

## Code

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- [GUI code](#) (Perl for quagga)
- [monitor](#) (Perl. Can be used with Asterisk, GnuGK, Cisco (you can use Cisco for CO-BGP instead of quagga), Yate. Can be easily extended.)
- [monitorcobgp](#) (TCL, can be run by Embedded Event Manager (EEM)) [Cisco TCL/EEM mini-howto](#) (older version [monitor](#))
- [CHF code](#) (Perl. The code implements the lookup function and the “glue” to make it work with Asterisk.) Note: You must also have the monitor script (the previous bullet) running with subroutine write\_plaintext. It will populate an intermediate CO-table (at the moment a plain text file “COtable.txt”, you can easily make it use a database also). The CHF will use the intermediate table instead of the CO-BGP table directly (Option 6).
- [CHF code](#) (C. Implements the lookup function, as well as Asterisk FastAGI “bindings”). Note: You must also have the monitor script (the previous bullet) running with subroutine write\_plaintext. It will populate an intermediate CO-table (at the moment a plain text file “COtable.txt”, you can easily make it use a database also). The CHF will use the intermediate table instead of the CO-BGP table directly.
- [Convert](#) an IPv6 prefix to a telephony prefix (and vice versa; Perl)

## Configuration

### Asterisk (tested in Linux Debian 6.0)

- [sip.conf](#)
- [h323.conf](#)
- [extensions.conf](#)
- [modules.conf](#)

### GnuGK (tested in Linux Debian 6.0)

- See guidelines in the comments of the monitor code (above subroutine write\_gnugk).

### Yate (tested in Linux Debian 6.0)

- See guidelines from the monitor code (above subroutine write\_yate).

### Cisco ISR 2921

- [Cisco ISR BGP configuration](#). NOTE: In this configuration the CO-BGP neighbor (in this example 10.10.5.12) and the “normal” eBGP neighbor (10.63.0.2) are handled from the same router. In other words, **no dedicated “CO-BGP router” is needed**.
- [Cisco ISR voice configuration example](#).

## Quagga

**Debian** (in this example configuration, CO-BGP and the “normal” BGP are handled from the same process):

- [/etc/quagga/bgpd.conf](#)
- [/etc/network/interfaces](#)
- [/etc/quagga/debian.conf](#)
- [/etc/quagga/zebra.conf](#)

**CentOS:** Same as with Debian.

**Note that no IPv4 networks are advertised to CO-BGP neighbor (10.10.0.12), and no IPv6 networks to CL-BGP neighbor (10.63.0.1):**

```
# vtysh -c 'show ip bgp neighbors 10.63.0.1 advertised-routes'
> 10.10.5.0/24      10.63.0.2      0      32768 i
# vtysh -c 'show ipv6 bgp neighbors 10.63.0.1 advertised-routes'
% No such neighbor or address family
# vtysh -c 'show ip bgp neighbors 10.10.0.12 advertised-routes'
# vtysh -c 'show ipv6 bgp neighbors 10.10.0.12 advertised-routes'
*> 2001:db8:941:215::/64
2001:db8::10:10:5:12
                                0 32768 i
```

(Scripts, configuration and documentation by Visa Holopainen -2013)

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