



READ ME FIRST !!

IP-B2APRT

***BISYNC TO ASCII PRINTER
APPLICATION***

RELEASE NOTES

FOR

DT-6XXX

EMBEDDED NETWORK PROCESSORS

BUILDS 5, 6, 7, 8, AND 9.0

(RELEASE.VERSION 9.0)

ISSUE 2

379 Campus Drive, Suite 100
Somerset, NJ 08873
fax: 732 667-1091
phone: 732 667-1080
email: sales@datatekcorp.com
<http://www.datatekcorp.com>



TABLE OF CONTENTS

Important Safety Instructions	3
IMPORTANT ! !	4
1 Introduction	5
2 Product Features	5
3 Release Changes	5
3.1 New for Build 5	5
3.2 New for Build 6	5
3.3 New for Build 7	5
3.4 New for Build 8	6
3.4.1 New and Changed Commands	6
3.4.2 Command Output Changes	6
3.4.3 Other Changes	6
3.5 New for Build 9.0	7
3.5.1 New and Changed Commands	7
3.5.2 Command Output Changes	7
3.5.3 Other Changes	7
4 Installation Addendum	7
4.1 Constraints	7
4.2 Obtaining Information from Datatek	7
4.3 Registration	8
4.3.1 Special Considerations for Duplex Operation	10
5 Documentation	10
6 Appendix A: B2APRT Instance Number to TCP Port Conversion Table ..	11
7 Hardware Warranty	14
8 End-User License Agreement for Software	14
8.1 Software License	14
8.2 Intellectual Property Rights	14
8.3 Software Support	15
8.4 Export Restrictions	15
8.5 Limited Warranty	15
8.6 No Other Warranties	15
8.7 Special Provisions	16
9 Limitation of Liability	16



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:
- A DT-6061 unit was tested with the K'TRON, Model KA-52A Wall Plug-In Unit and a DT-6X60 with a Phi Hong Model PSA-30U-240 Wall Plug-In Unit (110-240 V AC to 24 V DC)..
 - 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 power 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



IMPORTANT !!

USER DOCUMENTATION IS AVAILABLE AT OUR WEB SITE.

Documentation:	http://www.datatekcorp.com
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Sales:	sales@datatekcorp.com
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SPECIAL INSTALLATION AND UPGRADE PROCEDURES

1. **New "Build Numbers":** Build numbers, beginning with this release, consist of two parts: a release number and version level. Technically, this software is called software release 9.0. The first field is the base. The second field is the maintenance level of the software. Various commands require both fields, so when supplying build information to Datatek for key generation, etc., supply the complete two-part build number. Generally, text showing only the first part means that whatever is being discussed applies to any and all versions of that release (base).
2. **Platform Build Compatibility:** This build (9.0) must be installed on a DT-6061 running platform software build 16.0 or higher or on a DT-6160 or DT-6260 using any of their platform software builds. This build is the first build that is compatible with the new DT-6160 and DT-6260 Embedded Network Processors as well as the existing DT-6061 processor. **Please review the Release Notes for Build 16.0 of the DT-6061 Platform software before attempting to install this version of the IP-B2APRT application.**
3. **Registration:** Starting with DT-6061 platform release 16.0 or DT-6X60 platform release 1.0, the platform software must be registered for each DT-6061/DT-6X60 on which it is installed. In addition, each application must be registered for each DT-6XXX¹ on which it is installed. An application is registered only once per DT-6XXX regardless of the number of instances of that application running on a particular DT-6XXX. **Note that any application will not run after the new platform software is installed unless both the platform and application are registered.** Keys may be obtained in advance of the installation of software. Changing either the release level or the version level requires that a new key be obtained and the re-registration of the particular software entity. See section 4.3 for details.

¹ These three processors, DT-6061, DT-6160, and DT-6260 constitute a family that is generically called the DT-6XXX processors.



1 INTRODUCTION

These release notes highlight the application features, modifications, known caveats and any special considerations for the **IP-B2APRT** application. For detailed information on this product, reference the *BiSync to ASCII Printer Application User's Manual*, which can be downloaded from the WEB site above.

2 PRODUCT FEATURES

The BiSync to ASCII printer application (*IP-B2APRT*) is a companion application to the *TN-3270 Server* application of the DT-6061. This application is designed to replace the *A2B DKAP* application used in BNS-2000/Datakit[®] networks or to be used in IP networks without any BNS/Datakit nodes.

3 RELEASE CHANGES

3.1 NEW FOR BUILD 5

- ❑ Added support for messages from the BSC host normally destined to 132 column BSC printers
- ❑ Output the local IP address of the host DT-6061 on which this application is installed and its instance number in the ' vfy (verify) report executed through this application's console.

