DHCPv4 Sequences and Messages

Client

Relay

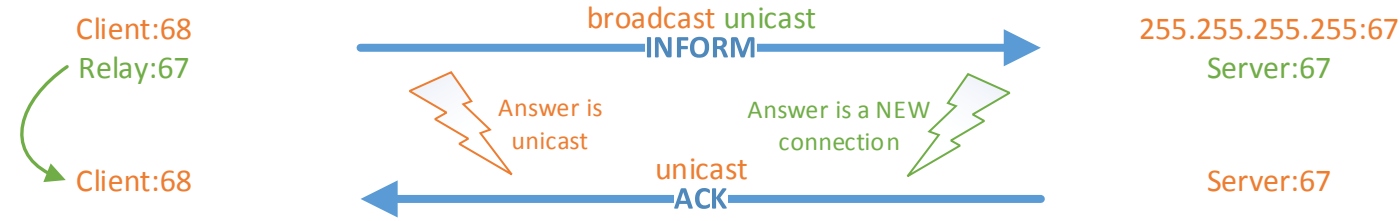
Server

Client to server: same broadcast domain.
Relay to server via routers: src and dst ports are everytime 67.
Firewall Rules (if Firewall=DHCP-Server): No rule required
Firewall Rules (Relay): Relay:67 to Server:67

Windows

Server

Some Windows clients send INFORM messages.
The answer does NOT match an existing connection! It is sent directly to the client.
Firewall Rules (if Firewall=DHCP-Server): Server:67 to Subnet:68
Firewall Rules (Relay): Relay:67 to Server:67* + Server:67 to Subnet:68



RENEWING

Server

RFC 2131, Section 4.3.2, DHCPREQUEST generated during RENEWING state:
„This message will be unicast, so no relay agents will be involved in its transmission."
Firewall Rules (if Firewall=DHCP-Server): Subnet:68 to Server:67
Firewall Rules (Relay): Subnet:68 to Server:67

Linux

Server

Upon shutdown, Linux sends a final RELEASE message to the server.
Firewall Rules (if Firewall=DHCP-Server): Subnet:68 to Server:67*
Firewall Rules (Relay): Subnet:68 to Server:67*

* Firewall Rule already exists from a before mentioned message.