

**TPRECV(3)**

REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME

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## Chapter 1

# SYNOPSIS

```
#include <atmi.h>
```

```
int tprecv(int cd, char **data, long *len, long flags, long *revent);
```

For XATMI client link with *-latmiclt -latmi -lubf -lnstd -lpthread -lrt -lm*

For XATMI server link with *-latmisrvl -latmisrvnomainl -latmisrvinteg -latmi -lubf -lnstd -lpthread -lrt -lm*

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## Chapter 2

# DESCRIPTION

Receive message from open conversation, which is opened by **tpconnect()**. The incoming buffer *data* must be allocated with **tpalloc()**. If conversation receives disconnect (**TPEV\_DISCONIMM**), service error (**TPEV\_SVCERR**) or service failure (**TPEV\_SVCFAIL**), then global transaction if one in progress is aborted.

### Valid flags

**TPSIGRSTRT** Restart the system call in progress if interrupted by signal handler. This affects only underlying mq\_\* function calls.

**TPNOTIME** Ignore timeout setting (**NDRX\_TOUT** env variable). Wait for reply for infinitely.

**TPNOBLOCK** Do not block on empty queue, if not messages present, the function returns immediately.

## Chapter 3

# RETURN VALUE

On success, **tpcall()** return zero; on error, -1 is returned, with **tperrno** set to indicate the error.

### *revent* return values

**TPEV\_DISCONIMM** Disconnect received from other conversation end, by issuing **tpdiscon()**. The global transaction in progress is aborted in this case.

**TPEV\_SENDOONLY** The sender program issued **tpsend()** with flag **TPEV\_SENDOONLY**, meaning that we become senders.

**TPEV\_SVCERR** Server died and queue was removed.

**TPEV\_SVCFAIL** Server returned **TPFAIL** with **tpreturn()**

**TPEV\_SVCSUCC** Server did **tpreturn()** with **TPSUCCESS**.

## Chapter 4

# ERRORS

Note that **tpsterror()** returns generic error message plus custom message with debug info from last function call.

**TPEINVAL** Invalid call descriptor *cd* passed in.

**TPETIME** Service did not reply in given time (*NDRX\_TOUT*).

**TPEEVENT** Event received and it is installed into *revent* field.

**TPEPROTO** System level service failure. Server died during the message presence in service queue.

**TPESYSTEM** System failure occurred during serving. See logs i.e. user log, or debugs for more info.

**TPEOS** System failure occurred during serving. See logs i.e. user log, or debugs for more info.

## Chapter 5

# EXAMPLE

See `atmitest/test003_basicconvers/atmisv3.c` for sample code.



## Chapter 6

# BUGS

Report bugs to [madars.vitolins@gmail.com](mailto:madars.vitolins@gmail.com)

## Chapter 7

## SEE ALSO

**tpconnect(3) tpsend(3) tpdison(3)**

## **Chapter 8**

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