

Datatek

IP-B2APRT

BISYNC TO ASCII PRINTER APPLICATION

USER'S MANUAL

FOR

DT-6XXX

EMBEDDED NETWORK PROCESSORS



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IMPORTANT SAFETY INSTRUCTIONS



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the DT-6XXX product.

When installing, operating, or maintaining this equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

- ❑ Read and understand all instructions.
- ❑ Follow all warnings and instructions marked on this product.
- ❑ For information on proper mounting instructions, consult the User's Manual provided with this product.
- ❑ The telecommunications interface should not leave the building premises unless connected to telecommunication devices providing primary and secondary protection.
- ❑ This product should only be operated from the type of power source indicated in the User's Manual.
- ❑ This unit is intended to be powered from either -48 V DC or AC voltage sources. See User's Manual before connecting to the power source.
- ❑ The -48 V DC input terminals are only provided for installations in Restricted Access Areas locations.
- ❑ Do not use this product near water, for example, in a wet basement.
- ❑ Never touch uninsulated wiring or terminals carrying direct current or leave this wiring exposed. Protect and tape wiring and terminals to avoid risk of fire, electric shock, and injury to service personnel.
- ❑ To reduce the risk of electrical shock, do not disassemble this product. Service should be performed by trained personnel only. Opening or removing covers and/or circuit boards may expose you to dangerous voltages or other risks. Incorrect re-assembly can cause electric shock when the unit is subsequently used.
- ❑ For a unit intended to be powered from -48 V DC voltage sources, read and understand the following:
 - This equipment must be provided with a readily accessible disconnect device as part of the building installation.
 - Ensure that there is no exposed wire when the input power cables are connected to the unit.
 - Installation must include an independent frame ground drop to building ground. Refer to User's Manual.



This symbol is marked on the DT-6XXX, adjacent to the ground (earth) area for the connection of the ground (earth) conductor

- ❑ This Equipment is to be Installed Only in Restricted Access Areas on Business and Customer Premises Applications in Accordance with Articles 110-16, 110-17, and 110-18 of the National Electrical Code, ANSI/NFPA No. 70. Other Installations Exempt from the Enforcement of the National Electrical Code May Be Engineered According to the Accepted Practices of the Local Telecommunications Utility.
- ❑ For a unit used with an AC Wall Plug-In Unit, read and understand the following:
 - Contact Datatek Applications, Inc or its authorized resellers for specifications for procuring an AC power unit.
 - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
 - Do not staple or otherwise attach the power supply cord to the building surfaces.
 - Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
 - The socket outlet shall be installed near the equipment and shall be readily accessible.
 - The Wall Plug-In unit may be equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug is intended to fit only into a grounding type power outlet. Do not defeat the safety purpose of the grounding type plug.
 - Do not allow anything to rest on the power cord. Do not locate this product where the cord may be abused by persons walking on it.
 - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) When the powers supply cord or plug is damaged or frayed.
 - b) If liquid has been spilled into the product.
 - c) If the product has been exposed to rain or water.
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by qualified technician to restore the product to normal operation.
 - e) If the product has been dropped or the cabinet has been damaged.
 - f) If the product exhibits a distinct change in performance.

