### NAME

Net::DNS::RR::DS - DNS DS resource record

# **SYNOPSIS**

```
use Net::DNS;
$rr = new Net::DNS::RR('name DS keytag algorithm digtype digest');
use Net::DNS::SEC;
$ds = create Net::DNS::RR::DS(
    $dnskeyrr,
    digtype => 'SHA256',
    ttl => 3600
    );
```

### DESCRIPTION

Class for DNS Delegation Signer (DS) resource record.

### **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.

#### keytag

\$keytag = \$rr->keytag; \$rr->keytag( \$keytag );

The 16-bit numerical key tag of the key. (RFC2535 4.1.6)

#### algorithm

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

Decimal representation of the 8-bit algorithm field.

**algorithm**() may also be invoked as a class method or simple function to perform mnemonic and numeric code translation.

## digtype

\$digtype = \$rr->digtype; \$rr->digtype( \$digtype );

Decimal representation of the 8-bit digest type field.

**digtype()** may also be invoked as a class method or simple function to perform mnemonic and numeric code translation.

#### digest

\$digest = \$rr->digest; \$rr->digest( \$digest );

Hexadecimal representation of the digest over the label and key.

# digestbin

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

Binary representation of the digest over the label and key.

#### babble

print \$rr->babble;

The **babble**() method returns the 'BubbleBabble' representation of the digest if the Digest::BubbleBabble package is available, otherwise an empty string is returned.

BubbleBabble represents a message digest as a string of plausible words, to make the digest easier to verify. The "words" are not necessarily real words, but they look more like words than a string of hex characters.

The 'BubbleBabble' string is appended as a comment when the string method is called.

#### create

```
use Net::DNS::SEC;
```

```
$dsrr = create Net::DNS::RR::DS($keyrr, digtype => 'SHA-256' );
$keyrr->print;
$dsrr->print;
```

This constructor takes a key object as argument and will return the corresponding DS RR object.

The digest type defaults to SHA-1.

### verify

\$verify = \$dsrr->verify(\$keyrr);

The boolean verify method will return true if the hash over the key RR provided as the argument conforms to the data in the DS itself i.e. the DS points to the DNSKEY from the argument.

# COPYRIGHT

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# **SEE ALSO**

perl, Net::DNS, Net::DNS::RR, RFC4034, RFC3658

Algorithm Numbers <http://www.iana.org/assignments/dns-sec-alg-numbers>, Digest Types <http://www.iana.org/assignments/ds-rr-types>