

**NAME**

hx509 printing functions -

**Functions**

void **hx509\_print\_stdout** (void \*ctx, const char \*fmt, va\_list va)  
 int **hx509\_oid\_sprint** (const heim\_oid \*oid, char \*\*str)  
 void **hx509\_oid\_print** (const heim\_oid \*oid, hx509\_vprint\_func func, void \*ctx)  
 void **hx509\_bitstring\_print** (const heim\_bit\_string \*b, hx509\_vprint\_func func, void \*ctx)  
 int **hx509\_cert\_keyusage\_print** (hx509\_context context, hx509\_cert c, char \*\*s)  
 int **hx509\_validate\_ctx\_init** (hx509\_context context, hx509\_validate\_ctx \*ctx)  
 void **hx509\_validate\_ctx\_set\_print** (hx509\_validate\_ctx ctx, hx509\_vprint\_func func, void \*c)  
 void **hx509\_validate\_ctx\_add\_flags** (hx509\_validate\_ctx ctx, int flags)  
 void **hx509\_validate\_ctx\_free** (hx509\_validate\_ctx ctx)  
 int **hx509\_validate\_cert** (hx509\_context context, hx509\_validate\_ctx ctx, hx509\_cert cert)

**Detailed Description****Function Documentation**

**void hx509\_bitstring\_print (const heim\_bit\_string \* b, hx509\_vprint\_func func, void \* ctx)**  
 Print a bitstring using a hx509\_vprint\_func function. To print to stdout use **hx509\_print\_stdout()**.

**Parameters:**

*b* bit string to print.  
*func* hx509\_vprint\_func to print with.  
*ctx* context variable to hx509\_vprint\_func function.

**int hx509\_cert\_keyusage\_print (hx509\_context context, hx509\_cert c, char \*\* s)**  
 Print certificate usage for a certificate to a string.

**Parameters:**

*context* A hx509 context.  
*c* a certificate print the keyusage for.  
*s* the return string with the keysage printed in to, free with **hx509\_xfree()**.

**Returns:**

An hx509 error code, see **hx509\_get\_error\_string()**.

**void hx509\_oid\_print (const heim\_oid \* oid, hx509\_vprint\_func func, void \* ctx)**  
 Print a oid using a hx509\_vprint\_func function. To print to stdout use **hx509\_print\_stdout()**.

**Parameters:**

*oid* oid to print  
*func* hx509\_vprint\_func to print with.  
*ctx* context variable to hx509\_vprint\_func function.

**int hx509\_oid\_sprint (const heim\_oid \* oid, char \*\* str)**

Print a oid to a string.

**Parameters:**

*oid* oid to print  
*str* allocated string, free with **hx509\_xfree()**.

**Returns:**

An hx509 error code, see **hx509\_get\_error\_string()**.

**void hx509\_print\_stdout (void \* ctx, const char \* fmt, va\_list va)**

Helper function to print on stdout for:

- ⊕ **hx509\_oid\_print()**,
- ⊕ **hx509\_bitstring\_print()**,
- ⊕ **hx509\_validate\_ctx\_set\_print()**.

**Parameters:**

*ctx* the context to the print function. If the ctx is NULL, stdout is used.  
*fmt* the printing format.  
*va* the argumet list.

**int hx509\_validate\_cert (hx509\_context context, hx509\_validate\_ctx ctx, hx509\_cert cert)**

Validate/Print the status of the certificate.

**Parameters:**

*context* A hx509 context.  
*ctx* A hx509 validation context.  
*cert* the cerificate to validate/print.

**Returns:**

An hx509 error code, see **hx509\_get\_error\_string()**.

**void hx509\_validate\_ctx\_add\_flags (hx509\_validate\_ctx ctx, int flags)**

Add flags to control the behavior of the **hx509\_validate\_cert()** function.

**Parameters:**

*ctx* A hx509 validation context.  
*flags* flags to add to the validation context.

**Returns:**

An hx509 error code, see **hx509\_get\_error\_string()**.

**void hx509\_validate\_ctx\_free (hx509\_validate\_ctx ctx)**

Free an hx509 validate context.

**Parameters:**

*ctx* the hx509 validate context to free.

**int hx509\_validate\_ctx\_init (hx509\_context context, hx509\_validate\_ctx \* ctx)**

Allocate a hx509 validation/printing context.

**Parameters:**

*context* A hx509 context.  
*ctx* a new allocated hx509 validation context, free with **hx509\_validate\_ctx\_free()**.

**Returns:**

An hx509 error code, see **hx509\_get\_error\_string()**.

**void hx509\_validate\_ctx\_set\_print (hx509\_validate\_ctx ctx, hx509\_vprint\_func func, void \* c)**

Set the printing functions for the validation context.

**Parameters:**

*ctx* a hx509 validation context.  
*func* the printing function to use.  
*c* the context variable to the printing function.

**Returns:**

An hx509 error code, see **hx509\_get\_error\_string()**.