

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)**.

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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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