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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'SSL\_get0\_param.3ossl' command**

**\$ man SSL\_get0\_param.3ossl**

SSL\_CTX\_GET0\_PARAM(3ossl)      OpenSSL      SSL\_CTX\_GET0\_PARAM(3ossl)

### NAME

SSL\_CTX\_get0\_param, SSL\_get0\_param, SSL\_CTX\_set1\_param, SSL\_set1\_param,  
SSL\_CTX\_set\_purpose, SSL\_CTX\_set\_trust, SSL\_set\_purpose, SSL\_set\_trust  
- get and set verification parameters

### SYNOPSIS

```
#include <openssl/ssl.h>
```

```
X509_VERIFY_PARAM *SSL_CTX_get0_param(SSL_CTX *ctx);
```

```
X509_VERIFY_PARAM *SSL_get0_param(SSL *ssl);
```

```
int SSL_CTX_set1_param(SSL_CTX *ctx, X509_VERIFY_PARAM *vpm);
```

```
int SSL_set1_param(SSL *ssl, X509_VERIFY_PARAM *vpm);
```

```
int SSL_CTX_set_purpose(SSL_CTX *ctx, int purpose);
```

```
int SSL_set_purpose(SSL *ssl, int purpose);
```

```
int SSL_CTX_set_trust(SSL_CTX *ctx, int trust);
```

```
int SSL_set_trust(SSL *ssl, int trust);
```

### DESCRIPTION

SSL\_CTX\_get0\_param() and SSL\_get0\_param() retrieve an internal pointer

to the verification parameters for ctx or ssl respectively. The returned pointer must not be freed by the calling application.

SSL\_CTX\_set1\_param() and SSL\_set1\_param() set the verification parameters to vpm for ctx or ssl.

The functions SSL\_CTX\_set\_purpose() and SSL\_set\_purpose() are shorthands which set the purpose parameter on the verification parameters object. These functions are equivalent to calling X509\_VERIFY\_PARAM\_set\_purpose() directly.

The functions SSL\_CTX\_set\_trust() and SSL\_set\_trust() are similarly shorthands which set the trust parameter on the verification parameters object. These functions are equivalent to calling X509\_VERIFY\_PARAM\_set\_trust() directly.

## NOTES

Typically parameters are retrieved from an SSL\_CTX or SSL structure using SSL\_CTX\_get0\_param() or SSL\_get0\_param() and an application modifies them to suit its needs: for example to add a hostname check.

## RETURN VALUES

SSL\_CTX\_get0\_param() and SSL\_get0\_param() return a pointer to an X509\_VERIFY\_PARAM structure.

SSL\_CTX\_set1\_param(), SSL\_set1\_param(), SSL\_CTX\_set\_purpose(), SSL\_set\_purpose(), SSL\_CTX\_set\_trust() and SSL\_set\_trust() return 1 for success and 0 for failure.

## EXAMPLES

Check hostname matches "www.foo.com" in peer certificate:

```
X509_VERIFY_PARAM *vpm = SSL_get0_param(ssl);
```

```
X509_VERIFY_PARAM_set1_host(vpm, "www.foo.com", 0);
```

## SEE ALSO

ssl(7), X509\_VERIFY\_PARAM\_set\_flags(3)

## HISTORY

These functions were added in OpenSSL 1.0.2.

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