



# How to Change Firmware in WT1000 Terminals

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## Summary

This technote describes how to upgrade the Firmware for Winterm WT1000 terminals.

## Audience

1st Level Support, Systems Engineering, Customers.

## Affected Products

All 1000 series Winterms.

## Steps to Perform

1. On the FTP server create a folder called "WYSE" under the FTP home directory.
2. Under the folder "WYSE" create a subfolder by the name "wnos".
  - Generally we create the WYSE folder to differentiate between other folders that may reside on the ftp home directory.
  - We create the wnos folder to keep the wnos.ini file as well as the firmware upgrade files.
3. Put the firmware upgrade files in the wnos directory created under WYSE folder in the FTP root directory. This would be TWA\_WNOS and TWA\_BOOT for 1125, STP\_WNOS and STP\_BOOT for 1200+, UTC\_B512 for 1200.
4. Open the "Network Setup" Dialogue box by clicking Desktop>System Setup >Network from the Terminal (WYSE thin client).

You will get the Dialogue box as shown in the screenshot below.

The screenshot shows the 'Network Setup' dialog box. The 'Dynamically allocated over DHCP / BOOTP' option is selected. The 'File Servers/Path' field is highlighted with a red circle and contains the text '172.20.2.153/wyse'. A red arrow points from this field to the text 'FTP Server/Path'. The 'Username' field is highlighted with a green box and contains the text 'anonymous'. The 'Password' field is highlighted with a green box and contains a series of asterisks. A green arrow points from these two fields to the text 'FTP Server Username Password'. Other fields include 'IP Address' (0.0.0.0), 'Subnet Mask' (0.0.0.0), 'DHCP Vendor ID' (wyse-1000), 'Ethernet Speed' (Auto-Detect), 'Default Gateway' (172.20.1.100), 'DNS Domain' (cal.tcg-software.c), 'DNS Servers' (172.20.1.101), 'WINS Servers' (172.20.1.101), 'PN Agent/Lite Servers', and 'Rapport Servers'. The 'OK' and 'Cancel' buttons are at the bottom.

5. In the File Servers/Path field put the address of the FTP Server along with the path (which is wyse that is the folder we created under the FTP root directory).
6. In the username and password field put a valid username and password credentials through which the terminal can access the FTP server. Any user who has read access to the directory will do. If Anonymous user is allowed to logon to the FTP server you can as well use Anonymous logon credentials.
7. Before you can carry on with upgrade or downgrade the firmware you need to put a valid wnos.ini file in the wnos directory.

When the terminal boots up it goes to the FTP server and accesses the wnos.ini (configuration file for the thin clients) and in the wnos.ini you can specify whether

to disable any upgrade or downgrade or enable upgrade or downgrade or only upgrade the firmware of the terminal.

8. As per the requirement you should include the line in your wnos.ini file as follows :

```
AutoLoad=1
```

```
# Selects firmware update mode: 0=disable, 1=upgrade/downgrade, 2=upgrade only
```

9. Now restart the terminal.

10 .The terminal reboots and checks for the new firmware in the wnos directory for an upgrade or downgrade as specified in the wnos.ini file and execute the same.

11. If you are changing both the Flash and Ram image then terminal will reboot twice.

**Caution has to be maintained as to not to power down the terminal during the process of upgrading or downgrading.**

12. After that the terminal will be ready for use with the new Firmware.

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