3.2 NEW FOR BUILD 6

- ❑ This application originates two calls through the IP network: one to the printer and one to the bisync host. Previously, if either connection was dropped due to network or host problems, the application did not know this had occurred, so the call was only "half connected". The application can now detect this unwanted state, drop the call on the application end, and set up a new call to the desired end point.
- ❑ More than one user could telnet to the application console but the second user was not truly connected. Now only the first user is allowed to connect and other attempted simultaneous calls to the same console are dropped.

3.3 NEW FOR BUILD 7

- ❑ Build 7 was a rebuild of build 6 in order to reformat the load module for compatibility with build 14 and above of the DT-6061 platform software. No new features were added nor any fixes applied.

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3.4 NEW FOR BUILD 8

3.4.1 NEW AND CHANGED COMMANDS

- ❑ Case sensitive passwords now work when the prompted mode of the **login** command is used. Prompted mode is when the password is not specified on the same line as the command **login**.
- ❑ A new **banner** command has been added.

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

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 to the IP-B2APRT application. The banner can consist of a maximum of eight (8) lines of 60 characters each of text including spaces. Each line may be configured independently of each other with its own tag (i.e. L1, L2... L8). The banner lines are visible on a **vfy** command or by invoking the **banner** command with no parameters. 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 called **default**. This will delete all banner lines.

- ❑ The **comment (cmt)** command is used to configure a comment field applicable to this instance of this application. The comments are visible on a **verify** command. The use of this command is not required if no comments are desired.

**Syntax: comment [L1="Comment Text #1"]
[L2="Comment Text #2"]
[L3="Comment Text #3"]**

The **L1**, **L2**, and **L3** comment fields allow the console administrator to appropriately label this application should multiple installations be used. The text is a maximum of 60 characters in length for each field.

- ❑ A console label can now be used with this application. Its length can be 32 characters or less excluding the double quotes with which it is enclosed when being configured.

Syntax: label [<"label string"> | none]

3.4.2 COMMAND OUTPUT CHANGES

- ❑ The output of the **vfy** command has been changed to show the current values used in the **banner**, **comment**, and **label** commands.

3.4.3 OTHER CHANGES

- ❑ Passwords can now be case sensitive
- ❑ Application generated errors no longer go to the DT-6XXX console. Instead they are logged in the error log, which can be displayed using **dlog** command.
- ❑ Fixed a console hang when the TCP window closes. This hung condition could occur when the IP-Spool printer is Out-Of-Service (OOS) or unavailable.



3.5 NEW FOR BUILD 9.0

3.5.1 NEW AND CHANGED COMMANDS

- ❑ None

3.5.2 COMMAND OUTPUT CHANGES

- ❑ The version command, **ver**, now prints the two-part build number.
- ❑ A change was made in the **vfy** command so that it would print the correct local IP address.

3.5.3 OTHER CHANGES

- ❑ Support was added which enables this application to run on the new DT-6160 and DT-6260 platforms as well as the DT-6061 platform.
- ❑ Logic was added to use the TCP probe method for keep-alives. If there is no response to a TCP probe from the distant end after an initial time-out period of 200 seconds, additional probes are sent up to 8 times at 12-second intervals. If there is still no response during the probing period, then the connection is dropped with a RST+ACK.

4 INSTALLATION ADDENDUM

4.1 CONSTRAINTS

The DT-6061 platform software must be upgraded to platform build 16.0 or higher before installing this build (9.0) of the **IP-B2APRT** Application. This build will also run on any DT-6X60 platform. Please review the Release Notes for Build 16.0 or higher of the DT-6061 Platform software or the Release Notes for Build 1.0 of the DT-6X60 Platform software for details.

4.2 OBTAINING INFORMATION FROM DATATEK

Load modules for all the Datatek migration products are obtained by sending email to either Bill Arndt at arndt@datatekcorp.com or Dan Conklin at conklin@datatekcorp.com. All other documentation, including release notes, user manuals, "white-papers", etc. can be accessed on the Datatek website www.datatekcorp.com and downloaded for use.

To insure that the correct version of the binary load module files have been retrieved and have not been corrupted during the transmission process, the UNIX[®] "**sum**" command can be used. After unzipping (if necessary) and transmitting the files to the target UNIX host server from the PC to which the load modules were initially sent from Datatek, on the UNIX host

Key-in **sum < name of downloaded file>**.

The values returned must match the numbers shown below:

Key-in: **sum b2aprt.dt6**

Response: **47364 131 b2aprt.dt6**

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4.3 REGISTRATION

(The discussion below pertains to any DT-6XXX platform and to any application running on one of these platforms. Examples below will concentrate on the DT-6061 but the concepts apply also to the new DT-6160 and DT-6260 platforms.)

Beginning with DT-6061 platform build 16.0, the software for any DT-6XXX platform requires a key for activation. In addition, any application running on a DT-6061 platform software build 16.0 and above requires a key for activation.

