



## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'EVP\_MAC-HMAC.7oss1' command**

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

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

### NAME

EVP\_MAC-HMAC - The HMAC EVP\_MAC implementation

### DESCRIPTION

Support for computing HMAC MACs through the EVP\_MAC API.

This implementation uses EVP\_MD functions to get access to the underlying digest.

### Identity

This implementation is identified with this name and properties, to be used with EVP\_MAC\_fetch():

"HMAC", "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)`.

"digest" (OSSL\_MAC\_PARAM\_DIGEST) <UTF8 string>

Sets the name of the underlying digest to be used.

"properties" (OSSL\_MAC\_PARAM\_PROPERTIES) <UTF8 string>

Sets the properties to be queried when trying to fetch the underlying digest. This must be given together with the digest naming parameter ("digest", or `OSSL_MAC_PARAM_DIGEST`) to be considered valid.

"digest-noinit" (OSSL\_MAC\_PARAM\_DIGEST\_NOINIT) <integer>

A flag to set the MAC digest to not initialise the implementation specific data. The value 0 or 1 is expected.

"digest-oneshot" (OSSL\_MAC\_PARAM\_DIGEST\_ONESHOT) <integer>

A flag to set the MAC digest to be a one-shot operation. The value 0 or 1 is expected.

"tls-data-size" (OSSL\_MAC\_PARAM\_TLS\_DATA\_SIZE) <unsigned integer>

The following parameter can be retrieved with `EVP_MAC_CTX_get_params()`:

"size" (OSSL\_MAC\_PARAM\_SIZE) <unsigned integer>

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.

"block-size" (OSSL\_MAC\_PARAM\_SIZE) <unsigned integer>

Gets the MAC block size. The "block-size" parameter can also be retrieved with `EVP_MAC_CTX_get_block_size()`.

## SEE ALSO

EVP\_MAC\_CTX\_get\_params(3), EVP\_MAC\_CTX\_set\_params(3), "PARAMETERS" in  
EVP\_MAC(3), OSSL\_PARAM(3), HMAC(3)

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