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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'EVP_MAC-GMAC.7ossl' command

$ man EVP_MAC-GMAC.7ossl

EVP_MAC-GMAC(7ossl) OpenSSL EVP_MAC-GMAC(7ossl)

NAME

EVP_MAC-GMAC - The GMAC EVP_MAC implementation

DESCRIPTION

Support for computing GMAC MACs through the EVP_MAC API.

This implementation uses EVP_CIPHER functions to get access to the underlying cipher.

Identity

This implementation is identified with this name and properties, to be used with EVP_MAC_fetch():

"GMAC", "provider=default" or "provider=fips"

Supported parameters

The general description of these parameters can be found in "PARAMETERS" in EVP_MAC(3).

The following parameter can be set with EVP_MAC_CTX_set_params():

"key" (OSSL_MAC_PARAM_KEY) <octet string>

Sets the MAC key. Setting this parameter is identical to passing a key to EVP_MAC_init(3).

"iv" (OSSL_MAC_PARAM_IV) <octet string>

Sets the IV of the underlying cipher, when applicable.

"cipher" (OSSL_MAC_PARAM_CIPHER) <UTF8 string>

Sets the name of the underlying cipher to be used.

"properties" (OSSL_MAC_PARAM_PROPERTIES) <UTF8 string>

Sets the properties to be queried when trying to fetch the underlying cipher. This must be given together with the cipher naming parameter to be considered valid.

The following parameters can be retrieved with EVP_MAC_CTX_get_params():

"size" (OSSL_MAC_PARAM_SIZE) <unsigned integer>

Gets the MAC size.

The "size" parameter can also be retrieved with EVP_MAC_CTX_get_mac_size(). The length of the "size" parameter is equal to that of an unsigned int.

SEE ALSO

EVP_MAC_CTX_get_params(3), EVP_MAC_CTX_set_params(3), "PARAMETERS" in EVP_MAC(3), OSSL_PARAM(3)

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