

KINEMETRICS GRANITE AND BASALT

Antelope User's Group
March 21-23/2011



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New Features in v3.7 (and beyond)

New Features (Antelope Specific)

▣ dlmon support, via pfst.cfg:

```
#=====
# Status conversion file
#=====
#
# Used to convert system status information into data elements useable by Antelope.
#
# Each line contains one variable as follows:
#
# pfstvarname rhvarname flags
#
# Where:
# - pfstvarname = Variable name inserted into the pf/st packet
# - rhvarname = Variable name found in Rockhound runtime parameters
# - Flags:
#   *Scale = Multiplier scale factor
#   Fx = Formatting of digits (number of places)
#   >x = Only display if greater than x
#   >85:t >95:l = Conversion of values to strings (if greater than x)
#   Drhvar = Delta (difference) vs another Rockhound parameter
#   P = This is a persistent parameter
#   Nx = Display as 'x' if null
#   H = Hardcoded parameter
```

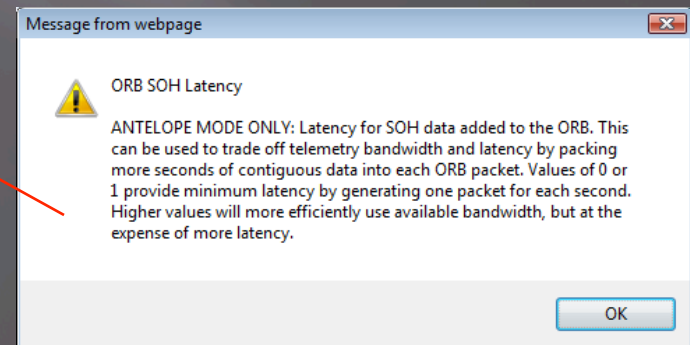
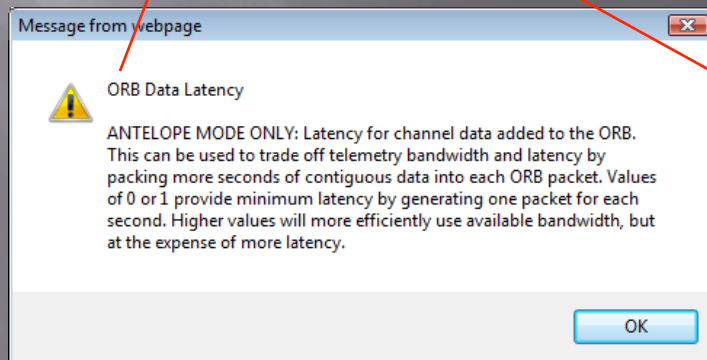
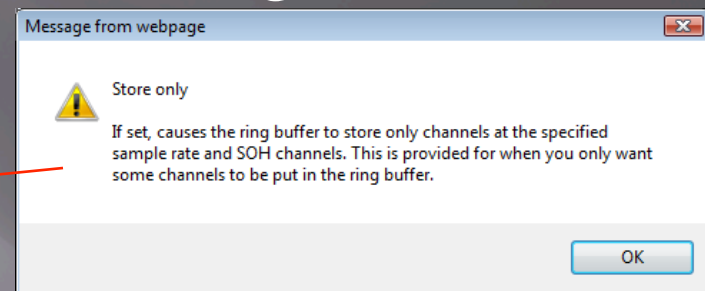
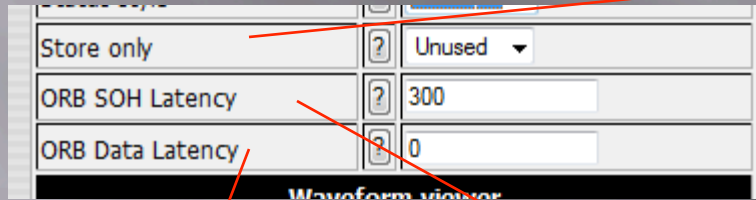
Status Interval	?	30
Status style	?	Antelope
Store only	?	Unused
...	?	...

New Features (Antelope Specific)

aa	dig1.LocalGPSAntCurrent	*0.001	F3	
cld	dig1.LocalTxoDrift	*0.001		
clq	dig1.LocalClockQuality	>0:?	>85:t	>95:l
clt	dig1.LocalGPSLockChanged	*0.001	F3	
da	dig1.LocalRockCurrent	*0.001	F3	
dg	DataIntegrator.NMissingGroups			
dh	dig1.LocalHumidity			
dlt	dig1.LocalTimeSinceDataArrival	*0.001	F3	
dt	dig1.LocalTemperature			
dv	dig1.LocalRockDCVolts			
elev	dig1.LocalGPSAltitude	*0.001	F3	
esn	dig1.LocalESerialNumber			
gp1	gp1	H		
gp24	gp24	H		
lat	dig1.LocalGPSLatitude			
lcq	dig1.LocalClockQuality			
lon	dig1.LocalGPSLongitude			
m0	dig1.bd0.LocalMassPos1	*0.001	F3	
m1	dig1.bd0.LocalMassPos2	*0.001	F3	
m2	dig1.bd0.LocalMassPos3	*0.001	F3	
nc	dig1.NPhysicalChannels			
nrb	NStartups	P		
nr24	nr24	H		
rtm	rtm	H	*0.001	F3
sn	dig1.LocalSerialNumber			
trb	SMARTS.SystemStartTime	*0.001		
vco	dig1.LocalTxoDAC			

New Features (Antelope Specific)

Packet latency and channel limiting:



New Features (Antelope Specific)

dlcmd support:

Commands supported: userstat, kbtri, snsca, rockdspcmd, rockgpssoh, snslock, snsunlock, snsmassctr, snsstep, snsunstep, batttest, extchargertest, noisetest, defdeck.

Also supported is 'reboot', which restarts Rockhound and the alias commands massrecenter, masslock, massunlock, and calibrate.

New Features (Antelope Specific)

SOH channel identification:

Advanced parameters in hardware config allow control over SOH:

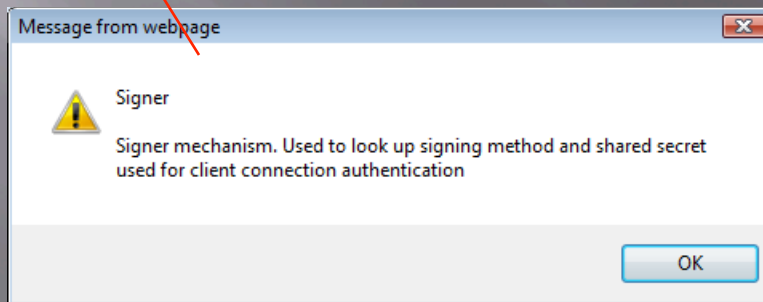
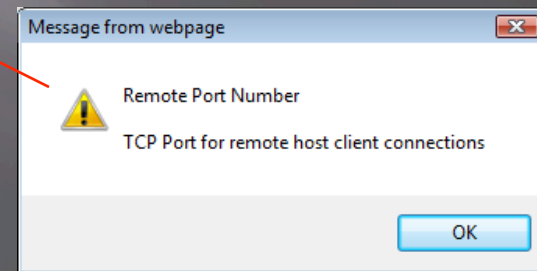
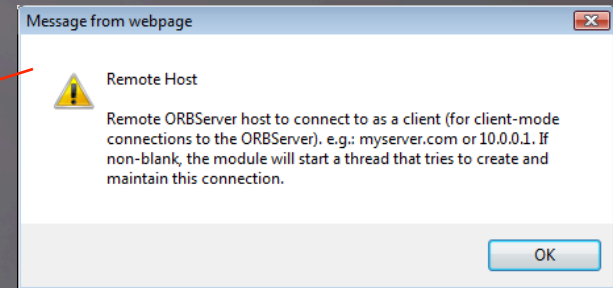
- Channel
- Network ID
- Station ID
- Calper
- Location Code
- Network ID
- Calib
- Segment Type

SOH deg NwId (Advanced)	?	<input type="text"/>
SOH hum NwId (Advanced)	?	<input type="text"/>
SOH vwb NwId (Advanced)	?	<input type="text"/>
SOH vep NwId (Advanced)	?	<input type="text"/>
SOH ... NwId (Advanced)	?	<input type="text"/>

New Features (Antelope Specific)

Client mode:

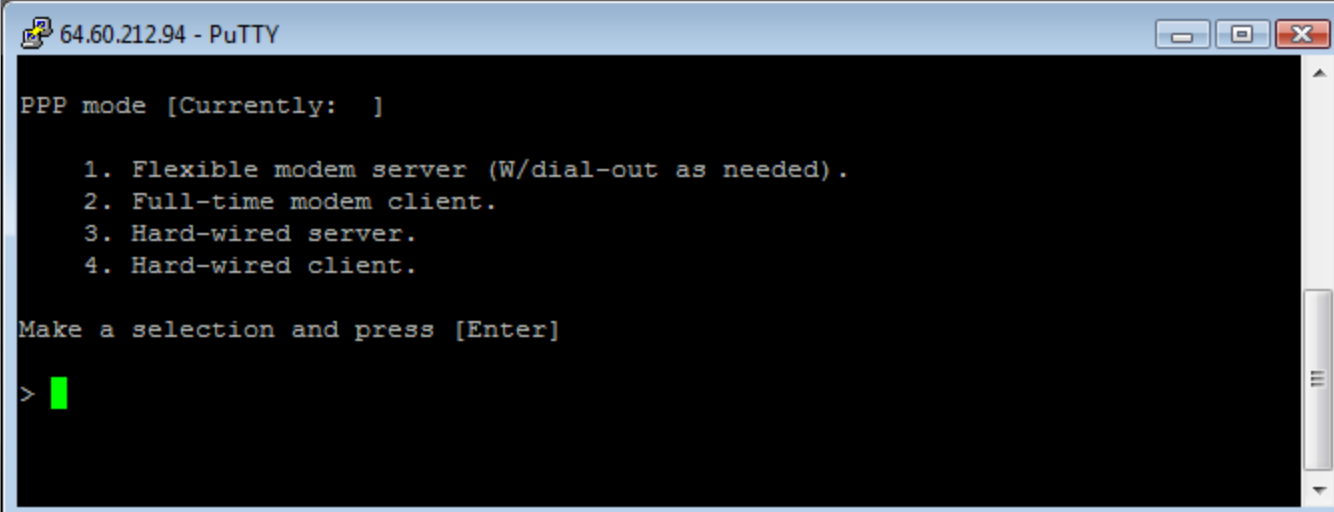
Remote Host	?	10.0.1.220
Remote Port Number	?	16001
Signer	?	invite



New Features (Antelope Specific)

PPP dial-in, dial-out support:

- Normal is PPP server
- Switches to PPP client on dial out
- Can dial-out on for reasons such as trigger, SOH, or periodic



```
64.60.212.94 - PuTTY
PPP mode [Currently: ]

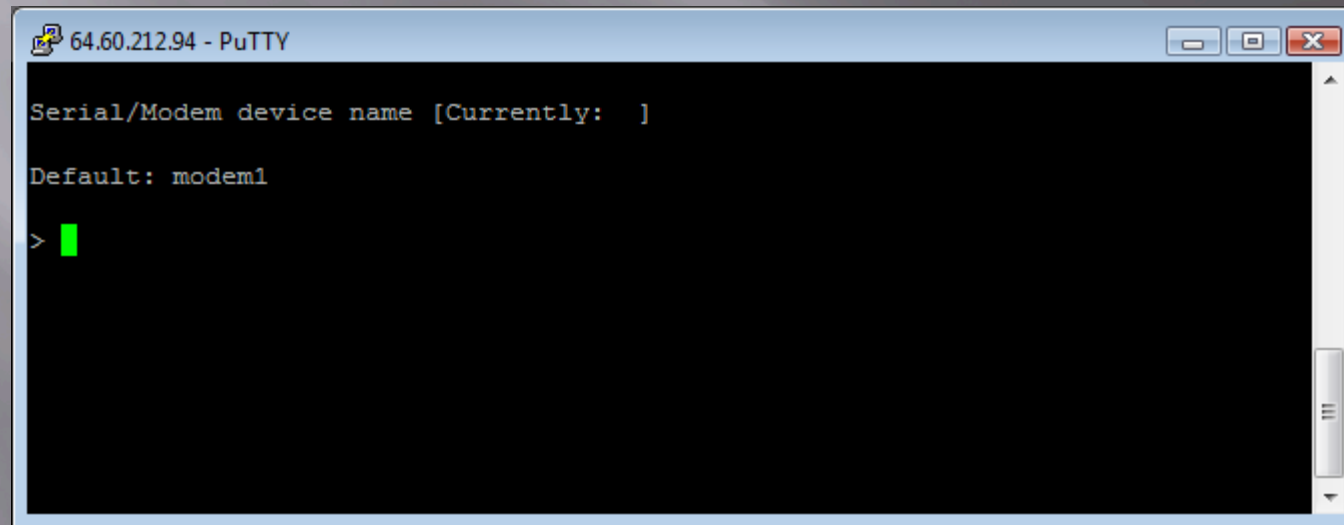
  1. Flexible modem server (W/dial-out as needed).
  2. Full-time modem client.
  3. Hard-wired server.
  4. Hard-wired client.

Make a selection and press [Enter]
> █
```

New Features (Antelope Specific)

PPP dial-in, dial-out support:

Select the modem:

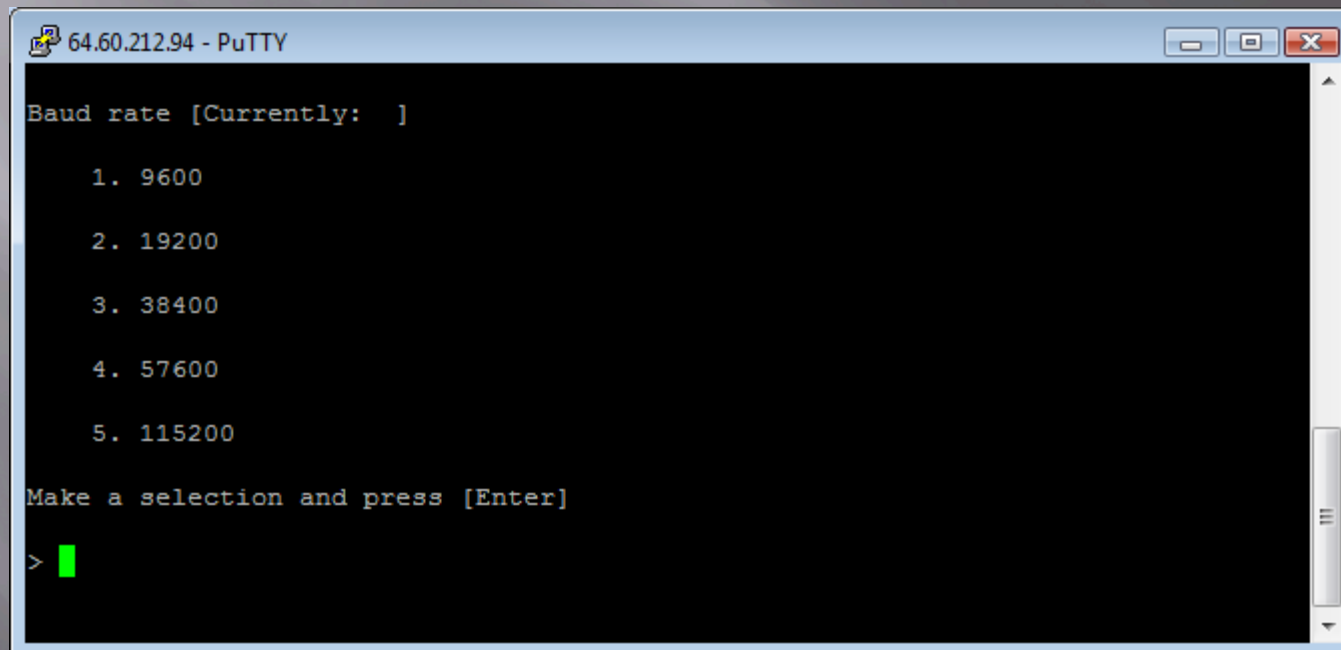
A screenshot of a PuTTY terminal window. The title bar reads "64.60.212.94 - PuTTY". The terminal content shows a prompt "Serial/Modem device name [Currently:]" followed by "Default: modem1" and a green cursor on a line starting with ">".

```
64.60.212.94 - PuTTY
Serial/Modem device name [Currently: ]
Default: modem1
>
```


New Features (Antelope Specific)

PPP dial-in, dial-out support:

Set the baud rate:



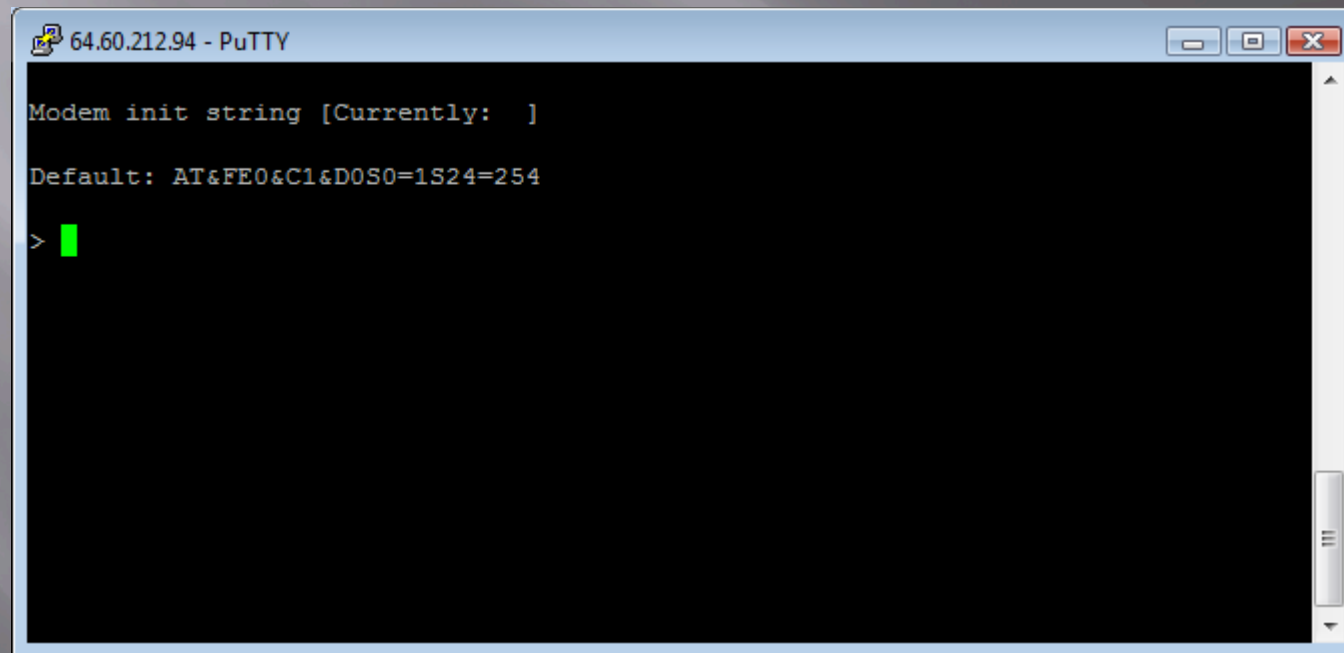
The image shows a screenshot of a PuTTY terminal window. The title bar reads "64.60.212.94 - PuTTY". The terminal content is as follows:

```
Baud rate [Currently: ]  
  
1. 9600  
  
2. 19200  
  
3. 38400  
  
4. 57600  
  
5. 115200  
  
Make a selection and press [Enter]  
> █
```

New Features (Antelope Specific)

PPP dial-in, dial-out support:

Set the modem initialization string:



A screenshot of a PuTTY terminal window titled "64.60.212.94 - PuTTY". The window has a black background with white text. The text displayed is:

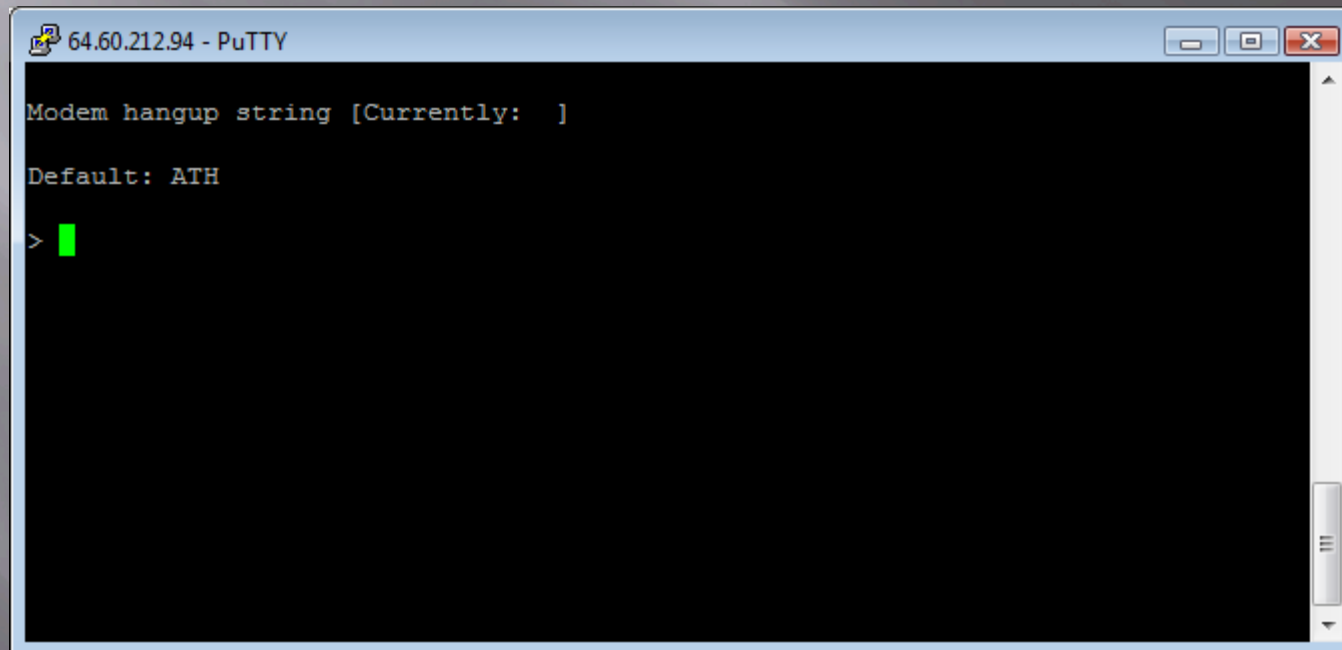
```
Modem init string [Currently: ]  
Default: AT&FE0&C1&D0S0=1S24=254  
> █
```

The cursor is a green block character on the line following the prompt ">". The window includes standard Windows-style window controls (minimize, maximize, close) in the top right corner and a vertical scrollbar on the right side.

New Features (Antelope Specific)

PPP dial-in, dial-out support:

Set the modem hangup string:

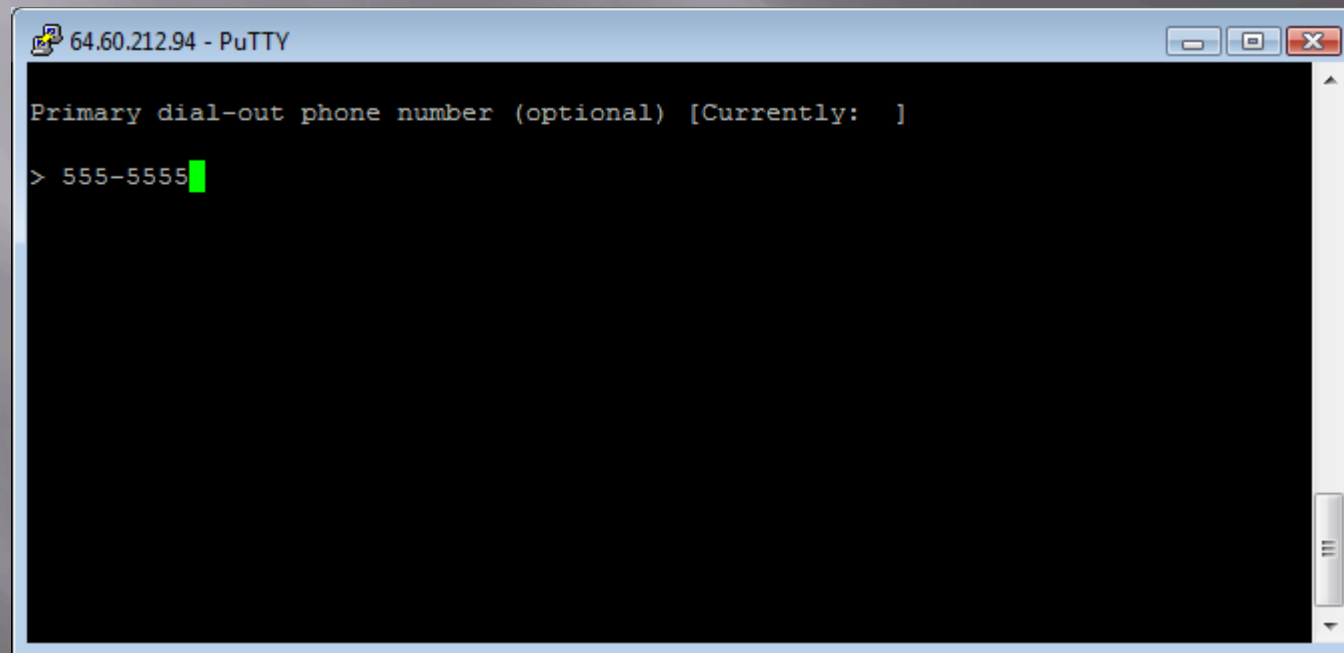


```
64.60.212.94 - PuTTY
Modem hangup string [Currently: ]
Default: ATH
> █
```

New Features (Antelope Specific)

PPP dial-in, dial-out support:

Set the primary phone number:



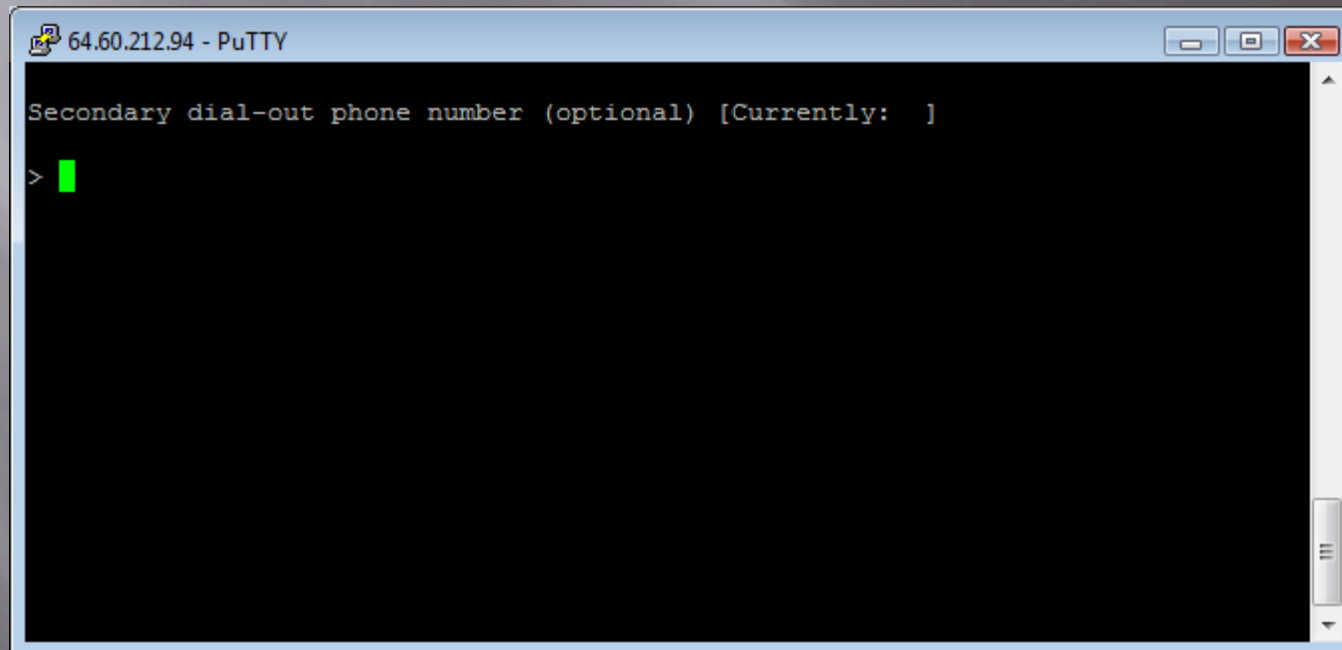
```
64.60.212.94 - PuTTY
Primary dial-out phone number (optional) [Currently: ]
> 555-5555
```

The image shows a PuTTY terminal window with a blue title bar. The title bar contains the text "64.60.212.94 - PuTTY" and standard window control buttons (minimize, maximize, close). The terminal area has a black background with white text. The prompt "Primary dial-out phone number (optional) [Currently:]" is displayed. Below the prompt, the user has entered the phone number "555-5555", which is followed by a green cursor block.