After installing the new platform software build 16.x and rebooting, before the DT-6061 may return to service, the software must be registered. The application(s) resident on this DT-6061 platform build must be registered also. Once the reboot is executed, the application(s) will not run until the application registration process is completed. One cannot login into the application console until both the platform software and application software are registered.

One key is needed for the DT-6061 platform and one key for each different application resident on a DT-6061, regardless of the number of instances of that application on this particular DT-6061. Using the DT-6061 serial console, run the **register** command to register the DT-6061 platform (module) and **regapp** command to register the application(s). Changing either the release level or the version level requires that a new key be obtained and the re-registration of the particular software entity.

Run the **register** command, which will produce the output similar to that shown below. Contact Datatek with the information in order to obtain the software key. Rerun the **register** command and enter the software key at the prompt or on the command line.

```
<rainbow: DT-6061> register ↵
Product_Code=DT-6061
MAC=0.96.28.2.55.219
HW_SERNUM=0.0.6.240.61.162
Build_Number=16.0
Build_Date="Mon Jan 19 23:10:14 EST 2004"
Enter key: ↵
No key entered
<rainbow: DT-6061>
```

The **vfy mod** command displays the state of the registration.

```
<rainbow: DT-6061> vfy mod
Module is: Registered
hostname: testbox
ippublic: 192.167.8.250
status: Active
ipother: 192.167.8.13
label: rainbow
ipaddr: 192.167.8.20
submask: 255.255.255.0
gateway: 192.167.8.1
mac addr: 0.96.28.2.55.219
```



```
serial #: 0.0.6.239.61.162
build #: 16.0
rtu #: 10
built on: Mon Jan 19 23:10:14 EST 2004
booted: 3.08 days ago
<rainbow: DT-6061>
```

Similarly for the application(s), run the **regapp** command:

```
rainbow: DT-6061> regapp ↵
Unregistered applications:
  x25pad: Build 23.1 "Mon Mar 15 11:45:39 EDT 2004"
  MAC Address = 0.96.28.2.55.219
  Serial Number = 0.0.6.240.61.162
application registration key ? KEY= ↵
Usage: regapp [ <key> ]
<rainbow: DT-6061>
```

A typical output of the **vfy app** is displayed below:

```
<rainbow: DT-6061> vfy app ↵
Installed applications:
  b2aprt: Build 7.0 "Wed Oct 23 14:22:11 EDT 2002"
  ip_bhi: Build 6.0 "Fri Oct 25 08:44:47 EDT 2002"; Not Registered
  ipspool: Build 11.0 "Mon Oct 6 14:27:15 EDT 2003"
  tn3270: Build 13.0 "Wed Aug 18 17:35:58 EDT 2004"
  x25pad: Build 23.1 "Mon Mar 15 11:45:39 EST 2004"
Running applications:
 1 b2aprt (9190)
 2 none (9193)
 3 none (9197)
 4 none (9202)
 5 none (9210)
 6 none (9223)
 7 none (9236)
 8 none (9237)
 9 none (9238)
10 x25pad (9461)
11 x25pad (9523)
12 x25pad (9524)
13 x25pad (9525)
14 x25pad (9526)
15 x25pad (9343)
16 x25pad (9344)
```



```

17 x25pad (9345)
18 x25pad (9346)
19 x25pad (9347)
20 none (12054) ip_bhi-unreg
21 none (9456)
22 none (9457)
23 none (9458)
24 none (9459)
25 none (9460)
26 none (9527)
27 none (9528)
28 none (9625)
29 none (9626)
30 x25pad (9627)
<rainbow: DT-6061>

```

If the DT-6XXX platform software is not registered, **vfy app** will show the application status as *rfs* (ready-for-service)

The hardware information needed for the key generation process, which is the *MAC* address and *hardware serial number* of the DT-6XXX, can be obtained before the new platform is installed by running either the **rstpass** command or **vfy mod** command. The same *MAC* address and *serial number* are also used in generating an application key. Supply Datatek with this information and the software version (two-part build number) of the platform to which you are upgrading and the software version(s) (two-part build number(s)) of the application(s) that are resident or to be installed on the platform.

4.3.1 SPECIAL CONSIDERATIONS FOR DUPLEX OPERATION

Note that in a duplex operation, the platform and applications must be registered on the standby also. The keys are different because the standby has a different *MAC* address and hardware serial number than the active. So obtain the *MAC* address and hardware serial number on the standby for key generation by Datatek. Switchover will not work properly if the software on the standby is not registered.

