



READ ME FIRST !!

**PLATFORM SOFTWARE
FOR
DT- 6X60
EMBEDDED NETWORK PROCESSORS**

RELEASE NOTES

**BUILDS 1.0, 1.1, 2.0, AND 2.1
(RELEASE.VERSION 2.1)**

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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 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 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-6X60, 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:
 - The unit was tested with the Phi Hong Model PSA-30U-240 Wall Plug-In Unit. (110-240V AC to 24V 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 WEB SITE.

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

Two products are covered in these release notes: DT-6160 and DT-6260. Generically, these will be referred to as DT-6X60 in the descriptions below. Only when necessary, will an actual product name be used. These products have many similarities with DT-6061, but have different power options and capabilities. When systems are duplexed, the same product must be used for both the active and standby processors.

SPECIAL INSTALLATION AND UPGRADE PROCEDURES

1. **New "Build Numbers":** Build numbers, beginning with the first release, consist of two parts: a release number and version level. Technically, this software is called software version 2.1. The first field is the base release. The second field is the maintenance level of the software, the version. 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 and Application Compatibility:** Build 1.0 represents the first release of the platform software for the DT-6X60 that runs applications compatible with the older DT-6061 Embedded Network Processors. All new releases of applications for the DT-6061 series, starting January 1, 2004 and built to run on platform build 16.0 or higher, will run on DT-6X60 platform build 1.0 and later, but not on build 15 or earlier of the DT-6061. Application software that currently runs on DT-6061 build 15 will continue to work on DT-6061 build 16.X, but will not work on the new DT-6X60 hardware or on future platform releases for the DT-6061. See the table on the next page showing the compatibility of application software releases with current and future platform software releases.



Application Build Compatibility Table

Application Name	Builds Compatible With DT-6061 Platform Builds 14, 15, and 16.X	Builds Compatible With DT-6061 Platform Build 16.X or above And DT-6160/DT-6260 Platforms
B2APRT	7, 8	9.0 and above
IP-BHI	6	6.1 and above
IP-E2A	2 - 4	4.1 and above
IP-FANOUT	3	Not Available Yet
IP-LTCN	13	14.0 and above
IP-SLM	7, 8	9.1 and above
IP-SPOOL	9 - 11	12.0 and above
IP-VCON	8, 9	10.0 and above
MULTIMATE	1.1	1.1 and above
TN3270	12	13.0 and above
X25PAD	19, 21	23.1 and above
ONSITE	8	Not Available Yet

3. **Registration:** Similar to the DT-6061 platform software, the DT-6X60 platform software must be *registered* for each DT-6X60 on which it is installed. In addition, each application must be registered for each DT-6X60 on which it is installed. An application is registered only once per DT-6X60 regardless of the number of instances of that application running on a particular DT-6X60. **Note that the application(s) will not run after the new platform software is installed unless both the platform and application(s) 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.

It is imperative that the installation addendum section be reviewed and followed in order to minimize any impact on your installations.



4. **Changing the Platform IP address:** Use the new **local** command (beginning with build 2.1) to change all the IP parameters simultaneously. Without the **local** command, if you need to change the IP address (**ipaddr**) to another IP network, the gateway, or the submask, values must be changed in a specific order as follows:

1. Delete the gateway value by entering **gateway none**.
2. Change the IP address using the **ipaddr** command.
3. Change the value of the **submask** to reflect the new network.
4. Enter a new gateway address using the **gateway** command.

All three values must belong to the same subnetwork.



1 INTRODUCTION

These release notes highlight the product features, modifications, known caveats and any special considerations for the DT-6X60 products. For detailed information on these products, reference the DT-6X60 User's Manual.

2 PRODUCT FEATURES

The DT-6X60 (*Embedded Network Processor*) is a network applications computer that applies customer specific protocol operations (*protocol translation and termination*) of network connections that require such a function in a distributed network.

The DT-6X60 supports a multitude of applications, and can support combinations of most applications simultaneously. The elements common to all applications are provided by the DT-6X60 hardware and operating environment. In addition, the DT-6X60 has an SNMP agent that is completely independent of any application. A pair of DT-6X60's can be configured for active/standby operation where the standby DT-6X60 automatically takes over as active and continues operations seamlessly if the active DT-6X60 fails.

The table below provides the comparison between the three members of the DT-6xxx family.