Save These Instructions

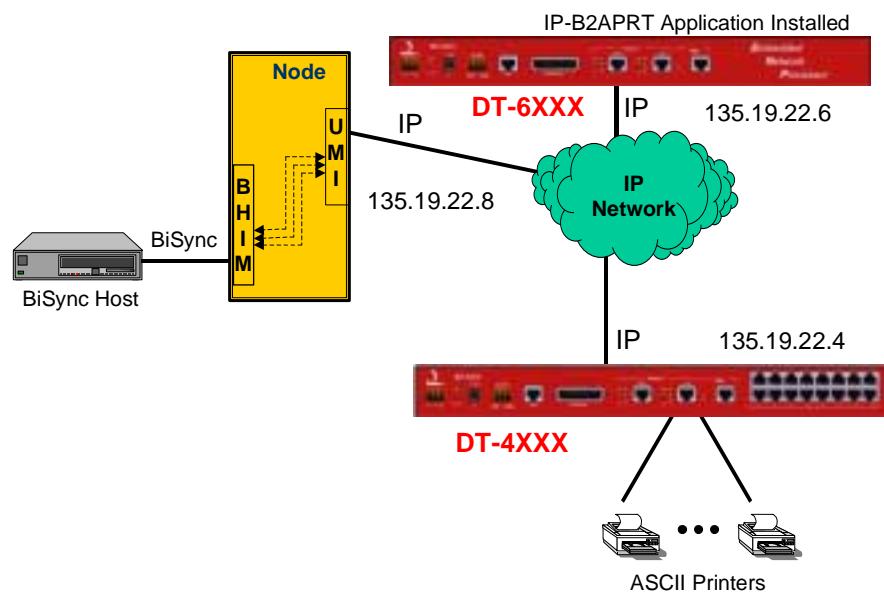


1 INTRODUCTION

The BiSync to ASCII printer application (*IP-B2APRT*) is a companion application to the TN-3270 Server application of the DT-6XXX. This Application type is designed to replace the *A2B DKAP* application in either an **integrated** (Both BNS/Datakit® and IP networks together), or a **non-BNS** environment (IP network only).

1.1 IP-B2APRT APPLICATION (INTEGRATED CONFIGURATION)

The following diagram depicts a configuration of the IP-B2APRT application in an integrated environment. It replaces the A2B DKAP module.



In the above diagram the IP-B2APRT application addresses both the ASCII printer and the BNS circuit group for each particular printer. The operation is similar to the BNS A2B DKAP with regard to the printer functionality.

The Universal Mediation Interface¹ (*UMI*) module provides the protocol mediation between the BNS network, and the IP network. A hunt group set up for each ASCII printer would be predefined to address the BHI address group for that printer.

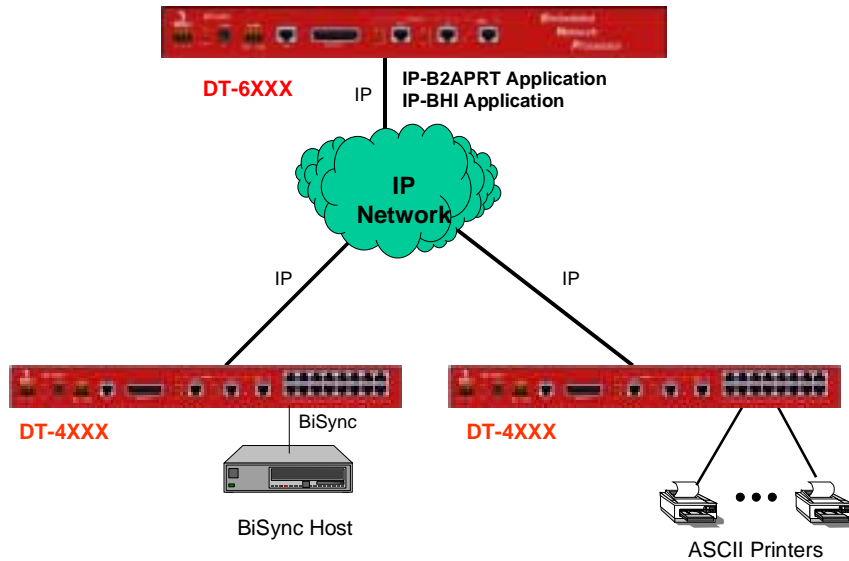
[®] Datakit is a registered trademark of LucentTechnologies, Inc.

¹ The UMI allows both synchronous and asynchronous endpoints connected to a BNS network to access endpoints on an IP network. Similarly, endpoints on an IP network can access both synchronous and asynchronous endpoints on a BNS network.



1.2 IP-B2APRT APPLICATION (NON-BNS/DATAKIT CONFIGURATION)

The IP-B2APRT application may also be used in circumstances where there is no BNS network.



In the above diagram, the DT-6XXX is actually executing one or more instances² of two distinct applications³.

- 1) The first is the IP-B2APRT application, the same application as in the integrated network case, and the subject of this manual.
- 2) The second application is the BiSync Host Interface (BHI) application. The BHI application interfaces with a BiSync host and performs Cluster Controller emulation for a multi-point host line.

