it to "Halted". Use the following instructions to setup NTP using the Webmin interface.



1. In the left navigation pane, click on **Hardware**, then **System Time**. Click on **Time server sync** tab.
2. Enter the **IP address or host name** of the NTP server you want to sync with. *NOTE:* If using the host name, verify that DNS servers are defined in the previous step.
3. Define the **synchronization schedule**. If you are unsure how often to sync, check with your server administrator.
4. Click the **Sync and Apply** button to finish. *NOTE:* If you are not using Network Time Protocol, but you do want the correct time, click on the Set Time tab to enter it in manually.

## 5.4 Create Shortcut to the Legacy T/Mon Administrative Console

**Important:** During this process you will be prompted to install a plugin for the browser you are using. Make sure you have the appropriate rights on that machine to install browser plugins. Use Internet Explorer 6, 7, 8 or Firefox 3.5 and lower. Chrome and browser versions not listed are not supported by this version of VMware.

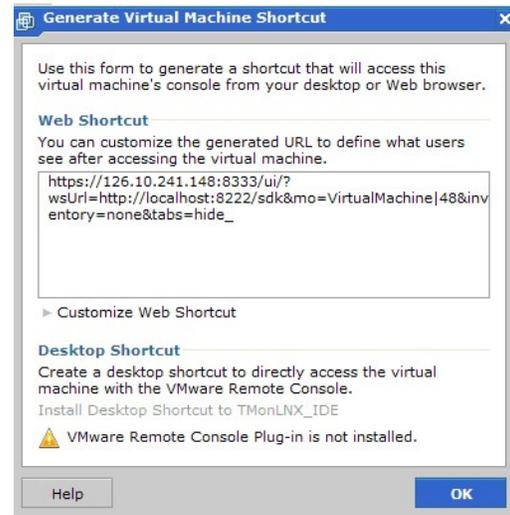
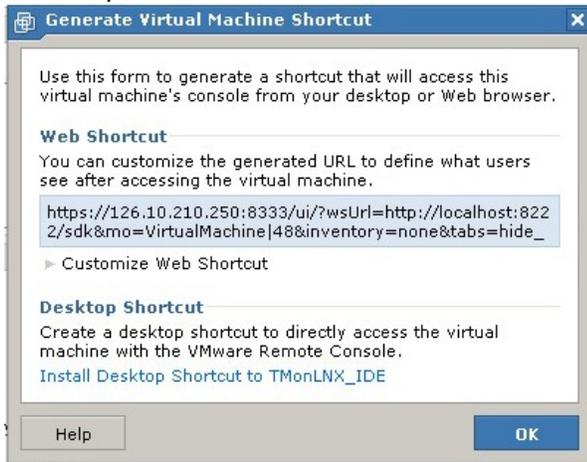
**Note:** Only necessary if upgrading from a T/Mon NOC, IAM or SLIM G1.

1. Open your web browser.
2. Enter "<https://xxx.xxx.xxx.xxx:8333>", where the xxx is the IP address assigned to the T/Mon. (Make sure it's https for the secure connection.)

3. Log in with "dps\_admin" as the username and "dpstelecom" as the password
4. Click "Generate Virtual Machine Shortcut"

Task	Target	Status	Triggered At	Triggered by	Completed At
Power On Virtual Machine	TMonN1X_IDE	Success	04/09/10 6:25:48 AM	root	04/09/10 6:25:52 AM

5. Click "Install Desktop Shortcut to TMon IDE." This will create a shortcut to the main console on your desktop.



**NOTE: If the popup says "VMWare Remote Console Plug-in is not installed", click on the Console tab > Install plug-in.**



6. Double click this icon and log on (the username to login is "DPS" and the password is also "DPS").
7. To direct keyboard input to the console, click anywhere in the window
8. To return keyboard input to the local machine, press CTRL-ALT.

### 5.4.1 Alternative Method to Create Shortcut

You can use this alternative method to create a shortcut to T/Mon Administrative Console:

1. Open any internet browser
2. Enter "http://xxx.xxx.xxx.xxx:10000", where the xxx.is the IP address assigned to the T/Mon LNX.
3. Log in with "dps\_admin" as the username and "dpstelecom" as the password.
4. Click on "Others" on the left side of the page. Then click on "Custom Commands".

