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### ***Linux Ubuntu 22.4.5 Manual Pages on command 'Net::DNS::RR::OPT.3pm'***

***\$ man Net::DNS::RR::OPT.3pm***

Net::DNS::RR::OPT(3pm) User Contributed Perl Documentation Net::DNS::RR::OPT(3pm)

NAME

Net::DNS::RR::OPT - DNS OPT resource record

SYNOPSIS

```
use Net::DNS;

$packet = new Net::DNS::Packet( ... );

$packet->header->do(1);           # extended flag

$packet->edns->size(1280);        # UDP payload size

$packet->edns->option( COOKIE => $cookie );

$packet->edns->print;

;; EDNS version 0

;; flags: 8000

;; rcode: NOERROR

;; size: 1280

;; option: DAU => ( 8, 10, 13, 14, 15, 16 )

;; DHU => ( 1, 2, 4 )

;; COOKIE => ( CLIENT-COOKIE => 7261776279746573,

;; SERVER-COOKIE => )
```

DESCRIPTION

EDNS OPT pseudo resource record.

The OPT record supports EDNS protocol extensions and is not intended to be created, accessed or modified directly by user applications.

All EDNS features are performed indirectly by operations on the objects returned by the `$packet->header` and `$packet->edns` creator methods. The underlying mechanisms are entirely hidden from the user.

## METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

### version

```
$version = $rr->version;
```

```
$rr->version( $version );
```

The version of EDNS supported by this OPT record.

### size

```
$size = $packet->edns->size;
```

```
$more = $packet->edns->size(1280);
```

`size()` advertises the maximum size (octets) of UDP packet that can be reassembled in the network stack of the originating host.

### rcode

```
$extended_rcode = $packet->header->rcode;
```

```
$incomplete_rcode = $packet->edns->rcode;
```

The 12 bit extended RCODE. The most significant 8 bits reside in the OPT record.

The least significant 4 bits can only be obtained from the packet header.

### flags

```
$edns_flags = $packet->edns->flags;
```

```
$do = $packet->header->do;
```

```
$packet->header->do(1);
```

16 bit field containing EDNS extended header flags.

### options, option

```
@option = $packet->edns->options;
```

```
$octets = $packet->edns->option($option_code);
```

```
$packet->edns->option( COOKIE => $cookie );
```

```
$packet->edns->option( 10 => $cookie );
```

When called in a list context, `options()` returns a list of option codes found in the OPT record.

When called in a scalar context with a single argument, `option()` returns the uninterpreted octet string corresponding to the specified option. The method returns `undef` if the specified option is absent.

Options can be added or replaced by providing the `(name => string)` pair. The option is deleted if the value is undefined.

When `option()` is called in a list context with a single argument, the returned array provides a structured interpretation appropriate to the specified option.

For the example above:

```
%hash = $packet->edns->option(10);  
  
%hash = (  
    'CLIENT-COOKIE' => 'rawbytes',  
    'SERVER-COOKIE' => "  
    );
```

For some options, an array is more appropriate:

```
@algorithms = $packet->edns->option(6);
```

Similar forms of array or hash syntax may be used to construct the option value:

```
$packet->edns->option( DHU => [1, 2, 4] );  
  
$packet->edns->option( COOKIE => {'CLIENT-COOKIE' => $cookie} );
```

## COPYRIGHT

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SEE ALSO

perl, Net::DNS, Net::DNS::RR, RFC6891, RFC3225

perl v5.30.0

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Net::DNS::RR::OPT(3pm)