Product	DT-6061	DT-6160	DT-6260
Feature	1-5 RTU's		
LAN Interface - XBase T	10M	10/100M	10/100M
Number of Instances	30	30	48
Application(s)	pick	pick	pick
SNMP Agent	yes	yes	yes
-48V (36-72V) DC Input	yes	yes	yes
24V (18-72V) DC Input	no	yes	yes
AC to +5V DC Input	yes	no	no
AC to +24V DC Input	no	yes	yes
Power over Ethernet	no	yes	yes
+5 V DC Output	limited	yes	yes
Telnet Console for Apps	yes	yes	yes
Secure Shell (SSH2)	no	planned	planned
Closed User Groups	See App	See App	See App
Alarm Grid Connector	yes	yes	yes
Temperature Alarms	yes	yes	yes
Embedded DT-9001 to SNMP Trap	OnSite App	OnSite App	OnSite App
Applications are: IP-BHI, IP-E2A, IP-SLM, X25PAD, TN3270, B2APRT, IP-SPOOL, IP-LTCN, IPVCON, IP- FANOUT, ONSITE, MULTIMATE, others			



A DT-6160 and DT-6260 differ only by the number of instances each supports: 30 for the DT-6160 and 48 for the DT-6260. Note that either type of DT-6X60 can be powered over an ethernet cable with no other power input connections. This is a new capability with the DT-6X60 products, which is not available in the DT-6061.

Also because the resources required by the X25PAD application has grown with the addition of several new features in the last few releases, the DT-6061 may not support all 30 instances due to the resources required as the result of several new features in the last few X25PAD builds and how the application is configured for your installation. However, the system resources available on the DT-6X60 series are much larger (and faster) than those on the DT-6061, so a DT-6160 can support 30 simultaneous instances and the DT-6260 48 instances of any application including X25PAD. (Note that a DT-6X60 still only supports one instance of MULTIMATE, IP-LTCN or IP-VCON application and that is the only application that can be installed in the DT-6X60 at a time due to the way these applications function.)

The functionality and command structure of the DT-6X60 products are similar to that of the DT-6061. DT-6X60 platform software started with build 16.1 of the DT-6061 as its base and it is upon that build the enhanced software capabilities of the DT-6X60 products have their origin (along with, of course, the new, faster, and higher capacity hardware).



3 RELEASE CHANGES

The functionality and command structure of the DT-6X60 products are similar to that of the DT-6061. It is suggested that one review the functionality and command changes in the release notes for the platform software for the DT-6061 builds 14, 15, 16, and 16.1 if you have current DT-6061's running on platform build 13.1 or earlier and are unfamiliar with the changes. DT-6X60 platform software started with build 16.1 of the DT-6061 as its base and it is upon that build the enhanced software capabilities of the DT-6X60 products have their origin (along with, of course, the new, faster, and higher capacity hardware).

3.1 NEW FOR BUILD 2.1

3.1.1 NEW AND CHANGED COMMANDS

- A new command called **local** offers a more convenient way to configure or reconfigure the platform IP parameters.

```
Syntax: local [ simplex ] ipaddr=<IP address>
submask=<Subnet mask> gateway=<Gateway IP address>
[ duplex ] ippublic=<shared IP address>
ipother=<IP address of other DT-6X60>
```

Parameters not given on the command line are prompted. Using the **local** command is more convenient than individually using the **ipaddr**, **submask**, **gateway**, **ippublic**, and **ipother** commands.

The **simplex** option may be used when converting the unit from redundant to simplex. It causes the values of the **ippublic** and **ipother** parameters to be changed to none. The **duplex** option may be used when converting the unit from simplex to redundant. It causes the administrator to be prompted for the **ippublic** and **ipother** values.

3.1.2 OTHER CHANGES

- This release supports the two new features of the **DT6backup**, **DT6retrieve**, and **DT6upgrade** utilities which are the ability to bypass using FTP and the ability to do upgrades initiated by the support server.
- This release supports (future) apps that use a very large number of TCP connections.
- Flow control of the serial port console does not block use of the telnet console. Excessively long flow control on the serial port will drop serial port output .

3.2 NEW FOR BUILD 2.0

3.2.1 NEW AND CHANGED COMMANDS

- A new command called **console** configures the list of closed user groups (CUGs) that defines which IP addresses are allowed to connect to the new platform telnet console (See **Other Changes** section below.). The closed user groups must first be configured using the **CUG** command; then they may be added to the **console** CUG list.

```
Syntax: console cug=[+|-]<cuglist> | cug=none
```

- A new command **vfy console** was added to show the list of CUGs assigned to the new telnet platform console.



