

TPSRVSETCTXDATA(3)

REVISION HISTORY			
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Chapter 1

SYNOPSIS

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

```
int tpsrvsetctxdata (char *data, long flags);
```

Link with *-latmisrv|-latmisrvnomain|-latmisrvinteg -latmi -lubf -lnstd -lpthread -lrt -lm*

Chapter 2

DESCRIPTION

Restore context data from previously saved (**tpsrvgetctxdata()**) context data. The *data* field is value returned by **tpsrvgetctxdata()**. This function is needed for multi threaded server, in order to restore **tpcall()** data in worker thread. If global transaction was running in main thread for which **tpsrvgetctxdata()** was called, then **tpsrvsetctxdata()** will resume the global transaction in current thread.

In case when restoring context in other server process service, the auto-buffer marking (buffer allocated by incoming message service dispatcher and marked as auto-buffer) is lost. Thus when doing **tpreturn(3)** or **tpforward(3)** with other buffer, than original service incoming call buffer, the original call buffer (initial auto-buffer) will leak. By contrast of normal service work, where **tpsrvsetctxdata()** is not used, the auto-buffer will be freed by system, even doing return with other XATMI buffer.

Thus to avoid leaking, either **tpreturn()** or **tpforward()** shall be done with original call buffer, or if not possible, then after doing **tpsrvsetctxdata()**, original call buffer shall be freed by **tpfree(3)**.

This function is available only for XATMI servers.

Valid flags

TPNOAUTBUF Do not restore auto buffer when restoring the server context. This can be suitable in case if buffer is already made free by initial service thread and the target server/service does not know anything about given pointer. E.g. the context is copied to different process. If context is copied to other process with out using this flag, then segmentation fault is possible at **tpreturn()** or **tpforward()**.

Chapter 3

RETURN VALUE

On success, **tpsrvsetctxdata()** return pointer to context data block; on error, NULL is returned, with **tperrno** set to indicate the error.

Chapter 4

ERRORS

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

TPEINVAL *data* is NULL.

TPEPROTO Global transaction is already started.

TPESYSTEM System failure occurred during serving. See logs i.e. user log, or debugs for more info. Could be the case if XA sub-system is not open by **tpopen()**.

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

Chapter 5

EXAMPLE

See `atmitest/test017_srvthread/atmisv17.c` for sample code.

Chapter 6

BUGS

Report bugs to support@mavimax.com

Chapter 7

SEE ALSO

`tpsrvgetctxdata(3)` `tpcontinue(3)` `tpinit(3)` `tpreturn(3)` `tpforward(3)` `tpfree(3)`

Chapter 8

COPYING

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