



IP-BHI BiSync Host Interface Application User's Manual

Build 5

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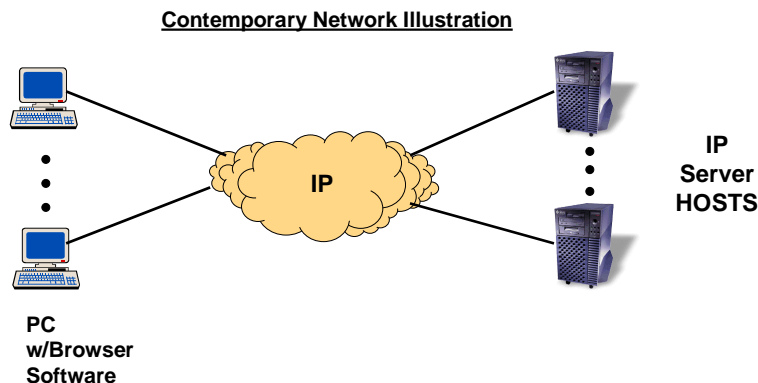


Introduction

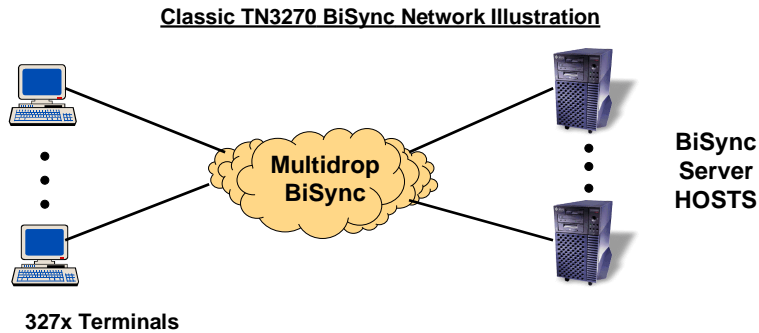
The early networked information systems consisted of one or more large servers arranged into a pool with organized display pages. Each page had a unique resource locator address. A network of screen oriented terminals then would display a page at a time. A user would start navigation through the display pages at a known “home” page, and browse to the subsequent pages. The network itself would be managed by various routing devices that would deliver the message to the server or the terminal device as needed. Addressing was by unique address at both endpoints. Server to Server, and Terminal to Terminal messaging is possible, but the vast majority of the traffic is server to Terminal. The terminal device would contain sufficient intelligence to allow modification of the page, and a submission to the server for further processing.

This description can easily be applied to the Internet Protocol (IP), a World Wide Web Browser, and a classic HTTP server. Extended attributes can be Java, Flash, or any of the newer technologies on the Internet. Screen stored content are analogous to the modern “cookie”. However, the description above is not for a modern browser, or the modern internet. Rather, it is for the BiSync communications structure which remains with us today. This application applies to BiSync Servers on Front End processors (routers) with Mainframe Computers as servers.

The following is a simplified diagram of the *Internet* as it exists today.



Compare the above to the Classic BiSync network below.

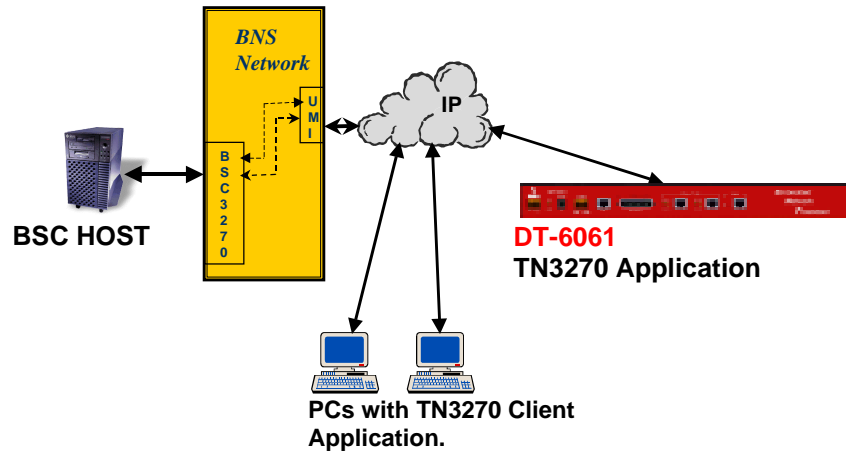


Clearly, not much has changed in terms of actual user operations. In either network, a user need not be co-located with the servers, and multiple servers could be used to provide redundant operation. The protocols have changed a little but remain message oriented and data-gram routed. The physical size of the message routing devices has become considerably smaller, but the number of interfaces supported by the routing devices have subsequently been considerably reduced. The throughput of an individual connection has been increased substantially, but is still limited in the aggregate by the server operation. In essence, the basic operation has remained.