- ❑ A new argument has been added to the **diag** command per user request:

Syntax: diag killcon <instance> | platform

The **diag killcon** command provides a means to free up the telnet port of an instance or the platform in case someone left it connected and someone else needs to use it. The telnet connection is broken without terminating the instance or rebooting the platform. Since TCP does not provide an approved means for a third party to break the connection, *this command should not be routinely used*. It does not, for example, shut down or notify the far-end telnet client. Only when the client tries to send new input will it find out the connection is broken. Datatek recommends use of the *timeout* configuration for the platform console and most application consoles. *Timeout* configures a maximum idle time at which the console will automatically be logged out.

- ❑ The command named **reload** has been added which is a synonym for the present **retrieve** command. This command was introduced for increased similarity in the command set across the DT product line.

3.2.2 COMMAND OUTPUT CHANGES

- ❑ The CUG command error handling and error messages were improved.
- ❑ Small changes were made in message punctuation.
- ❑ A problem was fixed concerning deleted CUGs.

3.2.3 OTHER CHANGES

- ❑ The platform administrator can now telnet to 1023 on the DT-6XXX platform for access to the serial console functions. Some assignments such as the IP address, gateway address and submask must still be performed via the console connected to the serial port but the rest of the platform commands can then be executed via the new telnet platform console or the current platform serial console. The two sources of console input are merged and treated as a single console input, and all console output is directed to both telnet and the serial port (except for post-shutdown and early booting messages, which appear only on the serial port).

3.3 NEW FOR BUILD 1.1

3.3.1 NEW AND CHANGED COMMANDS

- ❑ A new parameter has been added to the **stby cfg** command:

Syntax: stby cfg delay=<0-20>

In a duplex DT-6X60 configuration, this parameter adds extra delay in the detection and switchover processes of approximately 6 seconds for each increment of **delay**. The default is **delay=0**. **Delay=none** or **delay=0** uses the same parameters as previous implementations.

Setting this parameter is only recommended for network connections where an Ethernet switch between the active and standby introduces a long delay before active and standby can communicate with one another. To date, these switches include certain models of Cisco Ethernet switches. The customer must set up the configuration and test it before beginning live production as the delay required varies depending on the model of switch used. It is impossible for Datatek or Tollgrade to try all models that a customer may chose to use. Switchover problems have not been experienced to date when Ethernet switches from other manufacturers are used or when plain hubs are used.



- A new command called **phy** has been implemented:

Syntax: phy [auto | 10hdx | 100hdx]

The default is **auto**. The last two options force the physical layer to 10 or 100 half-duplex, while 'auto' allows auto-configuration. The 'phy' configuration is independent for the two machines in a redundant configuration. This command is used in conjunction with the **delay** parameter above when necessary, but the recommendation is to not set the value for **phy**, which means it will default to auto.

3.3.2 COMMAND OUTPUT CHANGES

- **Vfy stby** was changed to show the **delay** value.
- **Vfy mod** was changed to show the value of the **phy**.

3.3.3 OTHER CHANGES

- None

3.4 NEW FOR BUILD 1.0

3.4.1 NEW AND CHANGED COMMANDS

- Two new options have been added to the **stby** command: **dlog** and **reset**.

Syntax: stby dlog

Syntax: stby reset

Two new logs are available on the **active** system which pertain to the **standby** system:

- An alarm log showing the major alarms on the standby system
- A standby activity log

The first log is viewed by entering any of the commands: **vfy stby**, **stby**, or **stby vfy**.

The second log is viewed by entering the command **stby dlog**.

Both logs are cleaned out and restarted by entering the command **stby reset**.

All of the above commands are executed on the **active** system.

- Two new options have been added to the **ping** command:

Syntax: ping -c <count>

Syntax: ping +c

The **-c <count>** option specifies the number of times the **ping** command is executed. It overrides the default of 3.

The **+c** option with no number means that the **ping** command executes indefinitely until the console user enters a **del** (delete) character in order to kill it.

3.4.2 COMMAND OUTPUT CHANGES

- The **vfy app** command when run on the serial console of the DT-6X60 now outputs the build number and date for each application properly installed. The DT-6X60 can be either the **active** or **standby** machine in a duplex configuration. Depending on the application involved, it also may show the state or status of an application for that particular instance. The output of the command has been corrected in this release to show the correct status when the module is not registered.
- The **vfy mod** command now shows the product type (DT-6160 or DT-6260) along with the registration status.