The screenshot shows the webmin interface with the 'System Information' section expanded. The 'Custom Commands' menu item is highlighted with a red box. The system information is as follows:

System hostname	localhost.localdomain
Operating system	Redhat Linux Fedora 9
Webmin version	1.510
Time on system	Fri Jan 10 10:28:53 2014
Kernel and CPU	Linux 2.6.25.14-TMonLNX_v1.0 on x86_64
Processor information	Intel(R) Core(TM)2 Quad CPU Q9400 @ 2.66GHz, 4 cores
System uptime	1 hours, 53 minutes
Running processes	175
CPU load averages	2.77 (1 min) 2.55 (5 mins) 2.49 (15 mins)
CPU usage	9% user, 51% kernel, 4% IO, 36% idle
Real memory	3.86 GB total, 666.92 MB used
Virtual memory	1.94 GB total, 0 bytes used
Local disk space	227.25 GB total, 147.66 GB used
Package updates	549 package updates are available

5. Scroll all the way to the bottom of the page and look for buttons that are labeled "Download VMWare Plugin" and "Install Desktop Shortcut".

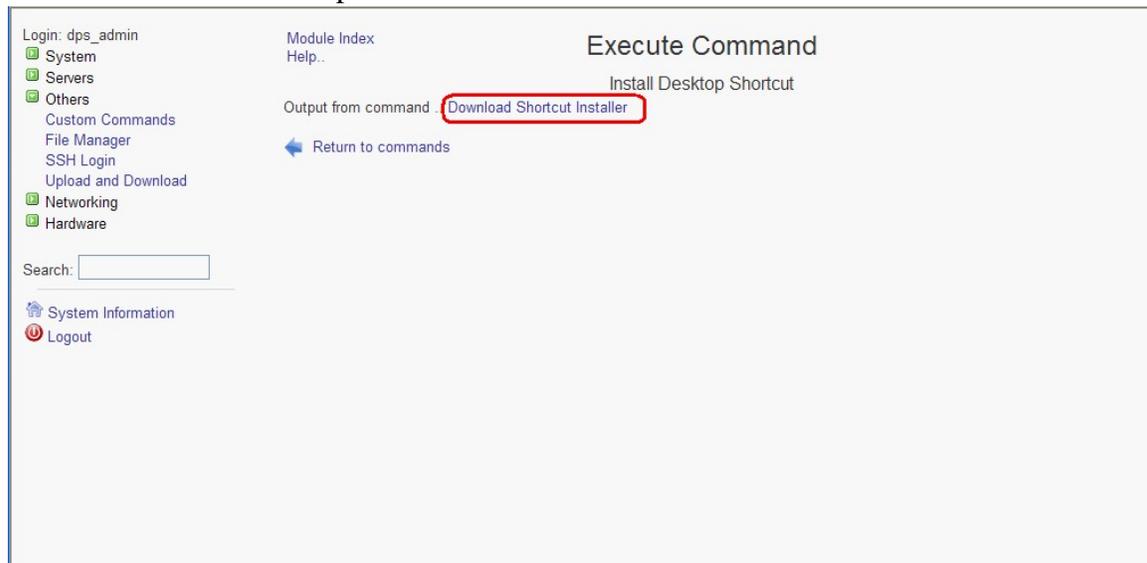
The screenshot shows the webmin interface with the 'System Information' section expanded. The 'Download VMWare Plugin' and 'Install Desktop Shortcut' buttons are highlighted with a red box. The system management options are as follows:

Gather recent debug logs	View detailed output of SMART test
Debug Level: Normal	Hard Drive: SATA0
Reboot T/MonLNX	Shutdown T/MonLNX
Download VMWare Plugin	Enable/Disable VNC Server
Install Desktop Shortcut	Boot LNX VM into BIOS