² An application **instance** can be described as a unit of configuration parameters as a specific DT-6XXX application defines them. In other words, each **instance** of an application is a completely separate process where all aspects of the operation of the application are performed entirely within that process.

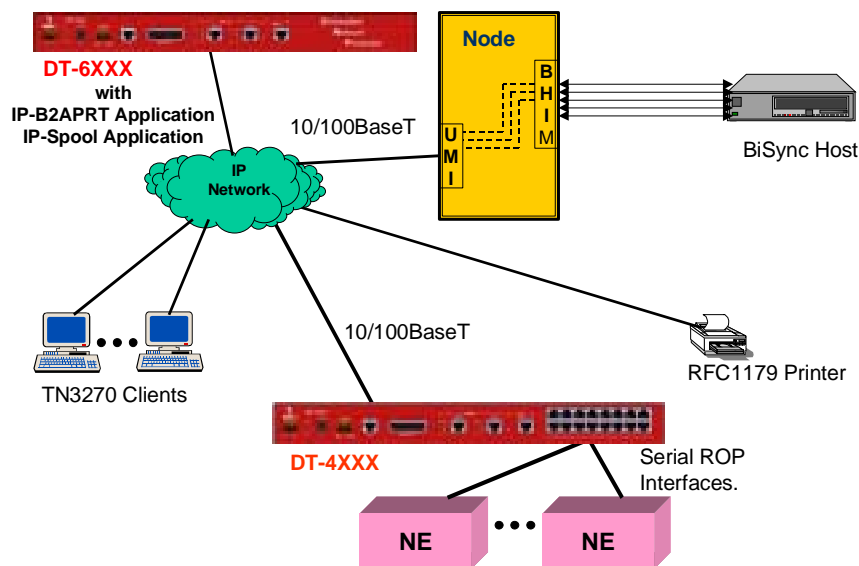
³ The DT-6XXX Platform may support up to 5 simultaneous application types.



1.3 IP-B2APRT APPLICATION WITH THE IP-SPOOL APPLICATION

The following diagram is another derivative of the one shown in section 1.1. In addition to the IP-B2APRT application installed in a DT-6XXX, the IP-SPOOL application is installed also. The IP-SPOOL application allows the sharing of printers. Instead of the BiSync host and TN3270 clients each having dedicated printers which are probably underutilized and require maintenance, an RFC 1179 capable printer can be shared.

The BiSync host and TN3270 clients still interface to the IP-B2APRT application in the DT-6XXX. Now the IP-B2APRT application itself has connections to virtual printers instead of individual, dedicated ASCII printers. Each virtual printer is an instance of the IP-SPOOL application. Other users in the network, in this case, network elements which normally send ASCII ROP output to dedicated printers, now instead have connections to other virtual printers, i.e. other instances of the same IP-SPOOL application. However, all share the same physical RFC1179 compatible printer whose queue is managed by the IP-SPOOL application. More detail about the IP-SPOOL application can be found in the DT-6XXX IP-SPOOL Application User's Manual available on the Datatek Applications, Inc. WEB site.



2 IP-B2APRT APPLICATION CONFIGURATION

2.1 DT-6XXX PLATFORM CONFIGURATION

Before proceeding with the configuration of the IP-B2APRT Application, make sure that the DT-6XXX Platform has been properly configured and the IP-B2APRT Application is installed on the DT-6XXX Platform. The steps necessary for this are outlined below and are stated in greater detail in the *DT-6XXX Platform User's Manual*.

Platform Configuration:

This command sequence is required for the initial configuration of the DT-6XXX.

Application Installation:

This action requires that a host acting, as an ftp server is present on a network that is accessible by the DT-6XXX install command.

Assignment of an Application to an Instance:

The number and type of application must be configured as a system parameter.

2.2 IP-B2APRT APPLICATION CONFIGURATION

Once the DT-6XXX Platform configuration is complete, instances of the IP-B2APRT Application along with circuits for the ASCII Printer and BiSync Host may be configured.

