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PLATFORM SOFTWARE

FOR

DT- 6061

EMBEDDED NETWORK PROCESSOR

RELEASE NOTES

BUILDS 14, 15, 16.0, 16.1, 17.0, 17.1

RELEASE.VERSION 17.1

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



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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-6061, 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 equipped with an AC Wall Plug-In Unit, read and understand the following:
 - The unit was tested with the K'TRON, Model KA-52A Wall Plug-In Unit.
 - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
 - Do not staple or otherwise attach the power supply cord to the building surfaces.
 - Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
 - The socket outlet shall be installed near the equipment and shall be readily accessible.
 - The Wall Plug-In unit may be equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug is intended to fit only into a grounding type power outlet. Do not defeat the safety purpose of the grounding type plug.
 - Do not allow anything to rest on the power cord. Do not locate this product where 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

1. **Power Option:** The reseller of this product has tried to insure that the power option you need for your configuration, either AC to 5V DC or 48V DC, has been set at the factory. However, after attaching power to the product, if the power light does not illuminate, verify the power option selected is correct. Refer to the latest Datatek DT-6061 User's Manual for instructions on changing this factory setting.

SPECIAL INSTALLATION AND UPGRADE PROCEDURES

2. **New "Build Numbers":** Build numbers, beginning with release 16.0, consist of two parts: a release number and version level. Technically, this software is called software version 17.1. 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).
3. **Platform and Application Compatibility:** Build 16.X represents the first release of the platform software for the DT-6061 that runs applications compatible with the DT-6160 and DT-6260 Embedded Network Processors. All new releases of applications for the DT-6x60 series, starting January 1, 2004, will run on DT-6061 platform build 16.0 and later, but not on build 15 or earlier. Application software that currently runs on DT-6061 build 15 will continue to work on 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
TN3270	12	13.0 and above
X25PAD	19, 21	23.1 and above
ONSITE	8	Not Available Yet

4. **Upgrade sequence:** It is strongly recommended to review the following considerations in forming a software upgrade strategy, unless it is acceptable to upgrade both platform and application software simultaneously.
- If the build level of the application currently running in your DT-6061 is less than that shown in the center column of the above table, the application should be upgraded first to the most recent build shown in the center column of the table before upgrading to platform build 16.
 - Before upgrading any application to a version that is released after January 1, 2004, the platform should be upgraded to build 16 first, then to the current version.
5. **Registration:** Starting with DT-6061 platform release 16.0, the platform software must be *registered* for each DT-6061 on which it is installed. In addition, each application must be registered for each DT-6061 on which it is installed. An application is registered only once per DT-6061 regardless of the number of instances of that application running on a particular DT-6061. **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 4.4 for details.



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

6. **Changing the Platform IP address:** Use the new **local** command (beginning with build 17.1) 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-6061 product. For detailed information on this product, reference the DT-6061 User's Manual.

2 PRODUCT FEATURES

The DT-6061 (*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-6061 supports a multitude of applications, and may support combinations of these applications simultaneously. The elements common to all applications are provided by the DT-6061 hardware and operating environment. In addition, the DT-6061 has an SNMP agent that is completely independent of any application. A pair of DT-6061's can be configured for active/standby operation where the standby DT-6061 automatically takes over as active and continues operations seamlessly if the active DT-6061 fails.

3 RELEASE CHANGES

3.1 NEW FOR BUILD 14

3.1.1 NEW AND CHANGED COMMANDS

- A new option has been added to the display measurements (**dm**) command: **con**

Syntax: dm con

This option reports the current number of TCP connections across all instances in the DT-6061.

- The **dc app** command now accepts a list of instance numbers separated from each other by a blank:

Syntax: dc app [instance num] [instance num] ...

When instance numbers are present, the IP addresses associated with only those instances are displayed.

The retrieve (**retr**) and **restart** also accept multiple instance numbers separated by blanks.

- New commands **snmp** and **vfy snmp** have been added with this build which allow enhanced security:

**Syntax: snmp [GET=<communities>] [SET=<communities>]
[TRAP=<community> DEST=<trapmgr IP address>]**

Where dest is the IP address of the SNMP trap manager in decimal (d.d.d.d) format and community or communities are the names of the community strings. Commas separate the names.