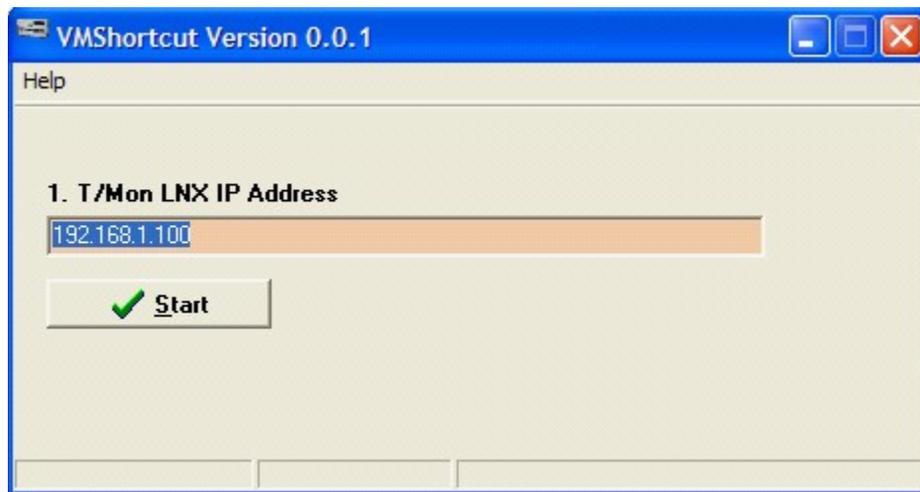
6. Click on the "Download VMWare Plugin" button. Then click the link to the VMWare Plugin Installer.



7. Once the file has downloaded, run the installer.
8. Click on the link to “Return to commands”.
9. Click on the “Install Desktop Shortcut” button. Then click the link to the Shortcut Installer.



10. Run the file after it has downloaded.
11. Enter the IP address that was assigned to the T/MonLNX in the text box and click on the Start button to create the shortcut.

