NAME

Heimdal Kerberos 5 storage functions -

Functions

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KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_ret_authdata** (krb5_storage *sp, krb5_authdata *auth)
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Detailed Description

Function Documentation

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_address (krb5_storage * sp, krb5_address * adr)

Read a address block from the storage.

Parameters:

sp the storage buffer to write to
adr the address block read from storage

Returns:

0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_addrs (krb5_storage * sp, krb5_addresses * adr)

Read a addresses block from the storage.

Parameters:

sp the storage buffer to write to
adr the addresses block read from storage

Returns:

0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_authdata (krb5_storage * sp, krb5_authdata * auth)

Read a auth data from the storage.

Parameters:

sp the storage buffer to write to
auth the auth data block read from storage

Returns:

0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_creds (krb5_storage * sp, krb5_creds * creds)

Read a credentials block from the storage.

Parameters:

sp the storage buffer to write to
creds the credentials block read from storage

Returns:

0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_creds_tag (krb5_storage * sp, krb5_creds * creds)

Read a tagged credentials block from the storage.

Parameters:

sp the storage buffer to write to
creds the credentials block read from storage

Returns:

0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_data (krb5_storage * sp, krb5_data * data)

Parse a data from the storage.

Parameters:

sp the storage buffer to read from
data the parsed data

Returns:

0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_int16 (krb5_storage * sp, int16_t * value)

Read a int16 from storage, byte order is controlled by the settings on the storage, see **krb5_storage_set_byteorder()**.

Parameters:

sp the storage to write too
value the value read from the buffer

Returns:

0 for success, or a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_int32 (krb5_storage * sp, int32_t * value)

Read a int32 from storage, byte order is controlled by the settings on the storage, see **krb5_storage_set_byteorder()**.

Parameters:

sp the storage to write too
value the value read from the buffer

Returns:

0 for success, or a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_int8 (krb5_storage * sp, int8_t * value)

Read a int8 from storage

Parameters:

sp the storage to write too
value the value read from the buffer

Returns:
0 for success, or a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_keyblock (krb5_storage * sp, krb5_keyblock * p)
Read a keyblock from the storage.

Parameters:
sp the storage buffer to write to
p the keyblock read from storage, free using **krb5_free_keyblock()**

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_principal (krb5_storage * sp, krb5_principal * princ)
Parse principal from the storage.

Parameters:
sp the storage buffer to read from
princ the parsed principal

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_string (krb5_storage * sp, char ** string)
Parse a string from the storage.

Parameters:
sp the storage buffer to read from
string the parsed string

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_stringz (krb5_storage * sp, char

**** string)**
Parse zero terminated string from the storage.

Parameters:
sp the storage buffer to read from
string the parsed string

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_times (krb5_storage * sp, krb5_times * times)
Read a times block from the storage.

Parameters:
sp the storage buffer to write to
times the times block read from storage

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_uint16 (krb5_storage * sp, uint16_t * value)
Read a int16 from storage, byte order is controlled by the settings on the storage, see **krb5_storage_set_byteorder()**.

Parameters:
sp the storage to write too
value the value read from the buffer

Returns:
0 for success, or a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_uint32 (krb5_storage * sp, uint32_t * value)
Read a uint32 from storage, byte order is controlled by the settings on the storage, see **krb5_storage_set_byteorder()**.

Parameters:
sp the storage to write too

value the value read from the buffer

Returns:

0 for success, or a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_ret_uint8 (krb5_storage * sp, uint8_t * value)

Read a uint8 from storage

Parameters:

sp the storage to write too
value the value read from the buffer

Returns:

0 for success, or a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION void KRB5_LIB_CALL krb5_storage_clear_flags (krb5_storage * sp, krb5_flags flags)

Clear the flags on a storage buffer

Parameters:

sp the storage buffer to clear the flags on
flags the flags to clear

KRB5_LIB_FUNCTION krb5_storage* KRB5_LIB_CALL krb5_storage_emem (void)

Create a elastic (allocating) memory storage backend. Memory is allocated on demand. Free returned krb5_storage with **krb5_storage_free()**.

Returns:

A krb5_storage on success, or NULL on out of memory error.

See also:

krb5_storage_from_mem()

krb5_storage_from_readonly_mem()

krb5_storage_from_fd()

krb5_storage_from_data()

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_storage_free (krb5_storage * sp)

Free a krb5 storage.

Parameters:

sp the storage to free.

