

**TPSEND(3)**

REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME

# Contents

<b>1</b>	<b>SYNOPSIS</b>	<b>1</b>
<b>2</b>	<b>DESCRIPTION</b>	<b>2</b>
<b>3</b>	<b>RETURN VALUE</b>	<b>3</b>
<b>4</b>	<b>ERRORS</b>	<b>4</b>
<b>5</b>	<b>EXAMPLE</b>	<b>5</b>
<b>6</b>	<b>BUGS</b>	<b>6</b>
<b>7</b>	<b>SEE ALSO</b>	<b>7</b>
<b>8</b>	<b>COPYING</b>	<b>8</b>

## Chapter 1

# SYNOPSIS

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

```
int tpsend(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*

---

## Chapter 2

# DESCRIPTION

Send a message to open conversation, described by *cd*, which is opened by **tpconnect()**. The outgoing buffer *data* must be allocated with **tpalloc()**, if buffer is not self describing .e.g **CARRAY**, then *len* parameter must be correctly set. The *data* can be also set to NULL in that case *len* is not used.

Enduro/X does not terminate global transaction in case of send failure.

### Valid flags

**TPRECVONLY** Signal the caller that we want to enter in listening mode. The other end will receive **TPEV\_SENDOONLY** event.

**TPNOBLOCK** Do not block the call if conversational queue is full.

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

**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** Conversation have been terminated by **tpdiscon()**

**TPEV\_SVCERR** Server died and queue was removed or server did **tpreturn()** with TPSUCCESS\*.

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

---

## 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 or *data* pointer is not pointing to buffer allocated by **tpalloc()**.

**TPETIME** Was unable to send message in given time(*NDRX\_TOUT* env param.).

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

**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)` `tpdiscon(3)` `tpreturn(3)`

## Chapter 8

# COPYING

© Mavimax, Ltd