New Features (Antelope Specific)

PPP dial-in, dial-out support:

Set the secondary phone number:

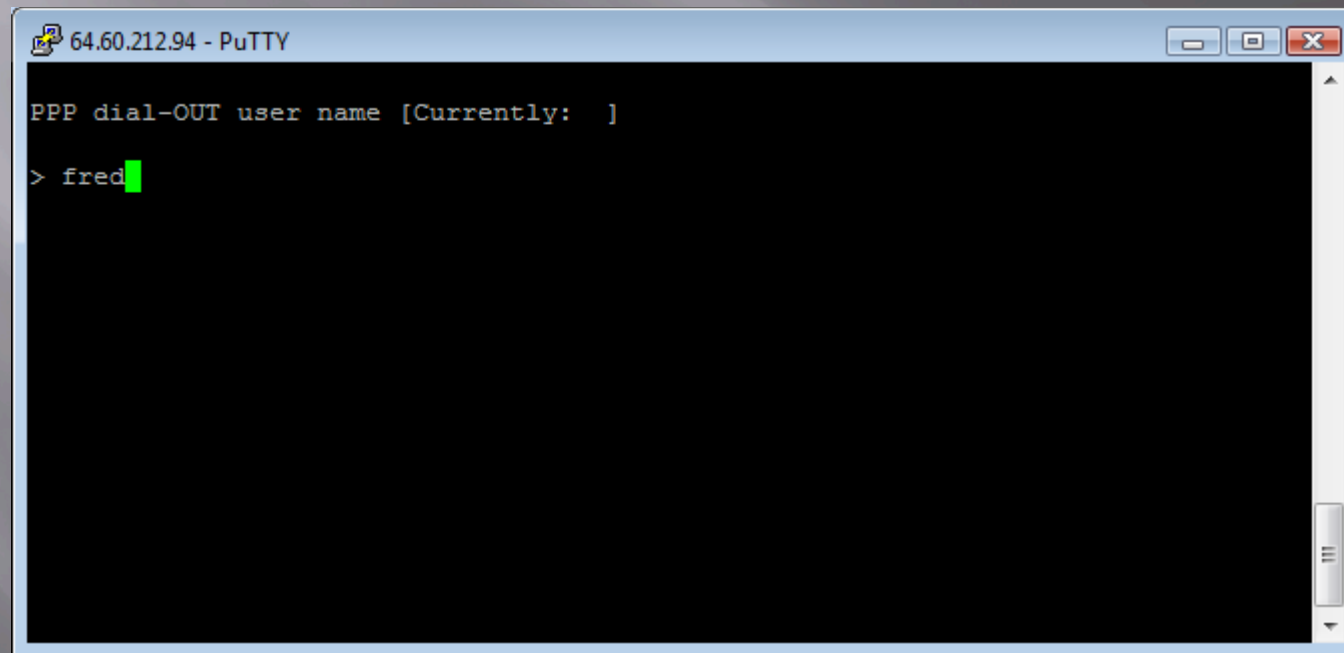


```
64.60.212.94 - PuTTY
Secondary dial-out phone number (optional) [Currently: ]
> █
```

New Features (Antelope Specific)

PPP dial-in, dial-out support:

Set the user name for PPP dial-out (host user):



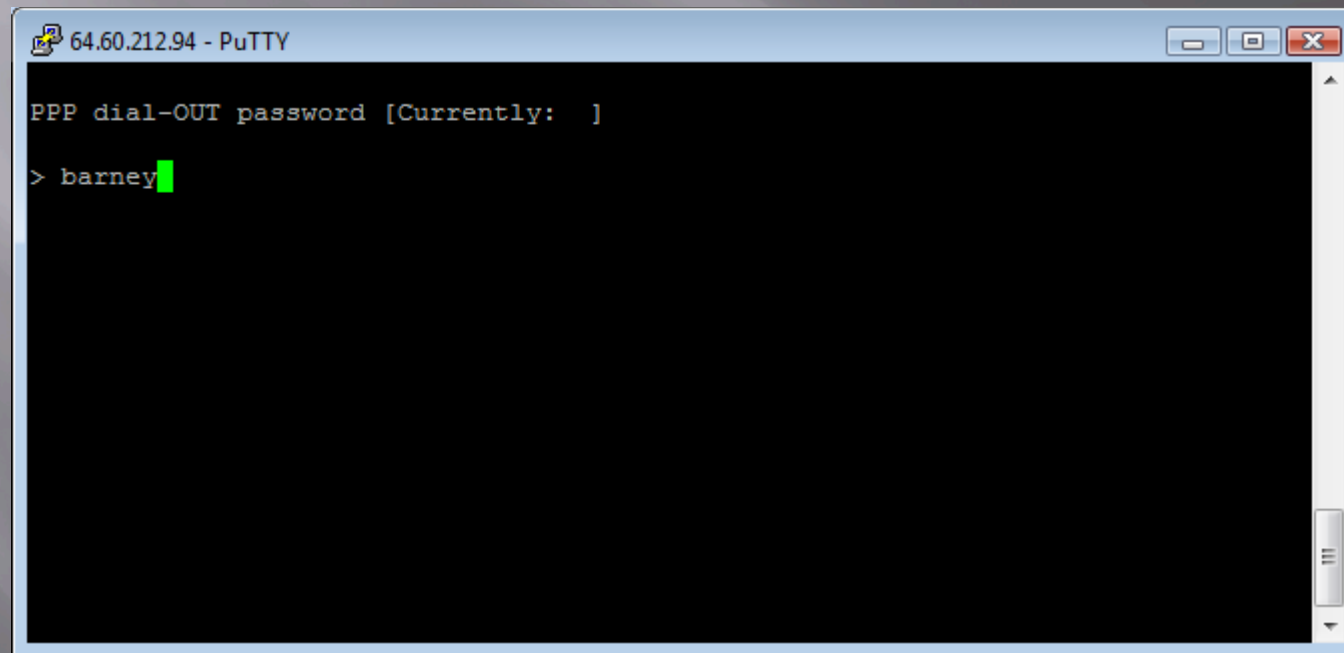
```
64.60.212.94 - PuTTY
PPP dial-OUT user name [Currently: ]
> fred
```

The image shows a screenshot of a PuTTY terminal window. The title bar reads "64.60.212.94 - PuTTY". The terminal content shows a prompt "PPP dial-OUT user name [Currently:]" followed by the user input "> fred". A green cursor is visible at the end of the input.

New Features (Antelope Specific)

PPP dial-in, dial-out support:

Set the password for PPP dial-out (host):

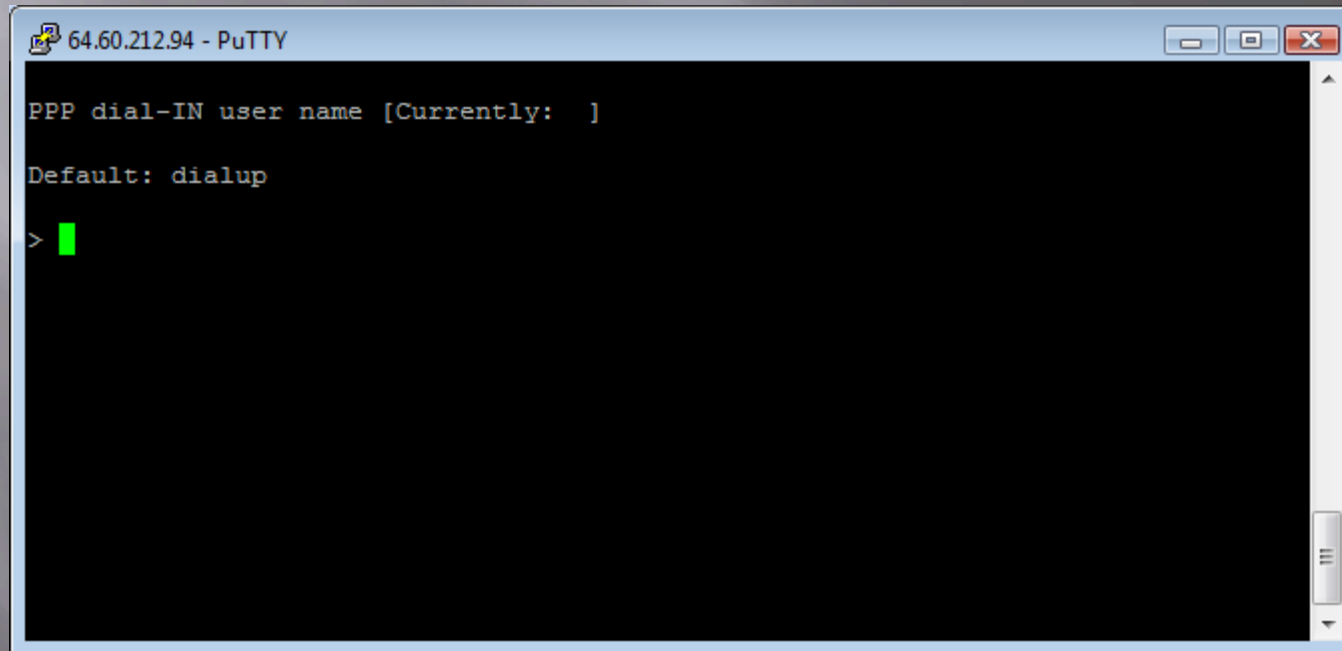


```
64.60.212.94 - PuTTY
PPP dial-OUT password [Currently:  ]
> barney
```

New Features (Antelope Specific)

PPP dial-in, dial-out support:

Set the user name for PPP dial-in (digitizer):

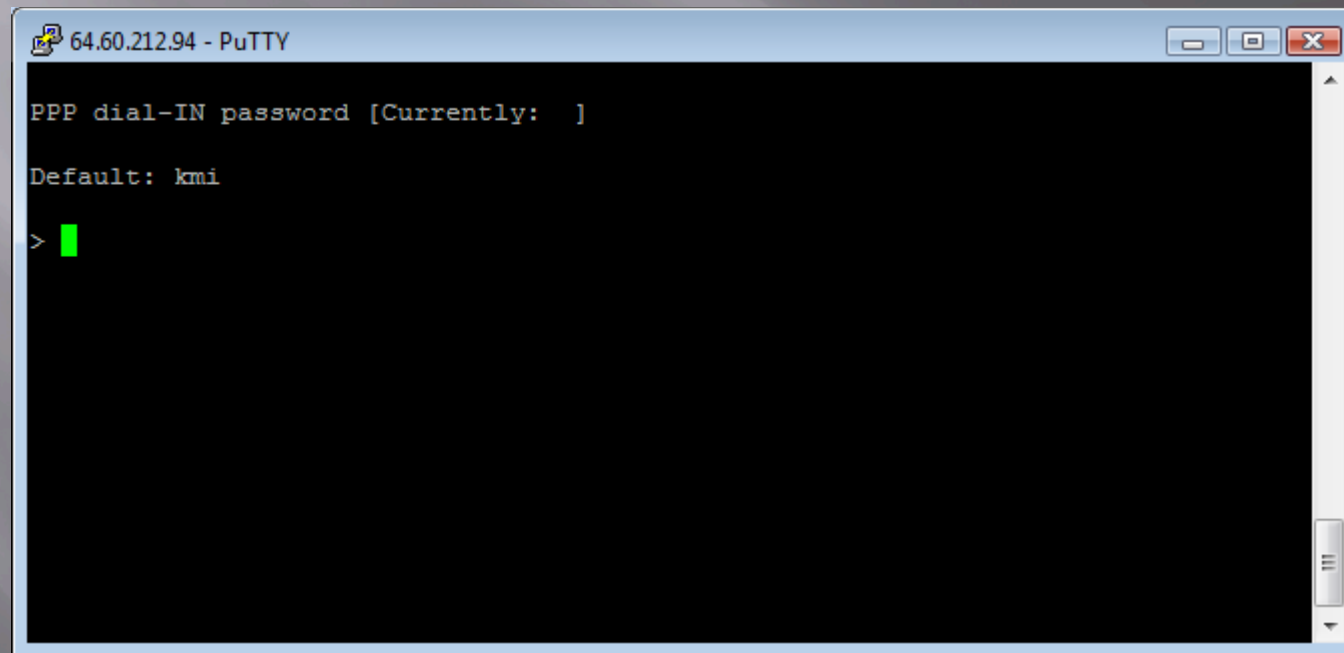


```
64.60.212.94 - PuTTY
PPP dial-IN user name [Currently:  ]
Default: dialup
> █
```


New Features (Antelope Specific)

PPP dial-in, dial-out support:

Set the password for PPP dial-in (digitizer):

