NAME

EVP_PKEY_get_default_digest_nid, EVP_PKEY_get_default_digest_name - get default signature digest

SYNOPSIS

#include <openssl/evp.h>

DESCRIPTION

EVP_PKEY_get_default_digest_name() fills in the default message digest name for the public key signature operations associated with key *pkey* into *mdname*, up to at most *mdname_sz* bytes including the ending NUL byte. The name could be "UNDEF", signifying that a digest must (for return value 2) or may (for return value 1) be left unspecified.

EVP_PKEY_get_default_digest_nid() sets *pnid* to the default message digest NID for the public key signature operations associated with key *pkey*. Note that some signature algorithms (i.e. Ed25519 and Ed448) do not use a digest during signing. In this case *pnid* will be set to NID_undef. This function is only reliable for legacy keys, which are keys with a **EVP_PKEY_ASN1_METHOD**; these keys have typically been loaded from engines, or created with **EVP_PKEY_assign_RSA**(3) or similar.

NOTES

For all current standard OpenSSL public key algorithms SHA256 is returned.

RETURN VALUES

EVP_PKEY_get_default_digest_name() and **EVP_PKEY_get_default_digest_nid()** both return 1 if the message digest is advisory (that is other digests can be used) and 2 if it is mandatory (other digests can not be used). They return 0 or a negative value for failure. In particular a return value of -2 indicates the operation is not supported by the public key algorithm.

SEE ALSO

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EVP_PKEY_CTX_new(3), EVP_PKEY_sign(3), EVP_PKEY_digestsign_supports_digest(3), EVP_PKEY_verify(3), EVP_PKEY_verify_recover(3),
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HISTORY

This function was added in OpenSSL 1.0.0.

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