



**READ ME FIRST!!**

**IP-LTCN**

**LOOP TEST NETWORKING  
INTERFACE APPLICATION**

**PRODUCT/RELEASE NOTES**

FOR

**DT-6XXX**

**EMBEDDED NETWORK PROCESSORS**

**BUILDS 14.0 & 14.1**

**(RELEASE.VERSION 14.1)**

**ISSUE 4**

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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-6XXX, adjacent to the ground (earth) area for the connection of the ground (earth) conductor.

- This Equipment is to be Installed Only in Restricted Access Areas on Business and Customer Premises Applications in Accordance with Articles 110-16, 110-17, and 110-18 of the National Electrical Code, ANSI/NFPA No. 70. Other Installations Exempt from the Enforcement of the National Electrical Code May Be Engineered According to the Accepted Practices of the Local Telecommunications Utility.
- ❑ For a unit used with an AC Wall Plug-In Unit, read and understand the following:
  - A DT-6061 unit was tested with the K'TRON, Model KA-52A Wall Plug-In Unit and a DT-6X60 with a Phi Hong Model PSA-30U-240 Wall Plug-In Unit (110-240 V AC to 24 V DC).
  - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
  - Do not staple or otherwise attach the power supply cord to the building surfaces.
  - Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
  - The socket outlet shall be installed near the equipment and shall be readily accessible.
  - The Wall Plug-In unit may be equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug is intended to fit only into a grounding type power outlet. Do not defeat the safety purpose of the grounding type plug.
  - Do not allow anything to rest on the power cord. Do not locate this product where persons walking on it may abuse the cord.
  - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    - a) When the power supply cord or plug is damaged or frayed.
    - b) If liquid has been spilled into the product.
    - c) If the product has been exposed to rain or water.
    - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by qualified technician to restore the product to normal operation.
    - e) If the product has been dropped or the cabinet has been damaged.
    - f) If the product exhibits a distinct change in performance.

## Save These Instructions

Issue 4



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Datatek Applications Inc.

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## IMPORTANT !!

USER DOCUMENTATION IS AVAILABLE AT OUR WEBSITE.

Documentation:	<a href="http://www.datatekcorp.com">http://www.datatekcorp.com</a>
Sales:	<a href="mailto:sales@datatekcorp.com">sales@datatekcorp.com</a>

### **SPECIAL INSTALLATION AND UPGRADE PROCEDURES**

1. **Interworking:** This Build requires that all DT-4000s and DT-4180s accessed by the IP-LTCN application to have been previously upgraded to build 20 or higher or build 3 or higher respectively. It is imperative that these upgrades be completed before this build of IP-LTCN is installed. With this build, DT-4284s and DT-9480s can also be accessed by the IP-LTCN application.
2. **New "Build Numbers":** Build numbers, beginning with release 14.0, consist of two parts: a release number and version level. Technically, this software is called software version 14.1. 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 Build Compatibility:** This build (14.1) must be installed on a DT-6061 running platform build 16 or higher. This build is compatible with the new DT-6160 and DT-6260 Embedded Network Processors as well as the existing DT-6061 processor. Hence, the family of these processors is now called the DT-6XXX processors. **Please review the Release Notes for Build 16 of the DT-6061 Platform software before attempting to install this version of the IP-LTCN application.**
4. **Registration:** Starting with DT-6061 platform release 16, the platform software must be *registered* (i.e. have a software key installed) for each DT-6061 on which it is installed. For DT-6160 and DT-6260, registration starts with build 1.0 of the platform software. In addition, each application must be registered for each DT-6XXX on which it is installed. An application is registered only once per DT-6XXX regardless of the number of instances of that application running on a particular DT-6XXX. **Note that any application will not run after the new platform software is installed unless both the platform and application are registered.** Keys may be obtained in advance of the installation of software. Changing either the release level or the version level requires that a new key be obtained and the re-registration of the particular software entity. See section 4.3 for details.



## 1 INTRODUCTION

This document highlights the product features, modifications, known caveats and any special considerations for the IP-LTCN Loop Test Networking Application. For detailed information on this product, reference the **Loop Test Networking IP-LTCN Application User's Manual** and the **Supplement to the DT-6061 User's Manual Platform for IP-LTCN Application**.

