eXosip2 authentication API

Functions

int	**eXosip_add_authentication_info** (struct eXosip_t *excontext, const char *username, const char *userid, const char *passwd, const char *ha1, const char *realm)
int	**eXosip_remove_authentication_info** (struct eXosip_t *excontext, const char *username, const char *realm)
int	**eXosip_clear_authentication_info** (struct eXosip_t *excontext)
int	**eXosip_default_action** (struct eXosip_t *excontext, **eXosip_event_t** *je)
void	**eXosip_automatic_refresh** (struct eXosip_t *excontext)
void	**eXosip_automatic_action** (struct eXosip_t *excontext)
int	**eXosip_insubscription_automatic** (struct eXosip_t *excontext, **eXosip_event_t** *evt)
int	**eXosip_generate_random** (char *buf, int buf_size)

Detailed Description

Function Documentation

int eXosip_add_authentication_info (	struct eXosip_t *	excontext,
	const char *	username,
	const char *	userid,
	const char *	passwd,
	const char *	ha1,
	const char *	realm
	)	

Add authentication credentials. These are used when an outgoing request comes back with an authorization required response.

Parameters

excontext	eXosip_t instance.
username	username
userid	login (usually equals the username)
passwd	password
ha1	currently ignored
realm	realm within which credentials apply, or NULL to apply credentials to unrecognized realms

int eXosip_remove_authentication_info (struct eXosip_t * excontext,
const char * username,
const char * realm
)

Remove authentication credentials.

Parameters

      excontext eXosip_t instance.

      username username

      realm   realm must be exact same arg as for eXosip_add_authentication_info

int eXosip_clear_authentication_info (struct eXosip_t * excontext)

Clear all authentication credentials stored in eXosip

Parameters

      excontext eXosip_t instance.

int eXosip_default_action (struct eXosip_t * excontext,
eXosip_event_t * je
)

Initiate some default actions:

Retry with credentials upon reception of 401/407. Retry with Contact header upon reception of 3xx request.

Usefull & required when **eXosip_automatic_action()** can't do the automatic action: 1/ if you receive a 401 or 407 for BYE (event EXOSIP_CALL_MESSAGE_REQUESTFAILURE). 2/ if you receive 401 or 407 for any sip request outside of dialog (EXOSIP_MESSAGE_REQUESTFAILURE)

Parameters

      excontext eXosip_t instance.

      je   event to work on.

void eXosip_automatic_refresh (struct eXosip_t * excontext)

Initiate some automatic actions:

Refresh REGISTER and SUBSCRIBE before the expiration delay. Those actions are already done by **eXosip_automatic_action()**; Prefer eXosip_automatic_action instead of this method.

Parameters

      excontext eXosip_t instance.

void eXosip_automatic_action (struct eXosip_t * excontext)

Initiate some automatic actions:

Retry with credentials upon reception of 401/407. Retry with higher Session-Expires upon reception of 422. Refresh REGISTER and SUBSCRIBE before the expiration delay. Retry with Contact header upon reception of 3xx request. Send automatic UPDATE for session-timer feature.

Parameters

    excontext eXosip_t instance.

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int eXosip_insubscription_automatic (struct eXosip_t * excontext,
                                  eXosip_event_t * evt
)

Automatic internal handling of dialog package.

Parameters

    excontext eXosip_t instance.

    evt   Incoming SUBSCRIBE for dialog package.

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int eXosip_generate_random (char * buf,
                            int   buf_size
)

Generate random string:

Parameters

    buf   destination buffer for random string.

    buf_size size of destination buffer