



READ ME FIRST !!

IP-VCON

VIRTUAL CONSOLE APPLICATION

RELEASE NOTES

FOR

DT-6XXX

EMBEDDED NETWORK PROCESSORS

BUILDS 7, 8, 9, & 10.0

(RELEASE.VERSION 10.0)

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 the DT-6XXX equipment on which this application runs, 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 is intended to 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 uninsulated 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. Service should be performed by trained personnel only. 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 equipped 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 the cord may be abused by persons walking on it.
 - 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 WEB SITE.

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 release 10.0. 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 (10.0) 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 the first build that 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-VCON 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. **Incompatible Databases:** Before installing build 6 or higher, backup your database first. Build 6 and 7 generate new configuration files that are incompatible with those used in earlier versions. So if you need to fall back to a build earlier than build 6, the old database will be needed. Build 6 can read build 7 database files but will discard any action script numbers greater than 16.



1 INTRODUCTION

This document highlights the product features, modifications, known caveats and any special considerations for the IP-VCON Virtual Console Application. For detailed information on this product, reference the **IP-VCON Virtual Console Application User's Manual**.

2 PRODUCT FEATURES

The IP-VCON application provides a complete interface for application consoles, network element consoles, and user consoles.

There is a need to deal with the multitude of *consoles* in modern networks. There is a need to monitor those consoles autonomously. There is a need for a means to do this in a non-intrusive manner to the administrator. That need is addressed by the **Virtual Console** application, **IP-VCON**.

The **Virtual Console** application attaches, via TCP connections, to many *device consoles*, whether network based or physical (via a DT-4000 or equivalent). It will monitor those consoles, take action on exceptions as needed, and provide a single means to access every console on and off the network. The **Virtual Console** application is eternally vigilant and will notify when a device console indicates a problem situation. The **Virtual Console** can even determine outage of equipment. Security is handled by defining multiple administrators, and giving each administrator their own identification and password. Each administrator can then be restricted to a list of *device consoles* for which they have responsibility. This is more than a security issue, since there is no need to route alarm data to someone that cannot deal with the problem. Furthermore, the **Virtual Console** can be configured with multiple tiers of access to each console, allowing some administrators full access, while allowing others a limited command set, as might be necessary to display status or examine configuration.

The basic features of the IP-VCON application are:

- 768 virtual consoles per IP-VCON
- 64 administrators per IP-VCON
- 27 simultaneous administrators per IP-VCON
- One universal system logger channel and 32 other user configurable simultaneous logger connections
- 64 monitor groups – provides restricted access to commands on designated consoles by designated administrators
- 32 user defined automatic action scripts triggered by alarms sent to the virtual console



3 RELEASE CHANGES

3.1 NEW FOR BUILD 7

3.1.1 NEW AND CHANGED COMMANDS

3.1.1.1 ACTION COMMAND

- The **'trap'** parameter on the **'action'** command is now useable. It enables traps to be sent with the provided **<trap mgr info>**. The **<trap mgr info>** consists of the trap manager's IP address and the trap community string separated by a comma, e.g. `trap="123.45.67.89,abcTrapComm"`. Traps are sent from a DT-6061's configured **'ippublic'** (if the DT-6061 is in a redundant configuration) or **"ipaddr"**. The trap configuration can be deleted by **'trap=none'**.

Syntax: `action <action #> trap="<TRAP INFO LIST>" | none`

IP-VCON sends an enterprise-specific trap with specific trap type of 1, containing two variables in the IP-VCON name space: the name of the console which can be up to 15 characters long and the full text of the console output that IP-VCON determined to be an alarm that triggered the action. A separate and optional MIB file is available on the Datatek web site, **ip_vcon.mib**, which can be downloaded and compiled with the other MIB files for an SNMP manager. This will enable the console name and alarm text to be displayed in a more readable form by the SNMP manager.

- Now 32 actions can be configured instead of 16.
- For the **'match'** parameter of the **'action'** command, if the parameter is not configured or its value left blank, its meaning now is *'match any'*. Formerly, it meant *'match none'*.
- The checking routine, when the **'action'** command is being used to configure a new action, will no longer report the status of the destination console specified in the command as "not connected" unless it is really "not connected".