First, the configuration of the IP-B2APRT application takes place through the application's **Console** port. This port is accessed by making a Telnet call to the IP Address of the DT-6XXX that includes the TCP port number of the IP-B2APRT **application instance**. The TCP port number of the IP-B2APRT application instance is calculated using the following equation:

$$10000 + (\text{the application instance \# in the DT-6XXX})$$

Note: The Application Console is different from the DT-6XXX Platform Console

Next, each instance of the IP-B2APRT application supports a single **ASCII printer**. Therefore, one TCP session exists for each ASCII printer connection. This TCP connection is originated by the IP-B2APRT application where the IP address and port number of the ASCII printer port is configured through the IP-B2APRT application console.

Finally, one TCP session exists for the BHI connection to the BiSync host for a particular printer. The TCP connection is originated by the IP-B2APRT application. The IP address and port number of the BHI is a configuration option available through the IP-B2APRT Application Console.

An example of how these circuits are used follows:

1. The IP-B2APRT application would have the IP address and TCP port number of the ASCII printer configured. In addition, the BHI IP address and TCP port number configuration is also entered.
2. Once restored to service, the IP-B2APRT establishes a TCP connection to both the ASCII printer, and the BHI. By definition, the ASCII printer connection is asynchronous telnet, and the BHI connection contains frame based (i.e. Synchronous) data.
3. The host may now print on the ASCII printer by using the BiSync printer definition on the BiSync line.

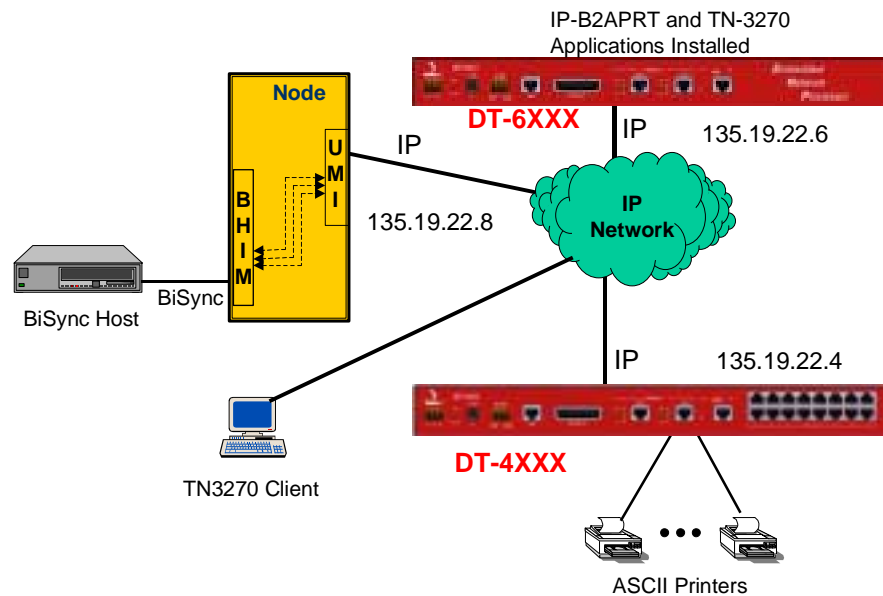


2.3 SAMPLE CONFIGURATION

The following network diagram depicts a generic IP-B2APRT configuration. Several network components require configuration. The administrator may need to configure one or more of the following network elements.

1. UMI
2. SYNC8 (BHIM) Module
3. DT-6XXX platform
4. DT-4XXX (DT-4000)
5. IP-B2APRT application
6. TN-3270 application
7. ASCII Printer
8. BiSync Host

The following sections describe sample configurations for a subset of the items listed above and are based on the diagram below. Configuration of **BiSync Host** and **ASCII Printer** is beyond the scope of this document. Configuration of the **TN-3270** application is described in detail in the TN-3270 User's Manual. However, knowledge of the BiSync Host's configuration is required to properly configure the BNS SYNC8 module.



