



**READ ME FIRST!!**

**X25PAD**

**X25PAD APPLICATION**

**PRODUCT/RELEASE NOTES**

FOR

**DT-6XXX**

**EMBEDDED NETWORK PROCESSORS**

**BUILDS 21, 22.0, 22.1, 23.1, & 23.2**

**(RELEASE.VERSION 23.2)**

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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-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.

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## Save These Instructions

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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. **New "Build Numbers"**: Build numbers, beginning with release 22.1, consist of two parts: a release number and version level. Technically, this software is called software release 23.2. The first field is the base. The second field is the maintenance level of the software. Various commands require both fields, so when supplying build information to Datatek for key generation, etc., supply the complete two-part build number. Generally, text showing only the first part means that whatever is being discussed applies to any and all versions of that release (base).
2. **Platform Build Compatibility**: This build (23.2) must be installed on a DT-6061 running platform software build 16.0 or higher or on a DT-6160 or DT-6260 using any of their platform software builds. This build is compatible with the new DT-6160 and DT-6260 Embedded Network Processors as well as with the existing DT-6061 processor. **Please review the Release Notes for Build 16.2 of the DT-6061 Platform Software or Build 1.1 of the DT-6X60 Platform Software before attempting to install this version of the X25PAD application.** Both documents are available on the Datatek web site.
3. **Registration**: Starting with DT-6061 platform release 16.0 or DT-6X60 platform release 1.0, the platform software must be registered for each DT-6061/DT-6X60 on which it is installed. In addition, each application must be registered for each DT-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.
4. **Instance Support Limitation**: As of build 22, the X25PAD application software load module has grown sufficiently such that a maximum of 20 instances instead of 30 of X25PAD can be supported on the same DT-6061. However, 30 instances can be supported on the new DT-6160, which has more memory and increased processing power than the DT-6061. The new DT-6260 supports 48 instances.



## 1 INTRODUCTION

This document highlights the product features, modifications, known caveats and any special considerations for the X25 PAD Application. For detailed information on this product, reference the *User's Manual, X25PAD Application*, which can be downloaded from the Datatek web site.

## 2 PRODUCT FEATURES

The DT-6XXX X25PAD application eliminates the need, complexity, and expense of specialized (B)X.25 equipment in an IP network by allowing an (B)X.25 device, such as a network element console, to be connected to a synchronous port anywhere in the IP network but treated as an IP endpoint. An operations system host communicates via IP to the DT-6XXX that is running the X25PAD application. The application provides all the termination/mediation of the (B)X.25 used by the network element. The host does not need to know that the ultimate endpoint is a (B)X.25 entity.



## 3 RELEASE CHANGES

### 3.1 NEW FOR BUILD 21

#### 3.1.1 NEW AND CHANGED COMMANDS

- ❑ The value of the password parameter **<passwd>** in the **login** command may now consist of upper and lower case characters and numbers.
- ❑ VCs can now be grouped into hunt groups. The default is that each VC is uniquely addressed with a TCP port number. At least one operations system wishes to address multiple VCs with a single TCP port. That is, a hunt group. This feature is primarily used with SVCs. The net effect of this change is the removal of the **base** parameter, and the addition of an **hport** option on each VC.

For example: To make a three circuit hunt group at TCP 30001.

Key-in:

**VC 1 hport=30001**

**VC 2 hport=30001**

**VC 3 hport=30001**

*All VCs in a hunt group are restored and removed together.* That is, **rm VC 1** will actually take all three VCs out of service in the example above. Conversely, **rs VC 1** will restore all three VCs in the example above.

Although not specifically required by X25PAD, it would be a good idea to have all other options of the VCs configured identically.

#### 3.1.2 COMMAND OUTPUT CHANGES

- ❑ None

#### 3.1.3 OTHER CHANGES

- ❑ None

### 3.2 NEW FOR BUILD 22 AND 22.1

#### 3.2.1 NEW AND CHANGED COMMANDS

- ❑ A new option was added to the **snoop** command: **verbose**

**Syntax: snoop [OFF | L2 | ALL | <VC# Range>] [ verbose ]**

The additional parameter of **[verbose]** will display all of the data bytes in addition to the standard decoding. The output when using this option may become quite voluminous.

- ❑ The MacStar protocol is the same as the Cisco Record Boundary Preservation (RBP) protocol. Hence, in the **VC** command, the administrator can specify the value either **RBP** or **MACSTAR** for the **SVC** parameter:

**Syntax: vc <vc#> [svc=< PAD | PASS | MACSTAR | RBP | ISO | BIN >]**

There were no changes to the protocol itself.