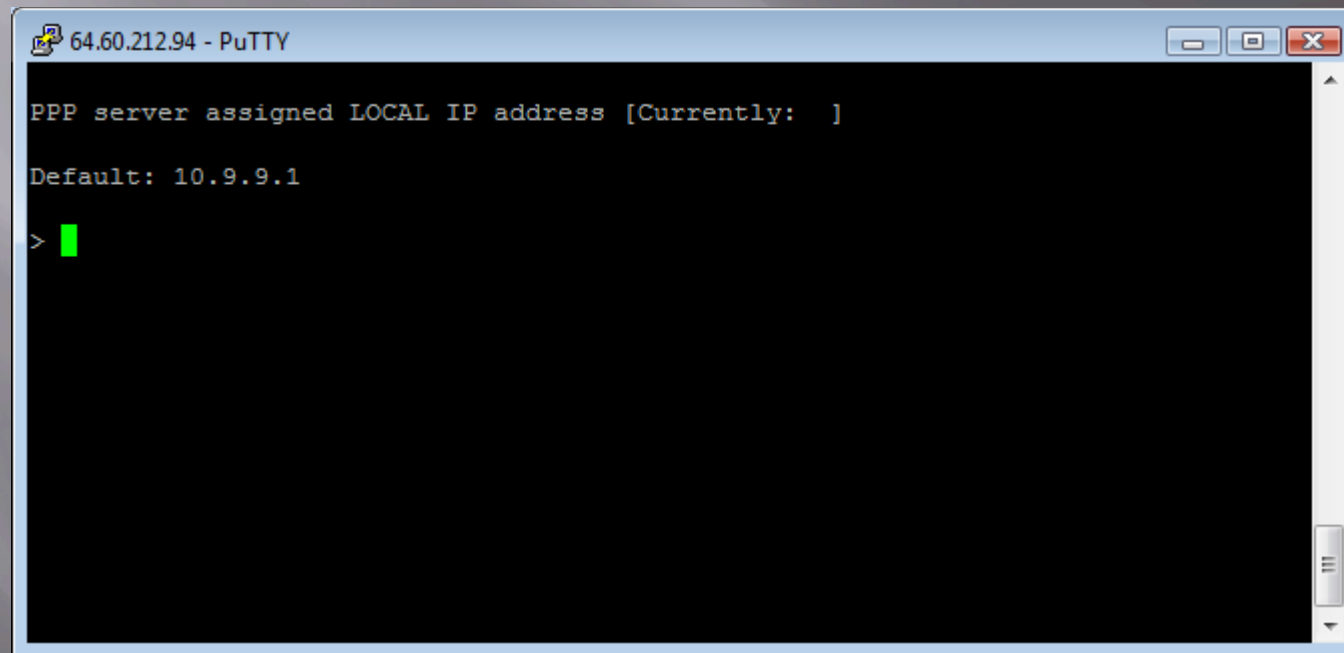


```
64.60.212.94 - PuTTY
PPP dial-IN password [Currently:  ]
Default: kmi
> █
```

New Features (Antelope Specific)

PPP dial-in, dial-out support:

Set the local IP address assigned to the PPP connection:

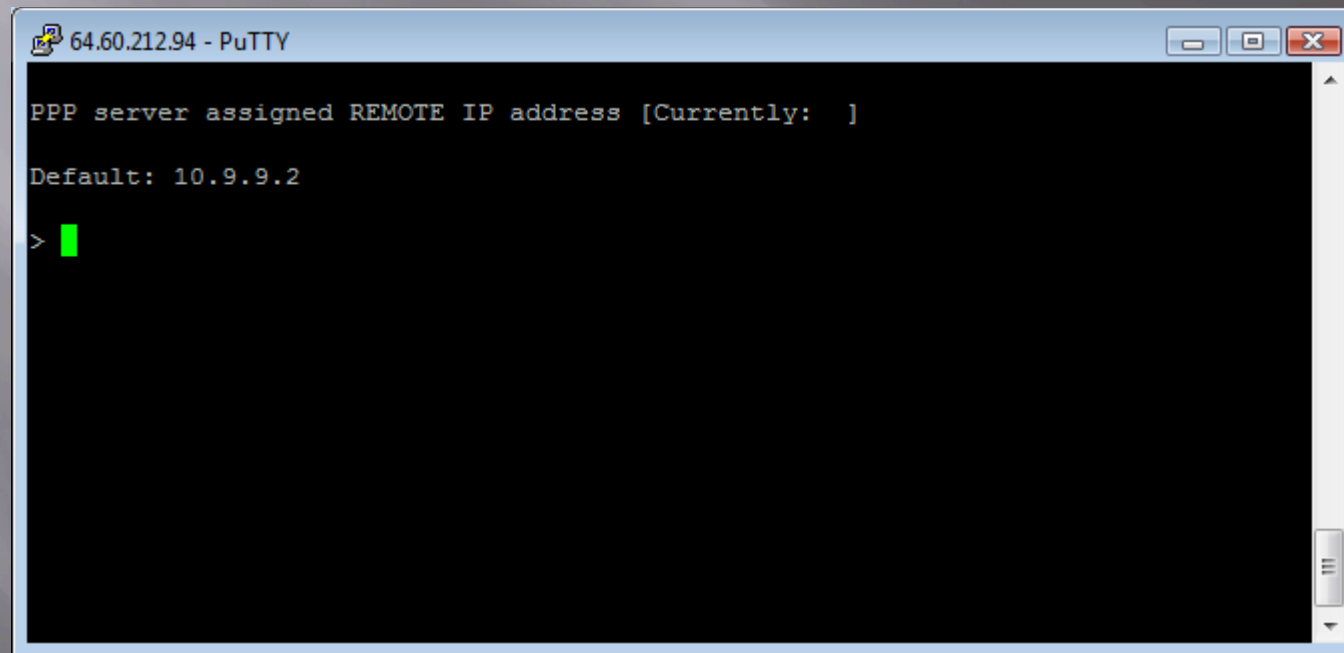


```
64.60.212.94 - PuTTY
PPP server assigned LOCAL IP address [Currently: ]
Default: 10.9.9.1
> █
```

New Features (Antelope Specific)

PPP dial-in, dial-out support:

Set the remote IP address assigned to the PPP connection:

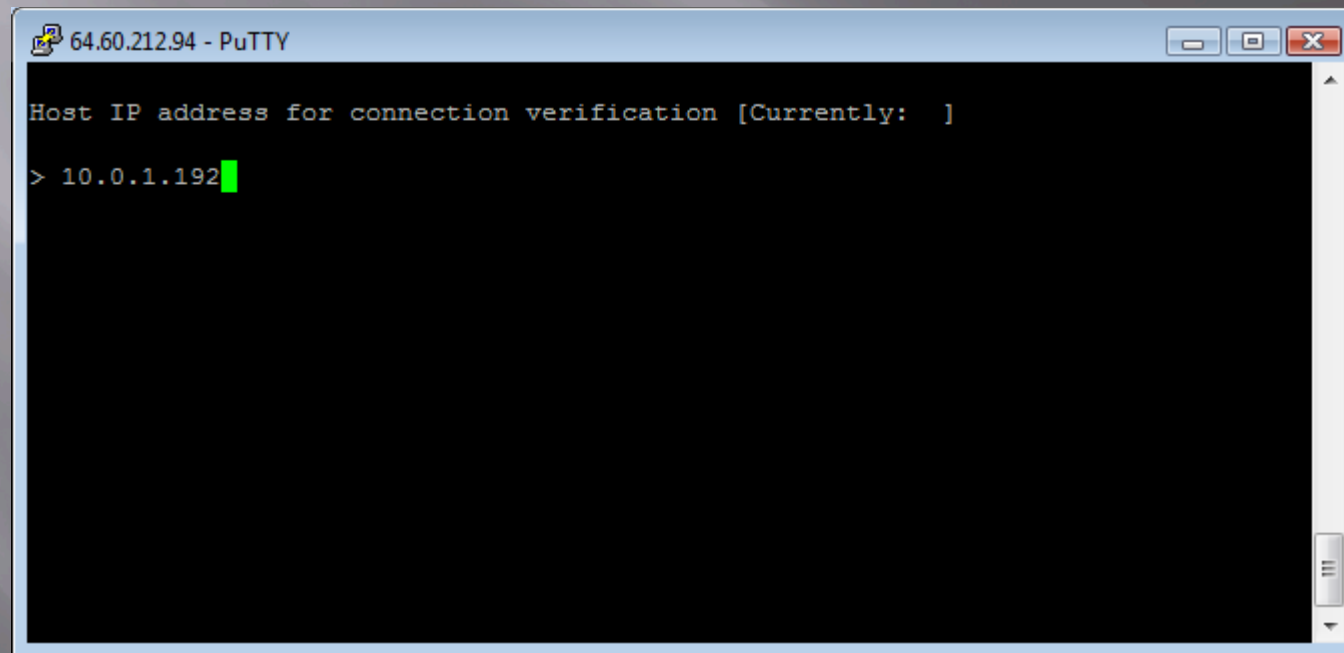


```
64.60.212.94 - PuTTY
PPP server assigned REMOTE IP address [Currently: ]
Default: 10.9.9.2
> █
```

New Features (Antelope Specific)

PPP dial-in, dial-out support:

Set the IP address used to see that the connection is alive:

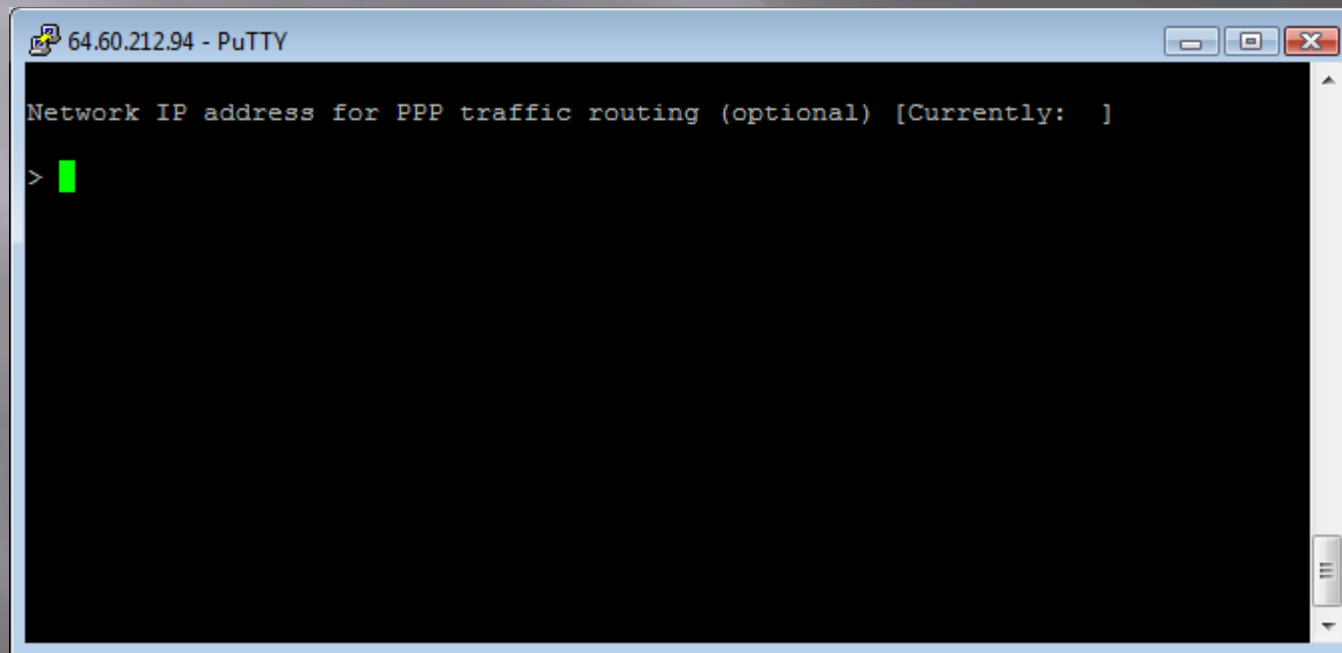


```
64.60.212.94 - PuTTY
Host IP address for connection verification [Currently: ]
> 10.0.1.192
```

New Features (Antelope Specific)

PPP dial-in, dial-out support:

Set the IP address used for PPP traffic routing:

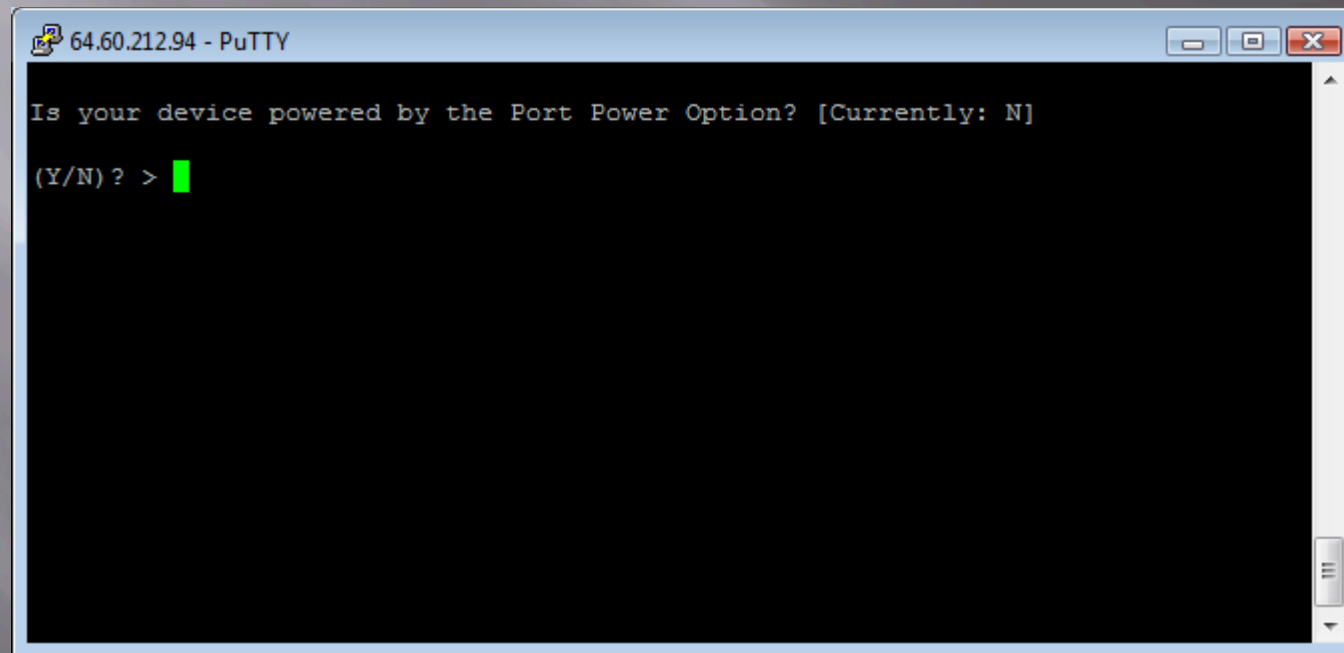


```
64.60.212.94 - PuTTY
Network IP address for PPP traffic routing (optional) [Currently: ]
> █
```


