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Rocky Enterprise Linux 9.2 Manual Pages on command 'RSA_sign_ASN1_OCTET_STRING.3ossl'

\$ man RSA_sign_ASN1_OCTET_STRING.3ossl

RSA_SIGN_ASN1_OCTET_STRING(3ossl) OpenSSL RSA_SIGN_ASN1_OCTET_STRING(3ossl)

NAME

RSA_sign_ASN1_OCTET_STRING, RSA_verify_ASN1_OCTET_STRING - RSA signatures

SYNOPSIS

```
#include <openssl/rsa.h>
```

The following functions have been deprecated since OpenSSL 3.0, and can be hidden entirely by defining OPENSSL_API_COMPAT with a suitable version value, see openssl_user_macros(7):

```
int RSA_sign_ASN1_OCTET_STRING(int dummy, unsigned char *m,  
                               unsigned int m_len, unsigned char *sigret,  
                               unsigned int *siglen, RSA *rsa);
```

```
int RSA_verify_ASN1_OCTET_STRING(int dummy, unsigned char *m,
```

```
unsigned int m_len, unsigned char *sigbuf,  
unsigned int siglen, RSA *rsa);
```

DESCRIPTION

All of the functions described on this page are deprecated.

Applications should instead use EVP PKEY APIs.

`RSA_sign_ASN1_OCTET_STRING()` signs the octet string `m` of size `m_len` using the private key `rsa` represented in DER using PKCS #1 padding. It stores the signature in `sigret` and the signature size in `siglen`. `sigret` must point to `RSA_size(rsa)` bytes of memory.

`dummy` is ignored.

The random number generator must be seeded when calling `RSA_sign_ASN1_OCTET_STRING()`. If the automatic seeding or reseeding of the OpenSSL CSPRNG fails due to external circumstances (see `RAND(7)`), the operation will fail.

`RSA_verify_ASN1_OCTET_STRING()` verifies that the signature `sigbuf` of size `siglen` is the DER representation of a given octet string `m` of size `m_len`. `dummy` is ignored. `rsa` is the signer's public key.

RETURN VALUES

`RSA_sign_ASN1_OCTET_STRING()` returns 1 on success, 0 otherwise.

`RSA_verify_ASN1_OCTET_STRING()` returns 1 on successful verification, 0 otherwise.

The error codes can be obtained by `ERR_get_error(3)`.

BUGS

These functions serve no recognizable purpose.

SEE ALSO

ERR_get_error(3), RAND_bytes(3), RSA_sign(3), RSA_verify(3), RAND(7)

HISTORY

All of these functions were deprecated in OpenSSL 3.0.

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