The **SNMP** command configures the DT-6061 to respond to the user-specified communities for **GETs** and **SETs**. The communities configured for **SET** also work for **GET**, so they need not be repeated in the **GET** parameter. Other community names are ignored. Each community name can be a maximum of 64 characters long. Special characters including tabs and embedded blanks are not allowed. All the community names together must be less than 256 characters.



The **vfy snmp** command displays the current settings of SNMP configuration.

Syntax: vfy snmp

- ❑ Additional help information is output for the **timezone** command using the new **help** parameter:

Syntax: timezone help

- ❑ For the **app** and **vfycfg** commands, the parameter name **cnt=** can be used instead of **num=**. Either will work but **cnt=** is the preferred parameter that is now in widespread use in commands for other Datatek products.
- ❑ For the **chgpas** command, the parameter names **old=** and **new=** can be used instead of **passwd=** and **newpass=** respectively. Both forms will still work. However, the **old=** and **new=** are the preferred parameters that are now in widespread use in commands for other Datatek products.

3.1.2 COMMAND OUTPUT CHANGES

- ❑ The **install** command reports the result of the UNIX[®] **sum** command when a file is downloaded into the DT-6061. This can be compared with the sum published in the release notes or shown on the Datatek website. The **install** command also checks if the format of the load module for the downloaded application conforms to the new structure required by this build of the DT-6061. If it does not, the application is not allowed to execute. Customers should obtain the latest version of the application to insure compatibility. See the installation section below for more detail.
- ❑ The **vfy app** command when run on the serial console of the DT-6061 now outputs the build number and date for each application properly installed. The DT-6061 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 **vfy mod** command now shows whether the DT-6061 is the active or standby host in a duplex configuration in addition to all the other items it outputs. Active/Standby status is not shown if a DT-6061 is not part of a duplex configuration.
- ❑ The **diag addr** command now shows both the local IP address and the remote IP address of a connection.

3.1.3 OTHER CHANGES

- ❑ Traps for “warmstart” and “authorization failures” are sent to the trap manager address specified in the **snmp** command.
- ❑ In a redundant (duplex) configuration of DT-6061's, if the internal redundancy manager receives messages from the wrong IP address, it prints a diagnostic message in order to aid the diagnosis of configuration errors. If this is the *standby*, it reboots itself. If this is the *active*, it ignores the messages and continues normal processing.
- ❑ If a process was started over 248 days ago and then stopped, it couldn't be restarted again. This occurred with **remove** and **restore** of an instance. The problem has been fixed.
- ❑ The **vfy mod** command now shows the time since boot accurately.
- ❑ Leading zeros will no longer be accepted in numbers used in command input.

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3.2 NEW FOR BUILD 15

3.2.1 OTHER CHANGES

- ❑ The number of some critical system resources was increased in order to accommodate heavier loads of starting multiple instances of some applications after a reboot.
- ❑ This build addresses security problems for input entered at the DT-6061 console. Password characters were getting lost or changed when certain special characters were used. Thus passwords may not be as unique as the user intended. Certain special character sequences could cause the system to be damaged or to crash.

Platform console input handling now has the following character restrictions:

Command line characters allowed:

space and tab

0-9

A-Z

a-z

! # % + , - . / : = _

Answer to any password prompt:

0-9

A-Z

a-z

! # \$ % & ' * + , - . / : ; < > ? ^ _ { | } ~

Answer to other prompts:

0-9

A-Z

a-z

! # % + , - . / : = _

For most parameters a single-character value of '!' is not allowed.

A command of just '!' is converted to **help**.

3.3 NEW FOR BUILD 16.0

3.3.1 NEW AND CHANGED COMMANDS

- For users who want the console to be automatically logged off after a period of inactivity, there is a console timer. The console timer defaults to the disabled condition, and may be activated by the **timeout** command.

Syntax: timeout [<number of seconds> | off]

The **<number of seconds>** value must be between 30 and 1000, inclusive. To check what the present value is, key-in **timeout** without any arguments.

When the DT-6061 determines that the period of inactivity of the specified time has elapsed, it automatically forces the console to log off. An **INFO**-level alarm is issued at that time.