Returns:

An Kerberos 5 error code.

KRB5_LIB_FUNCTION krb5_storage* KRB5_LIB_CALL krb5_storage_from_data (krb5_data * data)

Create a fixed size memory storage block

Returns:

A krb5_storage on success, or NULL on out of memory error.

See also:

krb5_storage_mem()

krb5_storage_from_mem()

krb5_storage_from_readonly_mem()

krb5_storage_from_fd()

KRB5_LIB_FUNCTION krb5_storage* KRB5_LIB_CALL krb5_storage_from_fd (krb5_socket_t fd_in)

Returns:

A krb5_storage on success, or NULL on out of memory error.

See also:

krb5_storage_emem()

krb5_storage_from_mem()

krb5_storage_from_readonly_mem()

krb5_storage_from_data()

KRB5_LIB_FUNCTION krb5_storage* KRB5_LIB_CALL krb5_storage_from_mem (void * buf, size_t len)

Create a fixed size memory storage block

Returns:
A krb5_storage on success, or NULL on out of memory error.

See also:
krb5_storage_mem()

krb5_storage_from_readonly_mem()

krb5_storage_from_data()

krb5_storage_from_fd()

KRB5_LIB_FUNCTION krb5_storage* KRB5_LIB_CALL krb5_storage_from_readonly_mem (const void * buf, size_t len)
Create a fixed size memory storage block that is read only

Returns:
A krb5_storage on success, or NULL on out of memory error.

See also:
krb5_storage_mem()

krb5_storage_from_mem()

krb5_storage_from_data()

krb5_storage_from_fd()

KRB5_LIB_FUNCTION krb5_flags KRB5_LIB_CALL krb5_storage_get_byteorder (krb5_storage * sp)
Return the current byteorder for the buffer. See **krb5_storage_set_byteorder()** for the list or byte order contants.

KRB5_LIB_FUNCTION int KRB5_LIB_CALL krb5_storage_get_eof_code (krb5_storage * sp)
Get the return code that will be used when end of storage is reached.

Parameters:
sp the storage

Returns:
storage error code

KRB5_LIB_FUNCTION krb5_boolean KRB5_LIB_CALL krb5_storage_is_flags (krb5_storage * sp, krb5_flags flags)

Return true or false depending on if the storage flags is set or not. NB testing for the flag 0 always return true.

Parameters:

sp the storage buffer to check flags on
flags The flags to test for

Returns:

true if all the flags are set, false if not.

KRB5_LIB_FUNCTION krb5_ssize_t KRB5_LIB_CALL krb5_storage_read (krb5_storage * sp, void * buf, size_t len)

Read to the storage buffer.

Parameters:

sp the storage buffer to read from
buf the buffer to store the data in
len the length to read

Returns:

The length of data read (can be shorter then len), or negative on error.

KRB5_LIB_FUNCTION off_t KRB5_LIB_CALL krb5_storage_seek (krb5_storage * sp, off_t offset, int whence)

Seek to a new offset.

Parameters:

sp the storage buffer to seek in.
offset the offset to seek
whence relateive searching, SEEK_CUR from the current position, SEEK_END from the end, SEEK_SET absolute from the start.

Returns:

The new current offset

KRB5_LIB_FUNCTION void KRB5_LIB_CALL krb5_storage_set_byteorder (krb5_storage * sp, krb5_flags byteorder)

Set the new byte order of the storage buffer.

Parameters:

sp the storage buffer to set the byte order for.
byteorder the new byte order.

The byte order are: KRB5_STORAGE_BYTEORDER_BE, KRB5_STORAGE_BYTEORDER_LE and KRB5_STORAGE_BYTEORDER_HOST.

KRB5_LIB_FUNCTION void KRB5_LIB_CALL krb5_storage_set_eof_code (krb5_storage * sp, int code)

Set the return code that will be used when end of storage is reached.

Parameters:

sp the storage
code the error code to return on end of storage

KRB5_LIB_FUNCTION void KRB5_LIB_CALL krb5_storage_set_flags (krb5_storage * sp, krb5_flags flags)

Add the flags on a storage buffer by or-ing in the flags to the buffer.

