

NAME

Net::DNS::SEC::EdDSA – DNSSEC EdDSA digital signature algorithm

SYNOPSIS

```
require Net::DNS::SEC::EdDSA;

$signature = Net::DNS::SEC::EdDSA->sign( $sigdata, $private );

$validated = Net::DNS::SEC::EdDSA->verify( $sigdata, $keyrr, $sigbin );
```

DESCRIPTION

Implementation of EdDSA Edwards curve digital signature generation and verification procedures.

sign

```
$signature = Net::DNS::SEC::EdDSA->sign( $sigdata, $private );
```

Generates the wire-format signature from the sigdata octet string and the appropriate private key object.

verify

```
$validated = Net::DNS::SEC::EdDSA->verify( $sigdata, $keyrr, $signature );
```

Verifies the signature over the sigdata octet string using the specified public key resource record.

ACKNOWLEDGMENT

Thanks are due to Eric Young and the many developers and contributors to the OpenSSL cryptographic library.

COPYRIGHT

Copyright (c)2014,2018 Dick Franks.

All rights reserved.

LICENSE

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of the author not be used in advertising or publicity pertaining to distribution of the software without specific prior written permission.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

SEE ALSO

Net::DNS, Net::DNS::SEC, RFC8032, RFC8080, OpenSSL <<http://www.openssl.org/docs>>