

TPVIEWTOJSON(3)

| REVISION HISTORY | | | |
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Chapter 1

SYNOPSIS

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

```
int tpviewtojson(char *cstruct, char *view, char *buffer, int bufsize, long flags);
```

For XATMI client link with *-latmiclt -latmi -lview -lnstd -lpthread -lrt -lm*

For XATMI server link with *-latmisrvl -latmisrvnomainl -latmisrvinteg -latmi -lview -lnstd -lpthread -lrt -lm*

Chapter 2

DESCRIPTION

Function converts VIEW buffer in *cstruct*, described by *view* to JSON string stored in *buffer* string. The field *bufsize* must indicate the space in **buffer**. If the size is not enough, function will fail. *flags* current is used to define the function logic in case for *NULL* fields in view file.

For example, following buffer in *cstruct/view*:

```
VIEW MYVIEW2
#type      cname      fbname      count    flag      size      null
short      tshort1    -          1        -         -         2000
long       tlong1     -          1        -         -         5
char       tchar1     -          1        -         -         '\0'
float      tfloat1    -          1        -         -         1.1
double     tdouble1   -          1        -         -         0.0
string     tstring1   -          3        -         15        'HELLO WORLD'
carray     tcarray1   -          1        -         10        '- '
END
```

and structure initialized to (in C, no error handling for simplicity):

```
struct MYVIEW2 v2;
char buf_with_nulls[65000];
char buf_no_nulls[65000];

Bvsinit((char *)&v2, "MYVIEW2"); /* initialize to NULL values */

v2.tshort1=100;
strcpy(v2.tstring1[1], "Enduro/X");

/* by default null fields are exported */
tpviewtojson((char *)&v2, "MYVIEW2", buf_with_nulls, sizeof(buf_with_nulls), 0);

/* BVACCESS_NOTNULL makes to export only non NULL fields*/
tpviewtojson((char *)&v2, "MYVIEW2", buf_no_nulls, sizeof(buf_with_nulls), BVACCESS_NOTNULL ←
);
```

Buffer *buf_with_nulls* in this example will be filled with following message:

```
{
  "MYVIEW2":
  {
    "tshort1":100,
    "tlong1":5,
```

```
        "tchar1": "",
        "tfloat1": 1.10000,
        "tdouble1": 0.000000,
        "tstring1": ["HELLO WORLD", "Enduro/X", "HELLO WORLD"],
        "tcarray1": "LQ=="
    }
}
```

Buffer *buf_no_nulls* in this example will be filled with following message:

```
{
    "MYVIEW2":
    {
        "tshort1": 100,
        "tstring1": ["HELLO WORLD", "Enduro/X"]
    }
}
```

NOTE that "carray" typed view fields are exported as base64 strings.

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. Enduro/X environment not configured.

TPEOS Not enough space in output *buffer*.

TPEINVAL *cstruct* is NULL, *view* is NULL or empty string, *buffer* is NULL.

Chapter 5

EXAMPLE

See `atmitest/test040_typedview/atmict40.c` for sample code.

Chapter 6

BUGS

Report bugs to support@mavimax.com

Chapter 7

SEE ALSO

`ndrxdebug.conf(5)` `tpjsontoview(3)` `viewc(8)` `ex_env(5)`

Chapter 8

COPYING

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