3.4.3 OTHER CHANGES

- ❑ The **standby** reports *major* alarms when either the module and/or the applications are not registered.
- ❑ An alarm log is available on the **active** system for major alarms generated on the **standby**. The log is viewed via the **vfy stby** command.
- ❑ The SNMP object ID for the product code is the following for each of the DT-6XXX products:
 1. DT-6061 - **1.3.6.1.4.1.3791.3.7**
 2. DT-6160 - **1.3.6.1.4.1.3791.3.13**
 3. DT-6260 - **1.3.6.1.4.1.3791.3.14**
- ❑ The DT-6X60 will reject an attempt to install the DT-6061 platform software.
- ❑ In a duplex configuration, a DT-6X60 will reject any attempt to use a DT-6061 as the other partner. The product types must be the same in a duplex configuration.
- ❑ In a duplex configuration, if an inconsistency is detected between the active and standby (for example, the active is a DT-6061 and the standby is a DT-6160), the standby will wait four and a half minutes, disable the standby console, and reboot 30 seconds later. After rebooting, if the inconsistency is still detected, it repeats the cycle. This prevents the active and standby from synchronizing, thus disabling the ability to switchover from one to the other. The four and one half minute interval allows the console operator time to investigate what the problem is and take corrective action.



4 INSTALLATION ADDENDUM

4.1 OBTAINING INFORMATION FROM DATATEK

Load modules for all the Datatek migration products are available only 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 web site and downloaded for your use.

To insure that the correct version of the binary load module file have been retrieved and has not been corrupted during the transmission process, the UNIX[®] "sum" command can be used. After unzipping (if necessary) and transmitting the file to the target UNIX host server from the PC to which the load module was 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 basekupd.dt6**

Response: **48914 866 basekupd.dt6**

Key-in: **sum base1upd.dt6**

Response: **5146 1794 base1upd.dt6**

Key-in: **sum base2upd.dt6**

Response: **26679 1860 base2upd.dt6**

For new hardware purchases, the platform software and application load modules and keys (see below) were already preinstalled at the factory. The customer only has to configure the module and applications per local needs.

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4.2 PROCEDURES FOR UPGRADING TO BUILD 2.X OF THE PLATFORM SOFTWARE

4.2.1 CONVERSION OF DT-6X60 PLATFORM SOFTWARE TO BUILD 2.1 FROM BUILD 2.0 OR 1.X

1. Obtain the platform update software for build 2.x from Datatek and transmit it to your UNIX FTP host after unzipping. The platform should already be running application(s) that are compatible with the DT-6X60 platform builds, so there is no need to obtain new copies of the application(s). See the **DT-6X60 User's Manual** for the syntax of all commands.

From the DT-6X60 serial port console:

2. Backup the configurations on your DT-6X60 to your host using the **back** command for safety.
3. Install the software module *basekupd* only using the **install** command and **reboot**.
4. Install the two software modules *base1upd* and *base2upd* in that order using the **install** command.
5. **Reboot**.
6. Obtain a new key from Datatek and re-register the platform software using the **register** command (see section 4.3 below for details on the registration process). The application key(s) remain(s) the same. However, there is no need to re-enter the key(s) for the application(s).
7. Verify each application is operating the same as it was before the conversion.

Note that for the IP-LTCN application, additional conversion steps are required with respect to DT-4000's and DT-4180's. See the IP-LTCN Build 13 or higher Release Notes for additional detail.

4.2.2 CONVERSION OF DT-6X60 PLATFORM SOFTWARE TO BUILD 2.1 FROM BUILD 2.0 OR 1.X FOR A REDUNDANT (DUPLEX) SYSTEM

1. Obtain the platform update software from Datatek and transmit it to your UNIX FTP host after unzipping. The platform should already be running application(s) that are compatible with build 2 platform builds, so there is no need to obtain new copies of the application(s). See the **DT-6X60 User's Manual** for the syntax of all commands.
2. Using the console for the active DT-6X60, set **scan=999** and **age=2** using the **stby cfg** command. If **scan** and **age** have not been previously set, skip this step.
3. Using the console for the active DT-6X60, backup the configurations to your host for the applications on this DT-6X60 using the **back** command.
4. If the standby configuration is not up to date with the active, use the console for the standby DT-6X60 to either **retrieve** the configuration from the backup obtained in the previous step, or update the configuration directly from the active by executing the command **stbyupd cfg**.
5. Using the console for the standby DT-6X60, install the software module *basekupd* only using the **install** command and **reboot**.
6. Install the two software modules *base1upd* and *base2upd* in that order using the **install** command.
7. **Reboot** the standby. At this point if automatic scanning was enabled previously, it is now suppressed because the active is running older software.