Parameters:

sp the storage buffer to set the flags on
flags the flags to set

KRB5_LIB_FUNCTION void KRB5_LIB_CALL krb5_storage_set_max_alloc (krb5_storage * sp, size_t size)

Set the max alloc value

Parameters:

sp the storage buffer set the max allow for
size maximum size to allocate, use 0 to remove limit

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_storage_to_data (krb5_storage * sp, krb5_data * data)

Copy the contnent of storage

Parameters:

sp the storage to copy to a data
data the copied data, free with **krb5_data_free()**

Returns:

0 for success, or a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION int KRB5_LIB_CALL krb5_storage_truncate (krb5_storage * sp, off_t offset)
Truncate the storage buffer in sp to offset.

Parameters:
sp the storage buffer to truncate.
offset the offset to truncate too.

Returns:
An Kerberos 5 error code.

KRB5_LIB_FUNCTION krb5_ssize_t KRB5_LIB_CALL krb5_storage_write (krb5_storage * sp, const void * buf, size_t len)
Write to the storage buffer.

Parameters:
sp the storage buffer to write to
buf the buffer to write to the storage buffer
len the length to write

Returns:
The length of data written (can be shorter then len), or negative on error.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_address (krb5_storage * sp, krb5_address p)
Write a address block to storage.

Parameters:
sp the storage buffer to write to
p the address block to write.

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_addrs (krb5_storage * sp, krb5_addresses p)
Write a addresses block to storage.

Parameters:

sp the storage buffer to write to
p the addresses block to write.

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_authdata (krb5_storage * sp, krb5_authdata auth)
Write a auth data block to storage.

Parameters:
sp the storage buffer to write to
auth the auth data block to write.

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_creds (krb5_storage * sp, krb5_creds * creds)
Write a credentials block to storage.

Parameters:
sp the storage buffer to write to
creds the creds block to write.

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_creds_tag (krb5_storage * sp, krb5_creds * creds)
Write a tagged credentials block to storage.

Parameters:
sp the storage buffer to write to
creds the creds block to write.

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_data (krb5_storage * sp,

krb5_data data)
Store a data to the storage. The data is stored with an int32 as lenght plus the data (not padded).

Parameters:
sp the storage buffer to write to
data the buffer to store.

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_int16 (krb5_storage * sp, int16_t value)
Store a int16 to storage, byte order is controlled by the settings on the storage, see **krb5_storage_set_byteorder()**.

Parameters:
sp the storage to write too
value the value to store

Returns:
0 for success, or a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_int32 (krb5_storage * sp, int32_t value)
Store a int32 to storage, byte order is controlled by the settings on the storage, see **krb5_storage_set_byteorder()**.

Parameters:
sp the storage to write too
value the value to store

Returns:
0 for success, or a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_int8 (krb5_storage * sp, int8_t value)
Store a int8 to storage.

Parameters:
sp the storage to write too

value the value to store

Returns:
0 for success, or a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_keyblock (krb5_storage * sp, krb5_keyblock p)
Store a keyblock to the storage.

Parameters:
sp the storage buffer to write to
p the keyblock to write

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_principal (krb5_storage * sp, krb5_const_principal p)
Write a principal block to storage.

Parameters:
sp the storage buffer to write to
p the principal block to write.

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_string (krb5_storage * sp, const char * s)
Store a string to the buffer. The data is formated as an len:uint32 plus the string itself (not padded).

Parameters:
sp the storage buffer to write to
s the string to store.

Returns:
0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_stringz (krb5_storage * sp, const char * s)

Store a zero terminated string to the buffer. The data is stored one character at a time until a NUL is stored.

Parameters:

sp the storage buffer to write to
s the string to store.

Returns:

0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_times (krb5_storage * sp, krb5_times times)

Write a times block to storage.

Parameters:

sp the storage buffer to write to
times the times block to write.

Returns:

0 on success, a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_uint16 (krb5_storage * sp, uint16_t value)

Store a uint16 to storage, byte order is controlled by the settings on the storage, see **krb5_storage_set_byteorder()**.

Parameters:

sp the storage to write too
value the value to store

Returns:

0 for success, or a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_uint32 (krb5_storage * sp, uint32_t value)

Store a uint32 to storage, byte order is controlled by the settings on the storage, see **krb5_storage_set_byteorder()**.

Parameters:

sp the storage to write too

value the value to store

Returns:

0 for success, or a Kerberos 5 error code on failure.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_store_uint8 (krb5_storage * sp, uint8_t value)

Store a uint8 to storage.

Parameters:

sp the storage to write too

value the value to store

Returns:

0 for success, or a Kerberos 5 error code on failure.