2.3.1 UMI CONFIGURATION

The overall configuration process for the UMI can be divided into two phases:

1. **Base Configuration:** *setting up the UMI for IP connectivity and console security*
2. **Operational Configuration:** *setting up the UMI and BNS node to enable users to make calls between the BNS and IP networks*

2.3.1.1 BASE CONFIGURATION

The following console output reflects the output of the UMI **verify** command (*part of UMI Module command set*). The results displayed below describe a UMI Base Configuration consistent with the configuration needs of the previous network diagram. For a more detailed description of how to configure the UMI, refer to the *UMI User's Manual*.

```
<UMI> verify vport 33
Virtual Ports 33 - 33 :
Type ==> TCP Port 12000 w/Call Listen.
Service State ==> In Service.
Protocol ==> Synchronous.
```

2.3.1.2 OPERATIONAL CONFIGURATION

The following console output reflects the output of the UMI **verify** command (*part of UMI Node command set*). The results displayed below describe a UMI Operational Configuration consistent with the configuration needs of the previous network diagram. For a more detailed description of how to configure the UMI, refer to the *UMI User's Manual*.

```
CC0> vfy sam m p 17 2 1
MODULE ADDRESS: 17
MODULE TYPE: sam504           NCHLS: 512
SERVICE STATE: in           SECS BEFORE DISCONNECT: 50
TRUNK TYPE: t1              LINE SPEED: 1.544M
TOTAL BOARDS: 16
DOWNLOAD SERVER: controller
VERSION: standard
COMMENT: UMI

BOARD      SERVICE      SOFTWARE
ADDR      STATE        VERSION
  2        in          standard

PORT TYPE  DEV  NWK      ATT  ATT
  1 term   N/A  N/A  N/A   9600 N/A  N/A  N/A   in off N/A  tn6XXX

      CALL      NODE      BLD  CABLE      STOP
PORT HOLD RBAUD  ECHO  NRZI PAP  OUT  TYPE  BITS  BITS  BITS  PROTO  CODE  CNST
  1  N/A  N/A   N/A  no  no  254  dce  N/A  N/A  N/A  bisync  ebcdic  no

PORT EPN      CUG PROFILE  BFLUSH  FRMFILL
  1          N/A        N/A

PORT  PDD
  1  bscprt
PORT  COMMENT
```



1 DT-6XXX <--> UMI B2APRT

2.3.2 SYNC8 CONFIGURATION

The following console output reflects the output of the SYNC8 **verify** command. The results displayed below describe a bsc3270 configuration consistent with the configuration needs of the previous network diagram. For a more detailed description of how to configure the SYNC8 Module, refer to the *BNS-2000 SYNC8 Module Reference Guide*.

Note: knowledge of the BiSync Host's configuration is required to properly configure the BNS SYNC8 module

```
CC0> vfy bsc terminal 30 2 2 4
```

```
MODULE ADDRESS: 30
MODULE TYPE: bsc3270           NCHLS: 100
SERVICE STATE: in
DOWNLOAD SERVER: controller
VERSION: standard
```

PORT	CHNLS	HOST TYPE	MSG TYPE	CODE CHNG	SET	PORT DUPLEX	BAUD RATE	SRVC
2	7	host	vtam	no	ebcdic	full	9600	in

```
PORT COMMENT
2 to bsc printer
```

```
PORT CU SRVC
2 2 in
```

PORT	CU	TERM	TYPE	SCRN SIZE	RECV GRP	LOGOFF METHOD	LOGOFF SEQ ID	FWD ACK	SRVC
2	2	4	basic/ro	N/A	bscprt	none	N/A	N/A	in

```
PORT CU TERM CHNL
2 2 4 16
```

2.3.3 DT-6XXX PLATFORM AND IP-B2APRT APPLICATION CONFIGURATION

The DT-6XXX software is composed of two components. One component, called the **Platform**, exists to support all applications. The second component is comprised of the individual **application(s)**.

The **Platform** provides Operating System functions, selected interfaces, protocol stacks, SNMP functions, and system OA&M while each **application** uses the services of the resident **Platform**.

