



READ ME FIRST !!

DT- 7000

**IP-CommKit™ Host
Network Interface**

Release Notes

Release.Version 1.0

Issue 2

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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-7000, 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 Phi Hong Model PSA-30U-240 Wall Plug-In Unit. (11-240VAC to 24VDC)
 - 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 AND SOFTWARE UPDATES ARE AVAILABLE AT OUR WEBSITE.

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

SPECIAL INSTALLATION AND UPGRADE PROCEDURES

1. **New "Build Numbers"**: Build numbers, beginning with this release, consist of two parts: a release number and version level. Technically, this software is called software version 1.0. 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. **Registration**: Similar to the DT-6061 platform software, the DT-7000 software must be *registered* for each DT-7000 on which it is installed. 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 4.2 for details.



1 INTRODUCTION

These release notes highlight the product features, modifications, known caveats and any special considerations for the DT-7000 product. For detailed information on this product, reference the DT-7000 User's Manual which can be downloaded from the Datatek website.

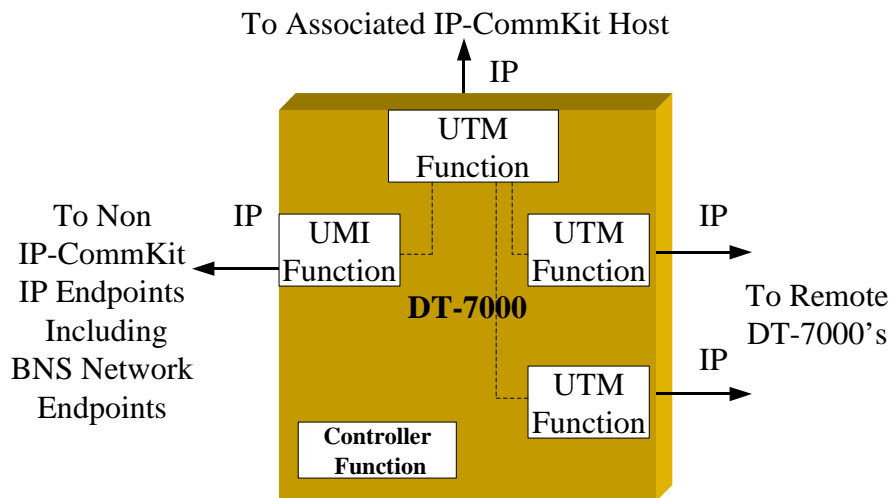
2 PRODUCT FEATURES

The DT-7000 is the last piece in the migration product evolution that is needed to allow the completion of the migration from a BNS network to a completely IP network. It performs this function transparently to the host and the endpoints.

Each DT-7000 replaces the following functionality of a BNS node: one CPM-HS or UTM, the node backplane, BNS controller, UMI module and the CommKit/IP-CommKit communication processing previously performed in the node. A typical host-generated data call is handled as follows: A call originated by the host application travels through the IP-CommKit software installed on the host, through the LAN module in the host to the IP network, and into the DT-7000. The call then is routed via the DT-7000 out through its UMI equivalent interface into the IP network. From there it can go to an IP entity or back into the BNS network via a UMI module. The call can also be routed by the DT-7000 out through one of 64 UTM equivalent interfaces to the IP network and then to other hosts that use IP-CommKit and are connected to their individual DT-7000's. Thus, only the IP network is needed. There is no longer any dependency on BNS networks.

Calls originating on a BNS node or in the IP network repeat the same steps as above but in reverse order.

Logical DT-7000 Interfaces and Functions



A logical diagram of the DT-7000 functionality is shown below.



