ZyXEL Prestige 1600 3.22(X.02)

Release Note/Manual Supplement

Date: Mar 20, 2002

Congratulations on your purchase of P1600 Access Concentrator. The Prestige 1600 is a scalable DSL, delivering networking services at multiple selectable speeds from 64Kbps and 6Mbps. It can be deployed at high rise buildings, Telcos, ISPs and System Integrators with various configurations.

Equipped with one 10/100M Ethernet port, three Network Module Slots, and one optional WAN interface and one four-ports 10M/100M LAN switch card, the architecture of the Prestige 1600 allows network modules of different generations to co-exist in the same chassis and to inter-operate with the same system module.

IDSL, SDSL and ADSL solutions are available now.

This version first support ADSL Network Module. Each Prestige 1600 provides up to 24 SDSL ports, and is equipped with 10/100M Ethernet as a daisy chain for connecting up to five units (thus a maximum of 120 SDSL ports).

Previous Release version 2.50 and 3.20 can only support IDSL Network Module, please update your FW to 3.21(X.00) or 3.22(X.00) to support SDSL Network Module. And update your FW to 3.22(X.01) to support ADSL Network Module.

This document describes the features in the ZyXEL Prestige 1600 product for its 3.22(X.01) release. The known problem list section describes problems currently under investigation and enhancement during our internal test.

Note: P1600 do not support ADSL and IDSL Network Module operate within the same chassis. Please separate ADSL and IDSL NM to different chassis and connected by LAN. For ADSL CPE, ZyXEL Prestige 630 is recommended, other ZyXEL ADSL CPE devices are also available, please contact our CSO if you can not make it work with other ZyXEL ADSL CPE devices.

Support Platforms:

ZyXEL Prestige firmware V3.22(X.02) supports P1600 Master hardware platforms. It's also compatible with IDSL Network Module at previous 3.20(X.00) release and SDSL Network Module at previous 3.21(X.00) and 3.22(X.00), 3.22(X.01) release.

Version:

ZyNOS F/W Version: V3.22(X.02) | 3/20/2002 9:55:31
BootBase: V1.08 | 8/21/2001 14:07:15

Bugs Fixed:

1. Under heavy loading, Ethernet stop transmit is fixed at this version.

Know Problem List:

1. IP multicast is not supported at this release.
2. **Due to Hardware limitation, C2-2 sample can only support 8M bytes flash memory. For C2-2 user, please use b03 Firmware version only. This release can not be applied to C2-2 sample.**
3. The default menu 3.2 TCP/IP IP Address setting are 192.168.1.1 at P1600 and other Prestige series products. It may happen you can not ping successfully to the P100L/P128L /P681 at P1600 CI command mode if they have same IP address at menu 3.2. Change IP address at one of them will solve the problem.
4. At menu 24.6 Restore Configuration do not have a timeout design at Xmodem protocol.
5. ICMP Packet length exceed 1500 bytes can not pass through NAT. P1600 will adjust TCP MSS to let TCP packets not exceed 1500 bytes. SUA has no problem for all kinds of protocol.
6. Login to P1600 by telnet, the password can not exceed 22 characters.
7. The interface identifiers of P1600 :
   Slot 1 is mapped from xdsl00 to xdsl07 for SDSL, xdsl00 to xdsl15 for IDSL.
   Slot 2 is mapped from xdsl16 to xdsl23 for SDSL, xdsl16 to xdsl31 for IDSL.
   Slot 3 is mapped from xdsl32 to xdsl39 for SDSL, no IDSL supported at this Slot.
   Due to reserve Interfaces for IDSL Slot, the interface identifiers are not numbered continuously
   for SDSL Network Module.
8. Menu 6.1.1 ATM Setup, if VPI value exceeds 255, VCI value exceeds 65535, the value saved will be not correct.
9. Upgrade P1600 to 3.22(X.00), Bootbase will automatically upgrade to 1.08, please do not downgrade FW version to 3.20. Reboot may happen due to access timing change.
10. CuteFTP Pro application is not compatible to Prestige FTP server, please use other FTP application.

