

**NAME**

OSSL\_CMP\_STATUSINFO\_new, OSSL\_CMP\_snprint\_PKIStatusInfo,  
OSSL\_CMP\_CTX\_snprint\_PKIStatus - function(s) for managing the CMP PKIStatus

**SYNOPSIS**

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

```
OSSL_CMP_PKISI *OSSL_CMP_STATUSINFO_new(int status, int fail_info,
                                         const char *text);
char *OSSL_CMP_snprint_PKIStatusInfo(const OSSL_CMP_PKISI *statusInfo,
                                     char *buf, size_t bufsize);
char *OSSL_CMP_CTX_snprint_PKIStatus(const OSSL_CMP_CTX *ctx, char *buf,
                                     size_t bufsize);
```

**DESCRIPTION**

This is the PKIStatus API for using CMP (Certificate Management Protocol) with OpenSSL.

**OSSL\_CMP\_STATUSINFO\_new()** creates a new PKIStatusInfo structure and fills in the given values. It sets the status field to *status*, copies *text* (unless it is NULL) to statusString, and interprets *fail\_info* as bit pattern for the failInfo field.

**OSSL\_CMP\_snprint\_PKIStatusInfo()** places a human-readable string representing the given statusInfo in the given buffer, with the given maximal length.

**OSSL\_CMP\_CTX\_snprint\_PKIStatus()** places a human-readable string representing the PKIStatusInfo components of the CMP context *ctx* in the given buffer, with the given maximal length.

**NOTES**

CMP is defined in RFC 4210 (and CRMF in RFC 4211).

**RETURN VALUES**

**OSSL\_CMP\_STATUSINFO\_new()** returns a pointer to the structure on success, or NULL on error.

**OSSL\_CMP\_snprint\_PKIStatusInfo()** and **OSSL\_CMP\_CTX\_snprint\_PKIStatus()** return a copy of the buffer pointer containing the string or NULL on error.

**HISTORY**

The OpenSSL CMP support was added in OpenSSL 3.0.

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