

NAME

hx509 name functions -

Functions

int **hx509_name_to_string** (const hx509_name name, char **str)
int **hx509_name_cmp** (hx509_name n1, hx509_name n2)
int **hx509_parse_name** (hx509_context context, const char *str, hx509_name *name)
int **hx509_name_copy** (hx509_context context, const hx509_name from, hx509_name *to)
int **hx509_name_to_Name** (const hx509_name from, Name *to)
int **hx509_name_expand** (hx509_context context, hx509_name name, hx509_env env)
void **hx509_name_free** (hx509_name *name)
int **hx509_unparse_der_name** (const void *data, size_t length, char **str)
int **hx509_name_binary** (const hx509_name name, heim_octet_string *os)
int **hx509_name_is_null_p** (const hx509_name name)
int **hx509_general_name_unparse** (GeneralName *name, char **str)

Detailed Description

See the **PKIX/X.509 Names** for description and examples.

Function Documentation

int hx509_general_name_unparse (GeneralName * name, char ** str)

Unparse the hx509 name in name into a string.

Parameters:

name the name to print
str an allocated string returns the name in string form

Returns:

An hx509 error code, see **hx509_get_error_string()**.

int hx509_name_binary (const hx509_name name, heim_octet_string * os)

Convert a hx509_name object to DER encoded name.

Parameters:

name name to concert
os data to a DER encoded name, free the resulting octet string with **hx509_xfree(os->data)**.

Returns:

An hx509 error code, see **hx509_get_error_string()**.

int hx509_name_cmp (hx509_name n1, hx509_name n2)

Compare to hx509 name object, useful for sorting.

Parameters:

n1 a hx509 name object.

n2 a hx509 name object.

Returns:

0 the objects are the same, returns > 0 if n1 is 'larger' than n2, < 0 if n1 is 'smaller' than n2.

int hx509_name_copy (hx509_context context, const hx509_name from, hx509_name * to)

Copy a hx509 name object.

Parameters:

context A hx509 context.

from the name to copy from

to the name to copy to

Returns:

An hx509 error code, see **hx509_get_error_string()**.

int hx509_name_expand (hx509_context context, hx509_name name, hx509_env env)

Expands variables in the name using env. Variables are on the form \${name}. Useful when dealing with certificate templates.

Parameters:

context A hx509 context.

name the name to expand.

env environment variable to expand.

Returns:

An hx509 error code, see **hx509_get_error_string()**.

Only UTF8String rdnsSequence names are allowed

void hx509_name_free (hx509_name * name)

Free a hx509 name object, upon return *name will be NULL.

Parameters:

name a hx509 name object to be freed.

int hx509_name_is_null_p (const hx509_name name)

Unparse the hx509 name in name into a string.

Parameters:

name the name to check if its empty/null.

Returns:

non zero if the name is empty/null.

int hx509_name_to_Name (const hx509_name from, Name * to)

Convert a hx509_name into a Name.

Parameters:

from the name to copy from

to the name to copy to

Returns:

An hx509 error code, see **hx509_get_error_string()**.

int hx509_name_to_string (const hx509_name name, char ** str)

Convert the hx509 name object into a printable string. The resulting string should be freed with free().

Parameters:

name name to print

str the string to return

Returns:

An hx509 error code, see **hx509_get_error_string()**.

int hx509_parse_name (hx509_context context, const char * str, hx509_name * name)

Parse a string into a hx509 name object.

Parameters:

context A hx509 context.

str a string to parse.

name the resulting object, NULL in case of error.

Returns:

An hx509 error code, see **hx509_get_error_string()**.

int hx509_unparse_der_name (const void * data, size_t length, char ** str)

Convert a DER encoded name into a string.

Parameters:

data data to a DER/BER encoded name

length length of data

str the resulting string, is NULL on failure.

Returns:

An hx509 error code, see **hx509_get_error_string()**.