

### General Configuration

**Enable**  Enable interface

**Description**

Enter a description (name) for the interface here.

**IPv4 Configuration Type**

**IPv6 Configuration Type**

**MAC Address**

This field can be used to modify ("spoof") the MAC address of this interface.  
Enter a MAC address in the following format: xx:xx:xx:xx:xx:xx or leave blank.

**MTU**

If this field is blank, the adapter's default MTU will be used. This is typically 1500 bytes but can vary in some circumstances.

**MSS**

If a value is entered in this field, then MSS clamping for TCP connections to the value entered above minus 40 (TCP/IP header size) will be in effect.

## DHCP6 Client Configuration

### Options

Advanced Configuration

Use advanced DHCPv6 configuration options.

Configuration Override

Override the configuration from this file.

### Use IPv4 connectivity as parent interface

Request a IPv6 prefix/information through the IPv4 connectivity link

### Request only an IPv6 prefix

Only request an IPv6 prefix, do not request an IPv6 address

### DHCPv6 Prefix Delegation size

48

The value in this field is the delegated prefix length provided by the DHCPv6 server. Normally specified by the ISP.

### Send IPv6 prefix hint

Send an IPv6 prefix hint to indicate the desired prefix size for delegation

### Debug

Start DHCP6 client in debug mode

### Do not wait for a RA

Required by some ISPs, especially those not using PPPoE

### Do not allow PD/Address release

dhcp6c will send a release to the ISP on exit, some ISPs then release the allocated address or prefix. This option prevents that signal ever being sent

# Advanced DHCP6 Client Configuration

## Information only

Exchange Information Only

Only exchange informational configuration parameters with servers.

## Send options

DHCP send options to be sent when requesting a DHCP lease. [option declaration [, ...]]

Value Substitutions: {interface}, {hostname}, {mac\_addr\_asciiCD}, {mac\_addr\_hexCD}

Where C is U(pper) or L(ower) Case, and D is " :-" Delimiter (space, colon, hyphen, or period) (omitted for none).

Some DHCP services may require certain options be or not be sent.

## Request Options

DHCP request options to be sent when requesting a DHCP lease. [option [, ...]]

Some DHCP services may require certain options be or not be requested.

## Scripts

Absolute path to a script invoked on certain conditions including when a reply message is received.

[/[dirname/[.../]]filename[.ext]].

## Identity Association Statement

Non-Temporary Address Allocation

id-assoc na ID

IPv6 address

pltime

vlttime

Prefix Delegation

id-assoc pd ID

IPv6 prefix

pltime

vlttime

## Prefix interface statement

Prefix Interface sla-id

sla-len

## Prefix Interface

Select the interface on which to apply the prefix delegation.

## Authentication statement

Authname

Protocol

Algorithm

RDM

## Keyinfo statement

Keyname

Realm

KeyID

Secret

Expire

**Username**

XXXXX|@dsl.mnet-online.de

**Password**

••••••••

••••••••

Confirm

**Service name**

This field can usually be left empty.

**Host-Uniq**

A unique host tag value for this PPPoE client. Leave blank unless a value is required by the service provider.

**Dial on demand**

Enable Dial-On-Demand mode

**Idle timeout**

If no qualifying outgoing packets are transmitted for the specified number of seconds, the connection is brought down. An idle timeout of zero disables this feature.

**Periodic reset**

Disabled

Select a reset timing type.

**Advanced and MLPPP**

 [Advanced and MLPPP](#)

Click for additional PPPoE configuration options. Save first if changes have been made.

## Reserved Networks

**Block private networks and loopback addresses**

Blocks traffic from IP addresses that are reserved for private networks per RFC 1918 (10/8, 172.16/12, 192.168/16) and unique local addresses per RFC 4193 (fc00::/7) as well as loopback addresses (127/8). This option should generally be turned on, unless this network interface resides in such a private address space, too.

**Block bogon networks**

Blocks traffic from reserved IP addresses (but not RFC 1918) or not yet assigned by IANA. Bogons are prefixes that should never appear in the Internet routing table, and so should not appear as the source address in any packets received.

This option should only be used on external interfaces (WANs), it is not necessary on local interfaces and it can potentially block required local traffic. Note: The update frequency can be changed under System > Advanced, Firewall & NAT settings.

```
[2.5.0-RELEASE][admin@pfSense.localdomain]/root: cat /var/etc/dhcp6c_wan.conf
interface pppoe0 {
    send ia-pd 0;
    request domain-name-servers;
    request domain-name;
    script "/var/etc/dhcp6c_wan_script.sh";
};
id-assoc pd 0 {
    prefix-interface pppoe0 {
        sla-id 0;
        sla-len 16;
    };
};
[2.5.0-RELEASE][admin@pfSense.localdomain]/root: grep dhcp6c /var/log/dhcpd.log | tail -n3
Mar  3 16:37:36 pfSense dhcp6c[53483]: link layer address is too short (pppoe0)
Mar  3 16:37:36 pfSense dhcp6c[53483]: failed to get default IF ID for pppoe0
Mar  3 16:37:36 pfSense dhcp6c[53483]: failed to parse configuration file
```