

NAME

RSA_new, RSA_free - allocate and free RSA objects

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)**:

```
RSA *RSA_new(void);
```

```
void RSA_free(RSA *rsa);
```

DESCRIPTION

RSA_new() allocates and initializes an **RSA** structure. It is equivalent to calling **RSA_new_method(NULL)**.

RSA_free() frees the **RSA** structure and its components. The key is erased before the memory is returned to the system. If **rsa** is **NULL** nothing is done.

RETURN VALUES

If the allocation fails, **RSA_new()** returns **NULL** and sets an error code that can be obtained by **ERR_get_error(3)**. Otherwise it returns a pointer to the newly allocated structure.

RSA_free() returns no value.

SEE ALSO

ERR_get_error(3), **RSA_generate_key(3)**, **RSA_new_method(3)**

HISTORY

All functions described here were deprecated in OpenSSL 3.0. For replacement see **EVP_PKEY-RSA(7)**.

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