To Update P1600

P1600

        Versions:
                ZyNOS F/W Version: V3.22(X.02) | 3/20/2002 9:55:31
                BootBase: V1.08 | 4/12/2001 14:17:29
        Boot Extension Commands:
                ATBAx: Where x = baud rate
                        options available are:
                                1= 38.4K
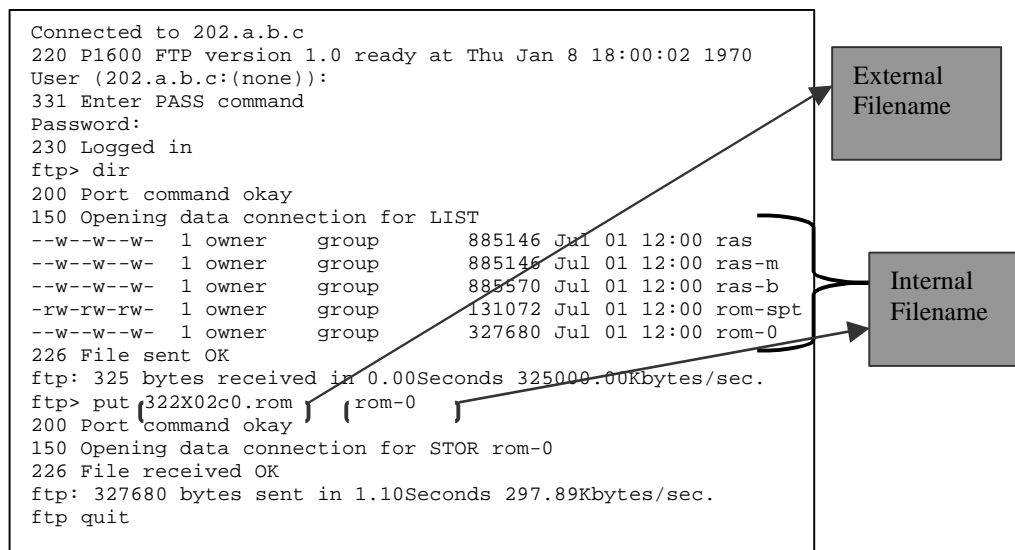   2= 19.2K
                                3= 9.6K
                                4= 57.6K
                                5= 115.2K
                ATUR: Upload Firmware file via XMODEM
                File Name : 322X02c0.bin

Romfile: 322X02c0.rom

> ATUR3: Upload Romfile and clear all settings, the setting will change to manufactory setting, baud rate sets to 9.6K, please change to 9.6K for further configuration.

FTP Upgrade

There are two set of filenames: internal (in P1600) and external (in PC, MAC, or UNIX). Each set contains ZyNOS firmware and the configuration file. Firmware file contains the firmware and the configuration file contains the SMT menu settings, defaults etc. The internal names are ras-m and ras-b (firmware files) and rom-spt and rom-0 (configuration files).

```
Connected to 202.a.b.c
220 P1600 FTP version 1.0 ready at Thu Jan 8 18:00:02 1970
User (202.a.b.c:(none)):
331 Enter PASS command
Password:
230 Logged in
ftp> dir
200 Port command okay
150 Opening data connection for LIST
--w--w--w-  1 owner     group        885146 Jul 01 12:00 ras
--w--w--w-  1 owner     group        885146 Jul 01 12:00 ras-m
--w--w--w-  1 owner     group        885570 Jul 01 12:00 ras-b
-rw-rw-rw-  1 owner     group        131072 Jul 01 12:00 rom-spt
--w--w--w-  1 owner     group        327680 Jul 01 12:00 rom-0
226 File sent OK
ftp: 325 bytes received in 0.00Seconds 325000.00Kbytes/sec.
ftp> put 322X02c0.rom    rom-0
200 Port command okay
150 Opening data connection for STOR rom-0
226 File received OK
ftp: 327680 bytes sent in 1.10Seconds 297.89Kbytes/sec.
ftp quit
```

External Filename

Internal Filename

FTP Example

Usually, the external firmware filename is the router model name with a bin extension, e.g., p1600mas.bin. Rename it as "ras-m" or "ras-b" when uploading to the Prestige main block and backup block respectively using TFTP or FTP. You don' t have to rename the file when using XMODEM protocol.

The external configuration filename is usually the router model name with a *.rom extension, e.g.1600mas.rom. Rename it as rom-spt and rom-0 when transferring files to the Prestige. Renaming is not necessary if you transfer files using XMODEM protocol.

Table Filenames

Internal Filename	Description	External Filename	FTP Command Example

rom-spt	The rom-spt file is the user configuration file. It contains your Prestige configurations such as IP addresses, Remote Node settings etc. as well as your password.	*.rom	get rom-spt (backup) put rom-spt (restore)
rom-0	The rom-0 configuration file is the entire factory configuration file. It includes rom-spt, default settings, file system, log, etc. Uploading the rom-0 file replaces the entire ROM file system, including your Prestige configurations, system-related data (including the baud rate and default password), the error log and the trace log.	*.rom	put p1600mas.rom rom-0 (upload)
ras	This is the firmware filename for all Prestige models. This is ras-m when you upload the firmware to the main block and ras-b when you save the current firmware to the backup block.	*.bin	
ras-m	This is the router firmware filename on the Prestige 1600 when you are transferring files to the main block.	*.bin	put p1600.bin ras-m (upload)
ras-b	This is the router firmware filename on the Prestige 1600 when you are transferring files to the backup block.	*.bin	put p1600.bin ras-b (upload)