# **eXosip2 INVITE and Call Management**

SIP messages and call control API

### **Functions**

```
int eXosip call set reference (struct eXosip t *excontext, int id, void *reference)
void * eXosip call get reference (struct eXosip t *excontext, int cid)
   int eXosip call build initial invite (struct eXosip t *excontext, osip message t **invite, const char
       *to, const char *from, const char *route, const char *subject)
   int eXosip call send initial invite (struct eXosip t *excontext, osip message t *invite)
   int eXosip call build request (struct eXosip t *excontext, int did, const char *method,
       osip message t **request)
   int eXosip call build ack (struct eXosip t *excontext, int did, osip message t **ack)
   int eXosip call send ack (struct eXosip t *excontext, int did, osip message t *ack)
   int eXosip call build refer (struct eXosip t *excontext, int did, const char *refer to,
       osip message t **request)
   int eXosip call build info (struct eXosip t *excontext, int did, osip message t **request)
   int eXosip call build options (struct eXosip t *excontext, int did, osip message t **request)
   int eXosip call build update (struct eXosip t *excontext, int did, osip message t **request)
   int eXosip call build notify (struct eXosip t *excontext, int did, int subscription status,
       osip message t **request)
   int eXosip call send request (struct eXosip t *excontext, int did, osip message t *request)
   int eXosip call build answer (struct eXosip t *excontext, int tid, int status, osip message t
       **answer)
   int eXosip call send answer (struct eXosip t *excontext, int tid, int status, osip message t
   int eXosip call terminate (struct eXosip t *excontext, int cid, int did)
   int eXosip call terminate with reason (struct eXosip t *excontext, int cid, int did, const char
       *reason)
   int eXosip call build prack (struct eXosip t *excontext, int tid, osip message t **prack)
   int eXosip call send prack (struct eXosip t *excontext, int tid, osip message t *prack)
   int eXosip call get referto (struct eXosip t *excontext, int did, char *refer to, size t refer to len)
   int eXosip call find by replaces (struct eXosip t *excontext, char *replaces)
```

## **Detailed Description**

# **Function Documentation**

Set a new application context for an existing call

#### **Parameters**

**excontext** eXosip\_t instance.

id call-id or dialog-id of callreference New application context.

Get the application context pointer for an existing call.

#### **Parameters**

**excontext** eXosip\_t instance.

**cid** id of the call.

#### **Returns**

Application context reference

Build a default INVITE message for a new call.

#### **Parameters**

**excontext** eXosip\_t instance.

**invite** Pointer for the SIP element to hold.

to SIP url for callee. from SIP url for caller.

**route** Route header for INVITE. (optional)

**subject** Subject for the call.

Initiate a call.

#### **Parameters**

excontext eXosip\_t instance.

**invite** SIP INVITE message to send.

Build a default request within a call. (INVITE, OPTIONS, INFO, REFER)

#### **Parameters**

**excontext** eXosip\_t instance.

did dialog id of call.

method request type to build.request The sip request to build.

Build a default ACK for a 200ok received.

#### **Parameters**

excontext eXosip t instance.

did dialog id of call.

**ack** The sip request to build.

Send the ACK for the 200ok received..

#### **Parameters**

**excontext** eXosip\_t instance.

**did** dialog id of call.

ack SIP ACK message to send.

Build a default REFER for a call transfer.

#### **Parameters**

excontext eXosip t instance.

did dialog id of call.

refer to url for call transfer (Refer-To header).

**request** The sip request to build.

Build a default INFO within a call.

### **Parameters**

excontext eXosip t instance.

did dialog id of call.

**request** The sip request to build.

Build a default OPTIONS within a call.

#### **Parameters**

excontext eXosip\_t instance.did dialog id of call.

**request** The sip request to build.

Build a default UPDATE within a call.

#### **Parameters**

**excontext** eXosip\_t instance.

**did** dialog id of call.

**request** The sip request to build.

Build a default NOTIFY within a call.

#### **Parameters**

excontext eXosip\_t instance.
did dialog id of call.

subscription status Subscription status of the request.

**request** The sip request to build.

send the request within call. (INVITE, OPTIONS, INFO, REFER, UPDATE)

#### **Parameters**

excontext eXosip\_t instance.did dialog id of call.

**request** The sip request to send.

Build default Answer for request.

#### **Parameters**

**excontext** eXosip t instance.

tid id of transaction to answer.

status Status code to use.answer The sip answer to build.

Send Answer for invite.

#### **Parameters**

excontext eXosip t instance.

tid id of transaction to answer.

status response status if answer is NULL. (not allowed for 2XX)

**answer** The sip answer to send.

Terminate a call. send CANCEL, BYE or 603 Decline.

#### **Parameters**

**excontext** eXosip\_t instance.

cid call id of call.did dialog id of call.

Terminate a call and add a Reason header. send CANCEL, BYE or 603 Decline.

#### **Parameters**

excontext eXosip t instance.

cid call id of call.did dialog id of call.reason Reason header.

Build a PRACK for invite.

### **Parameters**

**excontext** eXosip\_t instance.

tid id of the invite transaction.prack The sip prack to build.

Send a PRACK for invite.

#### **Parameters**

**excontext** eXosip\_t instance.

tid id of the invite transaction.

**prack** The sip prack to send.

Get Refer-To header with Replace parameter from dialog.

#### **Parameters**

**excontext** eXosip\_t instance.

**did** id of the dialog.

**refer to** buffer to be filled with refer-to info.

refer\_to\_len size of refer\_to buffer.

Return did (or cid) for the replace header.

#### **Parameters**

excontext eXosip t instance.

replaces buffer to be filled with refer-to info.