



STR200 INTEGRATOR'S MANUAL



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INTRODUCTION

This manual guides integrators through installing, registering, configuring, validating, and troubleshooting an STR200 card in a COM400 or COM421 environment. Before beginning, verify that the chassis is installed, network access is available, and all required portal credentials, customer numbers, license files, and channel configuration files are ready.

OVERVIEW

The STR200 is a blade-style product designed for use in a Vantiva Commercial Video Solutions COM3000 environment.

The STR200 receives Widevine-encrypted video streams delivered through DASH (Dynamic Adaptive Streaming over HTTP) or HLS (HTTP Live Streaming). It converts those streams to MPEG-2 transport streams over IP for processing by the COM400 and subsequent distribution in a commercial multi-client or endpoint deployment.

Each STR200 will process up to sixteen encrypted streams.

A COM400 chassis supports up to six STR200 cards and up to two QAM4 or MOD16 ISDB-T/DVB-T modulators.

COM421 chassis will support up to 2 STR200s and one QAM4 or MOD16 ISDB-T / DVB-T modulator.

COM400 chassis is required for IPTV systems.

STR200 will pass through all H.264 or H.265 video formats and resolutions from the source.

STR200 will pass through all AC3 or AAC audio formats from the source, including Dolby AC3.

Output streams are user configurable for clear content or Pro:Idiom encryption.



SITE SURVEY

Prior to installation a site survey should be completed.

Survey should include:

Verify that the available Internet speed will accommodate the proposed channel lineup.

- 72 Mbps (16 channels * 4 Mbps/channel + 8 Mbps spare)

RF Distribution networks

- 0dBmV +/- 5dB
- Minimum MER 36

IPTV network

- Layer 2 enterprise level managed ethernet switches
- IGMP capable

Verify the environment is secure, clean, and dry with an ambient temperature between 5 and 45 degrees C.

Grounding / Bonding points are available to meet local regulations.

STR200 INSTALLATION

ENVIRONMENT

The COM system is designed to operate in a climate-controlled environment. Operational temperature should be between 5 and 45 degrees °C.

CHASSIS INSTALLATION

Insert the STR200 into any unused slot on a COM3000 or COM421 chassis.

Thumb screws should be “finger tight.”

STR200 is hot swappable. Powering off chassis is not necessary.

LED INDICATORS

Six LED indicators can be found on the front panel of the STR200.

PWR - Indicates the STR200 is connected to the chassis power supply

AT – Indicates Internet activity

LK – Indicates connection to the chassis backplane.

1- LED is on if the device is connected to the internet.

2 - LED is on when there are no OTT streaming errors.

3 – LED is on during normal operation, flashing if software is updating.



IP ADDRESS

STR200 card's default IP address is $192.168.3.(chassisId*16+slot+1)$.

The IP address can be changed manually. The STR200 card also receives a DHCP IP address if exposed to a network with a DHCP Server. To access the user interface:

- Connect a computer to the COM400 chassis.
- Set the computer's NIC card for a static IPV4 IP address of 192.168.3.254.
- Set a class B subnet mask of 255.255.0.0
- Enter the IP address in a browser. Chrome is recommended.

INITIAL CONFIGURATION

INTERNET CONNECTION

STR200 must be connected to the internet and the Vantiva CVS portal.

The STR200 will acquire a DHCP address from a network router if the router is configured to provide DHCP service.

The DHCP address can be verified by running the following command:

```
get > ifconfig
```

Optionally static IP addresses can be set using the config page set command

```
set
```

```
sys/ip #.#.#.#
```

```
sys/subnet #.#.#.#
```

```
sys/gw #.#.#.#
```

```
sys/dns #.#.#.#
```

Connections can be tested using set ping

```
$ set ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8): 56 data bytes
64 bytes from 8.8.8.8: seq=0 ttl=117 time=7.541 ms
64 bytes from 8.8.8.8: seq=1 ttl=117 time=6.293 ms
64 bytes from 8.8.8.8: seq=2 ttl=117 time=6.469 ms
64 bytes from 8.8.8.8: seq=3 ttl=117 time=6.136 ms
```

INITIAL STR200 CONFIGURATION

First step in configuring the STR200 is connection to the Vantiva portal.