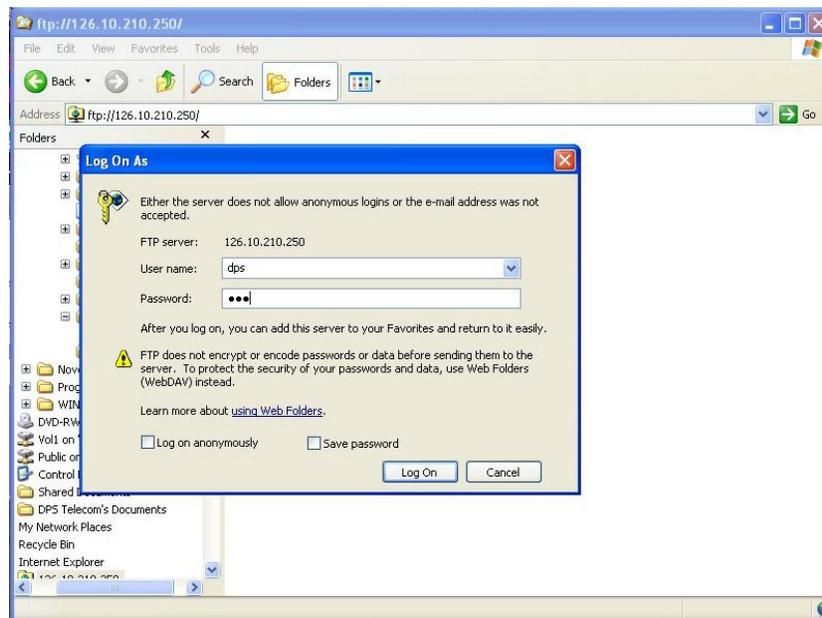


12. You should now have the VMWare console shortcut on your desktop.

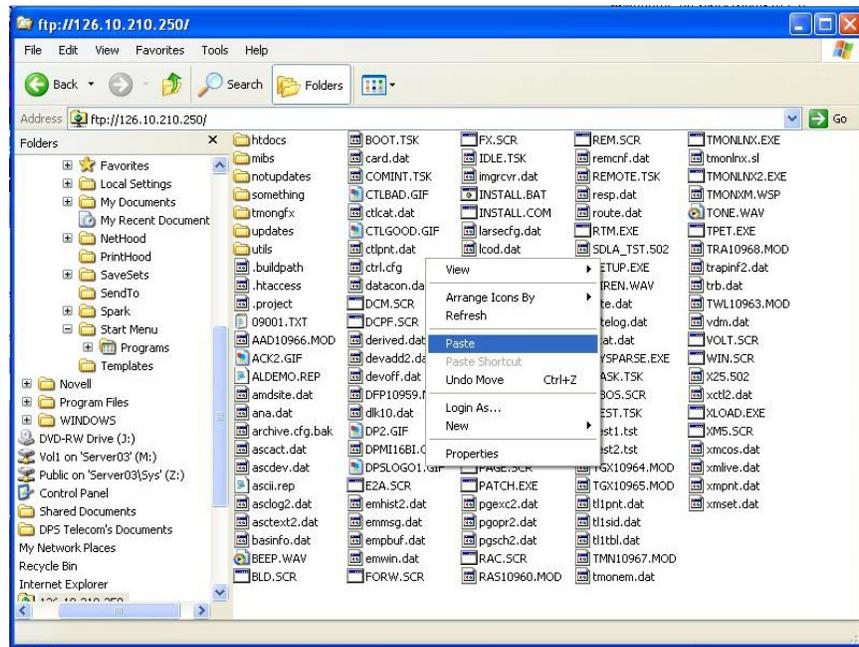
## 5.5 Loading Existing T/Mon Database

**Note:** Only necessary if upgrading from a T/Mon NOC, IAM or SLIM G1.

1. Open the **T/Mon FTP server** by right clicking on the Start Menu of the PC and selecting Explore.
2. Clear the address bar at the top and type **ftp://xxx.xxx.xxx.xxx**, where the x's are the IP address of T/Mon.
3. Login to the FTP server. The user name is "**dps**" and password is "**DPS**" (both are case-sensitive).



4. Drag and drop your **saved T/Mon database (archive.cfg and ctrl.cfg)** into the root directory of the FTP server. You can also click anywhere on the screen and paste your .cfg files onto the system.



5. Once the files are pasted into the T/Mon, it will take T/Mon approximately **10 minutes** (depending on the size of your database) to convert it over to the T/Mon format.

6. Take T/Mon out of monitor mode by pressing **ESC, R, Enter** and go to **Files > Utilities > Restore Data Files**. Restore the C-Configuration files from the C drive.
7. Hit **Enter** when you see the message "Insert Disk #1 and press <Enter>"
8. Now that your database has been restored, there are a couple differences between the older T/Mon and the new T/Mon that you should be aware of. The main differences that affect us are knowing which TCP ports can **no longer be used**.

The following is a list of Ports that cannot be used by T/Mon because now the is using them "behind the scenes":

10000	8333
9801	8222
9802	80
9803	20
9811	21
9813	

Most likely the only ports that this will affect are the FTP jobs and the HTTP Web-browser. To work around this we must change these ports **from – to:**

20 to 8020
21 to 8021
80 to 8080

To do this, escape back to the **Master Menu** and go to **Parameters > Remote Ports**. Hit **F** for find and go to **Job 28**. Hit **F1** to view all of the TCP/UDP ports being used by the system. Make sure you enter thru the list and change the ftp ports and Web ports to the new port numbers. It is best to scan thru the rest of the ports being used to be sure no others are on the list above.

## 5.6 Analog Groups

T/Mon Web 3.0 features a graphical gauge display of your analog values. The colored gauges offer a quick, visual representation of your battery levels, temperature, humidity, voltage readings, wind speed and much more.

The ability to create your own analog groups means you can view any assortment of these alarms and save your grouping. You might want to see all the analog alarms at one site, or maybe you want to see all of your temperature readings on one screen. After you have created your group, you'll choose whether to have it saved as your own personal config (only available under your login) or as a global group (available to all users).

1. To create an analog group, click on 'Analog' in the Top Menu then select 'Create Analog Group'.

2. You will then need to enter a name and description for your new analog group. You can also select if you want this analog group to be a global analog group.