If the DT-6061 is part of a duplex, and the **active** has a timeout value set, upon **switchover**, the new **active** uses the value set for the original **active** and the **standby** uses the value when it was **active**. However, if the **active** has the **timeout** set to **off**, or it is undefined, the **standby** will still have a timeout period. It will be 300 seconds or less, depending on the value of the **standby SCAN** parameter.

- A banner can be configured.

Syntax: banner [edit]

Using the **banner** command, a banner that consists of up to 9 lines can be entered. The banner is displayed when the **login** command is executed. When the administrator performs the login by specifying the password on the same line as the word login, the banner is displayed after the login. If the **login** command is used in prompted mode, the banner appears before the password prompt.

When the **banner** command is executed with no parameters, the entire banner is displayed, and then the DT-6061 administrator may re-enter an entirely new banner line-by-line or use the 'DEL' key to exit without altering the existing banner. The entire banner can also be displayed by typing **vfy banner**.

To change one or more lines of text in the banner, the administrator types **banner edit**. The entire banner is then displayed with line numbers. The user is prompted for which line to change. When the user enters a line number, the system displays the corresponding banner line and prompts for a replacement line. The user must then type in the entire text for that line followed by a newline (enter). The user is again prompted for a line number. When finished, the user types a new-line in response to the line number prompt.

Any characters may be entered for the banner. The @, \, and *backspace* characters be entered only by preceding them with \.

- Two new commands have been added to allow future versions of applications to use domain-style names: **hosts** and **dns**.

Syntax: hosts add|del IP=d.d.d.d name=<name> ... name=<name>

The **hosts** command is used to configure the **hosts** translation table.

The DT-6061 can maintain a set of domain-style mnemonic names for applications to use for originating calls to the IP network, analogous to the /etc/hosts file on both UNIX and Microsoft Windows platforms. This allows the DT-6061 to perform for a resident application a translation between a user-provided domain-style name and its associated IP address during call setup without using a DNS server. The use of a mnemonic name is optional;



application can continue to use an IP address in its base form. If the name is not present in the **hosts** table, then the resolution of the name to an IP address is attempted via the DNS servers specified in the **dns** command below.

The **name** parameter value is a mnemonic of 24 characters or less in length, using upper and lower case letters, digits, and the '-' (hyphen) and '.' (period) characters. Upper and lower letters are treated the same. That is, the name value is case insensitive. More than one name can have the same resultant IP address. When using the **del** option, the reserved value **all** can be used as the name value to delete all names associated with a particular IP address. If all names are deleted for an IP address, then the IP address is removed from the table as well.

Syntax: dns [name<n>=<name>] [ipaddr<n>=d.d.d.d] (n=1,2,3)

The **name1**, **name2**, and **name3** parameters are domain names. These domain names are appended to a domain-style name that is not fully specified for DNS purposes. For example, a name "bender.ho.lucent.com" is fully specified, so nothing needs to be appended. A name such as "bender" would need to have a domain appended before the DNS server could resolve it. The DT-6061 or a resident application will append the specified domain names in the order of **name1** through **name3**, and send the resulting strings to the DNS server in succession until the latter is able to perform a resolution. The name can consist of upper and lower case letters, digits, and the '.' (period) character. The names are case insensitive and can be any length.

Each **ipaddr<n>** field is the IP address of a Domain Name Server to be used to resolve domain-style addresses not defined in the **hosts** table. The DNS IP addresses are used in the order specified. If only one address is to be defined, it should be **ipaddr1**.

Each time the **dns** command is run, the user is prompted for all values except for those specified on the command line. The user is prompted in the following order: **name1**, **name2**, **name3**, **ipaddr1**, **ipaddr2**, **ipaddr3**. In order to delete a value, reply to a prompt with the word "**none**" or on the command line, type the parameter name with no value following; for example,

dns ipaddr1= or dns name2=

- ❑ Closed User Groups (CUGs) are now configurable for use in the **snmp** command.

Syntax: cug <cugnum>[ipaddr=<d.d.d.d>][submask=<IP submask>]

The **<cugnum>** parameter is the closed user group identifier used to assign the CUG to the SNMP interface (with the **SNMP** command below). The CUG may be a value between 1 and 32, inclusive.