2.3.3.1 DT-6XXX PLATFORM CONFIGURATION

The following console output reflects the output of the DT-6XXX **vfymod** and **vfycfg** commands. The results displayed below describe a DT-6XXX platform configuration consistent with the configuration needs of the previous network diagram. For a more detailed description of how to configure the DT-6XXX platform, refer to the *DT-6XXX User's Manual*.



```
<DT-6XXX> vfy mod
  ipaddr: 135.19.22.6
  submask: 255.255.255.0
  gateway: 135.19.22.1
  mac addr: 0.96.29.2.55.219
  serial #: 0.0.6.239.61.162
  build #: 13.1
  rtu #: 5
  built on: Tue May 29 11:46:19 EDT 2001
  booted: 766 hour 17' ago
```

```
<DT-6XXX> app 1 type=b2aprt
```

```
<DT-6XXX> vfycfg
1 type=b2aprt
```

2.3.4 DT-4000 CONFIGURATION

The following console output reflects the output of the DT-4000 **vfymod** and **vfyport** commands. The results displayed below describe a DT-4000 configuration consistent with the configuration needs of the previous network diagram. For a more detailed description of how to configure the DT-4000, refer to the *DT-4000 User's Manual*.

```
<DT-4000> vfy mod
Current Module Level Configuration:
  Serial Number ==> 0.0.5.138.152.38
  Service State ==> In Service.
  Local MAC Address ==> 0.96.29.2.55.8
  Local IP Address ==> 135.19.22.4
  Subnet Mask ==> 255.255.255.0
  Gateway IP Address ==> 135.19.22.1
```

```
<DT-4000> vfy p 1
Current Configuration for Port 1:
  Type ==> TCP Port 50001 w/Call Listen.
  Service State ==> In Service.
  Protocol ==> Asynchronous.
  DXE ==> DCE.
  Baud Rate ==> 9600 bps.
  Line Encoding ==> NRZ.
  Constant Carrier ==> Enabled.
  Permanently Active ==> Enabled.
  Number of Data Bits ==> 8 data bits per character.
  Parity ==> None.
  Number of Stop Bits ==> 1.
  Attention Sequence ==> None.
  Net->User Flow Control ==> None.
  User->Net Flow Control ==> None.
  NULL after CR Operation ==> Transparent.
  Comment ==> "printer port"
```



2.3.5 IP-B2APRT APPLICATION CONFIGURATION

The following console output reflects the output of the B2APRT **vfy** command. This output reflects the commands necessary to configure the B2APRT application so that it is consistent with the configuration needs of the previous network diagram.

```
<B2APRT> prt dest=135.19.22.4 dport=50001
```

```
<B2APRT> host dest=135.19.22.8 dport=12000
```

```
<B2APRT> vfy
```

M Verify BiSync to ASCII Printer Instance Configuration

```
Local IP Address: 192.168.8.250, Instance Number: 1  
ASCII Printer Interface: 135.19.22.4 Port 50001 - in service.  
BiSync Host Interface: 135.19.22.8 Port 12000 - in service.
```



3 APPLICATION COMMANDS

The DT-6XXX software is composed of two components. One component, called the **Platform**, exists to support all applications. The second component is comprised of the individual **application(s)**.

The **Platform** provides Operating System functions, selected interfaces, protocol stacks, SNMP functions, and system OA&M while each **application** uses the services of the resident **Platform**.

3.1 INPUT CONVENTIONS

All parameters may be given on the command line. Parameters of the form **name=<value>** may be given in any order.

For several complex commands, listed below, missing parameters, or corrections of errors in given parameters, of the form **name=<value>** are collected by prompting the console user. The user responds to a prompt for the **name** by typing the required **<value>** followed by *newline*. Defaults are supplied in some cases, so the user need only enter *newline*.

- ❑ Commands may be entered in upper or lower case.
- ❑ Parameters of the form **name=value** may use upper or lower case for **name**.
- ❑ Default values, if any, are shown in parenthesis as part of the prompt.
- ❑ Case is preserved for values.
- ❑ When a password is being requested by a prompt, input is not echoed.

Backspace erases one character and @ deletes the current line of input. Most commands are killed by **del** key.

3.2 LOGIN

Syntax: login passwd=<password>

or

Prompted Mode:

Syntax: login

password ? PASSWD=

The **login** command is used to allow access to the other commands. The legal characters for passwords are the upper and lower case letters, numbers, and the following special characters:

~ ! @ # \$ % ^ & * () _ + { } | : < > ? ` - = [] \ ; ' , . /

Note that when inputting a password, all of these special characters are allowed. Double quote is not allowed, nor is equal sign '=' allowed as the first character of a password in prompted mode. Passwords are case sensitive.