3. After creating your analog group, select your analog group from the accordion pane on the left. From here, you'll need to select 'Edit Group' to enable the gauge display of the analog values.

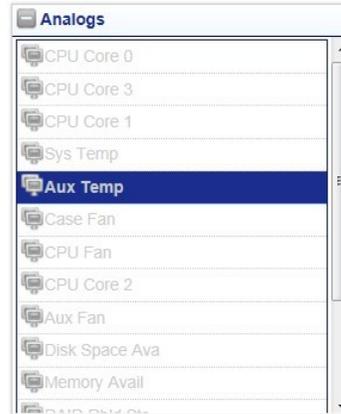
The image displays three screenshots of the T/Mon Web 3.0 interface, illustrating the steps to create and manage analog groups.

**Top Screenshot:** Shows the main navigation menu with 'Analog' selected. A dropdown menu is open, showing options: 'Create Analog Group', 'Manage Analog Group', 'Edit Group', 'Edit Analog', and 'Delete Analog'. The 'Create Analog Group' option is highlighted.

**Middle Screenshot:** Shows the 'Create Analog Group' form. The form includes fields for 'Name' and 'Description', and a 'Global' checkbox. A 'Create' button is visible at the bottom right.

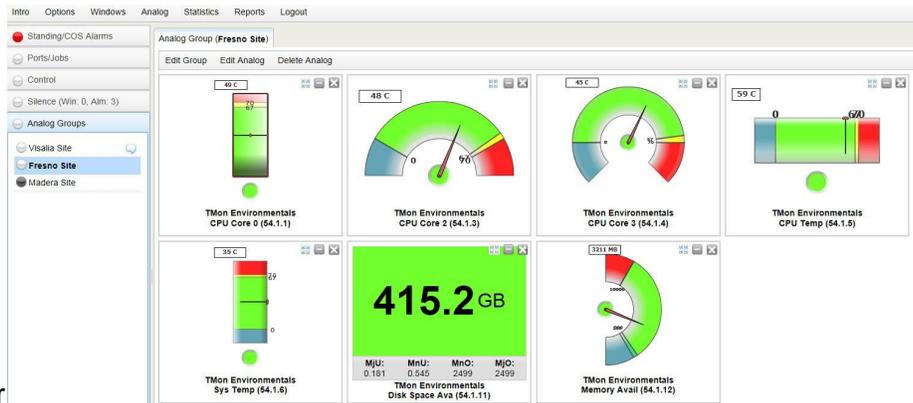
**Bottom Screenshot:** Shows the 'Edit Analog Group' form. The form includes fields for 'Name' (set to 'Internal Analogs') and 'Description', and a 'Global' checkbox. Below the form is a 'Registered Analogs' list with items like 'CPU Core 0', 'CPU Core 1', 'CPU Core 2', 'CPU Core 3', 'CPU Temp', 'Sys Temp', 'Aux Temp', 'Case Fan', 'CPU Fan', and 'Aux Fan'. To the right is a 'Search/Add Analog' list with items like 'Ports 3&4 (202)', 'Ports 5&6 (232)', 'Ports 9&10 (232)', 'Zigbee Testing', 'Ports 11&12 (232)', 'Ports 13&14 (232)', 'Ports 15&16 (232)', 'TMon Environmentals', 'NG Added from webedit', 'CBH Rack G2', 'G4 CBH Rack', 'RPS DC', 'AB6 LAB', 'NG Temp Issue #1', 'NG Temp Issue #2', 'G5 CBH Rack', 'BAS testing', 'Metal Shop (216G3)', 'NG D-Wire', 'NG216T Bridge (Head)', 'NG216T Bridge (Tail)', and 'G5 (via 216T bridge)'. Buttons for 'Update', 'Delete', and 'Edit' are also visible.

4. Then, using the Analog window on the right side of the screen, you can select which analogs you would like displayed as gauges. Just double click on the analog value and it will be generated as a gauge display.



