# Gateway-based scenario:
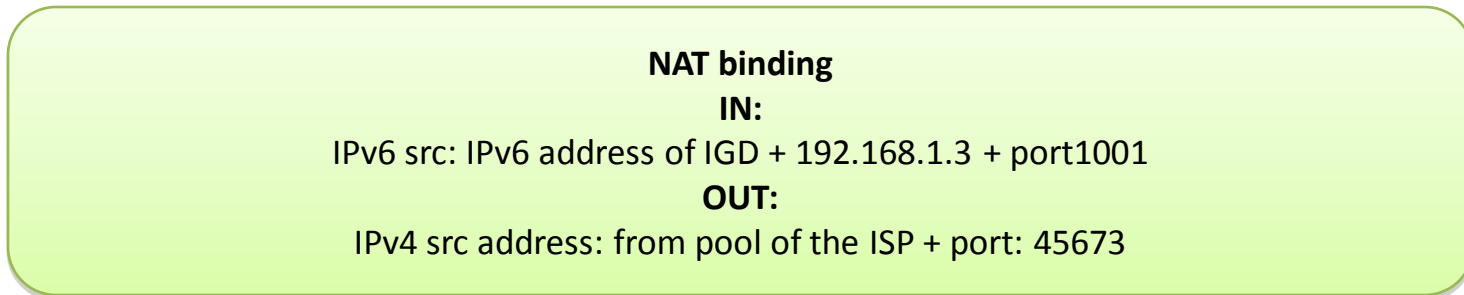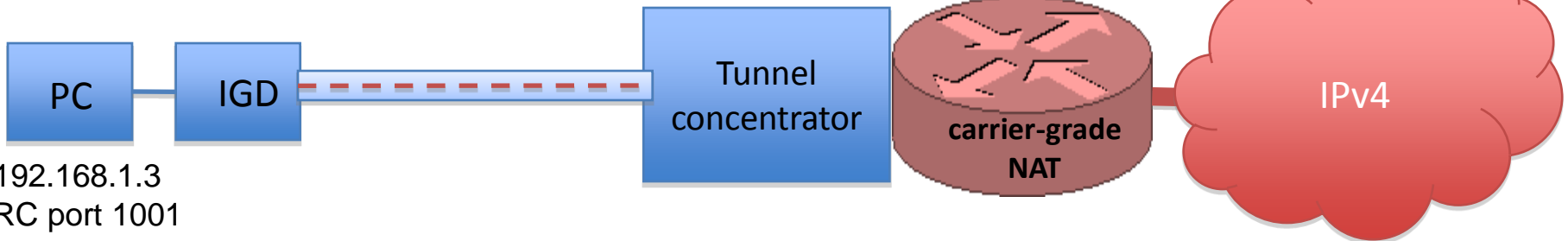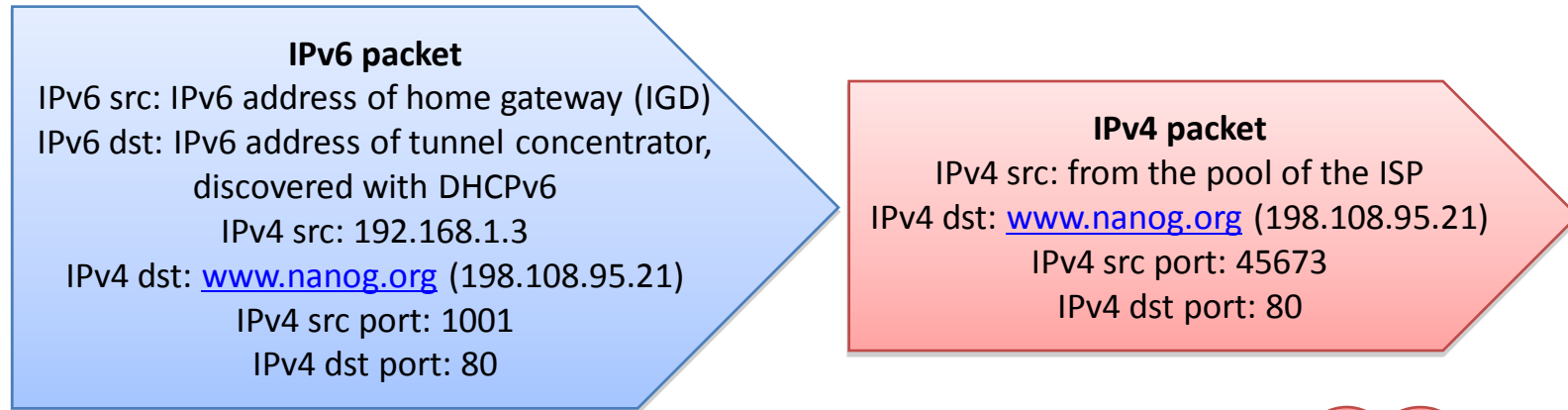# IGD are provisioned with IPv6-only + IPv4 support for the home PC from a carrier-grade NAT

**IPv6 packet**
IPv6 src: IPv6 address of home gateway (IGD)
IPv6 dst: IPv6 address of tunnel concentrator,
discovered with DHCPv6
IPv4 src: 192.168.1.3
IPv4 dst: www.nanog.org (198.108.95.21)
IPv4 src port: 1001
IPv4 dst port: 80

**IPv4 packet**
IPv4 src: from the pool of the ISP
IPv4 dst: www.nanog.org (198.108.95.21)
IPv4 src port: 45673
IPv4 dst port: 80

PC — IGD — Tunnel concentrator — carrier-grade NAT — IPv4

192.168.1.3
SRC port 1001

**NAT binding**
**IN:**
IPv6 src: IPv6 address of IGD + 192.168.1.3 + port1001
**OUT:**
IPv4 src address: from pool of the ISP + port: 45673

# End-node scenario:
# Dual-stack capable end-nodes are provisioned with IPv6-only + IPv4 support from a carrier-grade NAT

**IPv6 packet**
IPv6 src: IPv6 address of end-node
IPv6 dst: IPv6 address of tunnel concentrator, discovered with DHCPv6
IPv4 src: well known IPv4 address: (IANA defined)
IPv4 dst: www.nanog.org (198.108.95.21)
IPv4 src port: 1001
IPv4 dst port: 80

**IPv4 packet**
IPv4 src: from the pool of the ISP
IPv4 dst: www.nanog.org (198.108.95.21)
IPv4 src port: 45673
IPv4 dst port: 80

Host

Tunnel concentrator

carrier-grade NAT

IPv4

**NAT binding**
**IN:**
IPv6 address of end node + well known IPv4 address of end-node (IANA defined) + port1001
**OUT:**
IPv4 src address: from pool of the ISP + port: 45673