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TSAM Plus Commands Reference

The Oracle TSAM Plus Reference Guide describes system processes and commands delivered with the Oracle TSAM Plus software.

Table 1 lists the Oracle TSAM Plus system processes and commands.

Table 1 Oracle TSAM Plus System Processes and Commands

Name	Description
LMS (Local Monitor Server)	The Oracle TSAM Plus Agent Local Monitor Server
tpgetcallinfo	Routine for retrieving call path message monitoring attributes

LMS (Local Monitor Server)

Name

LMS—The Oracle TSAM Plus Agent Local Monitor Server

Synopsis

```
LMS SRVGRP="identifier" SRVID="number" [other_parms]

CLOPT= "-A -- -1
tsam-manager-dataserver-url[,tsam-manager-backupdataserver-url] [-t
heartbeat-interval] [-n fetch_coll_capacity] [-m metrics-shm-size]"
```

Description

LMS is an Oracle TSAM Plus Agent Tuxedo server. It provides the following functions:

- Acts as the local Tuxedo domain data collection proxy
 - The performance metrics collected by the Oracle TSAM Plus framework are passed to the plug-in. Oracle TSAM Plus default plug-in sends the data to the LMS using the Tuxedo service infrastructure.
- Plug-in metrics are stored in the LMS before being sent to the Oracle TSAM Plus manager data server. The LMS and Oracle TSAM Plus manager use the HTTP+XML protocol.
- Other management information exchanges between the LMS and Oracle TSAM Plus manager.

The LMS must be configured in the UBBCONFIG file and set with the proper options. One Tuxedo machine must be configured with one LMS. Multiple LMS on one machine is not supported. LMS is recommended to be configured at the end of UBBCONFIG so that it can retrieve all server information when Tuxedo domain booted. LMS still can synchronize the configuration to TSAM Plus manager periodically.

Options

-1

Mandatory parameter. It is followed by one or two addresses of the Oracle TSAM Plus manager data servers. The host address and port number are set based on your Oracle TSAM Plus manager installation. The format is:

host:port/tsam

- host is the host DNS name or IP address of the box where TSAM Plus manager is installed.
- port is the TCP port number.
- tsam is the Oracle TSAM Plus manager reserved path name.

If specifying two TSAM Plus manager addresses, use a comma (,) separator.

In the event that two addresses are specified, TSAM Plus agent always connects the first address first, and then tries to connect the backup address if the first address is not reachable.

Whenever the connection is broken, TSAM Plus agent always tries to connect first address first.

Note: Configuring two TSAM Plus manager addresses has been supported since TSAM Plus 12.1.1.1.

-m

Optional parameter. Specifies the size of shared memory used to store raw data metrics. The optional trailing letter k or m denotes KB or MB bytes, otherwise the unit is in bytes. The effective value is rounded up to 4K size since it is the page size for most platforms.

The default value is 10MB if this option is not present. The size of the shared memory will not grow at run time when there is no free space to store new data. In this case oldest data is replaced with new data.

-r

Specifies the maximum sleep time (in milliseconds) of reconnecting when TSAM agent keeps failing to connect TSAM manager. The default value is 60,000 milliseconds.

Optional parameter. It specifies the time interval in seconds that LMS should connect to the Oracle TSAM Plus manager with configuration synchronization. The default value is 100 seconds.

-n

Optional parameter, introduced since TSAM Plus 12.1.1.1. It specifies the amount of monitoring data sent by TSAM Plus agent to TSAM Plus manager per request. Valid value range is from 1 to 100 and the default value is 16. If configuring a value that is greater than 100, 100 will be used.

Example(s)

Listing 1-1 shows the LMS in UBBCONFIG.

Listing 1-1 LMS in UBBCONFIG

```
*SERVERS
LMS SRVGRP=LMSGRP SRVID=1
CLOPT="-A -- -1 tsamweb.abc.com:8080/tsam -m 20M -t 180 -n 64"
...
```

tpgetcallinfo

Name

tpgetcallinfo()—Routine for retrieving call path message monitoring attributes.

Synopsis

```
int tpgetcallinfo(const char *msg, FBFR32 **obuf, long flags)
```

Description

tpgetcallinfo() is used for call path monitoring only. It supports the following parameters:

msg

The typed buffer use for measurement.

obuf

The FML32 buffer used to contain the fields.

flags

Reserved for future use.

For monitored calls, tpgetcallinfo() uses the following fields: following fields:

```
tpgetcallinfo()
```

Retrieves the message monitoring attributes when call path monitoring is enabled.

```
tpgetcallinfo()
```

Can be used in different scenarios to accomplish different functions. Typical usage is as follows:

- Application server calls tpgetcallinfo() to check the requested message monitoring attributes. It can provide the following information:
 - Correlation ID of the request. It is generated by the caller
 - Begins time stamping when the monitoring initiator starts the call
 - Last stop time stamp on the call path tree of the monitored request. Usually, it is used to measure the process requested message waiting time for a service
 - Workstation client address if the request is from a Tuxedo workstation client
- The monitoring initiator calls tpgetcallinfo() to get the end to the monitored call end time.

Note: tpgetcallinfo() can be called at any time for a reply buffer after a reply is received. This is especially useful with tpacall/tpgetrply.

Table 2 lists the FML monitor metrics field names.

