



Red Hat Enterprise Linux Release 9.2 Manual Pages on 'i2s_ASN1_IA5STRING.3ossl' command

\$ man i2s_ASN1_IA5STRING.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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