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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'i2s\_ASN1\_OCTET\_STRING.3ossl' command**

```
$ man i2s_ASN1_OCTET_STRING.3ossl
```

```
S2I_ASN1_IA5STRING(3ossl)      OpenSSL      S2I_ASN1_IA5STRING(3ossl)
```

### NAME

i2s\_ASN1\_IA5STRING, s2i\_ASN1\_IA5STRING, i2s\_ASN1\_INTEGER,  
s2i\_ASN1\_INTEGER, i2s\_ASN1\_OCTET\_STRING, s2i\_ASN1\_OCTET\_STRING,  
i2s\_ASN1\_ENUMERATED, i2s\_ASN1\_ENUMERATED\_TABLE, i2s\_ASN1\_UTF8STRING,  
s2i\_ASN1\_UTF8STRING - convert objects from/to ASN.1/string  
representation

### SYNOPSIS

```
#include <openssl/x509v3.h>

char *i2s_ASN1_IA5STRING(X509V3_EXT_METHOD *method, ASN1_IA5STRING *ia5);
ASN1_IA5STRING *s2i_ASN1_IA5STRING(X509V3_EXT_METHOD *method,
                                   X509V3_CTX *ctx, const char *str);

char *i2s_ASN1_INTEGER(X509V3_EXT_METHOD *method, const ASN1_INTEGER *a);
ASN1_INTEGER *s2i_ASN1_INTEGER(X509V3_EXT_METHOD *method, const char *value);

char *i2s_ASN1_OCTET_STRING(X509V3_EXT_METHOD *method,
                             const ASN1_OCTET_STRING *oct);
ASN1_OCTET_STRING *s2i_ASN1_OCTET_STRING(X509V3_EXT_METHOD *method,
                                         X509V3_CTX *ctx, const char *str);

char *i2s_ASN1_ENUMERATED(X509V3_EXT_METHOD *method, const ASN1_ENUMERATED *a);
char *i2s_ASN1_ENUMERATED_TABLE(X509V3_EXT_METHOD *method,
```

```
const ASN1_ENUMERATED *e);
```

```
char *i2s_ASN1_UTF8STRING(X509V3_EXT_METHOD *method,  
                           ASN1_UTF8STRING *utf8);  
ASN1_UTF8STRING *s2i_ASN1_UTF8STRING(X509V3_EXT_METHOD *method,  
                                       X509V3_CTX *ctx, const char *str);
```

## DESCRIPTION

These functions convert OpenSSL objects to and from their ASN.1/string representation. This function is used for X509v3 extensions.

## NOTES

The letters i and s in i2s and s2i stand for "internal" (that is, an internal C structure) and string respectively. So i2s\_ASN1\_IA5STRING() converts from internal to string.

It is the caller's responsibility to free the returned string. In the i2s\_ASN1\_IA5STRING() function the string is copied and the ownership of the original string remains with the caller.

## RETURN VALUES

i2s\_ASN1\_IA5STRING() returns the pointer to a IA5 string or NULL if an error occurs.

s2i\_ASN1\_IA5STRING() return a valid ASN1\_IA5STRING structure or NULL if an error occurs.

i2s\_ASN1\_INTEGER() return a valid string or NULL if an error occurs.

s2i\_ASN1\_INTEGER() returns the pointer to a ASN1\_INTEGER structure or NULL if an error occurs.

i2s\_ASN1\_OCTET\_STRING() returns the pointer to a OCTET\_STRING string or

NULL if an error occurs.

s2i\_ASN1\_OCTET\_STRING() return a valid ASN1\_OCTET\_STRING structure or NULL if an error occurs.

i2s\_ASN1\_ENUMERATED() return a valid string or NULL if an error occurs.

s2i\_ASN1\_ENUMERATED() returns the pointer to a ASN1\_ENUMERATED structure or NULL if an error occurs.

s2i\_ASN1\_UTF8STRING() return a valid ASN1\_UTF8STRING structure or NULL if an error occurs.

i2s\_ASN1\_UTF8STRING() returns the pointer to a UTF-8 string or NULL if an error occurs.

## HISTORY

i2s\_ASN1\_UTF8STRING() and s2i\_ASN1\_UTF8STRING() were made public in OpenSSL 3.0.

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