New Features (Antelope Specific)

PPP dial-in, dial-out support:

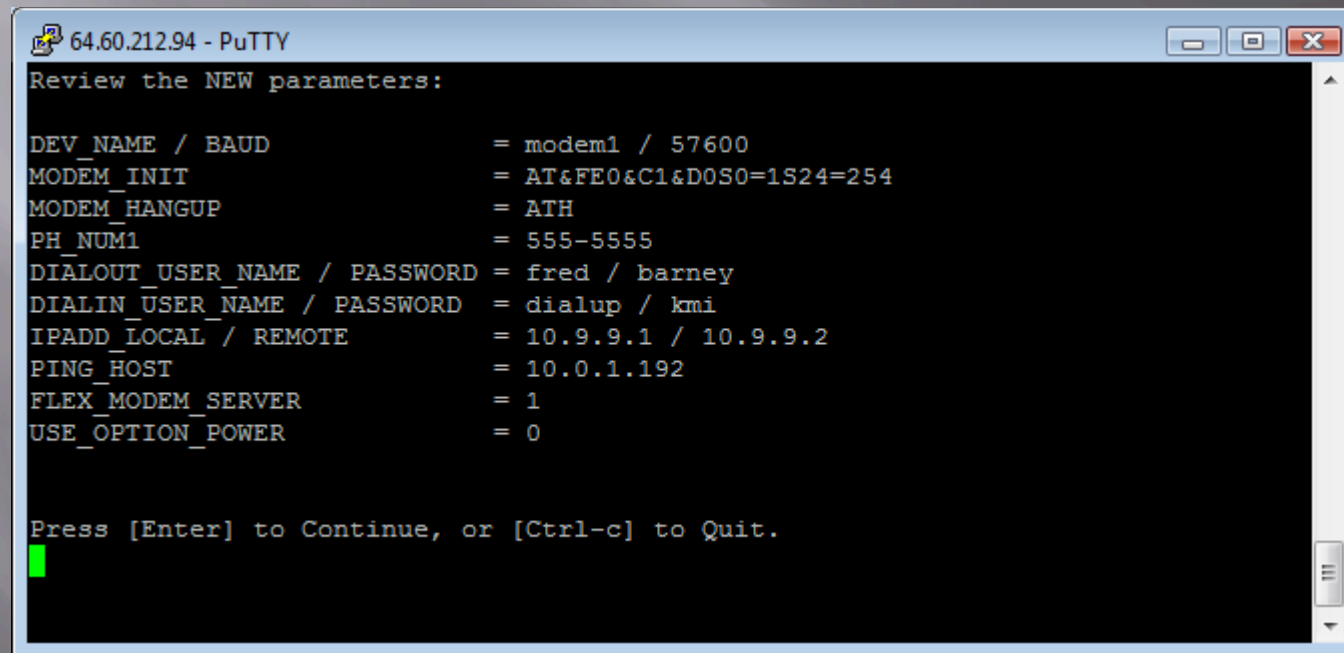
Select how device is powered (external hardware):



New Features (Antelope Specific)

PPP dial-in, dial-out support:

Review:



A screenshot of a PuTTY terminal window titled "64.60.212.94 - PuTTY". The terminal displays a list of configuration parameters for PPP dial-in and dial-out support. The parameters are listed in a key-value format. At the bottom of the terminal, there is a prompt: "Press [Enter] to Continue, or [Ctrl-c] to Quit." followed by a green cursor.

```
Review the NEW parameters:

DEV_NAME / BAUD           = modem1 / 57600
MODEM_INIT                = AT&FE0&C1&D0S0=1S24=254
MODEM_HANGUP              = ATH
PH_NUM1                   = 555-5555
DIALOUT_USER_NAME / PASSWORD = fred / barney
DIALIN_USER_NAME / PASSWORD  = dialup / kmi
IPADD_LOCAL / REMOTE       = 10.9.9.1 / 10.9.9.2
PING_HOST                  = 10.0.1.192
FLEX_MODEM_SERVER         = 1
USE_OPTION_POWER          = 0

Press [Enter] to Continue, or [Ctrl-c] to Quit.
█
```

New Features (Antelope Specific)

PPP recap:

-Supports:

- Full time connection (PPP interfaced cellular gateways)
- Hardwired PPP client or server
- Flexible PPP modem connection (acts as the “ISP” to accept incoming PPP connections when idle, and switches to client mode when needed)

- Connections:

- Internal modem
- External device
- Internal serial port (the Basalt/Granite has 3, plus the modem)
- Supports digitizer supplied switched power

New Features (Antelope Specific)

PPP dial generator module:

The PPP support is at the OS/protocol level. Once the connection is established, you have a fully functional IP connection (all ports and services). The connection will time out after a 5 minute period of inactivity.

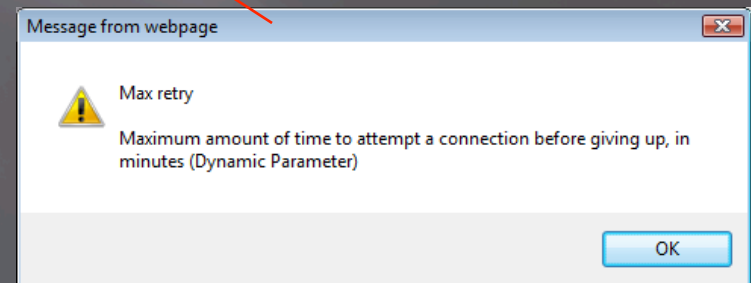
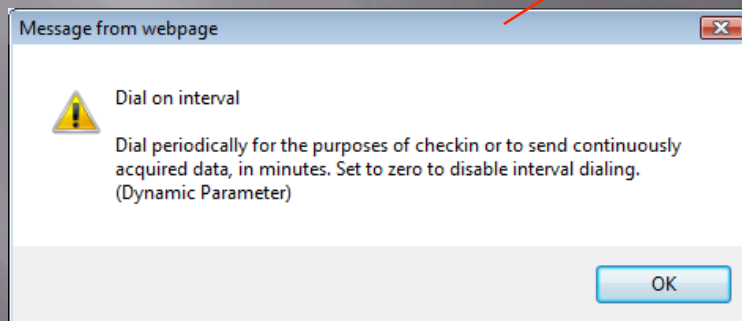
In addition, a new PPP Dial Generation module for Rockhound 'stimulates' the PPP connection to switch to client mode and dial for various user-specified reasons.

New Features (Antelope Specific)

PPP dial generator module:

Dial for event triggers or SOH changes

PPP Dial Generation		
Dial on event	<input type="checkbox"/>	false
Dial on SOH	<input type="checkbox"/>	false
Dial on interval	<input type="checkbox"/>	0
Max retry	<input type="checkbox"/>	480



New Features (Antelope Specific)

Altus2orb support:

- GetEventSummary packet support
- More complete parameter block support (up/down)
- Allow parameter changes through the Altus parameter block

New Features (General)

- Waveform Viewer “all” selection for affecting multiple channels
- Site Summary page to show network setup, versions, modules
- Recorded Files page allows multiple file delete

- MiniSEED archiver supports Steim1 and Steim2 compression
- SSH tunneling supported in web server
- SCP File Sender module added
- SOH File Generation module added
- New GPIO modules for control of external relays

- General speed, stability, efficiency improvements

New Support Wiki

Windows Internet Explorer window titled "Login required - KMI Support WIKI - Windows Internet Explorer provided by KMI Internet". The address bar shows "http://wiki.kmi.com/wiki/".

The browser interface includes a menu bar (File, Edit, View, Favorites, Tools, Help), a Favorites bar, and a toolbar with navigation and utility icons. The page title is "Login required - KMI Support WIKI".

The main content area features the Kinometrics logo and "Support Wiki" branding. A navigation menu on the left lists links such as "Main page", "Rock family", "Altus family", "FBA family", "EpiSensor family", "Other resources", "Recent changes", and "Help".

The central text reads: "Login required" and "You must [log in](#) to view other pages." Below this, a search bar is visible with "Go" and "Search" buttons. A red arrow points from the "Log in" link in the top right corner to the search bar area.

A grey box in the center of the page contains the text: "Username: visitor" and "Password: rosebowl".

The status bar at the bottom shows "Done", "Internet | Protected Mode: Off", and "95%" zoom level.

Main Page - KMI Support WIKI - Windows Internet Explorer provided by KMI Internet

http://wiki.kmi.com/wiki/index.php/Main_Page

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Main Page - KMI Support WIKI

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For password requests, to report errors, or request additions to this site contact us at support@kmi.com

Main Page

Welcome to the Kinemetrics Support Wiki

This is a collection of support information that is maintained to support customers and users of Kinemetrics products.

Information available on this site includes manuals, application notes, tutorials, software/firmware downloads and drawings.

This site is maintained dynamically, so if you don't find information that you believe should be there, let us know and we will review it and add it to the site if appropriate.

Need more help?

- Contact us at support@kmi.com for technical support help
- Contact us at sales@kmi.com for Sales support or product selection questions
- For the Kinemetrics Rock products, we have an informal e-mail users' group. Through this we can inform you occasionally of product, software, and documentation updates. You can request to join the group by e-mailing support@kmi.com
- The Kinemetrics main web site is here: www.kmi.com

Kinemetrics provides free technical support for all products by e-mail.


For technical questions and assistance, be sure to state the current software or firmware version numbers when you email us for support. Our standard technical support response time is 3 business days.

If you require direct telephone support by our engineers, require training courses, system developments or engineering services, please contact Kinemetrics' Sales dept. for a support contract quote.

This page was last modified on 5 January 2011, at 21:37.

This page has been accessed 331 times.

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Done Internet | Protected Mode: Off 95%

Rock - KMI Support WIKI - Windows Internet Explorer provided by KMI Internet

http://wiki.kmi.com/wiki/index.php/Rock

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Rock - KMI Support WIKI

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For password requests, to report errors, or request additions to this site contact us at support@kmi.com

Rock

The Rock family of Kinometrics Instrumentation includes the following products:

- Basalt:** 4 to 8 channels
- Granite:** 12 to 36 channels
- Dolomite:** Central recording system based on the Granite
- Slate:** Field processor (no ADC channels)
- Marmot:** Field processor with BRTT's Antelope software

Resources:

- [Rock Manuals](#)
- [Rock Application Notes](#)
- [Rock FAQ](#)
- [Rock Software and Firmware](#)
- [Rock Training Resources](#)
- [Rock User's Group Episodes](#)
- [Rock Drawings](#)

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Rock Manuals - KMI Support WIKI - Windows Internet Explorer provided by KMI Internet

http://wiki.kmi.com/wiki/index.php/Rock_Manuals

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Rock Manuals - KMI Support WIKI

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Rock Manuals


- [Dolomite Central Recording System manual \(300718\)](#)
- [Rock Digitizer Quick Start \(300690A\)](#)
- [Rock Digitizer manual \(300715F\)](#)
- [Rock Extended Serial Interconnect manual \(300717\)](#)
- [Rockhound Software User manual \(304702M\)](#)
- [Slate User's manual \(300632\)](#)

Rock

This page was last modified on 14 January 2011, at 00:16.

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Powered By  MediaWiki

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- www.kmi.com
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Toolbox

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- Special pages
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- Permanent link

Done Internet | Protected Mode: Off 95%

Rock Released - KMI Support WIKI - Windows Internet Explorer provided by KMI Internet

http://wiki.kmi.com/wiki/index.php/Rock_Released

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Rock Released - KMI Support WIKI

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Page Discussion Read View source View history Go Search

For password requests, to report errors, or request additions to this site contact us at support@kmi.com

Rock Released

Rock software here has gone through full and normal release testing and is what is shipped with current Rock products.

General guidance is that you should always be using the latest released software in your instrumentation unless there is a clearly understood reason not to.

If you report suspected software problems to Kinometrics, one of the first things you will likely be asked to do is to install the latest release software.

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- 2 Digitizer Firmware
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 - 2.3 Rockhound Update for Rock Family (Granite/Basalt/Slate)
 - 2.4 Rock Software Base
- 3 Marmot Firmware
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 - 3.2 Rock Kernel Update to March 15 2007
- 4 Support Software
 - 4.1 Network Utilities
 - 4.2 Automated Upload Script
 - 4.3 Rock Finder Utility
 - 4.4 RockToEW
 - 4.5 RockToSlink
- 5 Rockhound Full Distribution with Installer (PC)

Rock User's Group

Join the Rock User's Group!

- Keep informed of technical updates and product use tips
- Free, useful technical product information
- Share what you have learned and learn from others

[Subscribe](#)

Digitizer Firmware

Instructions for Updating Rockhound

[Instructions for Updating Rockhound v1.2.1 7/13/2010](#)

Linux Update

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Rock Experimental - KMI Support WIKI - Windows Internet Explorer provided by KMI Internet

http://wiki.kmi.com/wiki/index.php/Rock_Experimental

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Rock Experimental

Disclaimer: Experimental software listed here is pre-released software that is made available to provide advance access to new features or to quickly address necessary changes or corrections for specific problems.

Although some testing has been done, this software has not gone through complete release testing and may have problems that would be found during full release testing.

Although we are interested in solving and addressing any problems found with this software, you should be aware that by its nature experimental software is dynamic and may be subject to more problems than released software.

Update for Rockhound in a digitizer, Slate, or PC.
Rockhound v3.8.1f BETA
(download using right-click and Save Target As)

Roll-up patch for the Digitizer Linux system.
Linux Update 16 (beta 15)
(download using right-click and Save Target As)

[Rock Software and Firmware](#)

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Rock Training Resources - KMI Support WIKI - Windows Internet Explorer provided by KMI Internet

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Rock Training Resources

Contained here are several small tutorials giving detailed step-by-step instructions for several common activities with the Rock products:

- [Using PuTTY](#)
- [Using WinSCP](#)
- [Logging into Linux](#)
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- [Managing files with WinSCP](#)
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Rock

This page was last modified on 6 January 2011, at 22:02.