The following information must be entered:

The STR200 needs a unique name which is set via the command “set **info** <name>”. The name should be:

- Less than 16 alphanumeric characters
- No space or special characters allowed.

The STR200 must specify which userId the STR200 belongs. Set the userId via the command “set **userId** #”, where the number is company specific.

By default, the customer number is zero. This can be seen from the command “get customer”.

get ▼ customer ▼ Submit

```
$ get customer ##
0
```

In some circumstances the customer number must be changed so that the list of channels is acquired from the company's server. For these customers, the command “set **customer** <value>” must be used. The <value> is customer specific.

set ▼ customer ▼ Submit

Once a STR200 is registered it will appear on the Vantiva CVS portal List page:

Vantiva CVS Portal



[Cmds](#), [Log](#), [Audit](#), [Events](#), [Errors](#), [List](#), [Logout:perucha1-1](#)

ChipId:
 Command:
 Submit

chipId	type	info	active	error
06008538A23F42CF	STR200	Mexico-2	1	

QAM4 CONFIGURATION

The QAM4 is an agile edge QAM modulator. Output is 32dBmV QAM256. For more information on the QAM4 refer to QAM Commands in this manual or the COM3000 Integrators manual on the Vantiva website.

The QAM4 comes with 4 QAM carriers enabled by default. To enable more QAM4 carriers, use the Vantiva licensing portal to create a "qam20_<mac>_<count>.lic" upgrade file. The QAM4 MAC address is needed to create a license. Contact your Vantiva sales representative for pricing.

The QAM4 MAC address can be found using the get > qam/info command.

get ▼ help ▼ Submit

```
$ get qam/info
Version SW=1.4.21; HW=3.1
chassisId = 1; tempC = 50
AlternateIp: 225.100.0.0
AlternateIP2: 0.0.0.0
tftpIp = 192.168.3.18
MacAddress: 48:1b:40:29:18:cb
CarrierCount: 48
config: 0 0 0 0 0 0 0 0 0 0 0
```

Download the license to a folder on a computer connected to the COM chassis.
Use the STR200 upload function to browse for and upload the license.

[Help](#), [Channels](#), [Status](#), [Tune](#), [TuneList](#), [Config](#), [All](#), [Save](#), [Audit](#), [Account](#), [Logout-admin](#), [Upload](#)

qam20_5c2...ffb44b_16.lic

Use the set tftpip command to set the tftp IP address (IP of the card the license was uploaded to): set qam/tftpip #.#.#.#. Normally the IP address will be 192.168.3.18.

Use set > qam/download qam20_MAC_count.lic

Example:

Set QAM4 output channels

Use set > qam/control command:

The qam/control command consists of three numerical values, examples of which are shown below:

1 23 48 This command will set qam index 1 to output RF channel 23 and set all licensed qam indexes in sequential order. Use 48 to include all tuners.

Other examples of qam/control commands:

2 50 1 changes only index 2 to output channel 50

3 0 1 closes index 3

1 10 5 sets index 1 to ch 5 and the following 5 tuners to 6-10

QAM4 settings can be verified using get qam/config

Index	Port	Freq:	Bitrates
1	16	23:	4.3 3.6 6.2 0.0 0.0 0.0
2	32	24:	3.2 0.0 0.0 0.0 0.0 0.0
3	48	25:	3.8 0.0 0.0 0.0 0.0 0.0
4	64	26:	0.0 0.0 0.0 0.0 0.0 0.0
5	80	27:	0.0 0.0 0.0 0.0 0.0 0.0
6	96	28:	0.0 0.0 0.0 0.0 0.0 0.0

Column one is the QAM index

Column two is the assigned port base for each index. Transport streams are routed to the port base plus the program number. For example, a transport stream assigned to 192.168.6.2:17 would output on channel 23-1, port 18 would output on channel 23-2, and port 33 would output on channel 24-1.