8. Obtain a new key from Datatek and re-register the standby platform software using the **register** command (see section 4.3 below for details on the registration process). The application key(s) remain(s) the same; there is no need to re-enter the key(s) for the application(s)
9. Using the console for the active DT-6X60, switchover from active to standby using the **switchover** command.
10. Verify the previous *standby* machine is now the *active* machine, and verify all the applications are operating as they did on the old active machine.
11. Repeat steps 5 through 8 above for the *new standby* machine.

After both units have been upgraded, if **scan** and **age** were previously set, using the active console, reset their values to their previous ones. Note that the *active* machine will propagate these settings to the *standby*, so there is no need to reconfigure the *standby*.

4.3 REGISTRATION

The DT-6X60 platform software requires a key for activation. In addition, any application running on platform software build 1.0 and above requires a key for activation.

After installing new platform software and rebooting, before the DT-6X60 may return to service, the software must be registered, that is, the key installed for this version of software. The application(s) resident on this DT-6X60 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 key is needed for the DT-6X60 platform and one key for each different application resident on this DT-6X60, regardless of the number of instances of that application on this particular DT-6X60. Use the **register** command to register the DT-6X60 platform (module) and **regapp** command to register a resident application. 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. If the key has been previously installed for an application and only new platform installed, then only the platform software has to be re-registered. Similarly, if only new application software is installed, then only the application software must be re-registered.

To obtain a key for new platform software, 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.

```
<tuna: DT-6160> register ↵
Product_Code=DT-6160
MAC=0.96.29.2.55.219
HW_SERNUM=0.0.6.240.61.162
Build_Number=1.0
Build_Date="Wed Apr 7 17:19:07 EST 2004"
Enter key: ↵
No key entered
<tuna: DT-6160>
```

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



```

<tuna: DT-6160> vfy mod
  Module is: DT-6160, Registered
  hostname: tuna
  ippublic: 192.168.8.250
    status: Active
  ipother: 192.168.8.13
    label: tuna
  ipaddr: 192.168.8.20
  submask: 255.255.255.0
  gateway: 192.168.8.1
  mac addr: 0.96.29.2.55.219
  serial #: 0.0.6.239.61.162
  build #: 1.0
  rtu #: 5
  built on: Wed Apr 7 17:19:07 EST 2004
  booted: 3.08 days ago
<tuna: DT-6160>

```

Similarly, to obtain a key for registering the application(s), run the **regapp** command:

```

tuna: DT-6160> regapp ↵
Unregistered applications:
  ip_bhi: Build 6.0 "Fri Oct 25 08:44:47 EDT 2002"
  MAC Address = 0.96.29.2.55.219
  Serial Number = 0.0.6.240.61.162
application registration key ? KEY= ↵
Usage: regapp [ <key> ]
<tuna: DT-6160>

```

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

```

<tuna: DT-6160> 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 12.0 "Fri Oct 18 13:32:56 EDT 2002"
  x25pad: Build 22.0 "Thu Jan 15 11:19:30 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)
<tuna: DT-6160>

```

If the DT-6X60 platform software is not registered, **vfy app** will show the application status as *dfs (ready-for-service)*.

The hardware information needed for the key generation process, which is the *MAC* address and *hardware serial number* of the DT-6X60, can be obtained by running either the **rstpass**¹ 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.

¹ Note that the **rstpass** command supplies one other piece of information called "access" that is used only to generate a one-time key for resetting a forgotten password to the default value.



4.4 CONSTRAINT

The value for **submask**, **ipaddr**, and **gateway** must all belong to the same subnetwork. If the subnetwork must be changed, set the **gateway** value to **none** first; then set **ipaddr**, the **submask**, and **gateway** to their new values in that order. Then **reboot**.

5 DOCUMENTATION

The current version of the DT-6X60 user manual is **Release.Version 2.1**. It is available for download from the Datatek web site www.datatekcorp.com at URL:

<http://www.datatekcorp.com/index.php/support/release-notes>



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