

eXosip2 event API

General purpose API.

Data Structures

```
struct eXosip_event
```

Enumerations

```
enum eXosip_event_type {  
    EXOSIP_REGISTRATION_SUCCESS,  
    EXOSIP_REGISTRATION_FAILURE,  
    EXOSIP_CALL_INVITE,  
    EXOSIP_CALL_REINVITE,  
    EXOSIP_CALL_NOANSWER,  
    EXOSIP_CALL_PROCEEDING,  
    EXOSIP_CALL_RINGING,  
    EXOSIP_CALL_ANSWERED,  
    EXOSIP_CALL_REDIRECTED,  
    EXOSIP_CALL_REQUESTFAILURE,  
    EXOSIP_CALL_SERVERFAILURE,  
    EXOSIP_CALL_GLOBALFAILURE,  
    EXOSIP_CALL_ACK,  
    EXOSIP_CALL_CANCELLED,  
    EXOSIP_CALL_MESSAGE_NEW,  
    EXOSIP_CALL_MESSAGE_PROCEEDING,  
    EXOSIP_CALL_MESSAGE_ANSWERED,  
    EXOSIP_CALL_MESSAGE_REDIRECTED,  
    EXOSIP_CALL_MESSAGE_REQUESTFAILURE,  
    EXOSIP_CALL_MESSAGE_SERVERFAILURE,  
    EXOSIP_CALL_MESSAGE_GLOBALFAILURE,  
    EXOSIP_CALL_CLOSED,  
    EXOSIP_CALL_RELEASED,  
    EXOSIP_MESSAGE_NEW,  
    EXOSIP_MESSAGE_PROCEEDING,  
    EXOSIP_MESSAGE_ANSWERED,  
    EXOSIP_MESSAGE_REDIRECTED,  
    EXOSIP_MESSAGE_REQUESTFAILURE,  
    EXOSIP_MESSAGE_SERVERFAILURE,  
    EXOSIP_MESSAGE_GLOBALFAILURE,  
    EXOSIP_SUBSCRIPTION_NOANSWER,  
    EXOSIP_SUBSCRIPTION_PROCEEDING,  
    EXOSIP_SUBSCRIPTION_ANSWERED,  
    EXOSIP_SUBSCRIPTION_REDIRECTED,  
    EXOSIP_SUBSCRIPTION_REQUESTFAILURE,  
    EXOSIP_SUBSCRIPTION_SERVERFAILURE,  
    EXOSIP_SUBSCRIPTION_GLOBALFAILURE,  
    EXOSIP_SUBSCRIPTION_NOTIFY,  
    EXOSIP_IN_SUBSCRIPTION_NEW,  
    EXOSIP_NOTIFICATION_NOANSWER,  
    EXOSIP_NOTIFICATION_PROCEEDING,  
    EXOSIP_NOTIFICATION_ANSWERED,  
    EXOSIP_NOTIFICATION_REDIRECTED,  
}
```

```

    EXOSIP_NOTIFICATION_REQUESTFAILURE,
    EXOSIP_NOTIFICATION_SERVERFAILURE,
    EXOSIP_NOTIFICATION_GLOBALFAILURE,
    EXOSIP_EVENT_COUNT
}

```

Functions

```

void    eXosip_event_free (eXosip_event_t *je)
eXosip_event_t * eXosip_event_wait (struct eXosip_t *excontext, int
    tv_s, int tv_ms)
eXosip_event_t * eXosip_event_get (struct eXosip_t *excontext)
int      eXosip_event_geteventsocket (struct eXosip_t
    *excontext)

```

Detailed Description

Enumeration Type Documentation

enum eXosip_event_type

Structure for event type description

Enumerator:

<i>EXOSIP_REGISTRATION_SUCCESS</i>	user is successfully registred.
<i>EXOSIP_REGISTRATION_FAILURE</i>	user is not registred.
<i>EXOSIP_CALL_INVITE</i>	announce a new call
<i>EXOSIP_CALL_REINVITE</i>	announce a new INVITE within call
<i>EXOSIP_CALL_NOANSWER</i>	announce no answer within the timeout
<i>EXOSIP_CALL_PROCEEDING</i>	announce processing by a remote app
<i>EXOSIP_CALL_RINGING</i>	announce ringback
<i>EXOSIP_CALL_ANSWERED</i>	announce start of call
<i>EXOSIP_CALL_REDIRECTED</i>	announce a redirection
<i>EXOSIP_CALL_REQUESTFAILURE</i>	announce a request failure
<i>EXOSIP_CALL_SERVERFAILURE</i>	announce a server failure
<i>EXOSIP_CALL_GLOBALFAILURE</i>	announce a global failure

