



subject: **Changes to SAM commands for DT-4000 support**

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from: **BNS-2000 VCS Customer Support
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PRODUCT DOCUMENTATION NOTICE

BNS-2000 VCS (Datakit II VCS) Build 82 contains the first shipment of controller code to support the DT-4000. The DT-4000 is a multi-access device that can be used as a drop-in replacement for the SAM in any BNS-2000/BNS-2000 VCS network without any IP interconnection. It has 16 async/sync ports with speeds up to 115 Kbps synchronous and 56Kbps asynchronous. It has a built-in IP-GATE and can be used to securely transport IP traffic to a remote LAN off the BNS-2000/BNS-2000 VCS network. The built-in IP-DSU function can also be used for IP network access without any BNS-2000/BNS-2000 VCS network connection. For more information about the DT-4000 please see the DT-4000 user manual, the BNS-2000 website <http://www.bns-2000.com>, or contact Dan Conklin at 908-580-4701.

This memo describes made to the *enter/change/verify/delete/remove/restore sam* commands:

1. Add *ipgate* option to the prompt COMPONENT [module, board, port]:

```
COMPONENT [module, board, port, ipgate]:
```

2. The enter sam module command was modified to add the new field *dt4000* in the prompt.

```
TYPE[sam8, sam16, sam64, sam504, dt4000]:
```

3. A new list containing higher baud rates are supported for the dt4000.

If TYPE is dt4000:

For asynchronous ports:

```
BAUD RATE [75, 110, 150, 300, 1200, 2400, 4800, 9600, 14400, 19200,  
28800, 38400, 48000, 57600, 115200, auto: +(auto)]:
```

For synchronous ports:

```
BAUD RATE [110, 300, 1200, 2400, 4800, 9600, 14400,  
19200, 28800, 38400, 48000, 57600: +(9600)]:
```

4. The enter/change sam ipgate commands are new options. The interface is shown as below:

CC0> enter sam ipgate

```
MODULE ADDRESS: 102
BOARD ADDRESS [1: +(1)]:
COMMENT [up to 60 chars double quoted]:

SERVICE TYPE [terminal, host: +(terminal)]:
GROUP [up to 8 chars]: boorig
PREDEFINED DESTINATION [+(none)]:
CONNECT-TIME BILLING [on, off: +(off)]:

PORT IP ADDRESS [decimal dot notation: +(none)]:
PORT NETWORK MASK [decimal dot notation: +(none)]:
LOCAL ROUTER IP ADDRESS [decimal dot notation: +(none)]:

INFO:
  Hit delete key to exit the loop

ROUTE ENTRY[0-7]: 1
ROUTE ACTION [delete, route, drop]: r
IP ADDRESS TO ROUTE [decimal dot notation]: 1.1.1.1
IP MASK [decimal dot notation]: 0.0.0.0

ROUTE ENTRY[0-7]:
INITIAL SERVICE STATE [in, out: +(out)]:
```

CC0> change sam ipgate

```
MODULE ADDRESS: 102
BOARD ADDRESS [1: +(1)]:
COMMENT [up to 60 chars double quoted, none: +()]:

SERVICE TYPE [terminal, host: +(terminal)]:
GROUP [up to 8 chars: +(boorig)]:
PREDEFINED DESTINATION [none: +(none)]:
CONNECT-TIME BILLING [on, off: +(off)]:

PORT IP ADDRESS [decimal dot notation: +(none)]: 0.0.0.0
PORT NETWORK MASK [decimal dot notation: +(none)]: 0.0.0.0
LOCAL ROUTER IP ADDRESS [decimal dot notation: +(none)]: 0.0.0.0

INFO:
  Hit delete key to exit the loop

ROUTE ENTRY[0-7]: 0
ROUTE ACTION [delete, route, drop: +(delete)]: r
IP ADDRESS TO ROUTE [decimal dot notation: +(none)]: 1.1.1.1
IP MASK [decimal dot notation: +(none)]: 0.0.0.0

CC0>
```

5. The verify sam port command for all ports on dt4000 also includes the ipgate information as below.

```
IPGATE PORT INFORMATION:
SERVICE TYPE: terminal          CONNECT-TIME BILLING: off
SERVICE STATE: in              GROUP NAME: boorig
PDD: none
COMMENT:
PORT IP ADDRESS: 1.2.3.4
PORT NETWORK MASK: 5.6.7.8
GATEWAY IP ADDRESS: 9.0.1.2

99-12-13 09:31:48 NODE=ren
verify sam port 10 1 1-16
ROUTE      ACTION      IPADDR          IPMASK
  1         route      1.1.1.1        1.1.1.1
```

6. New output report of verify sam ipgate command.

```
BOARD ADDRESS [1: +(1)]:

99-12-13 13:04:35 NODE=ren
M verify sam ipgate 102
MODULE ADDRESS: 102
MODULE TYPE: dt4000          NCHLS: 25
SERVICE STATE: in          SECS BEFORE DISCONNECT: 50
TRUNK TYPE: sams1          LINE SPEED: 56k
TOTAL BOARDS: 1
DOWNLOAD SERVER: controller
VERSION: standard
COMMENT:

IPGATE PORT INFORMATION:
SERVICE TYPE: terminal          CONNECT-TIME BILLING: off
SERVICE STATE: in              GROUP NAME: boorig
PDD: none
COMMENT:
PORT IP ADDRESS: none
PORT NETWORK MASK: none
GATEWAY IP ADDRESS: none

verify sam ipgate 102
ROUTE      ACTION      IPADDR          IPMASK
  0         route      1.1.1.1        2.2.2.2
  1         route      3.3.3.3        4.4.4.4
```