The issue at hand is the integration of technologies to provide universal access to the services of the BiSync hosts, and to reduce the administration of the two technologies. The need is not in the applications resident in the mainframe servers, but rather in the modernization of the network and a cost reduction of the terminal devices.

An initial step has already been taken to merge the modern Internet with the BiSync servers. This uses the TN-3270 application, the UMI, and a Datakit BSC3270 module. The following is a diagram of that configuration.

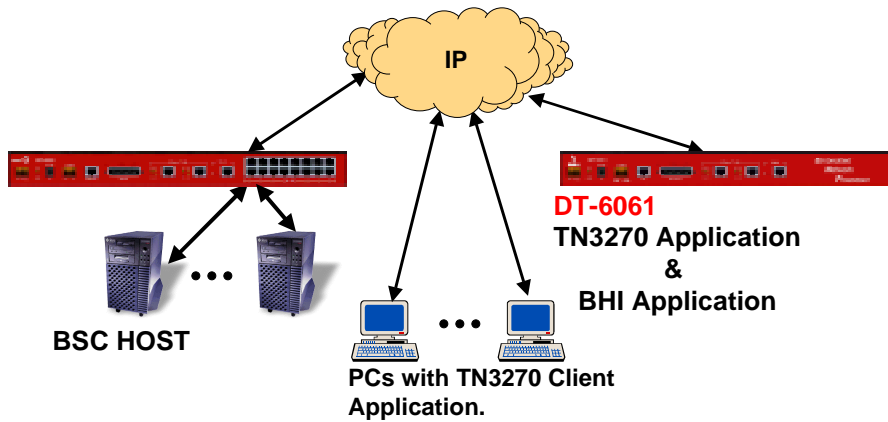
TN3270 Access with Datakit/BNS and DT-6061



In the diagram above, the TN3270 application provides the interface mediation between client software, such as Exceed TN3270; and the BSC3270 interface module resident on a Datakit/BNS network. The Universal Mediation Interface (UMI) is used to provide protocol mediation between the IP and Datakit networks. The BiSync Host does not need to be co-located with either the **DT-6061**, or the Datakit node.

The Datakit/BNS solution is simple, inexpensive, and effective. However, there are situations where no Datakit network presence is available. This is the situation for which the **IP-BHI** application has been created. Consider the following diagram:

TN3270 Access using only DT-4000 and DT-6061



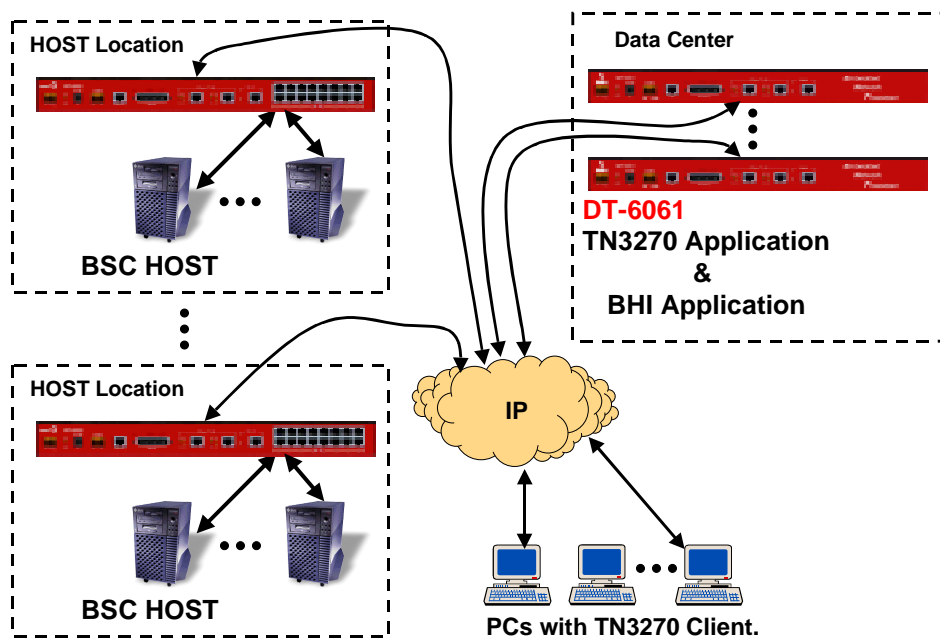
The diagram above illustrates the **IP-BHI** solution to the integration of BiSync hosts. The BiSync host is attached to a **DT-4000** serial port. The **DT-4000** serial ports may operate with the fastest BiSync interface. If the BiSync interface is V.35, a DT-9008 adapter is used to make the conversion. The **DT-4000** has an IP connection with the **IP-BHI** application. The **IP-BHI** application provides an interface to the TN-3270 application. The TN3270 application may be on the same **DT-6061**, or on a different **DT-6061**. The TN3270 application interfaces with the client software on the PC. The users have full access to all of the host services by utilizing TN3270 client software as if they were connected to a genuine 327x series terminal device.

