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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