NAME

life_cycle-kdf - The KDF algorithm life-cycle

DESCRIPTION

All key derivation functions (KDFs) and pseudo random functions (PRFs) go through a number of stages in their life-cycle:

start

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

newed

This state represents the KDF/PRF after it has been allocated.

deriving

This state represents the KDF/PRF when it is set up and capable of generating output.

freed

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

State Transition Diagram

The usual life-cycle of a KDF/PRF is illustrated:

Formal State Transitions

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

NOTES

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

SEE ALSO

 $\textbf{provider-kdf} \ (7), \ \textbf{EVP_KDF} \ (3).$

HISTORY

The provider KDF interface was introduced in OpenSSL 3.0.

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