

Local Data Acquisition

A wide-angle photograph of a coastal landscape. In the foreground, dark, choppy water covers the bottom third of the frame. Above the water, a long, low-lying island or headland stretches across the middle ground. The island is covered with a dense forest of evergreen trees. On the right side of the island, several white wind turbines with three blades each are visible, standing tall against the sky. The background is a vast, light blue sky filled with various types of clouds, from wispy cirrus to large, billowing cumulus. The overall scene suggests a remote, natural location, possibly a wind energy site.

Adding Digitizers, Ex: Quanterra Q330

- Get the Dataless SEED from PDCC for your station, and import it into the Inventory. Sync so you see it in the bindings. In my example, it ISTI's test station NP2 in the nonexistent XX network
- Create a new seedlink profile. Call it slink_q330
- Double-click on the new profile to open it up. Instead of creating a Chain, look at the popup list.

Choose q330 – Quanterra Q330 UDP/IP

The screenshot shows the Seislink software interface with the following details:

- Left Panel (Networks):** Lists various network profiles: AF, G, GE, GT, HL, II, IM, IU, KO, MN, PF, PM, ZT, ZZ, and NP2.
- Central List View:** A tree view of server plugins. The "seedlink" node is expanded, showing its sub-plugins: slink, slink_q330, and slink_IRIS. The "slink_q330" plugin is highlighted with an orange background.
- Right Panel (Details):** A detailed view of the selected "slink_q330" plugin. It shows the full path as `seedlink/slink_q330`. Below this, it lists the "of disk buffer" and "of Mini-SEED" sections, both of which are currently empty. A note states "created by The ...".
- Bottom Bar:** Shows icons for arclink, global, slarchi..., and other software components.

Put In Relevant Info

The image shows a software interface for configuring a seedlink connection. On the left, a configuration panel titled "sources" contains a section for "q330". It includes fields for "address" (newpaltz.isti.com), "port" (5330), "udpport" (auto), "proc" (empty), "slot" (1), "serial" (0x010000069a41263), and "auth" (0x00). On the right, a file browser window shows a directory structure under "seedlink" containing "slink_IRIS", "slink_IRIS_HH", and "slink_q330". Below the file browser are three icons: a white folder, a blue folder, a red folder, and a black folder.

sources

q330

address: newpaltz.isti.com
Hostname or IP.

port: 5330
Source port to receive data packets.

udpport: auto
UDP port.

proc:
Name of the proc object (defined in streams.xml); used ...

slot: 1
Q330 dataport number (1-4).

serial: 0x010000069a41263
Q330 serial number (with 0x prefix).

auth: 0x00
Q330 auth code (with 0x prefix).

seedlink

- slink_IRIS
- slink_IRIS_HH
- slink_q330**

+ q330 - Quanterra Q330 (UDP/IP)



Update Configuration

- Drag your new slink_q330 onto the new station you just added.
- Go to System tab: Press “ESC” key
- Update Configuration
- Restart Seedlink
- Check with slinktool



We've Got Data!

- sysop@ubuntu14 \$ slinktool -Q : | grep NP
- ZZ NP2 ACE T 2017/08/24 00:28:09.9999 - 2017/08/24 00:45:37.9999
- ZZ NP2 BHE D 2017/08/24 00:28:08.4195 - 2017/08/24 00:49:09.4195
- ZZ NP2 BHN D 2017/08/24 00:28:08.4195 - 2017/08/24 00:49:09.4195
- ZZ NP2 BHZ D 2017/08/24 00:28:08.4195 - 2017/08/24 00:49:09.4195
- ZZ NP2 HHE D 2017/08/24 00:28:09.9683 - 2017/08/24 00:49:10.9683
- ZZ NP2 HHN D 2017/08/24 00:28:09.9683 - 2017/08/24 00:49:10.9683
- ZZ NP2 HHZ D 2017/08/24 00:28:09.9683 - 2017/08/24 00:49:10.9683