Once streams are assigned to an IP:Port the bitrate will be displayed

STR200 USER INTERFACE

STR200



[Help](#), [Channels](#), [Status](#), [Tune](#), [TuneList](#), [Config](#), [All](#), [Save](#), [Audit](#), [Account](#), [Logout-admin](#), [Upload](#)

Command:

The section below will provide a description of each of the STR200 functions:

HELP

Selecting the “Help” icon will display the message below and sample commands for system setup:

\$ get help

The STR200 can be controlled via Command line from the main page or via the Config tab using the Get / Set options.

Command line input allows more specific control over some individual functions, while the Config tab offers quick and easy access to most functions. Below are examples of command line entries.

```
<get/set> <item> <value>
get help [extra | example | factory]
get channels [-full] [-raw]
get status
get/set stream#/ip #.#.#.##
get/set stream#/channel #
set stream#/close
get/set info <info>
set save
```

CHANNELS

The channels icon will display all streams available to the card:

\$ get channels				
number	name	height	lang	pi
51	Test stream 1	300	eng	0
52	Test stream 2	300	eng	0
53	Test Stream 3	300	eng	0
102	Test Stream 4	300	eng	0
103	Test Stream 5	300	eng	0
106	Test Stream 6	300	eng	0
107	Test Stream 7	300	eng	0

STATUS

Status screen reports IP address and port, packets, and bitrates for each filter / tuned stream.

\$ get status					
stream	channel	name	ip:port	packets	bitrate
0	142	Enc720	192.168.4.119:5000	1158164	8.928
1	141	Enc480	192.168.4.119:5001	141883	2.632
2	140	Enc300	192.168.4.119:5002	69111	1.137
3	130	Clear300	192.168.4.119:5003	76293	0.905
4	0	NA	0.0.0.0:0	0	0.000
Sum	-	-	-	-	13.602

TUNE

Tune screen is used to assign a channel and destination IP.

Select a filter (0-15)

Select a channel from the drop down menu

Input the IP:Port number.

Stream= Channel= IP:port=

In the example above Stream filter 0 was assigned channel Clear 720, it will stream to 192.168.3.18 port 17.

When the Submit button is clicked, the channel will display in the \$ get status field below. Run set save after confirming the stream assignment if the configuration should remain after reboot or power loss.

\$ get status

stream	channel	name	ip:port	packets	bitrate
0	132	Clear720	192.168.3.18:17	843024	10.244
1	133	Clear1080	192.168.3.18:18	2093035	23.383
2	131	Clear480	192.168.3.18:19	91889	2.137

TUNE LIST

The tune list will display a text field containing all tuned streams. This should be saved as a text file in the event a STR200 needs to be reprogrammed or replaced.

Text is:

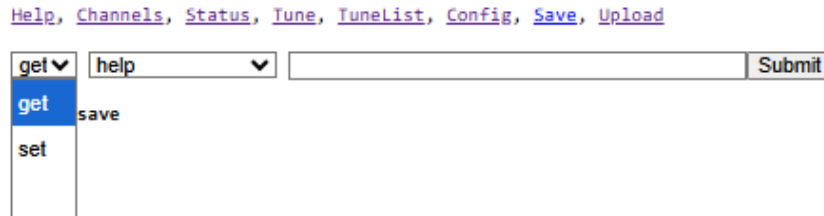
Tuner filter channel number IP:port

```
stream channel ip:port
0 132 192.168.3.18:17
1 133 192.168.3.18:18
2 131 192.168.3.18:19
```


The tune list can be edited to change the channel and IP on each tuner filter, then click Submit at the bottom of the TuneList field.

CONFIG

The Config screen sets all STR200 configuration settings. It has two basic functions: get and set. The get function retrieves information, while the set function configures a selected setting.



In many cases the get function will link to another tab on the STR200: For example; The get / help function opens the help page. The table below details many of the get and set commands.

