

NAME

hx509 revokation checking functions -

Functions

```
int hx509_revoke_init (hx509_context context, hx509_revoke_ctx *ctx)
void hx509_revoke_free (hx509_revoke_ctx *ctx)
int hx509_revoke_add_ocsp (hx509_context context, hx509_revoke_ctx ctx, const char *path)
int hx509_revoke_add_crl (hx509_context context, hx509_revoke_ctx ctx, const char *path)
int hx509_revoke_verify (hx509_context context, hx509_revoke_ctx ctx, hx509_certs certs, time_t now,
hx509_cert cert, hx509_cert parent_cert)
int hx509_ocsp_request (hx509_context context, hx509_certs reqcerts, hx509_certs pool, hx509_cert
signer, const AlgorithmIdentifier *digest, heim_octet_string *request, heim_octet_string *nonce)
int hx509_revoke_ocsp_print (hx509_context context, const char *path, FILE *out)
```

Detailed Description

See the **Revocation methods** for description and examples.

Function Documentation

```
int hx509_ocsp_request (hx509_context context, hx509_certs reqcerts, hx509_certs pool, hx509_cert
signer, const AlgorithmIdentifier * digest, heim_octet_string * request, heim_octet_string * nonce)
Create an OCSP request for a set of certificates.
```

Parameters:

context a hx509 context
reqcerts list of certificates to request ocsp data for
pool certificate pool to use when signing
signer certificate to use to sign the request
digest the signing algorithm in the request, if NULL use the default signature algorithm,
request the encoded request, free with free_heim_octet_string().
nonce nonce in the request, free with free_heim_octet_string().

Returns:

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

```
int hx509_revoke_add_crl (hx509_context context, hx509_revoke_ctx ctx, const char * path)
Add a CRL file to the revokation context.
```

Parameters:

context hx509 context
ctx hx509 revokation context

path path to file that is going to be added to the context.

Returns:

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

int hx509_revoke_add_ocsp (hx509_context context, hx509_revoke_ctx ctx, const char * path)

Add a OCSP file to the revokation context.

Parameters:

context hx509 context

ctx hx509 revokation context

path path to file that is going to be added to the context.

Returns:

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

void hx509_revoke_free (hx509_revoke_ctx * ctx)

Free a hx509 revokation context.

Parameters:

ctx context to be freed

int hx509_revoke_init (hx509_context context, hx509_revoke_ctx * ctx)

Allocate a revokation context. Free with **hx509_revoke_free()**.

Parameters:

context A hx509 context.

ctx returns a newly allocated revokation context.

Returns:

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

int hx509_revoke_ocsp_print (hx509_context context, const char * path, FILE * out)

Print the OCSP reply stored in a file.

Parameters:

context a hx509 context

path path to a file with a OCSP reply

out the out FILE descriptor to print the reply on

Returns:

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

int hx509_revoke_verify (hx509_context context, hx509_revoke_ctx ctx, hx509_certs certs, time_t now, hx509_cert cert, hx509_cert parent_cert)

Check that a certificate is not expired according to a revocation context. Also need the parent certificate to the check OCSP parent identifier.

Parameters:

context hx509 context

ctx hx509 revokation context

certs

now

cert

parent_cert

Returns:

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