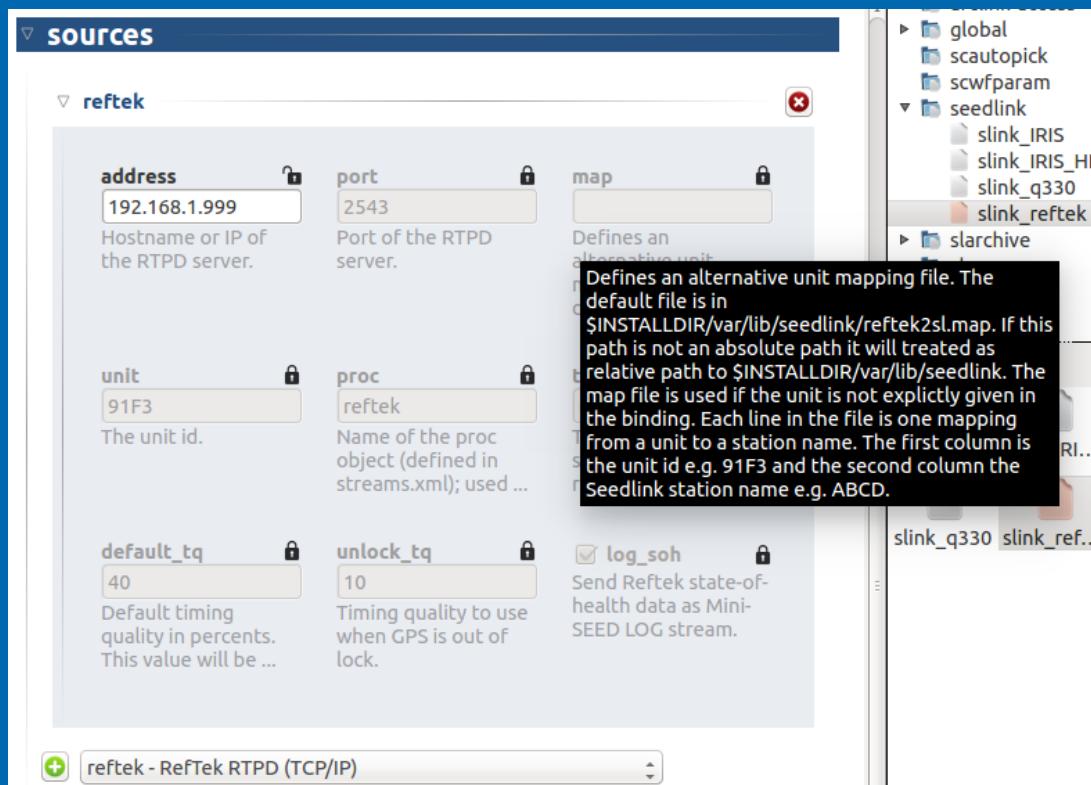
Issues With a New Station?

- Check the log. The Seedlink log is here:
- `tail -f ~/seiscomp3/var/log/seedlink.log`
- Thu Aug 24 02:49:49 2017 - seedlink:
127.0.0.1:60858 : ATD : DATA 0007EE
- Thu Aug 24 02:49:49 2017 - seedlink:
127.0.0.1:60858 : STATION TRIS G
- Thu Aug 24 02:49:49 2017 - seedlink:
127.0.0.1:60858 : TRIS : DATA