- ❑ Two new interfaces were added to the **VC** command: **BIN (for binary)** and **ISO**



**Syntax:** `vc <vc#> [svc=< PAD | PASS | MACSTAR | RBP | ISO | BIN >]`

The value of **BIN** specifies a straight binary interface with no headers attached. M-bits are added if the available data exceeds the packet size. No packet boundaries are guaranteed in either direction.

The value of **ISO** specifies an RFC 1006 ISO interface using RFC 1006 TCP headers for communication with an ISO BX.25 interface.

- In conjunction with the ISO interface above, two new facilities were added per SVC in the **VC** command: the *Calling Address Extension* facility and the *Called Address Extension* facility.

**Syntax:** `vc <vc#> [ ext_calling=<NSAP> | DELETE ]`  
`vc <vc#> [ ext_called=<NSAP> | DELETE ]`

Each Network Service Access Point (NSAP) address consists of decimal digits and can be up to 40 digits in length. The specification of the address extensions are aimed primarily at the carrying of NSAP addresses across concatenated networks. These addresses are independent of the subnetwork addressing scheme, and are used at the boundary between subnetworks to derive the SubNetwork Point of Attachment (SNPA) for the next stage of a call. For an X.25 network, the SNPAs are the calling and called DTE addresses carried at the start of a call request packet immediately after the packet type identifier. The CCITT originally assumed that the address extension field needed to allow 32 decimal digits. ISO subsequently settled on 40 and this is what became the standard in the 1988 version of X.25. There is no relevant specification on how the conversion between NSAP and SNPA addresses is achieved. Consequently, they need to be explicitly specified.

- The X25PAD application must be registered before the application software will activate and run. Several new commands, such as **register**, **regapp**, **vfy app**, etc. were added to the DT-6XXX platforms to implement this. Keys are required. See section 4.3 for more detail. Build 22 and 22.1 may only execute on a DT-6061 running platform build 16.0 or higher. Build 23 and higher will execute on any DT-6XXX platform.

### 3.2.2 COMMAND OUTPUT CHANGES

- The **vfy** command output has changed and outputs the new parameters or new values described above.

### 3.2.3 OTHER CHANGES

- A user's test box requires a "Reset" on a PVC LCN to operate properly. This is not normal, but it is innocuous if done at connection establishment time. Note that this condition only existed on a PVC; SVCs with call indications worked properly.
- A test was added to detect an administrator trying to specify a USER DATA length on an SVC that is larger than the maximum value of 16 and prevent its entry.

## 3.3 NEW FOR BUILD 23.1

### 3.3.1 NEW AND CHANGED COMMANDS

- The BX.25 session layer API software previously distributed separately has now been moved into the X25PAD software. The host based API is now simplified and is distributed as source. To invoke the session layer service, a new option has been added to the services parameter **svc** of the **VC** command: **sess**



**Syntax:** vc <vc#> [svc=< PAD | PASS | MACSTAR | RBP | ISO | BIN  
| SESS >]

- ❑ Labels can now be up to 60 characters in length and contain spaces and special characters. Labels must be included in double quotes.

**Syntax:** label [ <doubled quoted string> | none ]

An existing label will be carried forward upon upgrade to this release.

### 3.3.2 COMMAND OUTPUT CHANGES

- ❑ None

### 3.3.3 OTHER CHANGES

- ❑ None

## 3.4 NEW FOR BUILD 23.2

### 3.4.1 NEW AND CHANGED COMMANDS

- ❑ None

### 3.4.2 COMMAND OUTPUT CHANGES

- ❑ None

### 3.4.3 OTHER CHANGES

- ❑ The X25PAD application can now be used in instances numbered 31 through 48 of a DT-6260. Previously, it could only be used in the first thirty instances.
- ❑ For the PAD interface, messages of any size can now be sent. Previously, the flow control would allow only messages of a maximum size of window size times packet size or less to be sent.
- ❑ Some minor changes in the X.25 LAPB initialization were made.
- ❑ A PVC setup timer was added to guarantee a minimum time to wait for the reset confirmation, which is not guaranteed. It was possible to send data prior to the confirmation that may (depending on the NE) lose some data.



## 4 INSTALLATION ADDENDUM

### 4.1 CONSTRAINTS

The DT-6061 platform software must be upgraded to platform build 16.0 or higher before installing this build (23.2) of the X25PAD application. Please review the Release Notes for Build 16.0 or higher of the DT-6061 Platform software or the Release Notes for Build 1.0 of the DT-6X60 Platform software for details.

### 4.2 OBTAINING INFORMATION FROM DATATEK

Load modules for all the Datatek migration products must be 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 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<sup>®</sup> “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 x25pad.dt6**

Response: **20472 247 x25pad.dt6**

### 4.3 REGISTRATION

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

Beginning with DT-6061 platform build 16.0, the software for any DT-6XXX platform requires a key for activation. In addition, any application running on a DT-6061 platform software build 16,0 and above requires a key for activation.

