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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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