Typical Deployment

In this section, a typical deployment of the **IP-BHI** application is discussed. The typical deployment is to provide connectivity to each BiSync host without requiring additional network connections. This is done by locating a **DT-4000** at the site of each host, or group of hosts.

Each **DT-4000** may support up to 16 Binary Byte Synchronous interfaces. The **DT-6061** is centrally positioned in the Data Center and shared among the server hosts, and 3270 client users.

Consider the following diagram:



Two applications are required to provide connectivity. If two **DT-6061**s are used, then each may be a single RTU configuration. If a single **DT-6061** is used, a two RTU configuration is required. Each **DT-6061** has the ability to run 30 instances (or copies) of one or different applications. Multiple copies of the TN3270 application are used to support large numbers of clients. Multiple copies of the **IP-BHI** application are used to support multiple Binary Byte Synchronous lines.

IP-BHI Features

This section defines the features of the **IP-BHI** application. This is done as a list, but some features require further elaboration.

- Support for one Host BiSync line per instance. The BiSync host must be attached to a **DT-4000** port.
- Up to 64 Logical Unit (LU) sessions per instance of the **IP-BHI** application.
- Eight Terminal Type Group Configurations. Each group may be on one or more terminal addresses, and on one or more control units.
- Support for all 32 Control Unit addresses on each Binary Byte Synchronous line.
- Support for all 32 Logical Units on each Control Unit address on each Binary Byte Synchronous line.
- Support for “Read Only” Logical Unit types (i.e. Printers).
- Support for Basic, Color, Extended Attribute, Color w/Extended Attribute terminal types.
- Support for 1920, 2560, 3440, and 3564 screen sizes. These correspond to the M2, M3, M4, and M5 terminal types respectively.
- Support for EBCDIC, ASCII w/EVEN, and ASCII w/ODD parity code sets. The code set is *automatically retrieved* from the **DT-4000** and not configured in the **IP-BHI** application.
- Up to 30 instances of the **IP-BHI** application may be present on the same **DT-6061**.
- 1 Configuration Console is available to be used by the **IP-BHI** administrator for configuration, diagnostic and measurement purposes.
- The **IP-BHI** application requires only minimal configuration for proper operation.
- Alarms for “Host not Active” dynamically issued.
- Retirement alarm for “Host Active” dynamically issued.
- Automatic custom formatted “Host Unavailable” message to client users.
- Automatic custom formatted “Host has become Available” message to client users if a “Host Unavailable” was previously issued.
- Automatic logout via Status and Sense messages available on a per group basis.
- Automatic logout macros available on a per group basis to prevent unauthorized application security violations.
- Support for automatic client fault-over to other facilities when host connections fail. (Build #5 and Requires TN3270 Build #10).



Suggested Reference

The following documents are resident at <http://www.datatekcorp.com> under the documentation button.