SET COMMANDS

set save	Saves all changes	Same as Save tab
set info <info>	Provides card unique identifier	Used by Web Portal to identify cards.
set userId #	Sets User ID for registration with the remote portal	Enter User ID number provided to you by Vantiva
set level3	Clears Widevine level 3 authorization cache	A reboot will cause the STR200 card to re-authorize with a Widevine server. This command may be needed when updating from old code or if there are Widevine decryption issues.
set customer #	Sets predetermined, customer specific, settings (Not to be confused with User ID)	Enter Customer Number provided by Vantiva. Only non-zero if channels.xml is configured by a customer server.
set factoryReset	Clears all settings and returns unit to factory settings	Will reboot after erasing all flash storage.
set reboot	Reboots STR200	
set sys/ip #.#.#.# sys/subnet #.#.#.# sys/gw #.#.#.# sys/dns #.#.#.#	Sets system information	After completion, save, then reboot. STR200 will be accessible at the new IP address
set ping <IP>	Pings an IP address	Set ping 192.168.3.18

	<pre>\$ set ping 193.168.3.18 PING 193.168.3.18 (193.168.3.18): 56 data bytes 64 bytes from 193.168.3.18: seq=0 ttl=45 time=132.541 ms 64 bytes from 193.168.3.18: seq=1 ttl=45 time=133.017 ms 64 bytes from 193.168.3.18: seq=2 ttl=45 time=130.915 ms 64 bytes from 193.168.3.18: seq=3 ttl=45 time=130.857 ms --- 193.168.3.18 ping statistics --- 4 packets transmitted, 4 packets received, 0% packet loss round-trip min/avg/max = 130.857/131.832/133.017 ms</pre>
set download URL/file	Downloads a software update or new channels.xml. <pre>\$ set download https://cvs.vantiva.com/dat/channels.xml</pre>
set password <password>	Sets Password for access to STR200 UI
set lock	Locks STR200 UI
set unlock <password>	Unlocks STR200 with password
set stream#/ip #.#.#.# set stream#/channel #	Sets channel and IP:port on the STR 200 (same as the tune tab). Settings for stream 0 – 15 <pre>\$ set stream0/ip 192.168.4.119:5000 \$ set stream0/channel 140 \$ set stream1/ip 192.168.4.119:5001</pre>
set speedtest	Run “set speedtest”, wait 60 seconds and then run again.

GET COMMANDS

get help	Navigates to help page
get status	Navigates to status tab
get userId	Displays User Id set for Portal
get customer	Displays Customer number
get sys/ip sys/subnet sys/gw sys/dns	Retrieves IP information set in STR200 Returns 0.0.0.0 if default is used

get ifconfig	Displays IF config
eth0	<pre> Link encap:Ethernet HWaddr EC:93:7D:E0:18:D2 inet addr:192.168.3.185 Bcast:192.168.255.255 Mask:255.255.0.0 UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:13525368 errors:0 dropped:7706 overruns:0 frame:0 TX packets:15020950 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:19593726420 (18.2 GiB) TX bytes:19524191510 (18.1 GiB) </pre>
eth0:2	<pre> Link encap:Ethernet HWaddr EC:93:7D:E0:18:D2 inet addr:192.168.3.23 Bcast:192.168.255.255 Mask:255.255.0.0 UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 </pre>
eth1	<pre> Link encap:Ethernet HWaddr EC:93:7D:E0:18:D3 inet addr:192.168.99.1 Bcast:192.168.99.255 Mask:255.255.255.0 UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:257658 errors:0 dropped:0 overruns:0 frame:0 TX packets:257691 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:349899564 (333.6 MiB) TX bytes:349944378 (333.7 MiB) </pre>
lo	<pre> Link encap:Local Loopback inet addr:127.0.0.1 Mask:255.0.0.0 UP LOOPBACK RUNNING MTU:65536 Metric:1 RX packets:7708 errors:0 dropped:0 overruns:0 frame:0 TX packets:7708 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:878394 (857.8 KiB) TX bytes:878394 (857.8 KiB) </pre>
default via 192.168.0.1 dev eth0	
127.0.0.0/8 dev lo scope link	
192.168.0.0/16 dev eth0 scope link src 192.168.3.185	
192.168.99.0/24 dev eth1 scope link src 192.168.99.1	
get syslog	Displays system log file Helpful when troubleshooting Copy and paste before rebooting
get showTime	Controls if the syslog show seconds since boot for each line.
get stream#/ip get stream#/channel	Displays IP and stream information for each tuner filter. Same information as Status tab.

