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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'EVP\_MAC-GMAC.7oss1'***

***\$ man EVP\_MAC-GMAC.7oss1***

EVP\_MAC-GMAC(7oss1)          OpenSSL          EVP\_MAC-GMAC(7oss1)

#### 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"

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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3.0.7

2023-07-13

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