Each CUG is specified by a single IP address and subnet mask pair. The **ipaddr** parameter is an IP address or the base address of an IP subnetwork that identifies members of the group. The caller's IP address *AND'ed* with the **submask** must agree with a CUG's **ipaddr** value *AND'ed* with the same **submask** value for the caller to belong to the CUG. Depending on the **submask** value, this allows an individual (submask=255.255.255.255), intermediate, or network-wide level of authorization.

Setting the **ipaddr** value to 0.0.0.0 deletes any prior configuration for the **<cugnum>**. A **<cugnum>** may not be deleted if it is currently assigned to the **snmp** entity.

- ❑ There are several changes for the **snmp** command. The new syntax is:

**Syntax: snmp get=<communities> set=<communities>
trap=<community> dest=<IP address>**



```
cug=[+|-]<cuglist>
```

```
(prompted: sysName=<esc> sysLoc=<esc> sysContact=<esc>)
```

The **snmp** command configures or verifies the parameters needed to permit the SNMP agent to communicate with a manager using closed user groups and user-specified communities for **gets** and **sets**. The DT-6061 will not respond to other community names. The **<communities>** parameter accepts a comma-separated list of community names. The communities configured for **set** also work for **get**, so they need not be repeated in the **get** parameter. The closed user group option (**cug**) defines which IP addresses are allowed to do **gets** and **sets**. Values are saved in non-volatile memory. There is only one **trap=<community>**. The **dest=<IP address>** parameter configures the IP address of the target trap manager. The **snmp vfy** command (same as **vfy snmp**) displays the current settings of SNMP configuration.

The **snmp** command prompts for all parameters not specified on the command line. Simply type **snmp** in order to add or change any parameters in prompted mode. If the present value that is printed is to be retained, hit newline in response to the prompt. In order to add to an existing list for the **set** and **get** communities, type in the old values as well as the additions for that parameter when prompted. To delete all values for a keyword, type the word "**none**" as the value.

Special characters and escape sequences are accepted for community strings, **sysName**, **sysLoc**, and **sysContact** parameters, but must be entered at the prompt for that parameter, not on the command line.

When the SNMP configuration is changed, the agent is restarted. Whenever the DT-6061 reboots or the agent is restarted, a warm-start trap is sent to the configured trap manager. The only other trap sent by the DT-6061 platform agent is "authentication fail" when a manager attempts to use a community name not on the list. This trap is only sent if a manager has enabled it to be sent.

The **snmp sysName**, **sysLoc**, and **sysContact** are now changeable via the DT-6061 platform console as well as via an SNMP manager.

The enterprise object ID of the DT-6061 platform is **1.3.6.1.4.1.3791.3.7**

- The **traceroute** command can also be called by using the name **trte**.

```
Syntax: trte | traceroute [-n] <IP address>
```

- The **backup** and **retrieve** commands now prompt for a filename (**file** parameter), hence allowing the user to choose a filename in the backup directory.

```
Syntax: back | backup srv=<host> id=<host login>
```

```
pass=<host password> loc=<directory on host>
```

```
file=<filename in host dir>
```

```
Syntax: retr | retrieve all | <instance> ... srv=<host>
```

```
id=<host login> pass=<host password> loc=<directory on host>
```

```
file=<filename in host dir>
```

- After installing the new platform software build and rebooting, before the DT-6061 may return to service, the software must now be registered. The DT-6061 will continue in service on the old build platform software until **reboot** is executed which completes the installation. Also the application(s) resident on this DT-6061 platform build must be registered. Once the reboot is executed, the administrator is able to login and do



commands but none of the application(s) will run until both the platform and application registration processes are completed.

Two new commands have been added to implement the registration process. They are **register** and **regapp**. The **vfy mod** and **vfy app** commands have been enhanced. The **register** command is used to enable the DT-6061 platform software, and the **regapp** command to register the application(s). The **regapp** command also displays which installed applications are *not* registered. The **vfy mod** command is used to show if the platform software is registered, and the **vfy app** command to show which application(s) are and are *not* registered.

One key is needed for the DT-6061 platform and one key for each different application resident on this DT-6061, regardless of the number of instances of that application on this particular DT-6061.