QAM COMMANDS

get qam	The IP address after the “qam” string is only needed when the QAM4 IP address isn’t 192.168.6.2. get qam192.168.6.18 Shows the output bitrates. \$ get qam Index Freq Bitrates 1 23: 0.7 0.0 0.0 0.0 2 24: 0.0 0.0 0.0 0.0 3 25: 0.0 0.0 0.0 0.0 4 26: 0.0 0.0 0.0 0.0 ...
get qam/info	\$ get qam/info Version SW=1.4.34; HW=3.1 chassisId = 1; tempC = 62 AlternateIp: 225.101.0.0 AlternateIP2: 0.0.0.0 tftplp = 192.168.3.49 MacAddress: 80:c6:ab:c0:04:0f CarrierCount: 48 config: 0 0 0 0 0 0 0 0 0 0 0
get qam/log	\$ get qam/log QamLog: litemp=58 temp=59 litemp=58 temp=59 =58 temp=59
set qam/control	index,freq,count To set the output frequencies to 23, 24, 25, ... \$ set qam/control 1,23,48
set qam/ip #.#.#.#	To define the QAM4 alternate IP address \$ set qam/ip 260.1.2.3
set qam/tftplp #.#.#.#	To upgrade the QAM4 software: set qam/download filename \$ set qam/tftplp 192.168.3.18 \$ set qam/download qam20_main_image_v1.4.34.bin
set qam/reset	Reset the QAM4 \$ set qam/reset

SAVE

Click Submit on the Save screen to store all current configuration settings; no command-line entry is needed. If you do not save the configuration, all unsaved settings will be lost when the STR200 is rebooted or powered off.

[Help](#), [Channels](#), [Status](#), [Tune](#), [TuneList](#), [Config](#), [Save](#), [Upload](#)

Command:

\$ set save

UPLOAD

Upload files such as software and channel configurations to STR200.

No file chosen

SETTING CHANNELS

The provider must define input streams. Information is input to the system by uploading a channels.xml file.

File name must be channels.xml

Below is the required format for the XML file:

```
<channels>
//Format of a channel
<channel>
<number>ChannelNumber</number>
<name>ChannelName</name>
<desc>OptionalDescription</desc>
<provider>OptionalProvider</provider>
<url>ManifestURL</url>
<height>OptionalHeight</height>
<lang>OptionalLanguage</lang>
<proxy>OptionalWidevineProxyKeyServerURL</proxy>
<pi>OptionalIsProdiomEncrypted</pi>
</channel>
```

UPLOADING CHANNELS.XML

The channels.xml file can be updated in three ways:

HTTP upload:

WebUI -> Upload -> Choose File -> channels.xml -> Upload

TFTP upload:

WebUI -> set tftplp #.#.#.# -> set tftp channels.xml

HTTP download:

WebUI -> set download <http://server/channels.xml>

Software upgrades can be uploaded using the same methods.

TROUBLESHOOTING

STR200 STATUS PAGE

Verify stream destination ip:port, and bitrate

\$ get status

stream	channel	name	ip:port	packets	bitrate
0	132	Clear720	192.168.6.2:17	1081192	10.012
1	132	Clear720	192.168.6.2:18	536746	9.391

CONFIG > GET > INFO

Verify latest SW release, and STR200 device name

\$ get info

STR200 Version: 01.00.63_rel; Sep 10 2026 18:56:55
 Chassis 2; Slot 2; HwId 3; BoardId 1
 IP 192.168.3.35; MAC EC:93:7D:E0:19:23
 deviceId 0600853899C32D26
 Uptime 5:2:50:56
 streamCount 16

CONFIG > GET > QAM

Verify QAM bitrate and channel assignments

\$ get qam

Index Port Freq: Bitrates

1	16	23:	7.6	8.9	0.0	0.0	0.0	0.0
2	32	24:	0.0	0.0	0.0	0.0	0.0	0.0
3	48	25:	0.0	0.0	0.0	0.0	0.0	0.0
4	64	26:	0.0	0.0	0.0	0.0	0.0	0.0
5	80	27:	0.0	0.0	0.0	0.0	0.0	0.0
6	96	28:	0.0	0.0	0.0	0.0	0.0	0.0