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1 / 8 80.3% Sign Find

Changing Voltage Ranges

How to change voltage ranges on a Rock using the web interface

Done Unknown Zone | Protected Mode: Off

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http://wiki.kmi.com/wiki/index.php/Rock_Drawings

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Rock Drawings

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- 1 Rock Cables
- 2 Basalt/Granite Cables
- 3 Slate/Marmot cables
- 4 Dolomite

Rock Cables

- 112297C Power and Battery
- 112259A Power and Battery (with charger)
- 112250A Power with charger (no battery connection)
- 112293C Ethernet
- 112294B Console
- 112295C Full Serial

Basalt/Granite Cables

- 111938A Serial Interconnect
- 111946A Modem
- 111941B Dual Serial
- 112075A Time Over Ethernet

Slate/Marmot cables

- 112298B Single Serial

Dolomite

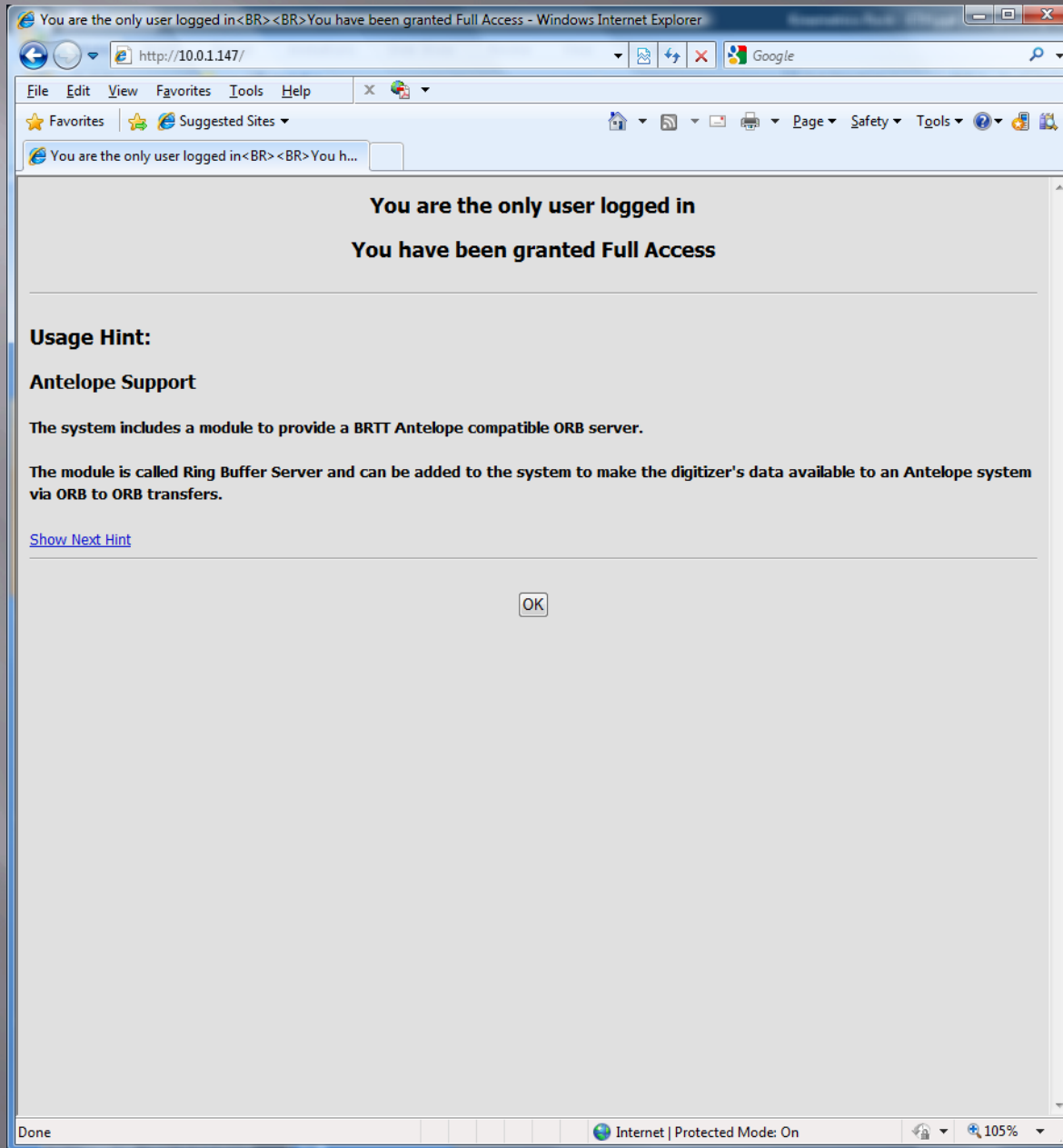
- 504200A Dolomite Assembly
- 504021A Dolomite Wiring Diagram
- 504020A Dolomite Assembly
- 504205 Dolomite Assembly, 100VAC Option
- 504206 Dolomite Wiring Diagram 110VAC Option

Rock

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Screen Shots



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http://10.0.1.146/

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Status
Triggered: No
Events count: 7
Total events: 1206
Last trigger data time: N/A
Last event RTC: N/A
Alarm: Off
Timing system type: GPS
Time quality: 90
Temperature: 29.3c
Humidity: 29.1%
Battery: 13.2 (Charging)
Storage: 2.5 GB FREE

Data Flow Stats	System Info
Packet arrivals: 6218	Serial number: 101
Incomplete groups: 0	System started on: 2011/02/03 21:59:15 GMT
Missing groups: 0	Restart count: 4019
Last data gap: None	Number of streams (incl SOH): 22
Last gap Ch Id: None	IP Address: 10.0.1.146
Groups queued: 222	Software version: 3.7
	KMI Rock filesystem 2.1.0 Update 16 (beta 15)

Data Flow	Clock Quality	Clock Drift	Alarm
OK	90.0%	Not Locked	Off
Temperature	Humidity	Storage Used	Battery
29.3c	29.14%	10.0%	13.2V

It's 2011/02/03 22:04:31 GMT

[Add Left Frame](#)

Done

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State-of-Health Selection

Short Term Parameters (last 24 hrs)		Long Term Parameters (one year)	
DIG1 Temperature	false ▼	DIG1 Temperature	false ▼
DIG1 Humidity	false ▼	DIG1 Humidity	false ▼
DIG1 TCXO Drift	false ▼	DIG1 TCXO Drift	false ▼
DIG1 Clock Quality	false ▼	DIG1 Clock Quality	false ▼
DIG1 TCXO DAC	false ▼	DIG1 TCXO DAC	false ▼
DIG1 Battery	false ▼	DIG1 Battery	false ▼
DIG1 DC Volts	false ▼	DIG1 DC Volts	false ▼
DIG1 Current	false ▼	DIG1 Current	false ▼

Done

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State-of-Health

Data Flow	Clock Quality	Clock Drift	Alarm
OK	100.0%	0.040us	Off
Temperature	Humidity	Storage Used	Battery
29.0c	29.14%	10.0%	13.2V

[Show timing details](#)

Short term DIG1 Temperature

DIG1 TEMPERATURE CMAX 30.0

Long term DIG1 Temperature

DIG1 LONG TERM TEMPERATURE CMAX 34.8

M A M J J A S O N D J

Done

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State-of-Health

Data Flow	Clock Quality	Clock Drift	Alarm
OK	100.0%	0.040us	Off
Temperature	Humidity	Storage Used	Battery
29.0c	29.18%	10.0%	13.2V

Timing System Status

Timing system type: GPS
 Satellites in view: 6
 Last timing lock: 2011/02/03 22:09:17 GMT
 Timing locked since: 2011/02/03 22:06:27 GMT
 GPS Position: 34.150467N -118.100800E 166m
 GPS Status: Doing position fixes
 Antenna: OK
 Almanac: Incomplete

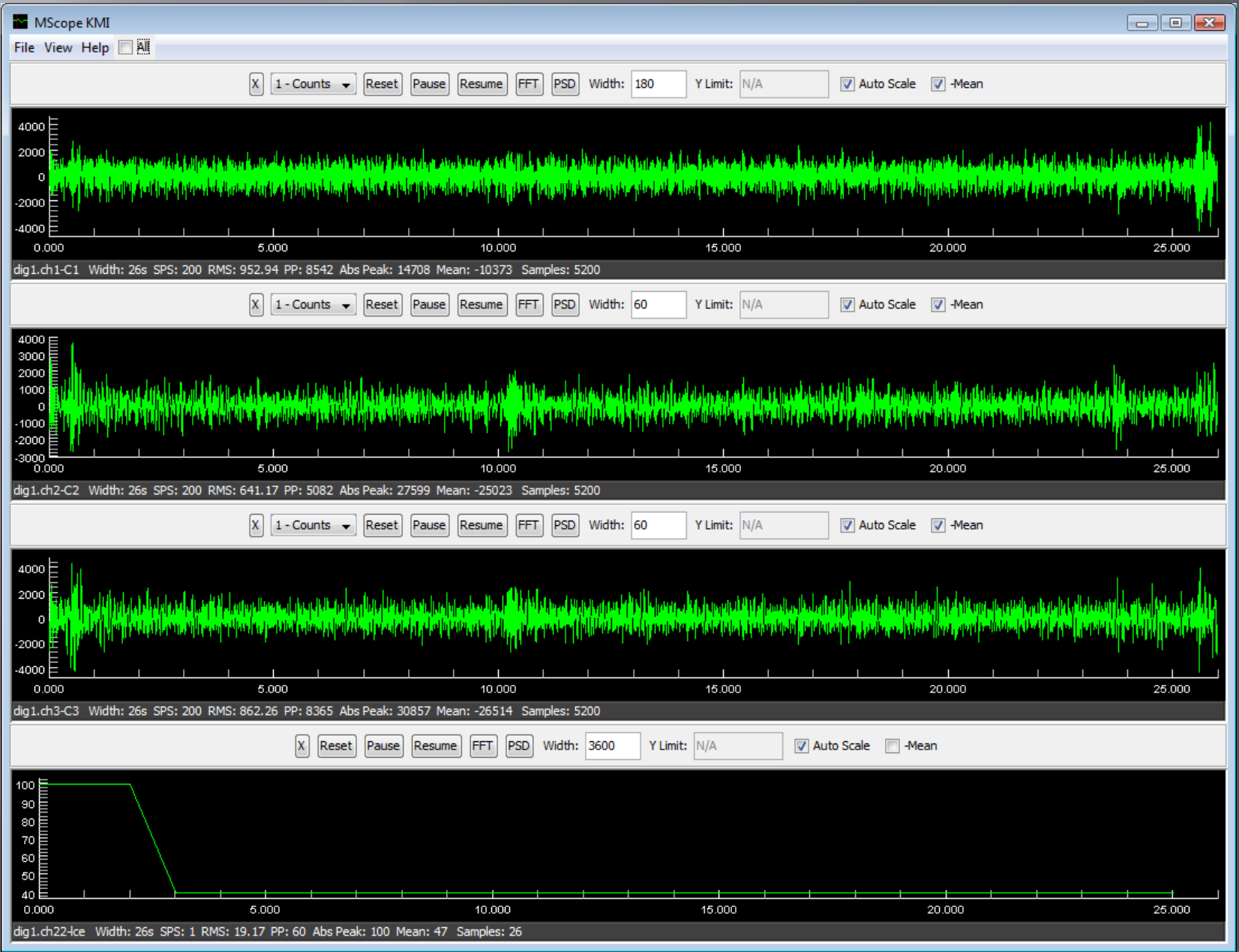
Satellite SNR values

SV 14	SV 18	SV 22	SV 31
5.2	0.0	5.8	-1.4
SV 29	SV 3	SV 11	SV 24
0.0	4.4	5.4	7.2
SV 21	SV 19	SV 28	SV 5
-1.4	5.6	0.0	0.0

[Hide timing details](#)

Short term DIG1 Temperature

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dig1.ch1-C1 - PSD

File Help

2 - Volts

Pause

Resume

Avg

LogX

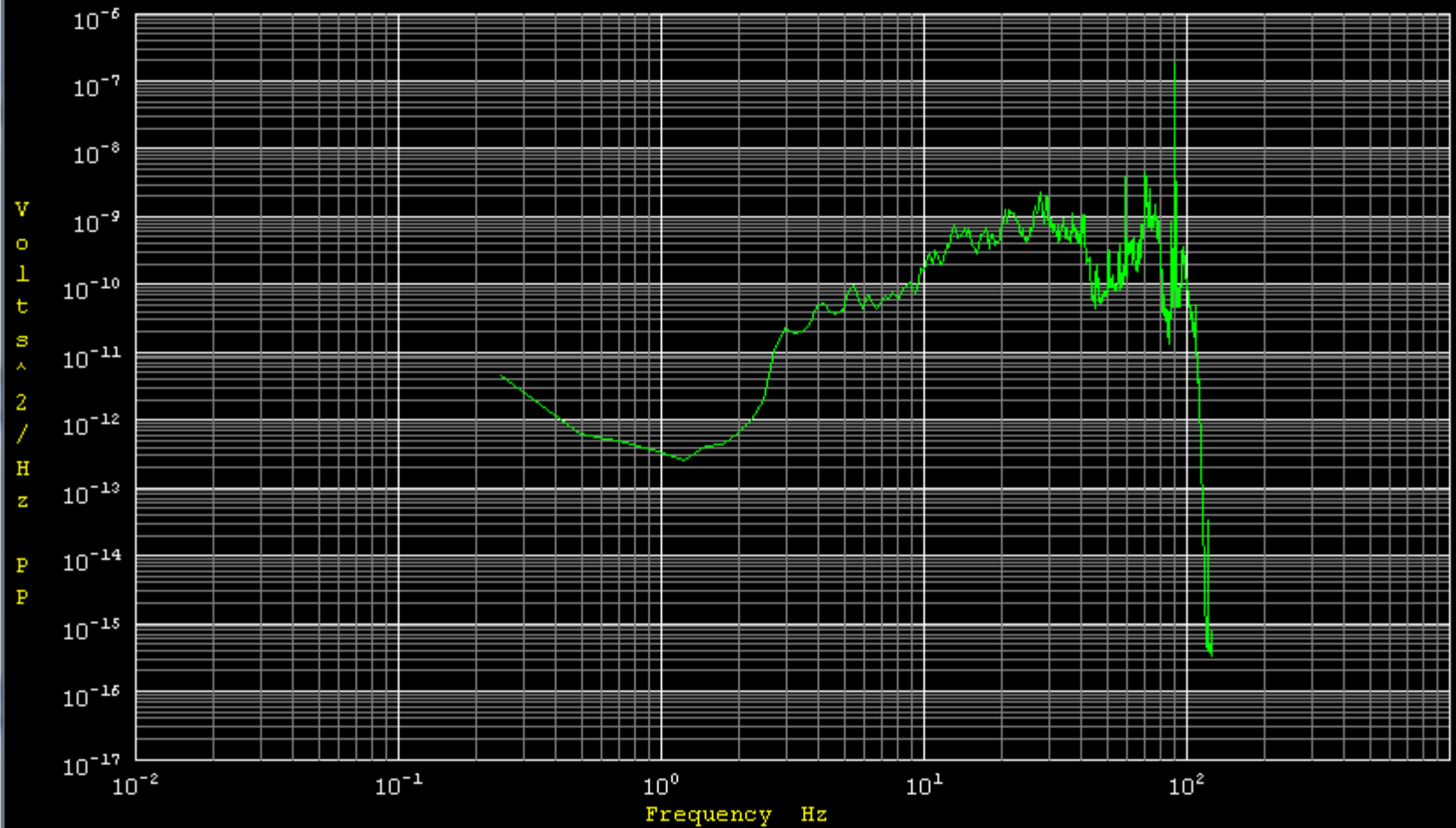
LogY

Grid

YAxis Hi/Lo: N/A

N/A

Auto Scale



Dom Hz: 90.087 Peak: -6.748 (0.0) Counts/V: 1677721.6

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Recorded Files

20110201215528.diq1.ch1.KMI.evt	20110201215649.diq1.ch1.KMI.evt	20110201223038.diq1.ch1.KMI.evt
(257KB) Select for delete: <input type="checkbox"/>	(257KB) Select for delete: <input type="checkbox"/>	(257KB) Select for delete: <input type="checkbox"/>