Syntax: register [<key>]

Syntax: regapp [<key>]

Syntax: vfy app | mod

See sections 4.3 and 4.4 below for a detailed discussion of the platform upgrade and registration processes.

- ❑ The **rstpass** command has changed. The syntax has not changed. However, the key to allow the password to be reset is different than the key to register the platform software. When calling Datatek to obtain the key for **rstpass**, besides the *MAC address, DT-6061 hardware serial number, and the software version number (new two-part build number)*, a fourth number called the *access_code* is needed. Simply run **rstpass** after the new build is installed to obtain all four values. Call Datatek with the information while running the command. The access code changes with each invocation of the command. Hence the key is only valid one time. A sample output is shown below:

```
<DT-6061> rstpass ↵
MAC=0.96.29.2.56.69
HW_SERNUM=0.0.6.72.21.182
Access_Code=126.150.47.71
Build_Number=16.0
Build_Date="Mon Feb 2 14:21:02 EST 2004"
```

```
Enter key: 7g64zfgi ↵
```

3.3.2 COMMAND OUTPUT CHANGES

- ❑ The command **vfy banner** displays the current banner, if any.
- ❑ The **vfy hosts** and **vfy dns** commands respectively display the values in the *hosts* and *dns* tables.
- ❑ The **vfy snmp** or **snmp vfy** commands display the snmp settings.
- ❑ When installing new platform software and applications, a progress indicator is output.
- ❑ The **vfy mod** command now shows when an installation or configuration changes requires the DT-6061 to be rebooted.
- ❑ The **vfy app** command displays which applications are registered and which ones are not.



- ❑ For all of the commands in which a build number is displayed, the build number is now shown as a two-part number **<release>.<version>**. The **<release>** is the base, and what was formerly known as the build number. The **<version>** is the maintenance level on top of the base build. Examples are shown in section 4.4 below.

3.3.3 OTHER CHANGES

- ❑ Applications can now call a platform subroutine that will detect that a connection is idle. After it has been idle for 200 seconds, a keep-alive message will be issued on that connection at 12 seconds intervals. If there is no response to the any of 8 consecutive keep-alive messages, the connection will be closed. This will aid in cleanup of “half-connected “ TCP/IP calls.
- ❑ The IP addresses specified by **ipaddr**, **gateway**, **ipother**, and **ippublic** are checked to verify that they all belong to the same subnetwork according to the value specified by **submask**.

Important: If you need to change the IP address (**ipaddr**) to another IP network, the **gateway**, **submask**, **ippublic** (if defined) and **ipother** (if defined) values must be changed in a specific order as follows:

1. Delete the **gateway** value by entering **gateway none**.
 2. If running a duplex configuration, delete the values for **ipother** and **ippublic**: enter **ipother none** and **ippublic none**.
 3. Change the IP address using the **ipaddr** command.
 4. Change the value of the **submask** to reflect the new network.
 5. Enter a new gateway address using the **gateway** command.
 6. If a duplex, enter new values for **ipother** and **ippublic**.
- ❑ This platform build will accept the new application package format, called DT-6x6x, to be used for the new forthcoming products, DT-6160 and DT-6260 as well as the current format used for DT-6061 platform builds 14 and 15. See the Installation Addendum section below for more detail about upgrades and compatibility.
 - ❑ In a duplex DT-6061 configuration, when heavy load was being experienced momentarily, “out of buffers” messages were sometimes output by the polling process between the **active** and **standby**. The process retries four times now before outputting the message.
 - ❑ An error message has been eliminated that is output during the change from **standby** to **active** status in a duplex configuration,
 - ❑ In a duplex configuration, the **active** can now ping its own IP address.
 - ❑ The install procedure for installing new platform builds now reports incomplete installs and can check an update sequence in future builds.
 - ❑ Changes were made in the process startup scenarios to help reduce the spike in load that caused the temporary “out of memory” problems. Also memory defragmentation was improved to prevent “out of memory” problems when certain applications are installed.

3.4 NEW FOR BUILD 16.1

3.4.1 NEW AND CHANGED COMMANDS

- ❑ None



3.4.2 COMMAND OUTPUT CHANGES

- ❑ None

3.4.3 OTHER CHANGES

- ❑ A problem with the registration procedure was fixed. There are no changes to user input or procedures, and hence no changes to user documentation.