GET IFCONFIG

Verify IP settings correct

```
$ get ifconfig
eth0      Link encap:Ethernet  HWaddr EC:93:7D:E0:19:23
          inet addr:192.168.3.94  Bcast:192.168.255.255  Mask:255.255.0.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:1765528 errors:0 dropped:501260 overruns:0 frame:0
          TX packets:19394 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:281932844 (268.8 MiB)  TX bytes:1495530 (1.4 MiB)

eth0:2    Link encap:Ethernet  HWaddr EC:93:7D:E0:19:23
          inet addr:192.168.3.35  Bcast:192.168.255.255  Mask:255.255.0.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1

eth1      Link encap:Ethernet  HWaddr EC:93:7D:E0:19:24
          inet addr:192.168.99.1  Bcast:192.168.99.255  Mask:255.255.255.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:17109383 errors:0 dropped:0 overruns:0 frame:0
          TX packets:17111490 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:23234542114 (21.6 GiB)  TX bytes:23237403420 (21.6 GiB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:294529 errors:0 dropped:0 overruns:0 frame:0
          TX packets:294529 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:36964791 (35.2 MiB)  TX bytes:36964791 (35.2 MiB)

default via 192.168.0.1 dev eth0
127.0.0.0/8 dev lo scope link
192.168.0.0/16 dev eth0 scope link  src 192.168.3.94
192.168.99.0/24 dev eth1 scope link  src 192.168.99.1
```

PING

Verify network connectivity

```
$ set ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8): 56 data bytes
64 bytes from 8.8.8.8: seq=0 ttl=117 time=8.369 ms
64 bytes from 8.8.8.8: seq=1 ttl=117 time=6.059 ms
64 bytes from 8.8.8.8: seq=2 ttl=117 time=6.691 ms
64 bytes from 8.8.8.8: seq=3 ttl=117 time=6.097 ms

--- 8.8.8.8 ping statistics ---
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 6.059/6.804/8.369 ms

$ set ping google.com
PING google.com (142.251.178.138): 56 data bytes
64 bytes from 142.251.178.138: seq=0 ttl=105 time=21.171 ms
64 bytes from 142.251.178.138: seq=1 ttl=105 time=19.039 ms
64 bytes from 142.251.178.138: seq=2 ttl=105 time=19.478 ms
64 bytes from 142.251.178.138: seq=3 ttl=105 time=19.080 ms
```

SPEEDTEST

Running a speed test may aid in troubleshooting poor picture quality. To run a speed test, "set speedtest", wait 60 seconds, then "set speedtest" to see the results. The last column shows the Mbytes per second that was seen. This should be above 8 MB/sec if no channels are playing and more than 1 Mbytes/sec after starting all the channels, or system problems may occur.

```
$ set speedtest
% Total      % Received % Xferd  Average Speed   Time    Time       Time   Current
                               Dload  Upload    Total   Spent    Left     Speed

  0          0    0      0    0      0      0      0      0      0      0      0      0
16 155.2M   16 25.60M   0      0 24.08M   0    00:06   00:01   00:05 25.52M
38 155.2M   38 59.46M   0      0 28.79M   0    00:05   00:02   00:03 29.65M
60 155.2M   60 93.18M   0      0 30.39M   0    00:05   00:03   00:02 30.99M
81 155.2M   81 127.0M   0      0 31.23M   0    00:04   00:04         31.69M
97 155.2M   97 151.6M   0      0 29.90M   0    00:05   00:05         30.26M
100 155.2M 100 155.2M   0      0 28.90M   0    00:05   00:05         30.26M
100 155.2M 100 155.2M   0      0 28.90M   0    00:05   00:05         30.26M
100 155.2M 100 155.2M   0      0 28.90M   0    00:05   00:05         30.26M
```

CONFIG> GET> SYSLOG

Retrieve syslog information at the request of Vantiva support.

REBOOT

Config> Set> Reboot