5. Once you have added the Analogs you want to display, you should see an interface resembling the one to the right.

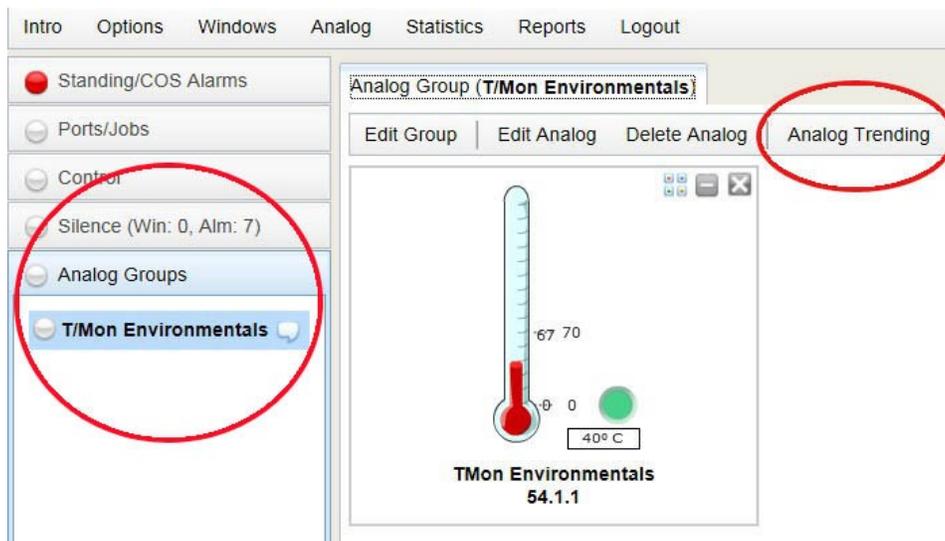
You can change the gauge style by using the gauge type icon (located right next to the minimize and close icons for each of the analog displays).



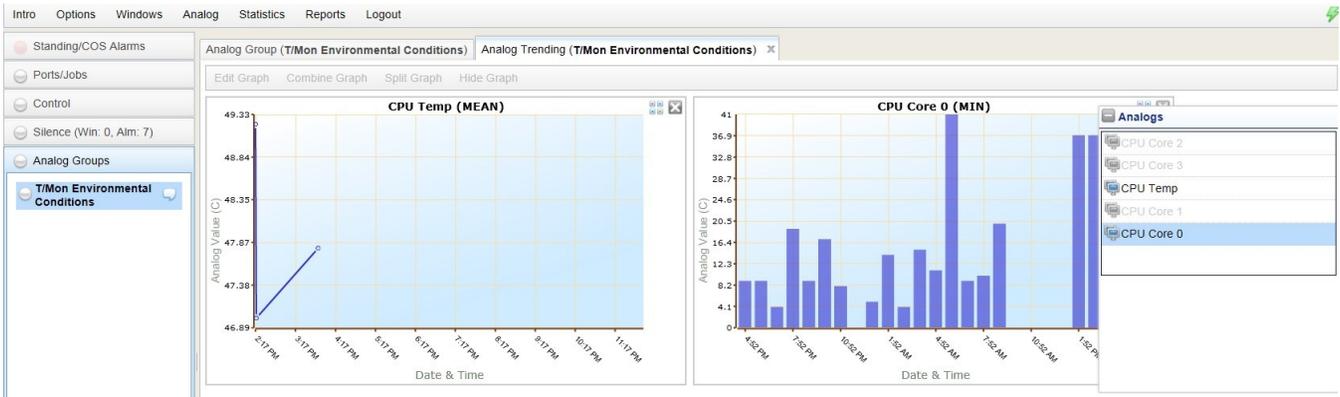
**NOTE:** Gauges require that your browser supports Flash and has a Flash plugin installed.

### 5.6.1 Analog Trending Graphs

Monitor Mode in Web 3.0 now features the ability to view analog data with analog trending graphs. To view analog trending graphs, first select 'Analog Groups' from the 'Accordion Pane' and then select your 'Analog Group'. From your Analog Group interface, select 'Analog Trending'.