The following table shows a number of the significant DT-7000 features:

DT-7000 Features
Allows Removal of a BNS/Datakit node
10/100M LAN Interface

Built-in Equivalent of UMI Functionality (504 Virtual Ports for connection to Non-IP CommKit IP endpoints including Endpoints on BNS/Datakit and other networks)
Built-in Equivalent of UTM Functionality (Equivalent to 65 UTMs for logical connection to home (associated) IP-CommKit host and 64 remote DT-7000's each connected to their own home (associated) IP-CommKit host.)
Built-in Equivalent of IP-CommKit Termination in BNS/Datakit Node for One Associated IP-CommKit Host
Built-in Equivalent Subset of BNS/Datakit Controller Functionality
High Availability Option Active/Standby Configuration

Power over Ethernet
-48V (36-72V) DC Input
24V (18-72V) DC Input
AC to +24V DC Input
+5 V DC Output
Redundant Power option

Telnet Console
Optional Data Encryption
Closed User Groups
SNMP Agent
Hunt Groups
Host IP Address Resolution Table and DNS Support

Alarm Grid Connector
Temperature Alarms



3 RELEASE CHANGES

The functionality and command structure of the DT-7000 product is similar to that of the DT-6061.

3.1 NEW FOR BUILD 1.0

Since this is the initial release, please refer the User's Manual for a complete description of features, commands, and compatibility issues. The user manual can be downloaded from the Datatek web site.

3.1.1 NEW AND CHANGED COMMANDS

- None

3.1.2 COMMAND OUTPUT CHANGES

- None

3.1.3 OTHER CHANGES

- The SNMP object ID for the product code is the following for the DT-7000 product:

DT-7000 - **1.3.6.1.4.1.3791.3.9**



4 INSTALLATION ADDENDUM

4.1 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 web site 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.dt7**

Response: **52379 901 basekupd.dt7**

Key-in: **sum base1upd.dt7**

Response: **11052 2114 base1upd.dt7**

Key-in: **sum base2upd.dt7**

Response: **12265 1964 base2upd.dt7**

For new hardware purchases, the software load modules and key (see below) were already preinstalled at the factory. The customer only has to configure the DT-7000 per local needs.

4.2 REGISTRATION

The DT-7000 software requires a key for activation.

After installing new software and rebooting, before the DT-7000 may return to service, the software must be registered. Once the reboot is executed, the DT-7000 will not run until the registration process is completed. Changing either the release level or the version level requires that a new key be obtained and the re-registration of the DT-7000.

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.

[®] UNIX is a registered trademark in the United States and other countries licensed exclusively through X/Open Company, Ltd.



```

<DT-7000> register ↵
Product_Code=DT-7000
MAC=0.96.29.2.55.219
HW_SERNUM=0.0.6.240.61.162
Build_Number=1.0
Build_Date="Tue May 25 15:53:51 EDT 2004"
Enter key: ↵
          No key entered
<DT-7000>

```

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

```

<dolphin: DT-7000> vfy mod
  Module is: In Service
    ippublic: 192.167.8.200
      status: Active
    ipother: 192.167.8.162
      label: dolphin
  console CUG list: none
    ipaddr: 192.167.8.47
    submask: 255.255.255.0
    gateway: 192.167.8.1
  mac addr: 0.96.29.3.60.254
  serial #: 226.61.8.214.98.168
    build #: 1.0
  built on: Tue May 25 15:53:51 EDT 2004
    booted: 13.1 days ago
<dolphin: DT-7000>

```

The hardware information needed for the key generation process, which is the *MAC* address and *hardware serial number* of the DT-7000, can be obtained by running either the **rstpass**¹ command or **vfy mod** command. 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.

4.2.1 SPECIAL CONSIDERATIONS FOR DUPLEX OPERATION

Note that in a duplex operation, the software on the **standby** must be registered also. The key is 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.



4.3 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** and **gateway** to their new values. Then **reboot**.

5 DOCUMENTATION

The current version of the DT-7000 user manual is **Release.Version 1.0**. The user manual is available now for download from the Datatek website at URL:

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



6 HARDWARE WARRANTY

The warranty period for hardware shall be ninety (90) days from the date of shipment from Datatek Applications, Inc. Replacements and repairs are guaranteed for the longer of the remaining original warranty period or 30 days.

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