5 DOCUMENTATION

The current version of the **BiSync to ASCII Printer User's Manual** is **9.0**. The new commands and features for builds 5 through 9.0 are shown above in the product feature section. There are no user manual changes for build 9.0. The user manual and these release notes are available on the Datatek web site at

http://www.datatekcorp.com/support/support_soft_firm_updates.html



6 APPENDIX A: B2APRT INSTANCE NUMBER TO TCP PORT CONVERSION TABLE

Instance Number of DT-6XXX running IP-B2APRT	Instance Number of DT-6XXX running IP-BHI	Default IP-BHI BiSync Host Line TCP Port Number	UMI BiSync Host Line TCP Port Number (Hport)	DT-4XXX Physical Port Number for Printer Connect.	Default DT-4XXX Physical Printer TCP Port Number Connect.	Instance Number of DT-6XXX running IP-SPOOL	Default IP-SPOOL Virtual Printer TCP Port Connect.
1	1	30,000	No	1	50,001	1	30,000
2	2	30,200	default	2	50,002	2	30,200
3	3	30,400	Any TCP port number greater than 2,000	3	50,003	3	30,400
4	4	30,600		4	50,004	4	30,600
5	5	30,800		5	50,005	5	30,800
6	6	31,000		6	50,006	6	31,000
7	7	31,200		7	50,007	7	31,200
8	8	31,400		8	50,008	8	31,400
9	9	31,600		9	50,009	9	31,600
10	10	31,800		10	50,010	10	31,800
11	11	32,000		11	50,011	11	32,000
12	12	32,200		12	50,012	12	32,200
13	13	32,400		13	50,013	13	32,400
14	14	32,600		14	50,014	14	32,600
15	15	32,800		15	50,015	15	32,800
16	16	33,000		16	50,016	16	33,000
17	17	33,200		17	50,017	17	33,200
18	18	33,400		18	50,018	18	33,400
19	19	33,600		19	50,019	19	33,600
20	20	33,800		20	50,020	20	33,800
21	21	34,000		21	50,021	21	34,000
22	22	34,200		22	50,022	22	34,200
23	23	34,400		23	50,023	23	34,400
24	24	34,600		24	50,024	24	34,600
25	25	34,800		25	50,025	25	34,800



Instance Number of DT-6XXX running IP-B2APRT	Instance Number of DT-6XXX running IP-BHI	Default IP-BHI BiSync Host Line TCP Port Number	UMI BiSync Host Line TCP Port Number (Hport)	DT-4XXX Physical Port Number for Printer Connect.	Default DT-4XXX Physical Printer TCP Port Number Connect.	Instance Number of DT-6XXX running IP-SPOOL	Default IP-SPOOL Virtual Printer TCP Port Connect.
26	26	35,000	No default Any TCP port number greater than 2,000	26	50,026	26	35,000
27	27	35,200		27	50,027	27	35,200
28	28	35,400		28	50,028	28	35,400
29	29	35,600		29	50,029	29	35,600
30	30	35,800		30	50,030	30	35,800
31	31	36,000		31	50,031	31	36,000
32	32	36,200		32	50,032	32	36,200
33	33	36,400		1	50,001	33	36,400
34	34	36,600		2	50,002	34	36,600
35	35	36,800		3	50,003	35	36,800
36	36	37,000		4	50,004	36	37,000
37	37	37,200		5	50,005	37	37,200
38	38	37,400		6	50,006	38	37,400
39	39	37,600		7	50,007	39	37,600
40	40	37,800		8	50,008	40	37,800
41	41	38,000		9	50,009	41	38,000
42	42	38,200	10	50,010	42	38,200	
43	43	38,400	11	50,011	43	38,400	
44	44	38,600	12	50,012	44	38,600	
45	45	38,800	13	50,013	45	38,800	
46	46	39,000	14	50,014	46	39,000	
47	47	39,200	15	50,015	47	39,200	
48	48	39,400	16	50,016	48	39,400	

*Note instances 31 through 48 are valid only when using a DT-6260.

In order to understand the table above, you need to know that IP-B2APRT sets up two IP calls: one toward the target BiSync host line and one toward the target printer.

A BiSync host line is either:



logically connected via IP to a UMI vport in a BNS node which points to a SYNC8 module port to which the host's physical link is connected in a BNS node

or is

logically connected via IP to a DT-6XXX running IP-BHI having the TCP port number shown and physically connected to a DT-4XXX port which points to this TCP port number.

Hence for a particular host line, a TCP port number is used from either the IP-BHI or UMI column above but not from both columns.

The target printer can either be a physical ASCII asynchronous printer connected to a DT-4000 that is dedicated to a particular host line or a virtual printer defined in the IP-SPOOL application that uses a shared physical RFC1179 compatible printer connected to a DT-4000.

Hence for a particular printer for a host line, a TCP port number is used from either the Default DT-4XXX Physical Printer column or from the Default IP-SPOOL Virtual Printer column above but not from both columns.



7 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.

8 END-USER LICENSE AGREEMENT FOR SOFTWARE

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