

**TX\_BEGIN(3)**

REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME

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## Chapter 1

# SYNOPSIS

```
#include <tx.h>
```

```
int tx_begin(void);
```

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

Function starts global transaction for given thread. The resource managers prior must be open by `tx_open(3)`. The transaction shall be terminated with `tx_commit(3)` or `tx_rollback(3)`.

When transaction is started, it uses settings applied by following functions:

- `tx_set_transaction_timeout(3)` - transaction timeout, applied is on per thread bases, default is **0** - maximum timeout.

TX API is base on TP API. This function is based on **`tpbegin(3)`** and it is possible to mix these two API kinds.

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## Chapter 3

# RETURN VALUE

On success, **tx\_begin()** return **TX\_OK**; on error, error code is returned

## Chapter 4

# ERRORS

**TX\_PROTOCOL\_ERROR** Function is called in improper context, either there was no call to *tx\_open()* or thread is already in global transaction.

**TX\_ERROR** Error occurred at transaction manager. The exact cause shall be checked in transaction manager log files. At this error, control thread is no more in global transaction.

**TX\_FAIL** System error occurred during starting the transaction. The exact cause shall be checked in current process and/or transaction manager log files. At this error, control thread is no more in global transaction.

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## Chapter 5

# EXAMPLE

See `atmitest/test021_xafull/atmict21tx.c` for sample code.

## Chapter 6

# BUGS

Report bugs to [support@mavimax.com](mailto:support@mavimax.com)

## Chapter 7

## SEE ALSO

`tx_open(3)` `tpbegin(3)` `tx_commit(3)` `tx_rollback(3)` `tx_info(3)` `tx_close(3)` `tx_set_transaction_timeout(3)`

## **Chapter 8**

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