Document	Scope
DT-6061 Platform User's Manual.	Describes the DT-6061 Embedded Network Processor infrastructure and command set. This includes configuration information, hardware specifications, and SNMP MIB support. The DT-6061 is the infrastructure on which the Virtual Console application shall reside.
DT-4000 User's Manual.	Describes the DT-4000 multi-protocol access device. The DT-4000 is used as the interface for physical serial connections to the Binary Byte Synchronous host.
DT-6061 TN3270 Application User's Manual.	Describes the operation and configuration of the TN-3270 application for the DT-6061 . The TN-3270 application is used to interface with the client software. The TN-3270 application then interfaces with the IP-BHI to access the BiSync host.
DT-6061 IP-B2APRT Application User's Manual.	Describes the operation and configuration of the TN-3270 series Binary Byte Synchronous printer to Asynchronous printer interfaces. Allows an inexpensive ASCII printer to be used as an output normally Control Unit (CU) connected 3xxx series printer.
DT-6061 Redundant Operation White Paper.	Describes the method of operating the DT-6061 in a 1+1 sparing configuration.



IP-BHI Interfaces

The TCP port numbers associated with a **DT-6061** application are normally referenced by which **instance** the application is installed. The **IP-BHI** may be installed on any of the 30 **instances** of the **DT-6061**.

Consult the **DT-6061** infrastructure manual for information on how to install an application.

The TCP Numbers associated with the **IP-BHI** application instance are as follows:

Set	#Channels	TCP Port#	Usage
OA&M	1	10000 + Instance#	Administration of the IP-BHI application. This is the standard configuration TCP port number for a DT-6061 application. For example, instance #1 is 10001, instance #2 is 10002, and so on. Connections to this TCP port are made via a Telnet client.
BiSync	1	30000 + (200 * Instance#-1)	There is a single connection to the Binary Byte Synchronous line attached to the DT-4000 serial port. For instance #1, this is 30000, for #2 it is 30200, through instance #30 at 35800.
Client Groups	8	30000 + (200 * Instance#-1) + Client Group #.	There are up to 8 client groups, numbered one through eight inclusive. Each client group is associated with configuration information and may be associated with one or more Control Unit / Device ID addresses configured on the Binary Byte Synchronous line.



IP-BHI Command Set

Input Conventions

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

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 not preserved for values. Backspace erases one character.

Login

Syntax: login PASSWD=<password>

The login command is used to allow access to the other configuration commands.

The login command is only visible when the application is in the *logged out* (i.e. secure) mode. The unit enters this mode whenever a *logout* command is issued or when the Telnet to the application instance OA&M TCP port is interrupted for any reason.

The password is not echo-suppressed. The password consists of up to seven alphanumeric characters. Special characters are not allowed.

The default password is "initial".

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.

Change Password

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

The **chgpass** command is used to change a user password on the system console. The command is only allowed if the user is logged *in*.



All three parameters must be given on the same line as the command. None of those entries are 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.

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. The alternate command for help is a question mark.

Version

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.

Verify of Configuration

Syntax: vfy < BHI | GRP <Range> | MACRO <Range> >

The **vfy** command is only visible when the application is *logged in*.

When used with a **BHI** argument, the command is used to verify the parameters of the **IP-BHI** instance such as the instance number, the IP address of the **DT-6061**, and other relevant information.

When used with an argument of **GRP**, the configuration of the specified group is displayed. A range of groups is allowed.

When used with an argument of **MACRO**, the configuration of the specified macro definitions is displayed. A range is allowed.



Display of Measurements

Syntax: dmeas < ALL | BHI | GRP <RANGE> >

The **dmeas** command is only visible when the application is logged in. The command is used to display the current measurements on any of the interfaces.

The **dmeas** command may display the measurements for the common elements of the **IP-BHI** application. This is done by using an argument of either **ALL** or **BHI**.

The common elements include the BiSync line, and client measurements in the aggregate.

The **dmeas** command may display the measurements specific to one or more groups by using the **GRP** argument. The **<RANGE>** is the group list for which measurements are required. The value of **ALL** shall yield measurements for all of the groups that are presently configured.

Displaying Current Connections

Syntax: dc

The **dconn** command is used to display all of the current connections into the **IP-BHI** application.

Please note that the command does not require any arguments. The command will issue a report that shows the connection peer for each active connection.

Snooping on Traffic

Syntax: snoop [OFF | BSC | GRP <#> | < UNIT <CU#>.<LU#> >]

The **IP-BHI** application has a diagnostic ability to snoop on any of interfaces which carry data. This is done with the **snoop** command. All output is directed to the OA&M connection.

