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Rocky Enterprise Linux 9.2 Manual Pages on command 'life_cycle-mac.7oss1'

\$ man life_cycle-mac.7oss1

LIFE_CYCLE-MAC(7oss1) OpenSSL LIFE_CYCLE-MAC(7oss1)

NAME

life_cycle-mac - The MAC algorithm life-cycle

DESCRIPTION

All message authentication codes (MACs) go through a number of stages in their life-cycle:

start

This state represents the MAC before it has been allocated. It is the starting state for any life-cycle transitions.

newed

This state represents the MAC after it has been allocated.

initialised

This state represents the MAC when it is set up and capable of

processing input.

updated

This state represents the MAC when it is set up and capable of processing additional input or generating output.

finalised

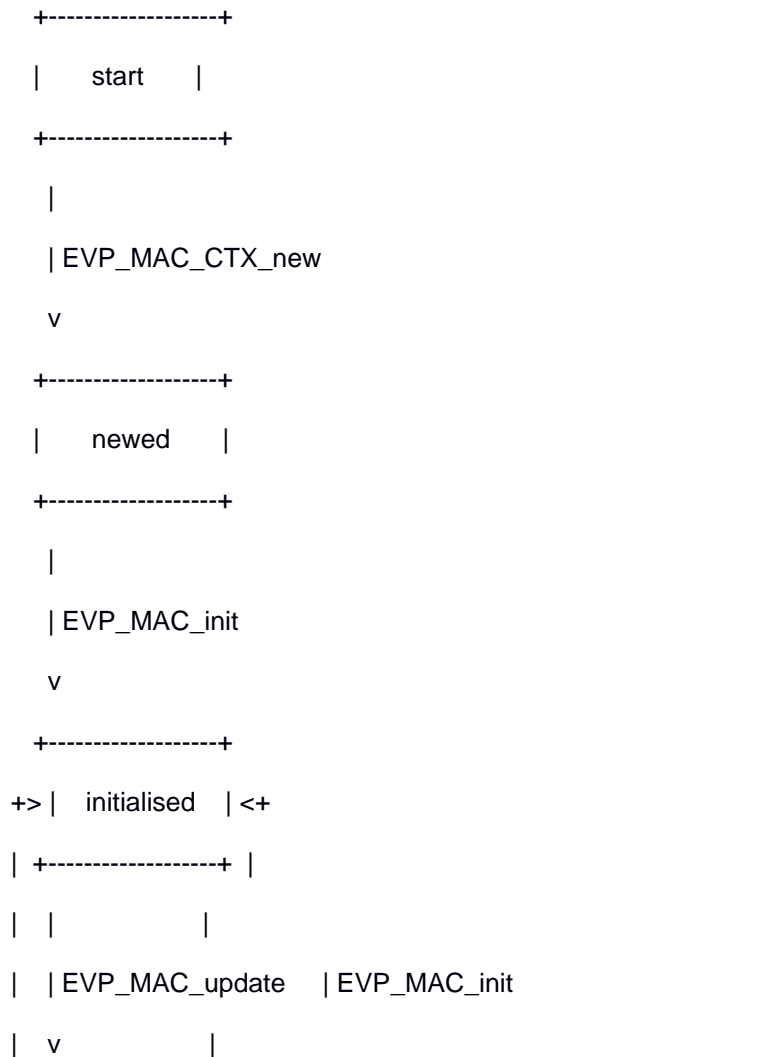
This state represents the MAC when it has generated output.

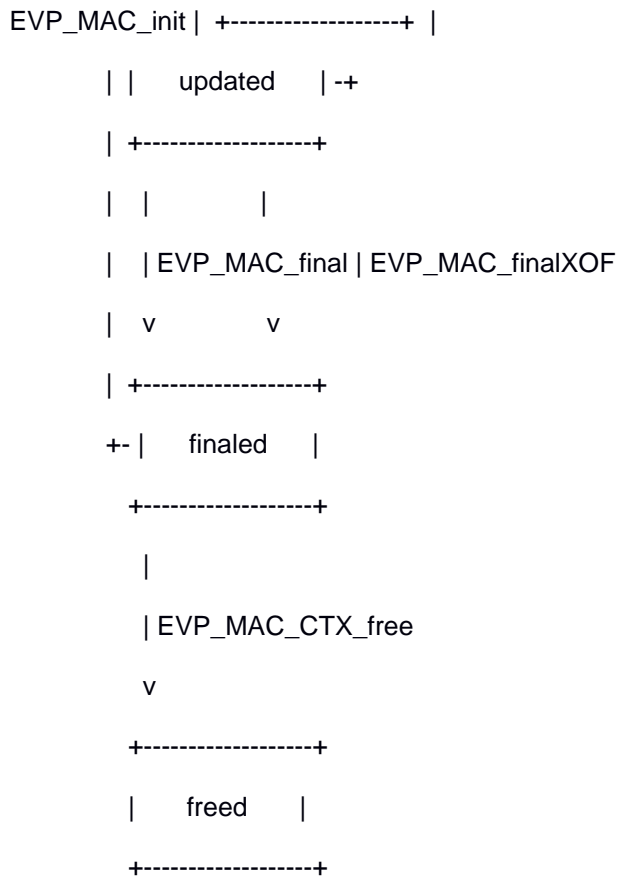
freed

This state is entered when the MAC is freed. It is the terminal state for all life-cycle transitions.

State Transition Diagram

The usual life-cycle of a MAC is illustrated:





Formal State Transitions

This section defines all of the legal state transitions. This is the canonical list.

Function Call	Current State
	start newed initialised updated
finalized freed	
EVP_MAC_CTX_new	newed
EVP_MAC_init	initialised initialised
initialised initialised	
EVP_MAC_update	updated updated
EVP_MAC_final	finalized
EVP_MAC_finalXOF	finalized
EVP_MAC_CTX_free	freed freed freed freed
freed	
EVP_MAC_CTX_get_params	newed initialised updated
EVP_MAC_CTX_set_params	newed initialised updated

EVP_MAC_CTX_gettable_params	newed	initialised	updated
EVP_MAC_CTX_settable_params	newed	initialised	updated

NOTES

At some point the EVP layer will begin enforcing the transitions described herein.

SEE ALSO

provider-mac(7), EVP_MAC(3).

HISTORY

The provider MAC interface was introduced in OpenSSL 3.0.

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