The **passwd** parameter is not echo suppressed. However, if the **passwd** parameter is not provided in the command line, the console prompts for a password (i.e. *prompted mode*); the response *is* echo-suppressed in this case.

If the password is valid, the user is placed in the *logged in* mode. Once the console user is logged *in*, the rest of the commands are accessible. The **login** command is not accessible if the user is already logged in.



3.3 LOGOUT

Syntax: `logout`

The **logout** command is only allowed if the console user is logged *in*. It uses no arguments. It will set the console to the logged *out* mode. The console may also be logged out by typing **exit** or **ctrl-D**.

3.4 CHANGE PASSWORD - CHGPASS

Syntax: `chgpass PASSWD=<old> NEWPASS=<new> CONFIRM=<new>`

The **chgpass** command is used to change a user password on a particular application type. The command is only allowed if the user is logged *in*.

All three parameters can be given on the same line as the command. None of those entries are echo-suppressed. However, if parameters are omitted from the command line, the console will prompt for them, and the responses will be echo-suppressed.

If the current password is valid, and the two entries for the new password match, the password is changed to the new value.

3.5 APPLICATION CONSOLE USER HELP - HELP

Syntax: `help | ? [command]`

The **help** command is always visible. The **help** command displays the currently allowed commands for the mode that the unit is currently entered.

3.6 VERSION - VER

Syntax: `ver`

The **version** command is only visible when the application is *logged in*. The command has no arguments. It displays the current software and database revisions of the application.

3.7 LABEL

Syntax: `label ["label string") | none]`

If the command is issued without arguments, the current configuration is displayed. When issued with an argument of **"none"**, the label becomes a NULL label. Otherwise, a label up to 32 characters is allowed when enclosed in double quotes. (The double quotes are not counted as part of the 32 characters). The label may be a mixture of alpha characters and digits. It is case sensitive.

3.8 BANNER MESSAGE - BANNER

Syntax: `banner [L<#>="System Banner Line <#>"]`

The **banner** command is only visible when the application is *logged in*. The command is used to configure a system message banner that is displayed to the administrators upon connection. There are currently eight (8) lines of banner. Each line may be configured independently of each other with its own tag (i.e. L1, L2, ..., L8). Each banner line may contain a maximum of 60 characters of text including spaces. The banner lines are visible on a **verify** command. The use



of this command is not required if no banner is desired. The banner may be cleared by using the **banner** command with the parameter **default**. This will delete all banner lines.

3.9 APPLICATION COMMENTS - COMMENT

```
Syntax: comment [ L1="comment"  
                [ L2="comment"  
                [ L3="comment"
```

The **comment** command allows a user to add user information to the application instance. The information is displayed during a **verify** command. Up to three lines of information may be provided. Each line may be up to 64 characters in length, may include spaces, and is double quoted. Each line may be changed individually. Comments may be cleared by setting the line value to a null comment (i.e. "").

3.10 OA&M SESSION TIMER CONFIGURATION - TIMEOUT

```
Syntax: timeout [ OFF | <Number of Seconds> ]
```

The **timeout** command configures the session timer. When configured, the session timer will disconnect a user from the OA&M telnet port for this IP-SPOOL instance. No other instances on the DT-6XXX are affected since each has its own OA&M connection. The default value for **timeout** is **OFF (Timeout disabled)**, and the range of seconds is **15-255**.

3.11 CONFIGURING BISYNC HOST INTERFACE PARAMETERS - HOST

```
Syntax: HOST [dest=<BHI IP Address>][dport=<BHI TCP Port>]
```

The **HOST** command is only visible when the application is logged in. The command is used to configure the parameters needed for connections to a BiSync Host interface application. There is exactly one such connection.

When the IP-B2APRT application makes an originating connection to the BHI for a BiSync printer, the **dest** configuration would specify the IP address and the **dport** is the hunt group TCP port for the BHIM.

3.12 CONFIGURING ASCII PRINTER INTERFACE PARAMETERS - PRT

```
Syntax: PRT [dest=<ASCII Printer IP Address>][dport=<ASCII  
Printer TCP Port>]
```

The **PRT** command is only visible when the application is logged in. The command is used to configure the parameters needed for connections to an ASCII Printer. There is exactly one such connection. The ASCII printer may be directly connected to a DT-4000, or SAM/DT-2020 combination. In addition, the ASCII printer may reside on an asynchronous port of a BNS network. These connections would require a UMI module.

