NAME

EVP_CIPHER-AES - The AES EVP_CIPHER implementations

DESCRIPTION

Support for AES symmetric encryption using the EVP_CIPHER API.

Algorithm Names

The following algorithms are available in the FIPS provider as well as the default provider:

```
"AES-128-CBC", "AES-192-CBC" and "AES-256-CBC"
```

```
"AES-128-CBC-CTS", "AES-192-CBC-CTS" and "AES-256-CBC-CTS"
```

"AES-128-CFB", "AES-192-CFB", "AES-256-CFB", "AES-128-CFB1", "AES-192-CFB1",

"AES-256-CFB1", "AES-128-CFB8", "AES-192-CFB8" and "AES-256-CFB8"

```
"AES-128-CTR", "AES-192-CTR" and "AES-256-CTR"
```

"AES-128-WRAP", "AES-192-WRAP", "AES-256-WRAP", "AES-128-WRAP-PAD",

"AES-192-WRAP-PAD", "AES-256-WRAP-PAD", "AES-128-WRAP-INV", "AES-192-WRAP-INV",

"AES-256-WRAP-INV", "AES-128-WRAP-PAD-INV", "AES-192-WRAP-PAD-INV" and

"AES-256-WRAP-PAD-INV"

"AES-128-CBC-HMAC-SHA1", "AES-256-CBC-HMAC-SHA1", "AES-128-CBC-HMAC-SHA256" and "AES-256-CBC-HMAC-SHA256"

The following algorithms are available in the default provider, but not the FIPS provider:

```
"AES-128-OFB", "AES-192-OFB" and "AES-256-OFB"
```

Parameters

This implementation supports the parameters described in "PARAMETERS" in EVP_EncryptInit (3).

SEE ALSO

provider-cipher (7), OSSL_PROVIDER-FIPS (7), OSSL_PROVIDER-default (7)

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[&]quot;AES-128-ECB", "AES-192-ECB" and "AES-256-ECB"

[&]quot;AES-192-OCB", "AES-128-OCB" and "AES-256-OCB"

[&]quot;AES-128-SIV", "AES-192-SIV" and "AES-256-SIV"

[&]quot;AES-128-XTS" and "AES-256-XTS"

[&]quot;AES-128-CCM", "AES-192-CCM" and "AES-256-CCM"

[&]quot;AES-128-GCM", "AES-192-GCM" and "AES-256-GCM"