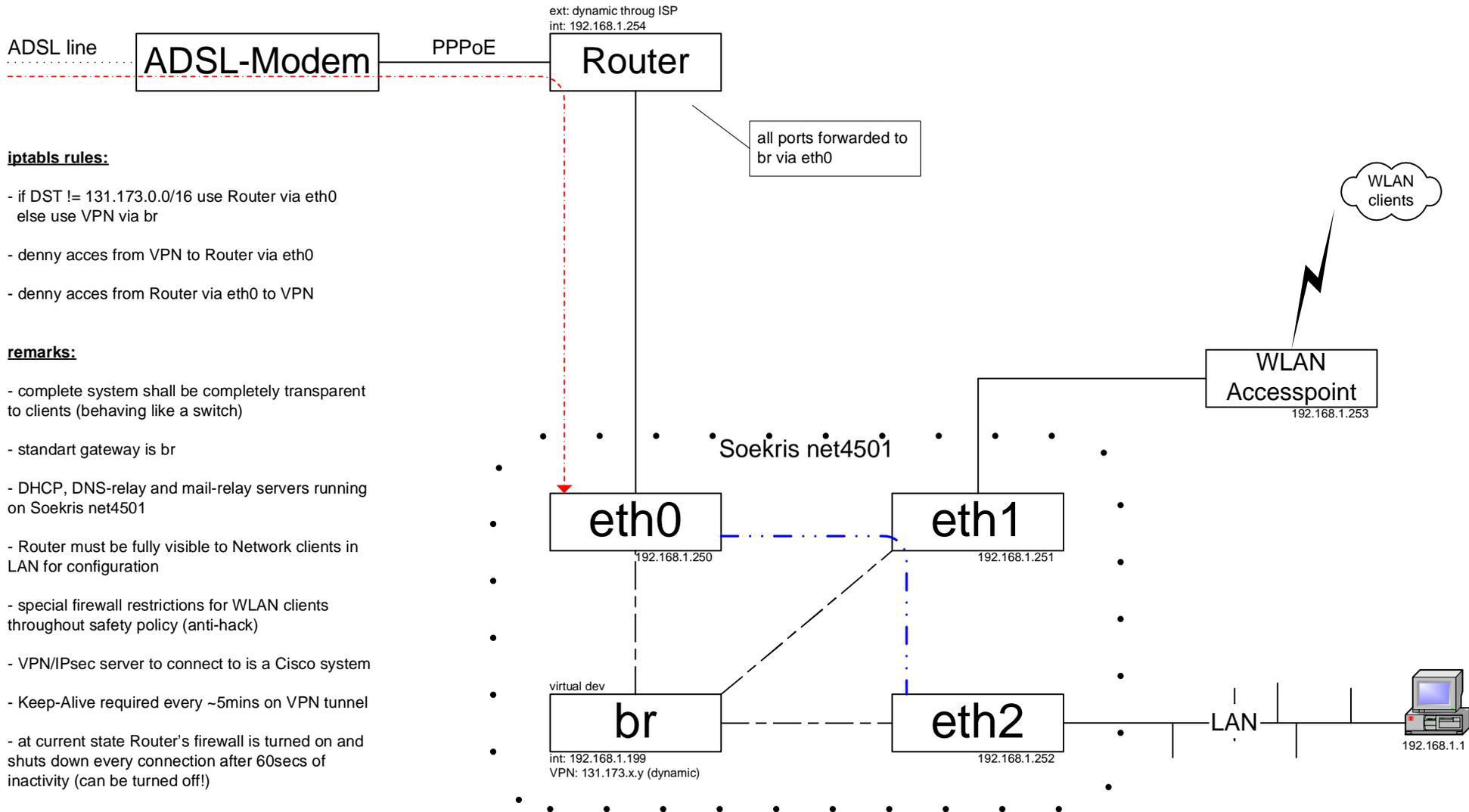# Routing with Soekris net4501 und VPN

© 2006 by Michael Przysucha - Stand: 17.02.2006

— — — internal „wireing"

— — — external „wireing"

—·—·—· VPN/IPsec tunnel to HoNOs

—·—·— virtual Layer-2 connection (switching)

ADSL line

ADSL-Modem

PPPoE

ext: dynamic throug ISP
int: 192.168.1.254

Router

all ports forwarded to
br via eth0

WLAN clients

WLAN Accesspoint
192.168.1.253

iptabls rules:

- if DST != 131.173.0.0/16 use Router via eth0
  else use VPN via br

- denny acces from VPN to Router via eth0

- denny acces from Router via eth0 to VPN

remarks:

- complete system shall be completely transparent
to clients (behaving like a switch)

- standart gateway is br

- DHCP, DNS-relay and mail-relay servers running
on Soekris net4501

- Router must be fully visible to Network clients in
LAN for configuration

- special firewall restrictions for WLAN clients
throughout safety policy (anti-hack)

- VPN/IPsec server to connect to is a Cisco system

- Keep-Alive required every ~5mins on VPN tunnel

- at current state Router's firewall is turned on and
shuts down every connection after 60secs of
inactivity (can be turned off!)

IP ranges:

- private IP subnet: 255.255.255.0

Soekris net4501

eth0
192.168.1.250

eth1
192.168.1.251

virtual dev

br
int: 192.168.1.199
VPN: 131.173.x.y (dynamic)

eth2
192.168.1.252

LAN

192.168.1.1