3.5 NEW FOR BUILD 17.0

3.5.1 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.
- ❑ A new parameter has been added to the **stby cfg** command:

Syntax: stby cfg delay=<0-20>

In a duplex DT-6061 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. Setting **delay** on the active will eventually propagate to standby, but now the 'stby cfg' command can be used on the standby (only for setting the **delay** parameter). After the **delay** parameter is changed, *the standby must be rebooted to put the change into effect*.

- ❑ The ping command now accepts some new flags:

Syntax: ping [-c <count>] [+c] <IP Address>



The **-c** option with a count overrides the default count of 3, and a **+c** with an unlimited count.

- 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:

1. An alarm log showing the major alarms on the standby system
2. 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.

- An alarm log is generated on the **active** system for major alarms caused on or by the **standby** system. It is displayed by using **vfy stby** command.

3.5.2 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.
- The output of the **vfy mod** command shows the device type along with the registration status.
- The output of the **vfy app** command is now correct when the platform is not yet registered.

3.5.3 OTHER CHANGES

- The platform administrator now can telnet to 1023 on the DT-6061 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 the telnet and the serial port (except for post-shutdown and early booting messages, which appear only on the serial port).
- The **standby** generates major alarms when the module or applications are not registered.
- The **standby** system will now wait 5 minutes before rebooting if inconsistencies are detected between the **active** and **standby** systems. The console of the **standby** is disabled 30 seconds before the reboot.