When the IP-B2APRT application makes an originating connection to the ASCII printer port, the **dest** configuration would specify the IP address and the **dport** is the hunt group TCP port for the DT-4000.



The IP-B2APRT application may also be used with the IP-SPOOL application which enables the sharing of one physical RFC 1179 compatible printer among many devices. Instead of to physical printer, the **PRT** command points to a "virtual" printer of the IP-SPOOL application. The IP-SPOOL application defines the actual physical, but now shared printer. For the **PRT** command, **dest** is the IP address of the DT-6XXX on which the IP-SPOOL application is installed and **dport** is the TCP port which is equal to $30000 + (\text{instance\#} - 1) * 200$. where instance# is the number of the instance, i.e. of the virtual printer on the IP-SPOOL application on the target DT-6XXX.

3.13 REMOVE CONNECTIONS FROM SERVICE - RM

Syntax: `rm <host | prt>`

Should a situation occur where the TCP connections to either the Host or the ASCII printer needs to be taken down or altered, the connection should first be removed from service. That is the function of the **remove** command.

The **rm (remove)** command requires one argument. This argument is either **host** or **prt**. When the argument is **host**, the TCP connection to the BHI is taken down. When the argument is **prt**, the TCP connection to the ASCII printer interface is taken down.

3.14 RESTORE CONNECTIONS TO SERVICE - RS

Syntax: `rs <host | prt>`

In order for any connectivity between the BHI Host, and the ASCII printer to occur, two TCP connections are required. These are configured using the **bsc** and **asc** for the host and printer respectively. After the addressing is configured, each connection needs to be brought into service. That is the function of the **restore** command.

The **rs (restore)** command requires one argument. This argument is either **host** or **prt**. When the argument is **host**, the TCP connection to the BHI is established. When the argument is **prt**, the TCP connection to the ASCII printer interface is established.

3.15 VERIFY CONFIGURATION - VFY

Syntax: `vfy`

The **vfy** command is only visible when the application is logged in. The command is used to display the configured options on the IP-B2APRT application. An example of the output of the **vfy** command is shown previously on page 11.

3.16 DISPLAY CURRENT CONNECTIONS - DCONN

Syntax: `dconn`

The **dconn** command is used to display all of the current TCP connections on the IP-B2APRT application. The command will issue a report that shows the connection peer for each active connection.



3.17 DISPLAY LOG - DLOG

Syntax: `dlog`

The `dlog` command is used to display all entries in the log file.

An exclamation point (!) that precedes a log entry denotes new entries. A double asterisk (**) that precedes a log entry denotes duplicate entries.

3.18 CLEAR LOG – CLEAR LOG

Syntax: `clear log`

The log file can be cleared with the command, `clear log`.

3.19 DISPLAY MEASUREMENTS - DMEAS

Syntax: `dmeas`

The `dmeas` command is only visible when the application is logged in. The command is used to display the current measurements on sessions between clients and the host. Only counters, which are non-zero, shall be displayed.

The per session measurements available are as follows:

Measurement Description
Number of Messages from the Printer to the Host.
Number of Bytes from the Printer to the Host.
Number of Messages from the Host to the Printer.
Number of Bytes from the Host to the Printer.

3.20 CLEAR MEASUREMENTS - CLR

Syntax: `clr`

The measurements displayed with the `dmeas` command are aggregated until cleared. The `clr` command will set all measurements to zero. The command has no arguments.

4 APPLICATION SOFTWARE INSTALLATION & UPGRADE

An application may be initially installed, or upgraded, using the `install` command.

Refer to the *DT-6XXX Platform User's Manual* and refer to the section titled: **Application Software Installation & Upgrade**

5 HARDWARE WARRANTY

The warranty period for the DT-6XXX hardware on which this application runs shall be ninety (90) days from the date of shipment of the hardware from Datatek Applications, Inc. Replacements and repairs are guaranteed for the longer of the remaining original warranty period or 30 days.

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