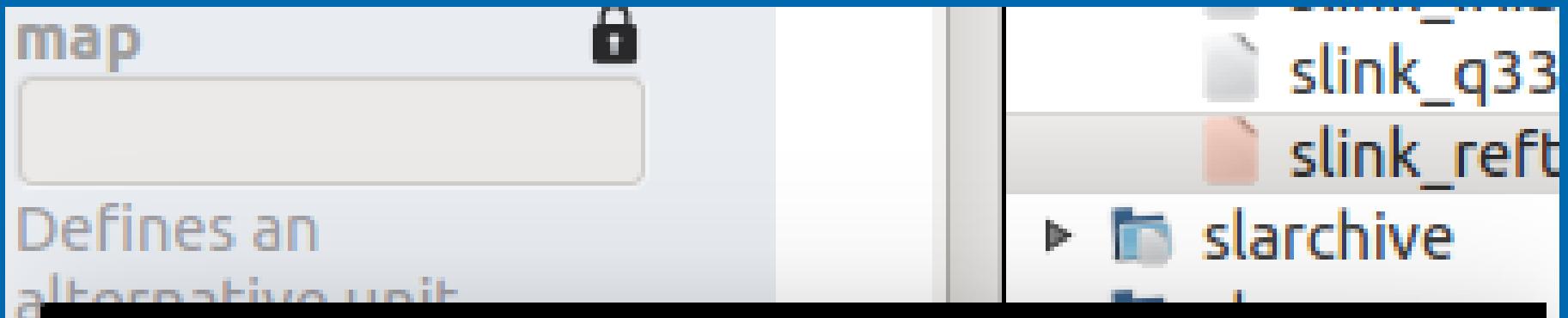


Example #2 Reftek

- Same sequence... add metadata, add Seedlink plugin reftek – RefTek RTPD (TCP/IP), and configure it here.



Create a Map File



Defines an alternative unit mapping file. The default file is in `$INSTALLDIR/var/lib/seedlink/reftek2sl.map`. If this path is not an absolute path it will be treated as relative path to `$INSTALLDIR/var/lib/seedlink`. The map file is used if the unit is not explicitly given in the binding. Each line in the file is one mapping from a unit to a station name. The first column is the unit id e.g. 91F3 and the second column the Seedlink station name e.g. ABCD.

reftek2sl.map

- B3E8 OHN1
- B42F OHN3
- B948 OHN4
- B980 OHM6
- B95C OHM8

- --- you'll need to create this file, it doesn't already exist for you ---



Tricky Part

- cd to
~/seiscomp3/share/templates/seedlink/reftek
- Look at the standard template file there:
- streams_reftek.tpl
- sysop@ubuntu14:~/seiscomp3/share/templates/seedlink\$ cat reftek/streams_reftek.tpl
- <proc name="reftek">
- <tree>
- <input name="0.0" channel="Z" location="" rate="100"/>
- <input name="0.1" channel="N" location="" rate="100"/>



reftek/streams_reftek.tpl

```
> <proc name="reftek">
>   <tree>
>     <input name="0.0" channel="Z" location="" rate="100"/>
>     <input name="0.1" channel="N" location="" rate="100"/>
>     <input name="0.2" channel="E" location="" rate="100"/>
>     <node stream="HH"/>
>   </tree>
>   <tree>
>     <input name="0.3" channel="Z" location="" rate="100"/>
>     <input name="0.4" channel="N" location="" rate="100"/>
>     <input name="0.5" channel="E" location="" rate="100"/>
>     <node stream="HN"/>
>
```



Tricky Part

- Add that to
- `~/seiscomp3/var/lib/seedlink/streams.xml`
- If the above doesn't exist, create it. It must start with
- `<streams>`
- And end with
- `</streams>`
- The procname must match what's on the config screen in scconfig.

Usual Update etc.

- Add the new seedlink profile on top of your new metadata
- Save the bindings
- Update Config
- Restart relevant modules



Example 3 Guralp – look in templates for help

seiscomp3/share/templates/seedlink/scream\$ cat
scream2sl.map

```
#  
#keyword      stream network station channel ID  
#
```

```
ChanInfo PMSTZ4 IP PMST      BHZ 1
```

```
ChanInfo PMSTN4 IP PMST      BHN 2
```

```
ChanInfo PMSTE4 IP PMST      BHE 3
```

```
ChanInfo PACTZ4 IP PACT      BHZ 4
```

```
ChanInfo PACTN4 IP PACT      BHN 5
```

```
ChanInfo PACTE4 IP PACT      BHE 6
```

To take also the sysid into account prepend it to the

streamid separated by a dot



Usual Update etc.

- Add the new seedlink profile on top of your new metadata
- Save the bindings
- Update Config
- Restart relevant modules
- Look at the reftek example; maybe examine streams.xml if you don't see data