3.6 NEW FOR BUILD 17.1

3.6.1 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-6061>
```

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.

3.6.2 OTHER CHANGES

- ❑ This release supports the 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 applications that use a large number of telnet connections.
- ❑ Flow control of the serial port console does not block use of the telnet console.



4 INSTALLATION ADDENDUM

4.1 AC TO 5V DC OR -48V DC POWER OPTION

The DT-6061 is powered through either of two interfaces: -48V DC or -5V DC input. The interface used is determined by an option set at the factory that can be changed by the customer. Typically, the -5V DC interface is used when a customer uses a 115/240V AC to -5V DC power supply. The reseller of this product has tried to insure that the DT-6061 has been optioned at the factory for the power interface you need for your configuration. After attaching power to the DT-6061, and the power light does not illuminate, reconfigure the power input option. Refer to the latest Datatek DT-6061 User's Manual for instructions on changing this factory setting.

4.2 OBTAINING INFORMATION FROM DATATEK

Load modules for all the Datatek migration products are no longer available on the Datatek website. They must be obtained 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 still be accessed on the Datatek website and downloaded for your 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 basekupd.dt6**

Response: **54364 864 basekupd.dt6**

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

Response: **43814 1749 base1upd.dt6**

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

Response: **57803 1981 base2upd.dt6**



4.3 PROCEDURES FOR UPGRADING TO BUILD 17.X OF THE PLATFORM SOFTWARE

4.3.1 CONVERSION OF DT-6061 PLATFORM SOFTWARE TO BUILD 17.1 FROM BUILD 17.0 FOR A STAND-ALONE DT-6061

1. Obtain the platform update software for build 17.1 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 17 platform builds, so there is no need to obtain new copies of the application(s). See the **DT-6061 User's Manual** for the syntax of all commands.

From the DT-6061 serial port console:

2. Backup the configurations on your DT-6061 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 4.4 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).
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.

4.3.2 CONVERSION OF DT-6061 PLATFORM SOFTWARE TO BUILD 17.1 FROM BUILD 17.0 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 17 platform builds, so there is no need to obtain new copies of the application(s). See the **DT-6061 User's Manual** for the syntax of all commands.
2. Using the console for the active DT-6061, 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-6061, backup the configurations to your host for the applications on this DT-6061 using the **back** command.
4. If the standby configuration is not up to date with the active, use the console for the standby DT-6061 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-6061, 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 4.4 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-6061, 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.
12. 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*.

4.3.3 CONVERSION OF DT-6061 PLATFORM SOFTWARE TO BUILD 17.X FROM BUILD 16.Y FOR A STAND-ALONE DT-6061

1. Obtain the platform update software for build 17.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 build 17 platform builds, so there is no need to obtain new copies of the application(s). See the **DT-6061 User's Manual** for the syntax of all commands.

From the DT-6061 serial port console:

2. Backup the configurations on your DT-6061 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 4.4 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)
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.

4.3.4 CONVERSION OF DT-6061 PLATFORM SOFTWARE TO BUILD 17.X FROM BUILD 16.Y 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 17 platform builds, so there is no need to obtain new copies of the application(s). See the **DT-6061 User's Manual** for the syntax of all commands.

2. Using the console for the *active* DT-6061, 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-6061, backup the configurations to your host for the applications on this DT-6061 using the **back** command.
4. If the standby configuration is not up to date with the *active*, use the console for the *standby* DT-6061 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-6061, 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 4.4 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-6061, 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.
12. 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*.

4.3.5 CONVERSION OF DT-6061 PLATFORM SOFTWARE TO BUILD 17.X FROM BUILDS 13, OR 13.1 FOR A STAND-ALONE DT-6061

1. Obtain the platform update software from Datatek and transmit it to your UNIX FTP host after unzipping. Also obtain from Datatek the latest new build of each application used on your DT-6061 that is compatible with platform build 17. See the table at the beginning of this document for the correct build number. Note that some application builds can be installed on existing builds of the platform software (platform builds 13 through 15) and run before doing the conversion to platform software build 17.X. But the instructions below **MUST** be followed to install build 17.X. See the **DT-6061 User's Manual** for the syntax of all commands.

From the DT-6061 serial port console:

2. Backup the configurations on your DT-6061 to your host using the **back** command.
3. Change your password using the **chgpas** command so that it contains no special characters. *(Note that this is a new step in the upgrade procedure.)*



4. Uninstall each application using the **uninstall** command.
5. 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**.
8. Reinstall all the applications using new builds of the application software using the **install** command.
9. Retrieve the configurations from your host using the **retr all** command.
10. Change your password to include any of the following characters if desired:
 - 0-9
 - A-Z
 - a-z
 - ! # \$ % & ' * + , - . / : ; < > ? ^ _ { | } ~
11. Register the platform software and the software for each of the applications using the **register** and **regapp** commands respectively.
12. 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.

4.3.6 CONVERSION OF DT-6061 PLATFORM SOFTWARE TO BUILD 17.X FROM BUILDS 13 OR 13.1 FOR A REDUNDANT (DUPLEX) SYSTEM

1. Obtain the platform update software from Datatek and transmit it to your UNIX FTP host after unzipping. Also obtain from Datatek the new builds of each application used on your DT-6061 that is compatible with platform build 17. See the table at the beginning of this document for the correct build number. Note that some application builds can be installed on existing builds of the platform software (platform builds 13 through 15) and run before doing the conversion to platform software build 17.X. But the instructions below ***MUST*** be followed to install build 17.X. See the **DT-6061 User's Manual** for the syntax of all commands.