Double click on the available analogs in the Analogs window on the right to populate the window with analog to display.



Once you have populated the Analog Trending interface with analogs from the desired analog group, you will now see graphical displays of the analog data for the analogs you selected. The settings for the graph are saved by the user as they edit the settings.

You can edit your graphs by clicking on the graph you wish to edit then selecting 'Edit Graph'.

From this window, you can configure your analog graphs using the various options found under Graph Settings. You can also select one of two graph types: Line Graph or Bar Graph. You can also use the "Combined Graphs" box on the right to combine analog data onto a single graph.

The screenshot displays two panels from a monitoring application. The left panel, titled 'Graph Settings', includes a 'Graph Settings' section with options for 'Active' (checked), 'Grouping' (MEAN), 'Interval' (1), 'Interval Unit' (MINUTE), 'Start Date' (7/24/2012), and 'End Date' (11:59 PM). Below this is a 'Graph Type' section with a line graph icon selected. At the bottom are 'Save' and 'Reset' buttons. The right panel, titled 'Combined Graphs', lists five items: 'CPU Core 2', 'CPU Core 3', 'CPU Temp', 'CPU Core 1', and 'CPU Core 0', each with an unchecked checkbox. Below the list, a green text message states: 'The current graph settings will generate around 599 data points. The maximum data point allowed is 1000'.

## 6 Reference Section

### 6.1 Powering Down or Rebooting

1. Login to Webmin with user `dps_admin` and password `dpstelecom`
2. Select Others->Custom Commands
3. To power down click the button for Shutdown T/MonLNX (Same for Mini/SLIM G2)

The screenshot shows a button labeled 'Shutdown T/MonLNX'. Below the button is a warning message: 'T/Mon MUST be in monitor mode for this command to work. Please wait for power supply fan to stop before removing power.'

4. To reboot click the button for Reboot T/MonLNX.

The screenshot shows a button labeled 'Reboot T/MonLNX'. Below the button is a warning message: 'T/Mon MUST be in monitor mode for this command to work.'

## 7 Technical Support

DPS Telecom products are backed by our courteous, friendly Technical Support representatives, who will give you the best in fast and accurate customer service. To help us help you better, please take the following steps before calling Technical Support:

### 1. Check the DPS Telecom website.

You will find answers to many common questions on the DPS Telecom website, at <http://www.dpstele.com/support/>. Look here first for a fast solution to your problem.

### 2. Prepare relevant information.

Having important information about your DPS Telecom product in hand when you call will greatly reduce the time it takes to answer your questions. If you do not have all of the information when you call, our Technical Support representatives can assist you in gathering it. Please write the information down for easy access. Please have your user manual and hardware serial number ready.

### 3. Have access to troubled equipment.

Please be at or near your equipment when you call DPS Telecom Technical Support. This will help us solve your problem more efficiently.

**4. Call during Customer Support hours.**

Customer support hours are Monday through Friday, from 7 A.M. to 6 P.M., Pacific time. The DPS Telecom Technical Support phone number is **(559) 454-1600**.

**Emergency Assistance:** *Emergency assistance is available 24 hours a day, 7 days a week. For emergency assistance after hours, allow the phone to ring until it is answered with a paging message. You will be asked to enter your phone number. An on-call technical support representative will return your call as soon as possible.*

