

TheLinkBox

wiki.allstarlink.org

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1 TheLinkBox

Legacy Version - This page is about a legacy version of AllStarLink. See ¹

It is possible to interface an app_rpt installation with TheLinkBox Program (by Skip, WB6YMH), using the chan_tlb channel driver.

The connection(s) are accessed and referred to by a locally-assigned (private) node number, starting with '1' (generally 1000-1999, as are any nodes not in the 'public' numbering space). Since the interface is unique to the app_rpt installation, other app_rpt stations must first connect to the app_rpt node(s) configured to connect with the desired TheLinkBox station(s).

Both TheLinkBox and app_rpt sides of the connection must choose a consecutive pair of UDP port numbers on which to communicate (ports 44966/44967 typically) and also must both be on static IP addresses.

TheLinkBox supports the codecs ULAW, G726 and GSM. The app_rpt side of the connection dictates which codec is to be used.

To enable TheLinkBox connectivity, there must be a file /etc/asterisk/tlb.conf specified as follows:

```
[tlb0]
call=WB6NIL-R           ; Call of the app_rpt station
port=44966              ; Start of UDP port range (this port, port + 1)
astnode=2008            ; app_rpt node associated with this instance (for
  incoming connections)
context=radio-secure    ; Asterisk context for incoming connections
codec=ULAW              ; Default CODEC to be used
```

```
[nodes]
1001 = W6ABC,12.34.56.78,44966      ; This one is for W6ABC at ip
  12.34.56.78:44966 default CODEC
1002 = W1XYZ,11.22.33.44,1234,G726 ; This one is for W1XYZ at ip
  11.22.33.44:1234 with G726 CODEC
```

You can, if you wish, have multiple instances under different sections (such as [tlb1], etc) as long as they are on different UDP port pairs.

NOTE: The UDP port pair must start with an even port number. The even port is for the RTP (audio) and the odd port is for the RTCP (control/supervisory).

Insure /etc/asterisk/modules.conf loads chan_tlb.so:

¹ <https://allstarlink.github.io/adv-topics/tlb>

```
load => chan_tlb.so ;TheLinkBox Channel Driver
```

On TheLinkBox side, you must specify the following in the main configuration file (generally tlb.conf):

```
RTP_Port = 44966
```

And you must have an entry in your ACL file (generally tlb.acl) for each app_rpt node as follows:

```
allow WB6NIL 99.88.77.66 - -R
```

This particular example would allow station WB6NIL-R access from ip 99.88.77.66.

NOTE: You must be running at least version 0.47 of TheLinkBox to use this feature.

1.1 Contributors

- VE7FET²
- WD6AWP³
- This page was last edited on 5 June 2025, at 00:12.

² <https://wiki.allstarlink.org/index.php?title=User:VE7FET&action=edit&redlink=1>

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Version 3, 29 June 2007

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