If the command is invoked with no arguments, it produces a report of all active snooper configurations.

If the command is invoked with the **OFF** option, all of the active snooper configurations are disabled.

If the command is invoked with the **BSC** option, the BiSync line interface snooping is enabled.

If the command is invoked with the **GRP** option, the specified group client connections are snooped. Only one group may be specified in this manner.

If the command is invoked with the **UNIT** option, the client associated with a specific control unit and device on the Binary Synchronous line is then snooped.

Clear Measurements

Syntax: clr < ALL | BHI | GRP <RANGE> >

The measurements displayed with the **dmeas** command are aggregated until cleared. The **clear** command will set measurements to zero. When the target is **ALL**, the BiSync line and all of the client connection measurements are cleared. When the target is **BHI**, only the Binary Byte Synchronous line and common aggregate measurements are cleared. When the target is **GRP**, a range of group ids indicates which connections are to have the measurements cleared.

Prompt Labels

Syntax: label [word (no spaces) | NONE]

The prompt on the application console may be customized with a label up to eight characters in length. The value of **none** deletes any existing label on the prompt. The current configuration is displayed during a *verify configuration*, by invoking the **label** command without arguments, or merely by the prompt display.

Application Comments

**Syntax: comment [L1="Any Comment"
[L2="Any Comment"
[L3="Any Comment"]**



The **IP-BHI** application may have comments which are displayed with the *verify configuration* command. Up to three lines of comments are available. Each line may have a comment up to 64 characters in length. Each comment is double quoted to allow for spaces to be embedded. A comment with no characters (i.e. "") is used to delete a comment which is not desired. It is not necessary to delete prior to adding a new comment. The new comment shall replace the existing comment at the line specified.

Terminal Group Setup

```
Syntax: grp <Grp #> [ type=BASIC | COLOR | EXT | CE ]
                [ size= 1920 | 2560 | 3440 | 3564 |
                    M2 | M3 | M4 | M5 ]
                [ rxonly= YES | NO ]
                [ unit=[+|-]<CU>.<LU> | NONE ]
                [ comment="Text" ]
                [logoff=NONE | SAS | <Macro#> ]
                [unavail=NONE | CONN | <Macro#>]
                [avail=NONE | CONN | <Macro#> ]
                [ DELETE ]
```

The **grp** command is only visible when the application is *logged in*. The command is used to configure an administrator ID. The **<Grp#>** is a designator for the group in the range of 1 through the number of groups allowed (see features description).

The **type** designates the type of 327x terminal device attached. Four values are possible for the **type** option. These are as follows: The **BASIC** value to specify a standard 327x terminal device. The **COLOR** value to specify a 327x terminal device that has color display (e.g. 3279). The **EXT** value to specify a standard 327x terminal device that is utilizing extended attributes of the protocol. Finally, the **CE** value to specify a color 327x terminal device which is also utilizing the extended attributes of the protocol. This option must match the value incorporated into the host definition for the BiSync line.

The **size** specifies the number of positions which may be displayed. For example, A 24x80 display has 1920 positions. It would use the value of either 1920, or M2. This option must match the value incorporated into the host definition for the BiSync line. An M2 terminal is of size 24x80 and contains 1920 characters. An M3 terminal is of size 32x80 and contains 2560 characters. An M4 terminal is of size 43x80 and contains 3440 characters. Finally, an M5 terminal is of size 27x132 and contains 3564 characters.



The **rxonly** attribute specifies whether or not the terminal device is only sent data from the host. This should be **YES** for printer connections, and **NO** for any other configuration. The default is **NO**. This option must match the value incorporated into the host definition for the BiSync line.

The **unit** option allows the *association* of Control Units and Logical Units to the group. Any permutation of Control Unit and Device Unit pairs are allowed to be associated with a particular group. The **<CU>** is a single value in the range of 0 through 31 inclusive. This numbering scheme is selected to match the line configuration for most server hosts. The **<CU>** value may also be specified as a range (e.g. 3-4). The value **ALL** may be used to specify the entire 0-31 range. The **<LU>** is a single value in the range of 0 through 31 inclusive. The **<LU>** may also be specified as a range (e.g. 3-4). The value **ALL** may be used to specify the entire 0-31 range. Combinations are also possible (e.g. **grp 1 unit=2-3.ALL**). The total number of logical units *associated* with groups may not exceed the limitation specified in the feature description. The value of **NONE** to the **unit** option deletes all of the control unit and logical unit *associations* without changing any other group configuration.

