

**NAME**

Net::DNS::RR::NSEC – DNS NSEC resource record

**SYNOPSIS**

```
use Net::DNS;
$rr = new Net::DNS::RR( 'name NSEC nxdname typelist' );
```

**DESCRIPTION**

Class for DNSSEC NSEC resource records.

**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.

**nxdname**

```
$nxdname = $rr->nxdname;
$rr->nxdname( $nxdname );
```

The Next Domain field contains the next owner name (in the canonical ordering of the zone) that has authoritative data or contains a delegation point NS RRset.

**typelist**

```
@typelist = $rr->typelist;
$typelist = $rr->typelist;
```

**typelist()** identifies the RRset types that exist at the NSEC RR owner name. When called in scalar context, the list is interpolated into a string.

**typemap**

```
$exists = $rr->typemap($rrtype);
```

**typemap()** returns a Boolean true value if the specified RRtype occurs in the type bitmap of the NSEC record.

**match**

```
$matched = $rr->match( 'example.foo' );
```

**match()** returns a Boolean true value if the canonical form of the name argument matches the canonical owner name of the NSEC RR.

**covers**

```
$covered = $rr->covers( 'example.foo' );
```

**covers()** returns a Boolean true value if the canonical form of the name, or one of its ancestors, falls between the owner name and the nxdname field of the NSEC record.

**encloser, nextcloser, wildcard**

```
$encloser = $rr->encloser( 'example.foo' );
print "encloser: $encloser\n" if $encloser;
```

**encloser()** returns the name of a provable encloser of the query name argument obtained from the NSEC RR.

**nextcloser()** returns the next closer name, which is one label longer than the closest encloser. This is only valid after **encloser()** has returned a valid domain name.

**wildcard()** returns the unexpanded wildcard name from which the next closer name was possibly synthesised. This is only valid after **encloser()** has returned a valid domain name.

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## **SEE ALSO**

perl, Net::DNS, Net::DNS::RR, RFC4034, RFC3755