

# Getting routing information in BSD and CVS commit system

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## Getting routing information in BSD: Systems

- FreeBSD: Yes
- NetBSD: Not yet, but it should be similar as in FreeBSD

## Getting routing information in BSD: What do we want?

- Interface:
  - Name
  - Type
  - Addresses
  - State (up/down)
- Route:
  - Destination address/network
  - Gateway
  - Interface
  - Metrics

- Neighbour:
  - Address
  - Hardware address
  - Interface
- Filtering:
  - Packet filtering
  - BPF
  - ...

## Getting routing information in BSD: Methods

- Startup state is retrieved from `sysctl()`
- State changing in runtime is readed from routing socket
- Both methods use the same format of messages

## CVS commit system: Features

- Adopted from FreeBSD's development CVS tree
- Commit mails from developers are sent to mailing list [commit@liberouter.org](mailto:commit@liberouter.org)
- Mails contain:
  - Commit author and date
  - Modified files
  - Added files
  - Removed files
  - Commit log
  - Current version of each file
  - Number of changed lines in each file

- Many changes in different directories in one commit mail is the only way, how to track atomic commits in CVS!
  - Diffs directly in commit mails
  - File contents checking
  - Access control lists
  - ...
- There are many other features, which we do not use (yet :o):

## CVS commit system: Example message

cejkar 2003/07/09 20:54:18 MST

Liberouter CVS repository

Modified files:

·  
cfg\_local.pm

Added files:

·  
newfile.txt

Removed files:

·  
oldfile.txt

Log:

Added scampi module.

Added newfile.txt and removed oldfile.txt.

Revision	Changes	Path
1.8	+1 -0	CVSR00T/cfg_local.pm
1.1	+10 -0	CVSR00T/newfile.txt (new)
1.2	+0 -10	CVSR00T/oldfile.txt (dead)