



READ ME FIRST!!

TN-3270

SERVER APPLICATION

RELEASE NOTES

FOR

DT-6XXX

EMBEDDED NETWORK PROCESSORS

BUILDS 8,9,10,11,12,13.0, &13.1

(RELEASE VERSION 13.1)

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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 product. When installing, operating, or maintaining the DT-6XXX 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 must 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 non-insulated 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. Only trained personnel should perform servicing. 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 persons walking on it may abuse the cord.
 - 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 WEBSITE.

Documentation:	http://www.datatekcorp.com
Sales:	sales@datatekcorp.com

SPECIAL INSTALLATION AND UPGRADE PROCEDURES

1. **New “Build Numbers”**: Build numbers, beginning with release 13.0, consist of two parts: a release number and version level. Technically, this software is called software release 13.1. 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 (13.1) 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 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 TN3270 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

This document highlights the product features, modifications, known caveats and any special considerations for the DT-6XXX TN-3270 Server Application product. For detailed information on this product, refer to the *DT-6XXX TN-3270 Server Application User's Manual*.

2 PRODUCT FEATURES

The TN-3270 Server Application allows a PC that is connected to an IP network and has a 3270 client application installed within it to access a BiSync host via either the BNS/Datakit® Sync8 module in BHIM mode or the DT-6XXX IP-BHI application. When used in conjunction with the BNS Sync8 module, this application replaces the BNS TN3270 DKAP application. If used with the IP-BHI application, no BNS network is required. The network is totally IP.

Up to 20 BiSync host lines with an aggregate total of 100 or less logical terminals (LU's) are supported via one **instance**² of the TN-3270 Server application running on a DT-6XXX Embedded Network Processor. Up to 30 instances of this application can be run simultaneously on one DT-6061 or DT-6160 and up to 48 instances on a DT-6260.

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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 RELEASE CHANGES

3.1 BUILD 8

3.1.1 COMMAND CHANGES

- ❑ The **verify (vfy)** command now reports the DT-6061 IP address and instance number.
- ❑ The **display log (dlog)** command now reports the foreign IP address and local port.
- ❑ More checking has been added to numeric fields entered in console commands including IP addresses and TCP ports.
- ❑ Two new parameters have been added to the **BSC** command: **delay** and **ttype2**.

Syntax: **BSC** [**delay**=<seconds>][**ttype2**=<TERM ID> | **none**]

The delay parameter specifies a number of seconds (from 0 to 10) following the client's initial connection during which messages from the BHI side are dropped instead of being forwarded to the client. After the delay, the "Connected" message is sent. The only purpose for setting a non-zero delay is to configure the TN-3270 Server Application for use with a programmed client and a legacy network in which non-TN3270 messages may originate from the network during call setup. Program-based clients have notorious problems with these non-standard messages. With a delay of 0, the TN-3270 Server Application suppresses host messages until the client sends its first message (i.e. the user hits enter). The **dc** command shows a connection pending delay as "Allocated" instead of "Connected".

For clients that do not cycle properly, the **ttype2** parameter may be used to declare an alternate terminal type that the TN-3270 Server Application will accept. The secondary type is accepted after the primary type has been rejected 4 times. This technique may be used IF the client and the BiSync host use a mutual subset of the capabilities of the secondary terminal type. To delete a secondary type, enter **ttype2=none**.

3.1.2 OTHER CHANGES

- ❑ The database format is changed, but the program accepts the older database. The older database defaults to the behavior of the previous releases.
- ❑ Some report headers were changed.

3.2 BUILD 9

3.2.1 COMMAND CHANGES

- ❑ A problem was resolved with entering the **ttype** and **ttype2** parameters on the same line as other parameters in the **BSC** command.

3.2.2 OTHER CHANGES

- ❑ Excessive and incorrect error messages were eliminated on the DT-6061 system console that occurred when clients disconnected under certain circumstances.



3.3 BUILD 10

3.3.1 COMMAND CHANGES

- ❑ For the **BSC** command, up to 20 host lines can now be configured on one instance, but the total number of sessions cannot exceed 100 for that instance.

Syntax: `BSC [dest<n>=<DT-6061 address of IP-BHI application or UMI IP Address>] [dport<n>=<Computed IP-BHI Application Port number or UMI TCP Hunt Group Port number>] [numsess<n>=<#Sessions>]`

Where `n=1 to 20`.

If `<n>` is omitted, `1` is the default; i.e. `dest=` is the same as `dest1=`.