<i>EXOSIP_CALL_ACK</i>	ACK received for 200ok to INVITE
<i>EXOSIP_CALL_CANCELLED</i>	announce that call has been cancelled
<i>EXOSIP_CALL_MESSAGE_NEW</i>	announce new incoming request.
<i>EXOSIP_CALL_MESSAGE_PROCEEDING</i>	announce a 1xx for request.
<i>EXOSIP_CALL_MESSAGE_ANSWERED</i>	announce a 200ok
<i>EXOSIP_CALL_MESSAGE_REDIRECTED</i>	announce a failure.
<i>EXOSIP_CALL_MESSAGE_REQUESTFAILURE</i>	announce a failure.
<i>EXOSIP_CALL_MESSAGE_SERVERFAILURE</i>	announce a failure.
<i>EXOSIP_CALL_MESSAGE_GLOBALFAILURE</i>	announce a failure.
<i>EXOSIP_CALL_CLOSED</i>	a BYE was received for this call
<i>EXOSIP_CALL_RELEASED</i>	call context is cleared.
<i>EXOSIP_MESSAGE_NEW</i>	announce new incoming request.
<i>EXOSIP_MESSAGE_PROCEEDING</i>	announce a 1xx for request.
<i>EXOSIP_MESSAGE_ANSWERED</i>	announce a 200ok
<i>EXOSIP_MESSAGE_REDIRECTED</i>	announce a failure.
<i>EXOSIP_MESSAGE_REQUESTFAILURE</i>	announce a failure.
<i>EXOSIP_MESSAGE_SERVERFAILURE</i>	announce a failure.
<i>EXOSIP_MESSAGE_GLOBALFAILURE</i>	announce a failure.
<i>EXOSIP_SUBSCRIPTION_NOANSWER</i>	announce no answer
<i>EXOSIP_SUBSCRIPTION_PROCEEDING</i>	announce a 1xx
<i>EXOSIP_SUBSCRIPTION_ANSWERED</i>	announce a 200ok
<i>EXOSIP_SUBSCRIPTION_REDIRECTED</i>	announce a redirection
<i>EXOSIP_SUBSCRIPTION_REQUESTFAILURE</i>	announce a request failure
<i>EXOSIP_SUBSCRIPTION_SERVERFAILURE</i>	announce a server failure
<i>EXOSIP_SUBSCRIPTION_GLOBALFAILURE</i>	announce a global failure
<i>EXOSIP_SUBSCRIPTION_NOTIFY</i>	announce new NOTIFY request
<i>EXOSIP_IN_SUBSCRIPTION_NEW</i>	announce new incoming SUBSCRIBE.
<i>EXOSIP_NOTIFICATION_NOANSWER</i>	announce no answer
<i>EXOSIP_NOTIFICATION_PROCEEDING</i>	announce a 1xx
<i>EXOSIP_NOTIFICATION_ANSWERED</i>	announce a 200ok
<i>EXOSIP_NOTIFICATION_REDIRECTED</i>	announce a redirection
<i>EXOSIP_NOTIFICATION_REQUESTFAILURE</i>	announce a request failure

<i>EXOSIP_NOTIFICATION_SERVERFAILURE</i>	announce a server failure
<i>EXOSIP_NOTIFICATION_GLOBALFAILURE</i>	announce a global failure
<i>EXOSIP_EVENT_COUNT</i>	MAX number of events

Function Documentation

```
void eXosip_event_free ( eXosip_event_t * je )
```

Free ressource in an eXosip event.

Parameters

je event to work on.

```
eXosip_event_t* eXosip_event_wait ( struct eXosip_t * excontext,
                                     int tv_s,
                                     int tv_ms
                                     )
```

Wait for an eXosip event.

Parameters

excontext eXosip_t instance.

tv_s timeout value (seconds).

tv_ms timeout value (mseconds).

```
eXosip_event_t* eXosip_event_get ( struct eXosip_t * excontext )
```

Wait for next eXosip event. **DEPRECATED API** This API will block - You should use eXosip_event_wait instead which is more convenient. limitation: This method will not process automatic 200ok retransmission for INVITE transaction.

Parameters

excontext eXosip_t instance.

```
int eXosip_event_geteventsocket ( struct eXosip_t * excontext )
```

This socket receive some data when an event happens internally. NOTE: you must call eXosip_event_wait until there is no more events in the fifo.

Parameters

excontext eXosip_t instance.