Delete Selected

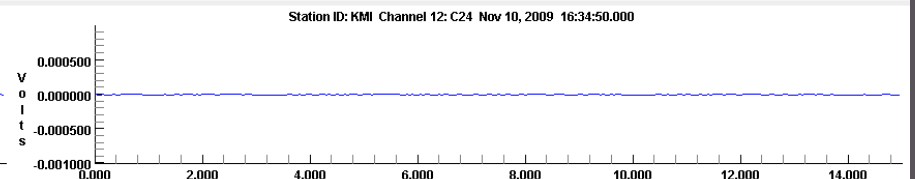
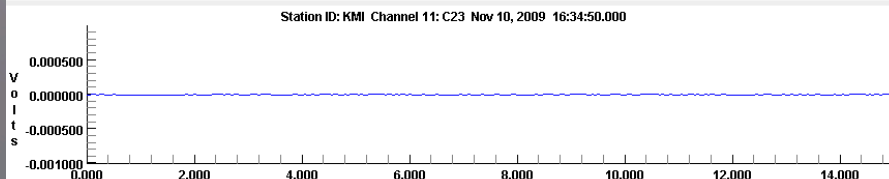
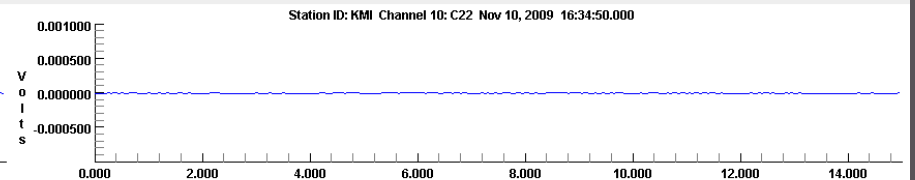
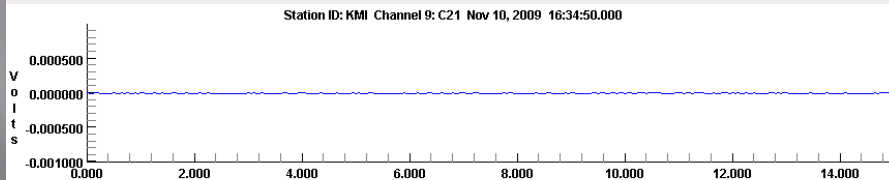
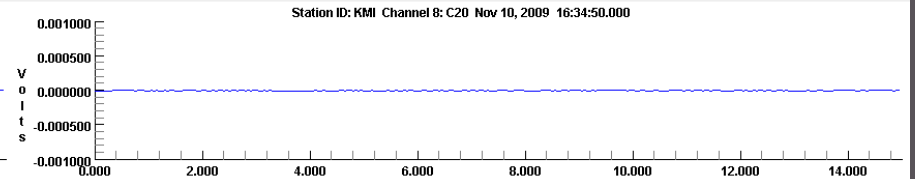
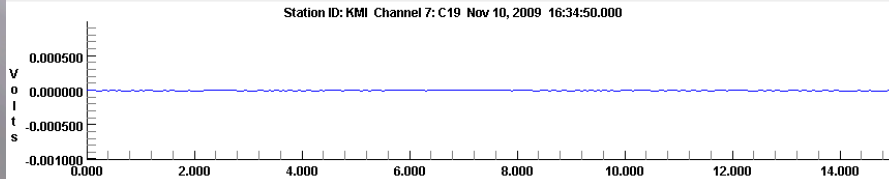
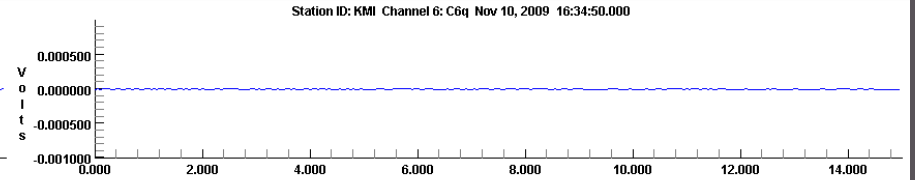
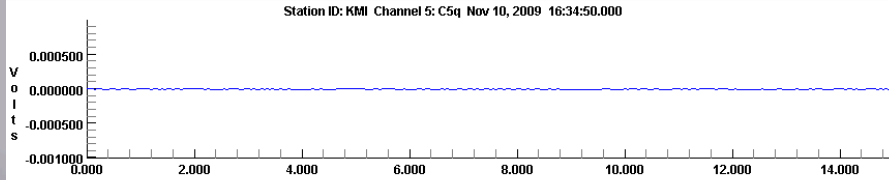
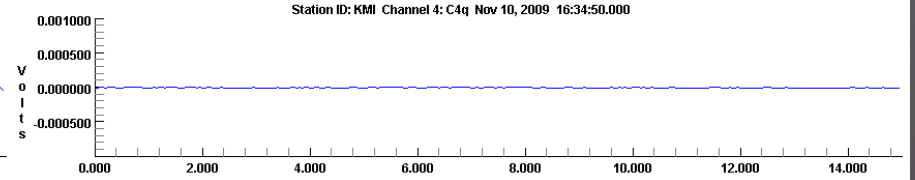
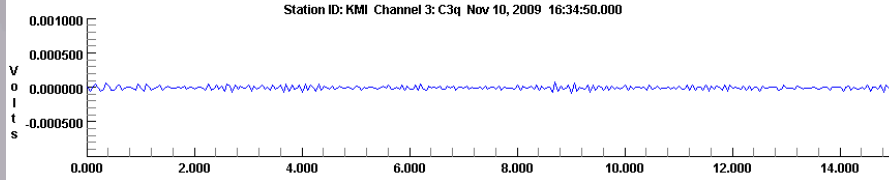
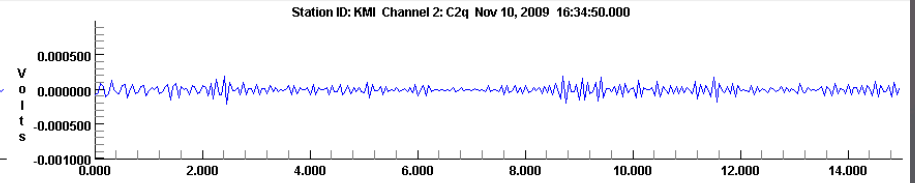
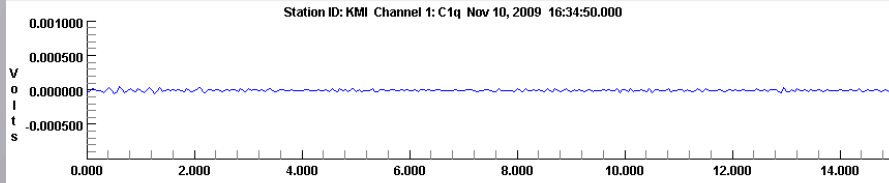
[Interactive File Viewer](#)

This page provides thumbnail views of recorded files, as well as links to a larger image of the file (by clicking the thumbnail). If you click on the filename, you can download or directly open the file.

Done

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Layout of station KMI

```

    graph LR
      subgraph Channels
        C1[DICI, CH 1, ROCK DATA INTERFACE]
        C2[DICI, CH 2, CHANNEL EXTRACTOR]
        C3[DICI, CH 3, CHANNEL EXTRACTOR]
        C4[DICI, CH 4, CHANNEL EXTRACTOR]
        C5[DICI, CH 5, CHANNEL EXTRACTOR]
        C6[DICI, CH 6, CHANNEL EXTRACTOR]
        C7[DICI, CH 7, CHANNEL EXTRACTOR]
        C8[DICI, CH 8, CHANNEL EXTRACTOR]
        C9[DICI, CH 9, CHANNEL EXTRACTOR]
        C10[DICI, CH 10, CHANNEL EXTRACTOR]
        C11[DICI, CH 11, CHANNEL EXTRACTOR]
        C12[DICI, CH 12, CHANNEL EXTRACTOR]
      end

      subgraph Processing
        DI[DATA INTEGRATOR]
        SIF[STATUS INTEGRATOR]
        NIV[NAVFORM VIEWER]
        CF[CLASSIC STRONG MOTION FILTER]
        TF[THRESHOLD TRIGGER]
      end

      subgraph Output
        V[VOTER]
        R[RECORDER]
        A[ALIUS EVT FORMAT DATA ARCHIVER]
      end

      subgraph Support
        CC[COMMAND CONSOLE]
        EMS[E-MAIL MESSAGE SERVER]
        CWS[CONFIG / CONTROL WEB SERVER]
        SS[STATUS SERVER]
        UM[UPDATE MONITOR]
      end

      C1 --> DI
      C2 --> DI
      C3 --> SIF
      C4 --> SIF
      C5 --> SIF
      C6 --> SIF
      C7 --> SIF
      C8 --> SIF
      C9 --> SIF
      C10 --> SIF
      C11 --> SIF
      C12 --> SIF
      DI --> V
      SIF --> V
      NIV --> V
      V --> R
      R --> A
      CC --> CWS
      EMS --> CWS
      SS --> CWS
      UM --> CWS
  
```

08/06/2011 09:20:39 82-113-68-0MT

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Channel Configuration Summary

System Overview	
System type	Granite
Serial number	101
Number of channels	12
Number of streams (incl SOH)	22
SOH streams: deg, hum, vwb, vep, vec, cpu, dsk, lcq, vco, lce	

Channels and Sensors						
VCh	Id	SPS	Sensor Type	Full Scale	Sensitivity	G Range
1	C1	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
2	C2	200	32: EpiSensor [a]	5.0V	1.253V/g	4g
3	C3	200	32: EpiSensor [a]	5.0V	1.2494V/g	4g
4	C4	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
5	C5	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
6	C6	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
7	C7	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
8	C8	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
9	C9	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
10	C10	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
11	C11	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
12	C12	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g

[Show voting details](#)
 Configuration as of: 2011/02/03 22:20:27 GMT

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3	C3	200	32: EpiSensor [a]	5.0V	1.2494V/g	4g
4	C4	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
5	C5	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
6	C6	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
7	C7	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
8	C8	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
9	C9	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
10	C10	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
11	C11	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g
12	C12	200	32: EpiSensor [a]	5.0V	1.2508V/g	4g

Channel Voting and Triggers						
VCh	Id	Filter	Trigger	Trig Votes	Detrig Votes	
1	C1	CSMFilter	ThresholdTrigger	1	1	
2	C2	CSMFilter	ThresholdTrigger	1	1	
3	C3	CSMFilter	ThresholdTrigger	1	1	
4	C4	CSMFilter	ThresholdTrigger	1	1	
5	C5	CSMFilter	ThresholdTrigger	1	1	
6	C6	CSMFilter	ThresholdTrigger	1	1	
7	C7	CSMFilter	ThresholdTrigger	1	1	
8	C8	CSMFilter	ThresholdTrigger	1	1	
9	C9	CSMFilter	ThresholdTrigger	1	1	
10	C10	CSMFilter	ThresholdTrigger	1	1	
11	C11	CSMFilter	ThresholdTrigger	1	1	
12	C12	CSMFilter	ThresholdTrigger	1	1	

System Voting and Triggers					
Trig Votes	Detrig Votes	Pre-Event	Post-Event	Min Runtime	
2	1	3 sec	10 sec	Unused	

[Hide voting details](#)

Configuration as of: 2011/02/03 22:21:01 GMT

Done Internet | Protected Mode: Off 95%

Station KMI - Windows Internet Explorer provided by KMI Internet

http://10.0.1.146/

File Edit View Favorites Tools Help

Station KMI

Site Summary of station KMI

As of 2011/02/03 22:21:47 GMT

WAN

↑ ↓

ROUTER
OUTSIDE IP ADDRESS: 64.60.212.2

↑ ↓

GRANITE-12
STATION: KMI, S/N: 101
NUMBER OF STREAMS CINCL SOHD: 22
INSIDE IP ADDRESS: 10.0.1.148
DNS: 10.0.1.24
DNS: 10.0.1.21
DNS: 10.0.1.22
DNS: 8.8.8.8
DNS: 4.2.2.1
DNS: 4.2.2.2

GPS

←

DRAWN:2011/02/03 17:23:40 GMT

Additional Info

GPS Position: 34.150543N -118.101160E 173m
Software version: 3.7
KMI Rock filesystem 2.1.0 Update 16 (beta 15)

Data Flow	Clock Quality	Clock Drift	Alarm
OK	100.0%	0.230us	Off
Temperature	Humidity	Storage Used	Battery
29.3c	29.14%	10.0%	13.2V

Modules Used in the Layout

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Done Internet | Protected Mode: Off 95%



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```

GRANITE-12
STATION: KMI, S/N: 101
NUMBER OF STREAMS (INCL SOH): 22
INSIDE IP ADDRESS: 10.0.1.148
DNS: 10.0.1.24
DNS: 10.0.1.21
DNS: 10.0.1.22
DNS: 8.8.8.8
DNS: 4.2.2.1
DNS: 4.2.2.2
  
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DRAWN:2011/02/03 17:23:40 GMT

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GPS Position: 34.150543N -118.101160E 173m
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OK	100.0%	0.230us	Off
Temperature	Humidity	Storage Used	Battery
29.3c	29.14%	10.0%	13.2V

Modules Used in the Layout

Altus EVT Format Data Archiver	Channel Extractor
Classic Strong Motion Filter	Command console
Config/Control web server	Data Integrator
E-Mail Message Sender	Recorder
Ring Buffer Server	Rock Data Interface
Status Integrator	Status Server
Threshold Trigger	Update monitor
Voter	Waveform viewer

Internet | Protected Mode: Off


95%

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Maintenance Log

[New maintenance entry](#)

=====

Maintenance Log Entry Time: Thu Jun 25 02:54:44 GMT 2009
Visit date and Time: Today
Technician(s): DMP
Duration: 1 hour
Description:
 Did a bunch of stuff.