## 8 T/Mon Gold and Platinum Plans

### T/Mon Gold & Platinum Plan Support Escalation Policy

(559) 454-1600 Phone

(559) 454-1688 Fax

[support@dpstele.com](mailto:support@dpstele.com) Email

**When you call DPS for T/Mon support under your T/Mon maintenance agreement, you'll receive the following benefits:**

1. If you call during normal DPS operating hours (7:00am to 6:00pm Pacific Standard Time), you will receive priority tech support in front of all calls from users without a T/Mon Gold Plan. If you have an emergency situation, your call will be prioritized to the top of the list (at uncommon times when there is a list).
2. If you call outside normal DPS operating hours with an emergency (ex. "System is Down"), you have access to 24x7x365 Tech Support. Follow the recorded voice instructions to alert the on-call technician. The on-call technician will typically return your call within 15 minutes.
3. With your permission, DPS technicians can remotely access your T/Mon from DPS Headquarters (typically via dialup) to facilitate diagnostics and instructions. You can follow along on your T/Mon screen as technicians control your T/Mon.
4. If it is determined that DPS hardware is at fault, one of the following will occur at DPS' discretion:
  - With client consent, DPS will, on a priority basis, expedite a replacement component for the client's qualified staff to install.
  - The client will ship the unit back to DPS for priority repair and return on a priority basis. When units are received by DPS before 12:00pm, they are repaired, tested, and shipped back to the client within one business day, provided there are no extenuating circumstances.
  - DPS will advance-replace the entire T/Mon unit. After receiving the new T/Mon, the client will ship the failed unit to DPS. The unit will be repaired and shipped back to the client. Upon receiving the repaired unit, the client will return the advance-replacement unit to DPS.

#### Extended Maintenance Agreement Benefits:

##### • Half-Price or Free Hardware Upgrades

T/Mon operates 24x7x365. That's stressful for any hardware. Plus, the DPS engineers are constantly improving the platform. That's **2 big reasons** why you should update your T/Mon hardware regularly. T/Mon Maintenance Agreements make it easy to get the equivalent of a brand new monitoring system every 3-5 years. You'll stay well ahead of the mortality curve, and you'll never get stuck using ancient technology.

Participate in our **50%-off upgrade program** at the end of your third consecutive year as a Gold Plan member, **OR** Participate in our **free upgrade program** at the end of your fifth consecutive year as a Platinum Plan member. We'll send you a **brand new** T/Mon. Just send us back the old one.

##### • Software upgrades

Includes major release(s), plus updates throughout the life of your Gold/Platinum Plan. These major releases are not small. They incorporate user feedback, industry best practices evolution, entirely new capabilities, as well as the occasional code correction.

##### • 4-Day Factory Training course

Hosted at our corporate headquarters (up to 3 members from your team can attend per session - multiple sessions per year).

##### • Spares and standby purchase discount

Backup units are essential for disaster recovery. With a Gold/Platinum Plan, you'll get discount prices on purchasing spare parts and standby units.

## 9 End User License Agreement

All Software and firmware used in, for, or in connection with the Product, parts, subsystems, or derivatives thereof, in whatever form, including, without limitation, source code, object code and microcode, including any computer programs and any documentation relating to or describing such Software is furnished to the End User only under a non-exclusive perpetual license solely for End User's use with the Product.

The Software may not be copied or modified, in whole or in part, for any purpose whatsoever. The Software may not be reverse engineered, compiled, or disassembled. No title to or ownership of the Software or any of its parts is transferred to the End User. Title to all patents, copyrights, trade secrets, and any other applicable rights shall remain with the DPS Telecom.

DPS Telecom's warranty and limitation on its liability for the Software is as described in the warranty information provided to End User in the Product Manual.

End User shall indemnify DPS Telecom and hold it harmless for and against any and all claims, damages, losses, costs, expenses, obligations, liabilities, fees and costs and all amounts paid in settlement of any claim, action or suit which may be asserted against DPS Telecom which arise out of or are related to the non-fulfillment of any covenant or obligation of End User in connection with this Agreement.

This Agreement shall be construed and enforced in accordance with the laws of the State of California, without regard to choice of law principles and excluding the provisions of the UN Convention on Contracts for the International Sale of Goods. Any dispute arising out of the Agreement shall be commenced and maintained only in Fresno County, California. In the event suit is brought or an attorney is retained by any party to this Agreement to seek interpretation or construction of any term or provision of this Agreement, to enforce the terms of this Agreement, to collect any money due, or to obtain any money damages or equitable relief for breach, the prevailing party shall be entitled to recover, in addition to any other available remedy, reimbursement for reasonable attorneys' fees, court costs, costs of investigation, and other related expenses.



*“Dependable, Powerful Solutions*  
that allow users to monitor larger,  
more complicated networks with a  
smaller, less trained staff”



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