The **grp** command is cumulative. For example, suppose it is desired to configure control unit #2, and all of the logical units except for #17. Then the command would be:

```
grp 1 unit=2.all unit=-2.17
```

The **logoff** field allows the **IP-BHI** administrator to define the actions taken upon the disconnect of a client user. The value of **NONE** performs no action. The LU becomes immediately available to the next user. The value of **SAS** will send a "device end" *Status and Sense* message to the host. Many installations use this type of message to inform the application of a disconnected user. The value of a **<Macro#>** indicates that the macro command script is to be executed. The contents of the script are custom defined for each individual application.

The **unavail** field allows the **IP-BHI** administrator to define a message that is sent to a client user when the host is not available. The message is sent at the time the client user connects to the **IP-BHI**, or at any time thereafter if the BiSync host is no longer detected. A value of **NONE** indicates that no message is to be sent. A value of **<Macro#>** indicates that the message constructed from the macro definition is to be sent. The entire definition is sent as a single message.

When the value of **CONN** is administered in the **unavail** option, the corresponding **avail** option is also set with the value of **CONN**. The **CONN** value



instructs the BHI to disconnect all clients when a host connection fails, and prevent any further client connections until the host is active. This feature is used in conjunction with the corresponding TN3270 application Build #10 feature that allows multiple BHI applications to be used simultaneously. The net result is that no client is denied service if one or more host connections fail.

The **avail** field allows the **IP-BHI** administrator to define a message that is sent to a client user when the host becomes available after it was previously unavailable. The message is only sent to a client user if that user was previously sent an "Unavailable" message. A value of **NONE** indicates that no message is to be sent. A value of **<Macro#>** indicates that the message constructed from the macro definition is to be sent. The entire definition is sent as a single message.

When the value of **CONN** is administered in the **avail** option, the corresponding **unavail** option is also set with the value of **CONN**. Please see the description in the preceding paragraphs.

The **comment** field allows the **IP-BHI** administrator to appropriately label this group should it become necessary. The text field is a maximum of 60 bytes in length.

The **DELETE** option shall remove the group id, and the group's associated configuration, from the **IP-BHI** application database.

Macro Definitions Group Setup

**Syntax: Macro <Macro#> <Step#> [key=<SendKey>]
[data="Quoted Data String"]
[row=<Row#>] [col=<Col#>]
[DELETE]**

The **macro** command is only visible when the application is *logged in*. The command is used to configure an execution sequence, or a message. When a macro is used as an execution sequence, it is executed one step at a time. When a macro is used as a message constructor, the entire macro is constructed into a single message. Messages have a **key** of **MSG** only. A macro is either an execution macro or a message macro, but not both.

The **<Macro#>** represents which macro is being defined. The **<Macro#>** is in the range of one to sixteen inclusive.

The **<Step#>** represents which step in the macro is being defined. The **<Step#>** is in the range of one to thirty-two inclusive.



The **key** field takes on the value of **ENT** for *enter*, **CLR** for *clear*, **PFn** for a program function key where **n** is the program function key number, or **MSG** for a message macro.

The **data** field accepts the quoted string to be sent. The quotes themselves are not sent. The field may contain spaces, numbers, and special characters. The data field may be up to 47 characters in length.

The **row** field accepts the number of the row in which the data is to be placed. The row number is in the range of one through 24 inclusive.

The **col** field accepts the number of the column in which the data is to be placed. The column number is in the range of one through 79 inclusive. Please note that data will wrap to the next row if insufficient space exists.



IP-BHI Measurements

This section itemizes the measurements available using the *display measurements* (**dmeas**) command.

The base measurements are always displayed, and the error and exception counters are only displayed if nonzero.

The measurements available are as follows:

Measurement Description	Type
Number of Bytes Received	Base
Number of Bytes Transmitted	Base
Number of IP Packets Received	Base
Number of IP Packets Transmitted	Base



Warranty

The warranty period for hardware shall be one year from the date of delivery, and the warranty for software shall be 90 days from the date of delivery.

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