3.1.1.2 OTHER MISCELLANEOUS COMMAND CHANGES

- Correction:** In the build 6 release notes, it said: "The **'allow='** parameter of the **'con'** command and the **'con='** parameter of the **'mon'** command both accept **selection notation [], [+], and [-]** for use with the current selection in editing console lists. Also, both accept **'none'** (w/o quotes)". It should have said, "The **"allow="** parameter of the **'adm'** command ..."
- The **'vfy vcon'** command obtains the status of the standby controller in a redundant DT-6061 configuration from the DT-6061 platform database and prints it.
- The command **'dmeas LOGGER all'** prints the number of traps sent as part of the measurements.
- The command **'dmeas ADM'** now correctly reports if an administrator is currently logged in or out.



3.2 NEW FOR BUILD 8

There were no maintenance fixes nor feature enhancements in build 8. Build 8 was made in order to put the load module into the new format used by build 14 and above of the DT-6061 platform. Install Build 15 or higher on the DT-6061 platform before installing this or higher builds of IP-VCON.

3.3 NEW FOR BUILD 9

3.3.1 NEW AND CHANGED COMMANDS

- In the **!send** command, escape sequences (except \p) are now allowed for special characters. For instance, in **!send console #(s) cmd=""**, if double quotes are desired between the double delimiters, the sequence \q is used. For example, the command:

EXAMPLE 1

Desired input: !send 13-15 cmd="..."

Actual Input: !send 13-15 cmd="...\q...\q..."

EXAMPLE 2

< :--ANY--> !send 16 cmd="cmt l1=\qtest text\q"

M Console 16 [x25pad] Output Follows:

cmt l1="test text"

A complete list of escape sequences is shown in Section 7.5, *Special Characters*, in the User's Manual for IP-VCON available on the Datatek web site under the Support link.

- The allowed maximum length of a console name has been increased from 15 characters to 31 characters in the **con** command using the **name** parameter. Because of this, the internal database format has changed. Therefore, after installing build 9, you cannot go back to build 8 or an earlier build unless a backup copy of the database saved with that build is reused.

3.3.2 COMMAND OUTPUT CHANGES

- The **!ls** command now correctly shows an up-to-date list of consoles. Previously, if a console was deleted from the database, it still was shown on an administrator's console on the **!ls** report as out-of-service.
- When a command is being sent to multiple consoles, but cannot be sent to certain consoles in the list because there is no physical connectivity to them through the network, someone else (other than IP-VCON) is already using the consoles, etc, error messages are output followed by the new prompt **[START !SEND]** before the command is sent to the reachable consoles. In the following example, assume console 13 is not available for use via IP-VCON:

EXAMPLE

<* :--ANY--> !send 13-15 cmd="vfy mod"

Console 13: name='fanout' currently 'Disconnected'

[START !SEND]

M Console 14 [ip-spool] Output Follows:



```
vfy mod
```

```
...
```

- When a command is being sent to multiple consoles using the **!send** command, after the command is executed on the last console in the list, the user prompt output now is [**DONE !SEND**] instead of [**NEXT !SEND**] thus confirming to the user that the list has been completed.

EXAMPLE

```
<* :--ANY--> !send 13-15 cmd="vfy mod"
```

```
Console 13: name='fanout' currently 'Disconnected'
```

```
[ START !SEND ]
```

```
M Console 14 [ ip-spool ] Output Follows:
```

```
vfy mod
```

```
...
```

```
M Verify SPOOL Instance Configuration
```

```
SPOOL Instance Number 5:
```

```
Spooler Printer Interface: 192.168.1.16 Port 515 Source  
Port 0.
```

```
Printer Service State : IN SERVICE
```

```
...
```

```
Console Label --> 'dt6061-apisto#5'.
```

```
Comment: 1 --> "DT-6061 apisto"
```

```
2 --> "Instance #5"
```

```
<dt6061-apisto#5:IP-SPOOL> <* :ip-spool>
```

```
[ NEXT !SEND ]
```

```
M Console 15 [ b2aprt ] Output Follows:
```

```
vfy mod
```

```
M Verify BiSync to ASCII Printer Instance Configuration
```

```
Local IP Address: 192.168.8.250, Instance Number: 10
```

```
ASCII Printer Interface: 192.168.8.250 Port 30800 - out  
of service.
```

```
BiSync Host Interface: 192.168.8.41 Port 111 - in  
service.
```

```
<B2APRT> <* :b2aprt> [ DONE !SEND ]
```



M !SEND Command Complete

<* :--ANY-->

3.3.3 OTHER CHANGES

- When a connection was lost to a remote console of a Datatek product that had previously been logged into by IP-VCON, IP-VCON would not attempt to re-login immediately after the connection was again available. Instead it would wait until one of administrators attempted to use that console. Now it immediately runs the login scripts.
- A security breach was fixed in the **!send** command. Previously, by using the **!send** command, a command could be sent to any console, regardless of whether it was listed on the select list or not.
- The detection and logging of alarms generated by BNS node consoles was improved.