To remove a host from the list, execute the following:

`bsc dest<n>=0.0.0.0`

`bsc numsess<n>=0`

- ❑ For the **BSC** command, a threshold is set which when exceeded an alarm is output. The settable parameter is: **almthresh**.

Syntax: `BSC [almthresh=<% for alarm threshold> | off]`

The **almthresh** parameter declares an alarm threshold, expressed as a percentage of the total available sessions. When the number of active sessions exceeds this percentage, an alarm is reported on the console of the TN-3270 Server Application, if active, or on the DT-6061 system console. When the number of sessions subsequently drops below 85% of the configured threshold, the alarm is cleared, with a similar console report indicating the condition has cleared. The alarm is disabled by **almthresh=off**.

- ❑ The OA&M password is prompted and masked if not given on the command line.
- ❑ Unacceptable input characters on console now echo a 'BEL'.

3.3.2 REPORTS AND COMMAND OUTPUT CHANGES

- ❑ A new measurement was added for the “peak number of sessions”. This measurement is reported by the **dm** command and cleared by the **clr** command.
- ❑ When multiple **BSC** hosts have been configured, the reports for **vfy** and **dc**, change to include information about the multiple hosts. Otherwise, there is no change in appearance to traditional users.
- ❑ In the **dlog** report, if the value following the "Address" shows a number 1-20, it refers the host number; otherwise it is the local port number of a connection to a host.

3.3.3 OTHER CHANGES

- ❑ A keep-alive (telnet NOP) is sent on every active session every 150 seconds when idle.
- ❑ Within an instance, sessions are connected in round-robin order. If an attempted connection to a host fails, the next host is tried. The failed host is withdrawn from the pool and goes into a recovery mode. A **vfy** report will show a reduced number of "available" sessions and will show the previous error message for each failed host. The listen queue



is adjusted or closed to match the number of "available" sessions. That way, it is less likely a user will get rejected. For hosts in recovery mode, 70 seconds after a failed connect, a new connect is tried (with no client). When such a "connect" succeeds, that call is dropped, the host is put back into the pool of hosts available to take calls, and the listen queue is adjusted or reopened.

3.4 BUILD 11

3.4.1 COMMAND CHANGES

- None

3.4.2 COMMAND OUTPUT CHANGES

- None

3.4.3 OTHER CHANGES

- Empty messages from hosts are dropped. An empty message is an IAC+EOR sequence with no other data since the previous IAC+EOR. A per-session measurement of dropped messages is added (reported only if non-zero).
- A bug is fixed that caused the TN3270 Server Application to hang in certain environments and is not reproducible elsewhere.
- A bug is fixed that caused repeated false session timeouts in some cases.

3.5 BUILD 12

3.5.1 NEW AND CHANGED COMMANDS

- None

3.5.2 COMMAND OUTPUT CHANGES

- None

3.5.3 OTHER CHANGES

- There were no changes for build 12. However, the TN3270 application was rebuilt using the new format that allows this application to be run on a DT-6061 running platform software build 14 and higher.

3.6 BUILD 13.0

3.6.1 NEW AND CHANGED COMMANDS

- The label can now be up to 31 characters:

Syntax: label [<word> (no spaces) | none | "<string - spaces allowed"]

The label can have embedded blanks if enclosed in double quotes. Labels are case sensitive. The prompt contains both the user provided label along with the product type.

- Passwords are now case sensitive.



3.6.2 COMMAND OUTPUT CHANGES

- None

3.6.3 OTHER CHANGES

- This build and higher numbered builds can be used with the new DT-6160's and DT-6260's using any platform software build as well as with DT-6061's using platform software builds 16.0 and higher.

3.7 BUILD 13.1

3.7.1 NEW AND CHANGED COMMANDS

- None

3.7.2 COMMAND OUTPUT CHANGES

- None

3.7.3 OTHER CHANGES

- Changes were made to support WFA/SARTS.



4 INSTALLATION ADDENDUM

4.1 CONSTRAINTS

The DT-6061 platform software must be upgraded to platform build 16.0 before installing build 13.0 or higher of the TN3270 application. Please review the Release Notes for Build 16.0 of the DT-6061 Platform software or the Release Notes for Build 1.0 of the DT-6X60 Platform software for details. Or this build can be installed on a DT-6160 or DT-6260 using any version of their platform software builds.

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 tn3270.dt6**

Response: 41068 136 tn3270.dt6

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.

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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 *DT-6XXX TN-3270 Server Application User's Manual* is **Release.Version 13.1**. There were no documentation changes for 13.1. Both the release notes and the user's manual are available on the Datatek web site at URL:

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



6 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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