After installing the new platform software build 16.0 and rebooting, before the DT-6061 may return to service, the software must be registered. *The application(s) resident on this DT-6061 platform build must be registered also.* Once the reboot is executed, the application(s) will not run until the application registration process is completed. One cannot login into the application console until both the platform software and application software are registered.

One key is needed for the DT-6061 platform and one key for each different application resident on a DT-6061, regardless of the number of instances of that application on this particular DT-6061. Using the DT-6061 serial console, run the **register** command to register the DT-6061 platform (module) and **regapp** command to register the X25PAD application(s). Changing either the release level or the version level requires that a new key be obtained and the re-registration of the particular software entity.

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Run the **register** command, which will produce the output similar to that shown below. Contact Datatek with the information in order to obtain the software key. Rerun the **register** command and enter the software key at the prompt or on the command line.

```
<rainbow: DT-6061> register ↵
Product_Code=DT-6061
MAC=0.96.28.2.55.219
HW_SERNUM=0.0.6.240.61.162
Build_Number=16.0
Build_Date="Mon Jan 19 23:10:14 EST 2004"
Enter key: ↵
No key entered
<rainbow: DT-6061>
```

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

```
<rainbow: DT-6061> vfy mod
Module is: Registered
hostname: testbox
ippublic: 192.167.8.250
status: Active
ipother: 192.167.8.13
label: rainbow
ipaddr: 192.167.8.20
submask: 255.255.255.0
gateway: 192.167.8.1
mac addr: 0.96.28.2.55.219
serial #: 0.0.6.239.61.162
build #: 16.0
rtu #: 10
built on: Mon Jan 19 23:10:14 EST 2004
booted: 3.08 days ago
<rainbow: DT-6061>
```

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

```
<rainbow: DT-6061> regapp ↵
Unregistered applications:
X25pad: Build 23.1 "Mon Mar 15 11:45:39 EDT 2004"
MAC Address = 0.96.28.2.55.219
Serial Number = 0.0.6.240.61.162
application registration key ? KEY= ↵
Usage: regapp [ <key> ]
<rainbow: DT-6061>
```



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

```
<rainbow: DT-6061> vfy app ↵
```

```
Installed applications:
```

```
  b2aprt: Build 7.0 "Wed Oct 23 14:22:11 EDT 2002"  
  ip_bhi: Build 6.0 "Fri Oct 25 08:44:47 EDT 2002"; Not Registered  
  ipspool: Build 11.0 "Mon Oct 6 14:27:15 EDT 2003"  
  tn3270: Build 12.0 "Fri Oct 18 13:32:56 EDT 2002"  
  x25pad: Build 23.1 "Mon Mar 15 17:12:38 EST 2004"
```

```
Running applications:
```

```
 1 b2aprt (9190)  
 2 none (9193)  
 3 none (9197)  
 4 none (9202)  
 5 none (9210)  
 6 none (9223)  
 7 none (9236)  
 8 none (9237)  
 9 none (9238)  
10 x25pad (9461)  
11 x25pad (9523)  
12 x25pad (9524)  
13 x25pad (9525)  
14 x25pad (9526)  
15 x25pad (9343)  
16 x25pad (9344)  
17 x25pad (9345)  
18 x25pad (9346)  
19 x25pad (9347)  
20 none (12054) ip_bhi-unreg  
21 none (9456)  
22 none (9457)  
23 none (9458)  
24 none (9459)  
25 none (9460)  
26 none (9527)  
27 none (9528)  
28 none (9625)  
29 none (9626)  
30 x25pad (9627)  
<rainbow: DT-6061>
```



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

The hardware information needed for the key generation process, which is the *MAC* address and *hardware serial number* of the DT-6XXX, can be obtained before the new platform is installed by running either the **rstpass** command or **vfy mod** command. The same *MAC* address and *serial number* are also used in generating an application key. Supply Datatek with this information and the software version (two-part build number) of the platform to which you are upgrading and the software version(s) (two-part build number(s)) of the application(s) that are resident or to be installed on the platform.

#### 4.3.1 SPECIAL CONSIDERATIONS FOR DUPLEX OPERATION

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

## 5 DOCUMENTATION

The current version of the *DT-6XXX X25PAD Application User's Manual* is **Build 23.1**. There were no documentation changes for release 23.2. Both the release notes and the user's manual are available on the Datatek web site at URL:

[http://www.datatekcorp.com/support/support\\_soft\\_firm\\_updates.html](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 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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