

**TPUBFTOJSON(3)**

| REVISION HISTORY |      |             |      |
|------------------|------|-------------|------|
| NUMBER           | DATE | DESCRIPTION | NAME |
|                  |      |             |      |

# Contents

|                   |                              |                   |
|-------------------|------------------------------|-------------------|
| <a href="#">1</a> | <a href="#">SYNOPSIS</a>     | <a href="#">1</a> |
| <a href="#">2</a> | <a href="#">DESCRIPTION</a>  | <a href="#">2</a> |
| <a href="#">3</a> | <a href="#">RETURN VALUE</a> | <a href="#">3</a> |
| <a href="#">4</a> | <a href="#">ERRORS</a>       | <a href="#">4</a> |
| <a href="#">5</a> | <a href="#">EXAMPLE</a>      | <a href="#">5</a> |
| <a href="#">6</a> | <a href="#">BUGS</a>         | <a href="#">6</a> |
| <a href="#">7</a> | <a href="#">SEE ALSO</a>     | <a href="#">7</a> |
| <a href="#">8</a> | <a href="#">COPYING</a>      | <a href="#">8</a> |

## Chapter 1

# SYNOPSIS

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

```
int tpubftojson(UBFH *p_ub, char *buffer, int bufsize);
```

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

Function converts UBF buffer in *p\_ub* to JSON object string to *buffer* string. The field *bufsize* must indicate the space in **buffer**. If the size is not enough, function will fail.

For example, following buffer in *p\_ub*:

```
T_SHORT_FLD      1765
T_LONG_FLD       3333111
T_LONG_FLD       2
T_CHAR_FLD       A
T_FLOAT_FLD      1.33000
T_DOUBLE_FLD     1111.220000
T_DOUBLE_FLD     333.000000
T_DOUBLE_FLD     444.000000
T_STRING_FLD     HELLO WORLD
T_CARRAY_FLD     \00\01\02\03HELLO BINARY\04\05\00
```

will be converted in following JSON buffer:

```
{
  "T_SHORT_FLD":1765,
  "T_LONG_FLD":[
    3333111,
    2
  ],
  "T_CHAR_FLD":"A",
  "T_FLOAT_FLD":1.330000,
  "T_DOUBLE_FLD":[
    1111.220000,
    333,
    444
  ],
  "T_STRING_FLD":"HELLO WORLD",
  "T_CARRAY_FLD":"AAECA0hFTExPIEJJTkFSWQQFAA=="
}
```

CARRAY (byte array) data will be converted as base64 string in JSON. In output JSON output formatting newlines might not be present.

## Chapter 3

# RETURN VALUE

On success, **tpacall()** return call descriptor (>0); on error, -1 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.

**TPESYSTEM** System failure occurred during serving. See logs i.e. user log, or debugs for more info. Might be insufficient memory, JSON or UBF library failure.

**TPEOS** Not enough space in output *buffer*.

---

## Chapter 5

# EXAMPLE

See `atmitest/test024_json/atmict24.c` for sample code.



## Chapter 6

# BUGS

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

## Chapter 7

## SEE ALSO

`ndrxdebug.conf(5)`, `tpjsontoubf(3)`

## Chapter 8

# COPYING

© Mavimax, Ltd