## 2 PRODUCT FEATURES

The IP-LTCN application running on a DT-6XXX platform, together with DT-4XXX interfaces, is an IP replacement when used with the Tollgrade LoopCare Operations Support Application to provide the functionality previously provided by the Lucent Technologies' DCN, MLT application, and BNS/Datakit<sup>®</sup> networks. The DT-6XXX family includes DT-6061, DT-6160, and DT-6260. The DT-4XXX family includes DT-4000, DT-4180, DT-4284, DT-9480, and DT-4280.

The IP-LTCN can replace a DCN in its entirety. This eliminates a maintenance risk since the DCN is manufacturer discontinued, with a consequential shortage of spare parts. A side benefit is that the IP-LTCN will free up the 120 square feet of conditioned floor space taken up by the DCN.

The IP-LTCN supports an enhanced TCP/IP interface to the LoopCare host. This allows connectivity with the LoopCare hosts using an IP infrastructure. The new LoopCare hosts do not have either a BX.25 interface to communicate with a DCN, or a fiber interface to communicate with a BNS/Datakit node. Instead, the LoopCare hosts have implemented a direct TCP/IP interface to the IP-LTCN application.

The IP-LTCN application relies on the DT-6XXX redundancy infrastructure for its reliability. The DT-6XXX infrastructure provides 100% reliability through the optional 1+1 spare arrangement. The IP-LTCN, together with the DT-4XXX, implements both the "A" and "B" cabinets of the DCN, and all interface paths of the LCN. Consequently, the IP-LTCN is the most reliable and lowest cost solution possible for the loop test environment.

One copy of the IP-LTCN application per DT-6XXX logically supports 10 LoopCare host data links in either simplex or duplex connections, 20 unique host control/status channels, and up to 768 LTS connections.

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## 3 RELEASE CHANGES

### 3.1 NEW FOR BUILD 14.0

#### 3.1.1 NEW AND CHANGED COMMANDS

- ❑ Both the DT-6XXX platform software and the application software must be registered before the application will execute. See section 4.3 below for more detail as well as the Release Notes for the DT-6061 Network Element processor Platform Build 16.0 Command Output Changes

#### 3.1.2 COMMAND OUTPUT CHANGES

- ❑ Snooper output will reflect “status messages” sent to the host for an LTS being snooped.
- ❑ The **ver** command still shows only the first field of the build number, in this case 14 instead of 14.0. This will be corrected in the next build.

#### 3.1.3 OTHER CHANGES

- ❑ The IP-LTCN application can now communicate with network test devices connected to DT-4280, and DT-SAM (the latter via a BNS node and an UMI module) in addition to the DT-4000 and DT-4180 connections.
- ❑ A customer reported that one to three DT-4000 ports did not initialize properly. This has not been seen in the lab or any other site. However, the IP-LTCN has been updated to perform an automatic recovery of the condition.
- ❑ Resources are now dedicated for each LTS, instead of a group sharing a pool. This change was made to prevent an LTS, whose EIA leads are cycling, using up enough resources that other LTS's could not communicate properly.
- ❑ Rebuilt on 3/25/04 to be compatible with Loading on DT-6160 and DT-6260.

### 3.2 NEW FOR BUILD 14.1

#### 3.2.1 NEW AND CHANGED COMMANDS

- ❑ None

#### 3.2.2 COMMAND OUTPUT CHANGES

- ❑ None

#### 3.2.3 OTHER CHANGES

- ❑ Logic was added to use the TCP probe method for keep-alives. If there is no response to a TCP probe from the distant end after an initial time-out period of 200 seconds, additional probes are sent up to 8 times at 12-second intervals. If there is still no response during the probing period, then the connection is dropped with a RST+ACK.
- ❑ Support was added to allow communication with device types DT-4284 and DT-9480.
- ❑ Section 12 was added to the User Manual. This section describes how to deal with tail circuits. It also describes a situation that isn't supported. A summary of this latter situation is: Because of possible packet loss and timing problems in IP networks, connections downstream between a DT-4XXX/DT-9480 and LTS/DCTU that re-enter and exit an IP network *a second time* are not supported. The problem is not in the DT equipment but due to the anomalies in the IP network that an LTS and DCTU cannot tolerate and for which



there is no way to provide any compensation. These connections must be a TDM link or go through a network that supports a constant path and delays, such as a BNS network. See section 12.5 of the revised User Manual for more detail.



