

**TPOPEN(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 topen (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*

---

## Chapter 2

# DESCRIPTION

Connect to the XA resource manager. Note that environment for process must be configured, so that Enduro/X can load correct resource manager drivers. See the **ex\_env(5)** man page for environment variables, that must be set. Basically Enduro/X will dynamically load library set in **NDRX\_XA\_DRIVERLIB** env variable. This is the driver which provides in unified way of getting **xa\_switch**. As the xa\_switches can be located in different Resource Managers, the second library might be need to load and that is marked in **NDRX\_XA\_RMLIB** env variable. The resource manager ID is set in **NDRX\_XA\_RES\_ID** env variable. If your application needs different resource managers or different transaction branches, then you can use environment variable override functionality, see **ex\_envover(5)** and **ndrxconfig.xml(5)**. XA connection strings for Enduro/X drivers are stored into **NDRX\_XA\_OPEN\_STR** and **NDRX\_XA\_CLOSE\_STR** variables. Enduro/X will try to init XA sub-system as soon as possible (i.e. load drivers, etc.). If you want to delay this till actual **tpopen()**, then you may set **NDRX\_XA\_LAZY\_INIT** to 1.

This function at lowest level, basically calls XA switches **xa\_open\_entry()** function with **NDRX\_XA\_OPEN\_STR** string.

If **tpopen()** was already call and XA is initialised, then function will succeed, and no error will be generated.

## Chapter 3

# RETURN VALUE

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

## Chapter 4

# ERRORS

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

**TPERMERR** Resource Manager failed. The **tpsterror()** will provide more info from last call.

**TPESYSTEM** System failure occurred during serving. See logs i.e. user log, or debugs for more info. This could also be a problem with dynamical driver loading.

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

---

## Chapter 5

# EXAMPLE

See `atmitest/test021_xafull/atmict21.c` for sample code.



## Chapter 6

# BUGS

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

## Chapter 7

## SEE ALSO

`tpcommit(3)` `tpopen(3)` `tpclose(3)` `tpsuspend(3)` `tpresume(3)`

## **Chapter 8**

# **COPYING**

© ATR Baltic, SIA