



READ ME FIRST!!

**BX.25 TO TCP/IP
IP-SLM APPLICATION
RELEASE NOTES**

FOR

DT-6XXX

EMBEDDED NETWORK PROCESSORS

BUILDS 7, 8, 9.1, & 10.1

(RELEASE VERSION 10.1)

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-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



IMPORTANT !!

USER DOCUMENTATION IS 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 release 9.1, consist of two parts: a release number and version level. Technically, this software is called software release 10.1. 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).
2. **Platform Build Compatibility**: This build (10.1) 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 16.1 of the DT-6061 Platform Software or Build 1.0 of the DT-6X60 Platform Software before attempting to install this version of the IP-SLM 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.



1 INTRODUCTION

This document highlights the product features, modifications, known caveats and any special considerations for the IP-SLM Application. For detailed information on this product, reference the ***BX.25 to TCP/IP IP-SLM Application User's Manual***, which can be downloaded from the Datatek web site.

2 PRODUCT FEATURES

The IP-SLM application performs a software emulation of the BNS BX.25 interface (also known as the Synchronous Line Module (SLM)). The IP-SLM application allows low cost and high-density access points to terminate BX.25 interfaces common to Network Elements. The result is significant cost savings, and administrative simplification. The IP-SLM is also a migration vehicle, which enables the reduction or elimination of proprietary network components for the Network Element support functionality. Examples include the elimination of the SLM modules in a BNS network, thus allowing the retirement of node shelves or entire nodes. Operations and maintenance are simplified, energy needs are lowered, and valuable floor space is regained.

Recent changes in requirements¹ by Telcordia Technologies for the volume of information collected from network elements have generated the need for higher speed BX.25 links. The most cost effective way to meet this need is with the IP-SLM application. Synchronous line speeds as high as 56 Kbps are supported. BNS SLM modules, which are a two-board set, supports 4 ports but only 1 port at 9600 bps maximum. The volume of the information requires line-speeds in excess of 9600 bps. IP-SLM is therefore the preferred and now widely deployed solution.

Note that a specialized API that may further simplify the interface between the IP-SLM application and the Operations Support System is available by purchasing the IP-SLM application and executing a Non-Disclosure Agreement (NDA) with Datatek Applications, Inc. The API is appropriate for only certain environments. Contact Datatek Applications Inc. for further details.

¹ TR-746: "Stored Program Control System Operations System (SPCS/OS) - Network Traffic Management Operations System (NTMOS) Interface via a Network Data Collection Operations System (NDCOS)". These requirements were implemented in Release 5E14 for #5ESS switches.



3 RELEASE CHANGES

3.1 NEW FOR BUILD 7

3.1.1 NEW AND CHANGED COMMANDS

- None

3.1.2 COMMAND OUTPUT CHANGES

- None

3.1.3 OTHER CHANGES

- This software was rebuilt to be compatible with the new software structures of the DT-6061 platform builds 14 and 15. There were no fixes or features implemented.

3.2 NEW FOR BUILD 8

3.2.1 NEW AND CHANGED COMMANDS

- None

3.2.2 COMMAND OUTPUT CHANGES

- None

3.2.3 OTHER CHANGES

- Support was added for the NFM loopback command code set.

3.3 NEW FOR BUILD 9.1

3.3.1 NEW AND CHANGED COMMANDS

- None

3.3.2 COMMAND OUTPUT CHANGES

- The output of the verbose mode of the **SNOOP** command was changed to aid in debugging.

3.3.3 OTHER CHANGES

- This software was rebuilt to be compatible with the new software structures of the DT-6061 platform build 16 and the new DT-6160/6260 platform. Beginning with this build, the IP-SLM application software will run on any of the three platforms: DT-6061, DT-6160 and DT-6260.



3.4 NEW FOR BUILD 10.1

3.4.1 NEW AND CHANGED COMMANDS

- A new parameter was added to the **link** command: **T3** timer

Syntax: link [t3= <#Seconds | OFF | DEFAULT>]

Under normal circumstances, the T3 timer does not need to be configured. It defaults to a value of 15 seconds.

3.4.2 COMMAND OUTPUT CHANGES

- Added **DXE** to the on-line help for the **link** command.
- The **vfy link** now outputs the value of the **T3** timer parameter.

3.4.3 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.
- Added support for the Convergent Voice Mail System (CVMS) used by a major RBOC. When IP-SLM is used with the CVMS, the value of the **T3** timer should be set to **OFF** (i.e. **link t3=off**). The CVMS will issue a FRMR in response to receipt of an "idle" RR.



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 (10.1) of the IP-SLM 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 are obtained by sending email to either Bill Arndt at arndt@datatekcorp.com or Dan Conklin at conklin@datatekcorp.com. All other documentation, including release notes, user manuals, “white-papers”, etc. can be accessed on the Datatek 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_slm.dt6**

Response: **53404 192 ip_slm.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 application(s). Changing either the release level or

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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=0.96.28.2.55.219
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). **Vfy mod** will show “Module is: Not Registered”

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 BX.25 to TCP/IP IP-SLM Application User's Manual* is **Build 10.x**. **This manual is applicable to the DT-6160 and DT-6260 platforms also.** Both the release notes and the user's manual will be available shortly on the Datatek web site at URL:

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



6 APPENDIX A – IP-SLM INSTANCE NUMBER TO TCP PORT CONVERSION TABLE

DT-6XXX Instance Number	BX.25 LINK TCP Port Number	OS TCP Port Number
1	30,000	30,001
2	30,200	30,201
3	30,400	30,401
4	30,600	30,601
5	30,800	30,801
6	31,000	31,001
7	31,200	31,201
8	31,400	31,401
9	31,600	31,601
10	31,800	31,801
11	32,000	32,001
12	32,200	32,201
13	32,400	32,401
14	32,600	32,601
15	32,800	32,801
16	33,000	33,001
17	33,200	33,201
18	33,400	33,401
19	33,600	33,601
20	33,800	33,801
21	34,000	34,001
22	34,200	34,201
23	34,400	34,401
24	34,600	34,601
25	34,800	34,801

DT-6XXX Instance Number	BX.25 LINK TCP Port Number	OS TCP Port Number
26	35,000	35,001
27	35,200	35,201
28	35,400	35,401
29	35,600	35,601
30	35,800	35,801
31*	36,000	36,001
32	36,200	36,201
33	36,400	36,401
34	36,600	36,601
35	36,800	36,801
36	37,000	37,001
37	37,200	37,201
38	37,400	37,401
39	37,600	37,601
40	37,800	37,801
41	38,000	38,001
42	38,200	38,201
43	38,400	38,401
44	38,600	38,601
45	38,800	38,801
46	39,000	39,001
47	39,200	39,201
48	39,400	39,401

*Note instances 31 through 48 are valid only when using a DT-6260.



7 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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