## 4 INSTALLATION ADDENDUM

### 4.1 CONSTRAINTS

- 1) This Build requires that all DT-4000s and DT-4180s accessed by the IP-LTCN application to have been previously upgraded to build 20 or higher or build 3 or higher respectively. It is imperative that these upgrades be completed before this build of IP-LTCN is installed.
- 2) IP-LTCN must be installed in **instance 1 only** of a DT-6XXX. It is strongly recommended that no other applications run on the same DT-6XXX. Otherwise performance could become less than desired.
- 3) The DT-6061 platform software must be upgraded to platform build 16 before installing this build of the IP-LTCN application. Please review the Release Notes for Build 16 of the DT-6061 Platform software for details.

### 4.2 OBTAINING INFORMATION FROM DATATEK

Load modules for all the Datatek migration products are obtained by sending email to either Bill Arndt at [arndt@datatekcorp.com](mailto:arndt@datatekcorp.com) or Dan Conklin at [conklin@datatekcorp.com](mailto:conklin@datatekcorp.com). All other documentation, including release notes, user manuals, “white-papers”, etc. can 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 ip\_ltcn.dt6**  
Response: **12575 252 ip\_ltcn.dt6.14.1**

### 4.3 REGISTRATION

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

Beginning with DT-6061 platform build 16, the software for any DT-6XXX platform requires a key for activation. In addition, any application running on a DT-6061 platform software build 16 and above requires a key for activation.

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

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One key is needed for the DT-6061 platform and one key for each different application resident on a DT-6061, regardless of the number of instances of that application on this particular DT-6061. Using the DT-6061 serial console, run the **register** command to register the DT-6061 platform (module) and **regapp** command to register the IP-LTCN 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=16.0
Build_Date="Mon Jan 19 23:10:14 EST 2004"
    Enter key: ↵
    No key entered
<rainbow: DT-6061>
```

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

```
<rainbow: DT-6061> vfy mod
Module is: Registered
hostname: testbox
ippublic: 192.168.8.250
    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 #: 16.0
    rtu #: 10
    built on: Mon Jan 19 23:10:14 EST 2004
    booted: 3.08 days ago
<rainbow: DT-6061>
```

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

```
rainbow: DT-6061> regapp ↵
Unregistered applications:
    ip_ltcn: Build 13.0 "Fri Oct 11 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-6XXX platform software is not registered, **vfy app** will show the application status as **rfs** (ready-for-service)

The hardware information needed for the key generation process, which is the *MAC* address and *hardware serial number* of the DT-6061, can be obtained before build 16 is installed by running either the **rstpass** command or **vfy mod** command. The same *MAC* address and *serial number* are also used in generating an application key. Supply Datatek with this information and the software version (two-part build number) of the platform to which you are upgrading and the software version(s) (two-part build number(s)) of the application(s) that are resident or to be installed on the platform.

#### 4.3.1.1 SPECIAL CONSIDERATIONS FOR DUPLEX OPERATION

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

## 5 DOCUMENTATION

The current version of the **DT-6XXX IP-LTCN Virtual Console Application User's Manual** is **Build 14.1**. Both the release notes and the user's manual are available on the Datatek web site at location: [http://www.datatekcorp.com/support/support\\_soft\\_firm\\_updates.html](http://www.datatekcorp.com/support/support_soft_firm_updates.html)



## 6 HARDWARE WARRANTY

The warranty period for the DT-6XXX hardware on which this application runs shall be ninety (90) days from the date of shipment of the hardware from Datatek Applications, Inc. Replacements and repairs are guaranteed for the longer of the remaining original warranty period or thirty (30) days whichever is longer.

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