2. Using the console for the *standby* DT-6061, change your password using the **chgpas** command so that it contains no special characters. (*Note that this is a new step in the upgrade procedure.*)
3. Using the console for the *active* DT-6061, set **scan=999** and **age=2** using the **stby cfg** command. If **scan** and **age** have not been previously set, skip this step.
4. Using the console for the *active* DT-6061, backup the configurations to your host for the applications on this DT-6061 using the **back** command.
5. Using the console for the *standby* DT-6061, uninstall each application using the **uninstall** command.
6. Using the console for the *standby* DT-6061, install the software module *basekupd* only using the **install** command and **reboot**.



7. Install the two software modules *base1upd* and *base2upd* in that order using the **install** command.
8. **Reboot** the *standby*. At this point if automatic scanning was enabled previously, it is now suppressed because the *active* is running older software.
9. Using the console for the *standby* DT-6061, change your password to include any of the following characters if desired:
 - 0-9
 - A-Z
 - a-z
 - ! # \$ % & ' * + , - . / : ; < > ? ^ _ { | } ~
10. Using the console for the *standby* DT-6061, reinstall all the applications using new builds of the application software using the **install** command.
11. Using the console for the *standby* DT-6061, obtain the configurations from the *active* by executing the command **stbyupd cfg**. If you failed to install on the *standby* all the applications running on the *active* machine, the following error message will be issued: ***** WARNING: Application type "<app-name>" is not installed.** The *standby* will NOT attempt to copy the configuration for any missing applications from the active machine. If the warnings are received, start again at step 9 above, install the missing applications on the *standby*, then proceed to step 10, and redo it.
12. Register the platform software and the software for each of the applications using the **register** and **regapp** commands respectively.
13. Using the console for the *active* DT-6061, switchover from the active to the *standby* DT-6061 using the command **switchover**.
14. 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.
15. Repeat the steps 5 through 12 above for the *new standby* machine.
16. 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*.

4.3.7 CONVERSION OF DT-6061 PLATFORM SOFTWARE TO BUILD 17.X FROM BUILDS 14 AND 15 FOR A STAND-ALONE DT-6061

1. Obtain the platform update software from Datatek and transmit it to your UNIX FTP host after unzipping. See the **DT-6061 User's Manual** for the syntax of all commands.

From the DT-6061 serial port console:

2. Backup the configurations on your DT-6061 to your host using the **back** command as a safety measure. After the upgrade, it should NOT be necessary to retrieve the database from your host.
3. Remove all running instances of applications from service.
4. Install the software module *basekupd* only using the **install** command and **reboot**.



5. Install the two software modules *base1upd*, and *base2upd* in that order using the **install** command.
6. **Reboot.**
7. Register the platform software and the software for each of the applications using the **register** and **regapp** commands respectively.
8. Restore the desired instances to service.
9. Verify each application is operating the same as it was before the conversion.

4.3.8 CONVERSION OF DT-6061 PLATFORM SOFTWARE TO BUILD 17.X FROM BUILDS 14 OR 15 FOR A REDUNDANT (DUPLEX) SYSTEM

1. Obtain the platform update software from Datatek and transmit it to your UNIX FTP host after unzipping. See the **DT-6061 User's Manual** for the syntax of all commands.
2. Using the console for the *active* DT-6061, 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-6061, backup the configurations to your host for the applications on this DT-6061 using the **back** command.
4. Using the console for the *standby* DT-6061, install the software module *basekupd* only using the **install** command and **reboot**.
5. Install the two software modules *base1upd* and *base2upd* in that order using the **install** command.
6. **Reboot** the *standby*. At this point if automatic scanning was enabled previously, it is now suppressed because the *active* is running older software.
7. Register the platform software and the software for each of the applications using the **register** and **regapp** commands respectively.
8. Using the console for the *standby* DT-6061, obtain the configurations from the *active* by executing the command **stbyupd cfg**.
9. Using the console for the *active* DT-6061, 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 4 through 8 above for the *new standby* machine.
12. 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*.

4.3.9 CONVERSION OF DT-6061 PLATFORM SOFTWARE TO BUILD 17.X FROM BUILDS 10, 11 AND 12 FOR A STAND-ALONE OR REDUNDANT(DUPLEX) DT-6061

Contact Datatek for instructions.



4.4 REGISTRATION

Beginning with DT-6061 platform build 16.0, the platform software requires a key for activation. In addition, any application running on platform software build 16.X and above requires a key for activation.

After installing the new platform software build 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 key is needed for the DT-6061 platform and one key for each different application resident on this DT-6061, regardless of the number of instances of that application on this particular DT-6061. Use the **register** command to register the DT-6061 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.

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=0.96.29.2.55.219
HW_SERNUM=0.0.6.240.61.162
Build_Number=16.1
Build_Date="Wed Mar 3 17:19:07 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: arndt
ippublic: 192.168.8.250
status: Active
ipother: 192.168.8.13
label: rainbow
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 #: 16.1
rtu #: 10
```



```
built on: Wed Mar 3 17:19:07 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:
  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> ]
<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 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)
```

<rainbow: DT-6061>

If the DT-6061 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-6061, can be obtained before the new build 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.

4.4.1 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-6061 user manual is **Build 17.1**. The user manual is available now for download from the Datatek website www.datatekcorp.com at URL:

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



6 HARDWARE WARRANTY

The warranty period for the DT-6061 hardware shall be ninety (90) days from the date of shipment unless extended warranty coverage has been purchased at additional cost without lapse in coverage. Replacements and repairs are guaranteed for the longer of the remaining original warranty period or 30 days whichever is longer.

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