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Rocky Enterprise Linux 9.2 Manual Pages on command 'EVP_SIGNATURE-RSA.7ssl'

\$ man EVP_SIGNATURE-RSA.7ssl

EVP_SIGNATURE-RSA(7SSL) OpenSSL EVP_SIGNATURE-RSA(7SSL)

NAME

EVP_SIGNATURE-RSA - The EVP_PKEY RSA signature implementation

DESCRIPTION

Support for computing RSA signatures. See EVP_PKEY-RSA(7) for information related to RSA keys.

Signature Parameters

The following signature parameters can be set using EVP_PKEY_CTX_set_params(). This may be called after EVP_PKEY_sign_init() or EVP_PKEY_verify_init(), and before calling EVP_PKEY_sign() or EVP_PKEY_verify().

"digest" (OSSL_SIGNATURE_PARAM_DIGEST) <UTF8 string>

"properties" (OSSL_SIGNATURE_PARAM_PROPERTIES) <UTF8 string>

These common parameters are described in provider-signature(7).

"pad-mode" (OSSL_SIGNATURE_PARAM_PAD_MODE) <UTF8 string>

The type of padding to be used. Its value can be one of the following:

"none" (OSSL_PKEY_RSA_PAD_MODE_NONE)

"pkcs1" (OSSL_PKEY_RSA_PAD_MODE_PKCS15)

"x931" (OSSL_PKEY_RSA_PAD_MODE_X931)

"pss" (OSSL_PKEY_RSA_PAD_MODE_PSS)

"mgf1-digest" (OSSL_SIGNATURE_PARAM_MGF1_DIGEST) <UTF8 string>

The digest algorithm name to use for the maskGenAlgorithm used by "pss" mode.

"mgf1-properties" (OSSL_SIGNATURE_PARAM_MGF1_PROPERTIES) <UTF8 string>

Sets the name of the property query associated with the "mgf1-digest" algorithm. NULL is used if this optional value is not set.

"pss-saltlen" (OSSL_SIGNATURE_PARAM_PSS_SALTLEN) <UTF8 string>

Set or get the "pss" mode minimum salt length. The value can either be a string value representing a number or one of the following:

"digest" (OSSL_PKEY_RSA_PSS_SALT_LEN_DIGEST)

Use the same length as the digest size.

"max" (OSSL_PKEY_RSA_PSS_SALT_LEN_MAX)

Use the maximum salt length.

"auto" (OSSL_PKEY_RSA_PSS_SALT_LEN_AUTO)

Auto detect the salt length.

The following signature parameters can be retrieved using `EVP_PKEY_CTX_get_params()`.

"algorithm-id" (OSSL_SIGNATURE_PARAM_ALGORITHM_ID) <octet string>

This common parameter is described in `provider-signature(7)`.

"digest" (OSSL_SIGNATURE_PARAM_DIGEST) <UTF8 string>

"pad-mode" (OSSL_SIGNATURE_PARAM_PAD_MODE) <UTF8 string>

"mgf1-digest" (OSSL_SIGNATURE_PARAM_MGF1_DIGEST) <UTF8 string>

These parameters are as described above.

EVP_PKEY_CTX_set_params(3), EVP_PKEY_sign(3), EVP_PKEY_verify(3), provider-signature(7),

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