Done

Internet | Protected Mode: On

105%



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New Maintenance Log Entry	
Maintenance entry made	Wed Nov 25 15:53:27 GMT 2009
When was visit	<input type="text"/>
Technician(s)	<input type="text"/>
On-site time	<input type="text"/>
Maintenance performed	<input type="text"/>

NOTE: ALL fields must be filled out!


OK

Station KMI - Windows Internet Explorer

http://10.0.1.147/

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Kinemetrics Application Notes		
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Kinemetrics Manuals		
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Done

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105%

http://www.iris.washington.edu/servlet/eventserver/eventsHTML.do?&MagMin=3&MagMax=10&priority=t - Windows Internet Explorer

http://www.iris.washington.edu/servlet/eventserver/eventsHTML.do?&Mag

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Close Window

Events Shown:	20 of 1629
Prioritize:	recent events
Latitude Range:	33.15056 to 35.15056
Longitude Range:	-119.100914 to -117.100914
Date Range:	earliest available to latest available
Magnitude Range:	3.0 to 10.0
Depth Range:	all depths
Advanced Filter:	Automatic Logic

(Click column headers to sort)


Magnitude	Depth (km)	Time	Lat	Lon	Mag. Type	Mag. Contrib.	Event Source	Catalog
3.3	3.9	2009/08/07 08:53:30.6800	34.141	-117.488	ML	PAS	NEIC	WHDF
3.5	7.2	2009/08/01 12:55:55.6500	34.259	-117.384	MW	PAS	NEIC	WHDF
3.1	15.9	2009/07/14 04:14:22.0300	33.928	-118.359	ML	PAS	NEIC	WHDF
3.2	11.8	2009/06/22 11:27:09.4600	35.043	-119.035	ML	PAS	NEIC	WHDF
3.3	17.6	2009/06/21 14:29:33.4100	34.116	-117.324	ML	PAS	NEIC	WHDF
4.0	15.4	2009/05/19 22:49:11.4500	33.929	-118.34	ML	PAS	NEIC	WHDF
3.1	14.9	2009/05/18 03:45:10.5900	33.934	-118.346	ML	PAS	NEIC	WHDF
5.0	13.9	2009/05/18 03:39:36.3400	33.938	-118.336	MB	NEIC	NEIC	WHDF
3.1	13.4	2009/05/02 05:34:13.8800	34.067	-118.875	ML	PAS	NEIC	WHDF
4.4	14.0	2009/05/02 01:11:13.7000	34.069	-118.882	ML	PAS	NEIC	WHDF
3.0	4.0	2009/04/25 00:06:05.1700	33.896	-117.786	ML	PAS	NEIC	WHDF
3.8	4.1	2009/04/24 03:27:50.7300	33.894	-117.788	MW	PAS	NEIC	WHDF
3.6	4.7	2009/04/23 23:56:23.0800	33.894	-117.79	MW	PAS	NEIC	WHDF
3.0	15.1	2009/03/13 03:42:22.0900	34.016	-117.197	ML	PAS	NEIC	WHDF
3.0	12.0	2009/03/10 13:41:28.0700	33.968	-117.762	ML	PAS	NEIC	WHDF
3.4	7.5	2009/01/24 03:42:44.1200	33.984	-118.47	ML	PAS	NEIC	MHDF
3.1	18.4	2009/01/22 20:46:58.3000	34.2	-118.558	ML	PAS	NEIC	MHDF
3.3	15.1	2009/01/09 04:47:40.2900	34.098	-117.306	ML	PAS	NEIC	MHDF
4.4	14.2	2009/01/09 03:49:46.2700	34.107	-117.304	MB	NEIC	NEIC	MHDF
3.1	14.0	2008/12/31 11:05:05.0000	33.943	-118.784	ML	PAS	NEIC	MHDF

Done Internet | Protected Mode: On 105%

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Your National Weather Service forecast

2 Miles ESE Pasadena CA

Enter address, "City, ST", or place name

NWS Los Angeles/Oxnard, CA Last Update: 6:19 am PST Feb 3, 2011

Quick Forecast: 2 Miles ESE Pasadena CA

Current Conditions

SANTA FE DAM
Last Update on 03 Feb 12:57 PST

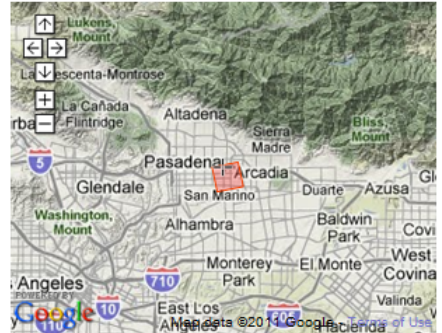
Humidity:	26 %
Wind Speed:	SW 6 G 13 MPH
Barometer:	30.32 in (N/A mb)
Dewpoint:	28°F (-2°C)
Visibility:	Miles

64°F
(18°C)

[More Local Wx:](#) [3 Day History:](#)

Current Weather Hazards

[Hazardous Weather Outlook](#)



Lat/Lon: 34.14N -118.1W Elevation: 702 ft

Enter address, city, st or place name

Today

Friday

Saturday

Sunday

Monday

Tuesday

Weekly Forecast

Thursday, February 3

Today

Tonight



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Google maps

34.15056,-118.100914

Search Maps

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Find businesses, addresses and places of interest.

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245 N Carmelo Ave
Pasadena, CA 91107

[Directions](#) [Search nearby](#) [Save to...](#) [more](#)

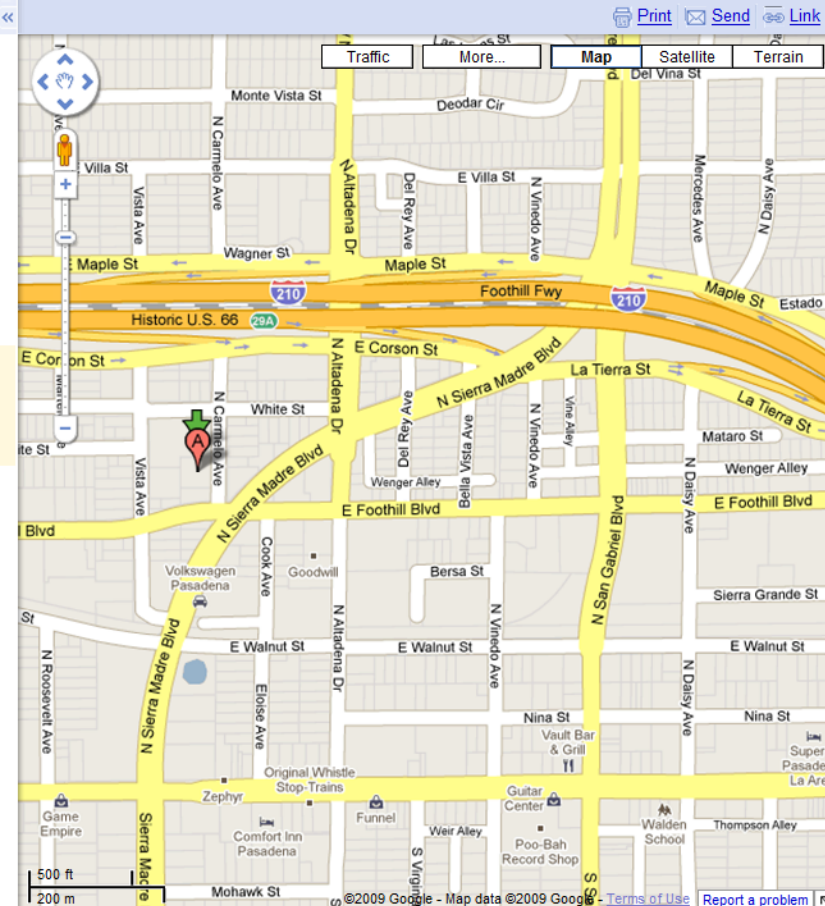
Selected businesses at this address:

- [Oyo Corporation](#)
- [Oyo Corporation USA](#)
- [V-Tech Communications, Inc.](#)

[All businesses at this address >](#)

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KMI Rock Point Of Contact Server - Windows Internet Explorer











































http://www.kmipoc.com/rockpoc/app

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KMI Rock Point Of Contact Server

KINEMATRICS INC. Internal About Login: kmi

Rock Point Of Contact Server

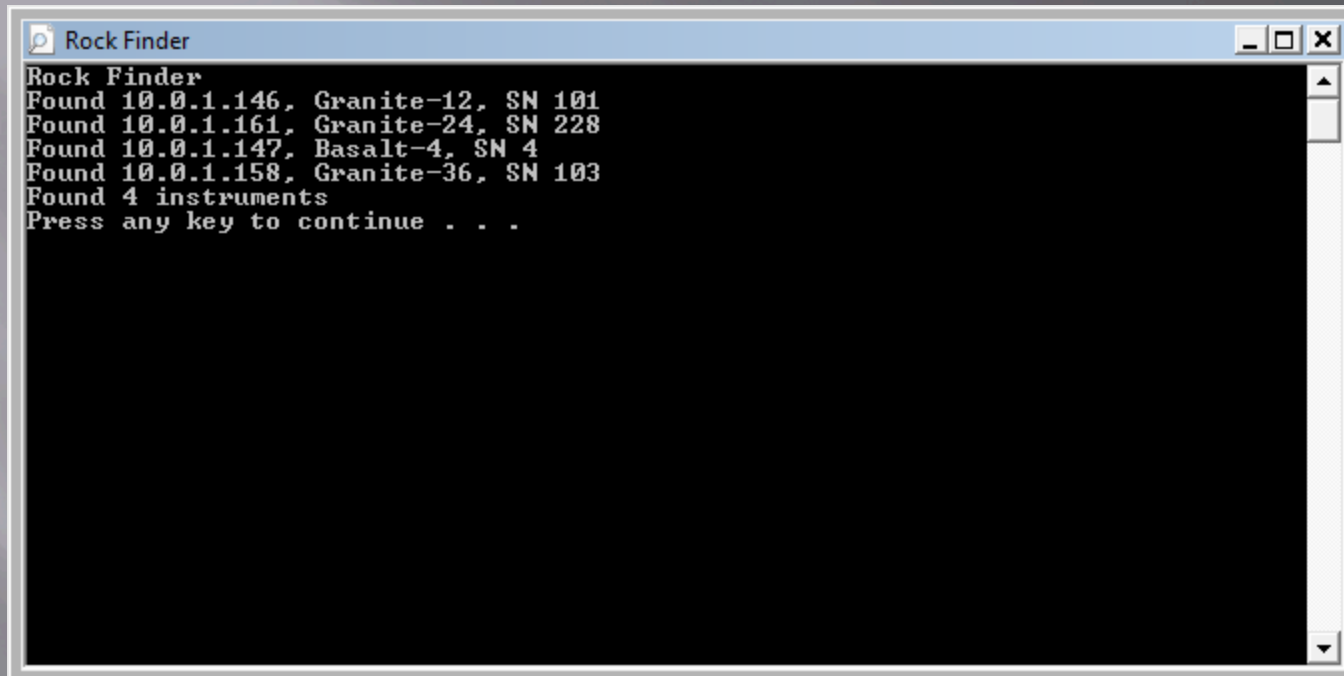
 MARMOT 0	 GRANITE (151)	 BASALT (165)	 JJBRIDGE (144)	 Test (90)	 GRANITE (260)	 slate (456)
 GV-Granite (249)	 BASALT (153)	 Rock103 (84)	 GRANITE (259)	 BASALT (169)	 BASALT (154)	 BASALT (132)
 B012 (395)	 rock (1)	 UTSC (135)	 granite (161)	 B022 (458)	 B013 (480)	 granite (160)
 B045 (376)	 GRANITE (173)	 B64-TEST (235)	 Test (77)	 B934 (368)	 B933 (377)	 SN157 (157)
 G100 (100)	 Granite (158)	 wla2 (262)	 B049 (459)	 SN156 (156)	 G101 (101)	 B001 (476)
						

Done Internet | Protected Mode: On 105%

G100



Unit Tag:	100
Unique Id:	0x1C7FD97C010000FE
IP Address:	64.60.212.93
Last Contact:	38 (secs)
Up Time:	7.65 (days)
Load Avg:	0.30
Disk Free:	root 421 MB / data 2088 MB
Temp:	24.50 C
Humidity:	32.44
Volts:	15.366
Amps:	0.329



Rock Finder

```
Rock Finder
Found 10.0.1.146, Granite-12, SN 101
Found 10.0.1.161, Granite-24, SN 228
Found 10.0.1.147, Basalt-4, SN 4
Found 10.0.1.158, Granite-36, SN 103
Found 4 instruments
Press any key to continue . . .
```


Live Presentation