3.4 NEW FOR BUILD 10.0

3.4.1 NEW AND CHANGED COMMANDS

- The console command **con** used for configuring remote consoles has a new option on the **katime** parameter called **sys**. The **katime** parameter allows the administrator to choose which keep-alive (ka) algorithm is used between IP-VCON and a target console to which IP-VCON is connected. The enhanced syntax is:

Syntax: con [katime=<#minutes>| sys | none]

If a value for **<#minutes>** is specified, the older keep-alive algorithm is invoked. The range of **minutes** is now restricted to 1-250 instead of 1-255. This algorithm uses the application level telnet protocol that requires the other end to deal with it. The application either detects no response after a prearranged interval or receives an error when trying to read or write on a socket that has disconnected.

If the value **sys** is specified for **katime**, a low-level TCP protocol, not available at the user/application level, is invoked. The operating system initiates the protocol after notification by the application when the application establishes a connection, i.e. opens a socket. The operating system executes the low-level protocol and will terminate a socket when no response is received to the **katime** probes. A connection must be idle for 200 seconds (The value is not settable by the user or application), at which time the operating system will retry sending a probe 8 more times at 12 seconds intervals before it terminates the socket with an RST+ACK. The application will react as though the other side did a normal TCP disconnect.

3.4.2 COMMAND OUTPUT CHANGES

- For the version command **ver**, several changes to the output were made:
 1. The “software version” message was dropped. It provided no useful information to the administrator.
 2. The command outputs in addition to the build number (release.version), the database version level followed by a list of the upgrade status levels for each section of the database. A database section version is updated automatically to the current version when the administrator changes something in that section. Otherwise, an older



version of a section of the database is readable by this release. (Note: the database section must be compatible with build 6 or higher.)

- The “Active Connections” heading is now printed when only the connection information for a single console is requested on a display connection command (**dc** or **dconn**). Previously, the heading was only printed when connections for multiple consoles were requested.
- Previously, when IP-VCON was loaded but not configured, a verify command issued by the platform console would show the ipvcon application status as “configuring” instead of its true status, such as oos or unreg, etc.

3.4.3 OTHER CHANGES

- The initial reason to make this build was to make a build that was compatible with the format of the new DT-6X60 platform. This is the first compatible build. This build will also run on DT-6061 processors running platform software build 16.0 and higher. DT-6061 platform software must be upgraded to build 16.0 or higher before installing this release of the IP-VCON application.

3.5 UNSUPPORTED ITEMS

- There is one item in the user manual that will be implemented in a future version and that is the ‘**snoop**’ command



4 INSTALLATION ADDENDUM

4.1 CONSTRAINTS

- The DT-6061 platform software must be upgraded to platform release 16.0 or higher before installing this release (10.0) of the IP-VCON 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.
- IP-VCON must be installed in **instance 1 only** of a DT-6XXX Embedded Network Processor. It is strongly recommended that no other applications are run on the same DT-6XXX. Otherwise performance could become less than desired.

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 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_vcon.dt6	sum ip_vcon.mib
Response: 20662 366 ip_vcon.dt6	51263 4 ip_vcon.mib

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)

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and **regapp** command to register the IP-VCON 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.

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 **IP-VCON Virtual Console Application User's Manual** is **10.0** 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



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 30 days.

7 END-USER LICENSE AGREEMENT FOR SOFTWARE

This License Agreement ("License") is a legal contract between you and the manufacturer ("Manufacturer") of the system ("HARDWARE") with which you acquired software product(s) identified above ("SOFTWARE"). The SOFTWARE may include printed materials that accompany the SOFTWARE. Any software provided along with the SOFTWARE that is associated with a separate end-user license agreement is licensed to you under the terms of that license agreement. By installing, copying, downloading, accessing or otherwise using the SOFTWARE, you agree to be bound by the terms of this LICENSE. If you do not agree to the terms of this LICENSE, Manufacturer is unwilling to license the SOFTWARE to you. In such event, you may not use or copy the SOFTWARE, and you should promptly contact Manufacturer for instructions on return of the unused product(s) for a refund.

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