Table 2 Monitor Initiator Field Names

Field Name	Туре	Description	Service	Monitoring Initiator
TA_MONCORRID	string	The monitored call correlation ID. It is a critical call path monitoring metric.	Y	Y
TA_MONLASTTIMESEC	long	Timestamp for the last stop on the call path tree in seconds.	Y	Y
TA_MONLASTTIMEUSEC	long	Timestamp of last stop on the call path tree in microseconds.	Y	Y
TA_MONSTARTTTIMESEC	long	Timestamp when the monitoring initiator starts the call in seconds.	Y	Y
TA_MONSTARTTIMEUSEC	long	Timestamp of the monitoring initiator starts the call in microseconds.	Y	Y
TA_MONCLTADDR	string	The workstation client address	Y	N
TA_MONTOTALTIME	long	The end-to-end time used for a monitored call in milliseconds.	N	Y
TA_ECID	string	Execution context ID	Y	Y

Return Values

Upon successfully getting a FML32 buffer containing the monitoring attributes, returns 0.

Upon failure, tpgetcallinfo() returns -1 and sets tperrno to indicate the error condition.

Errors

Upon failure, tpgetcallinfo() sets tperrno to one of the following values,

[TPEINVAL]

Invalid arguments were given (for example, msg is NULL or obuf is not a valid FML32 buffer)

[TPESYSTEM]

The message input does not contain monitoring attributes. Usually this is because the call path monitoring is not turned on for the message.

[TPEOS]

An operating system error has occurred.

Example(s)

Listing 1-1 provides a service-side tpgetcallinfo example.

Listing 1-1 Service-Side tpgetcallinfo Example

```
#include <stdio.h>
#include <atmi.h>
#include <userlog.h>
#include <fml32.h>
#include <tpadm.h>
#if defined(__STDC__) || defined(__cplusplus)
tpsvrinit(int argc, char *argv[])
#else
tpsvrinit(argc, argv)
int argc;
char **argv;
#endif
       /* tpsvrinit logic */
#ifdef __cplusplus
extern "C"
#endif
void
#if defined(__STDC__) || defined(__cplusplus)
APPSVC(TPSVCINFO *rqst)
#else
TOUPPER(rqst)
TPSVCINFO *rqst;
#endif
       FBFR32 *metainfo;
       int len = 0;
       /* Allocate the metainfo space */
```

```
metainfo = tpalloc("FML32", NULL, 1024);
       if (metainfo == NULL ) {
              userlog("Memory allocation failed");
              tpreturn(TPFAIE, 0, 0, 0);
       }
       /* Get the monitoring attributes*/
       if ( tpgetcallinfo(rqst->data, &metainfo, 0) == 0 )
              char *corrid;
              long laststopsec, starttimesec;
              if ((corrid = Ffind32(metainfo, TA_MONCORRID, 0, &len) ) {
                     userlog("Correlation ID = %s", corrid);
              }
              len = sizeof(starttimesec);
              if (( Fget32(metainfo, TA_MONSTARTTIMESEC, &starttimesec,
\ell = 0  {
                     userlog("Message beginning time = %ld", starttimesec);
              }
}
              len = sizeof(lasttimesec);
       if (( Fget32(metainfo, TA_MONLASTTIMESEC, &lasttimesec, &len) == 0)
{
              userlog("Message entering my queue time = %ld", lasttimesec);
       }
       tpfree(metainfo);
       /* rest of service processment */
}
```

TSAM Plus Accounting and Chargeback

This chapter contains the following sections:

- Accounting Information Output
- Accounting Information Analyzing
- Known Issues

Accounting Information Output

Prerequisite

Before you can use this feature, make sure TSAM Plus agent is installed and TSAM Plus plug-in is enabled.

Configuration

A new option, -a, is added to servopts(5) for providing more various accounting information output fields:

```
-a FILENAME[[$FIELD]...]
```

If -a option is set, the Tuxedo server prints accounting information into the file specified by FILENAME.

The accounting file is generated daily with a file name in the format of [FILENAME].mmddyy.

The fields that can be specified for -a option are as follows:

- DID: Indicates the Tuxedo Domain ID of the server process.
- LMID: Indicates the LMID of the server process.
- GRPID: Indicates the Tuxedo Group ID of the server process.
- GRPNAME: Indicates the Tuxedo Group name of the server process.
- SID: Indicates the Tuxedo Server ID of the server process.
- PID: Indicates the process ID of the Tuxedo server process.
- PNAME: Indicates the process name of the Tuxedo server process.
- SVC: Indicates the name of the service being invoked. It always appears in the output fields when "-a" is specified.
- GID: Indicates the Tuxedo user group invoking the service.
- UID: Indicates the Tuxedo user ID invoking the service.
- CLIENT: Indicates the Tuxedo client invoking the service.
- STIME: Indicates the time entering the service routing. The output of this field is in the format of "tv_sec/tv_usec", where two values are expressed as seconds and microseconds since 00:00 Coordinated Universal Time (UTC), January 1, 1970 respectively. It always appears in the output fields when "-a" is specified.
- ETIME: Indicates the time leaving the service routing. The output of this field is in the format of "tv_sec/tv_usec", where two values are expressed as seconds and microseconds since 00:00 Coordinated Universal Time (UTC), January 1, 1970 respectively. It always appears in the output fields when "-a" is specified.
- TIME: Indicates the total CPU time (in microsecond) consumed by the service call.
- SYSTIME: Indicates the System CPU time (in microsecond) consumed by the service call.
- USRTIME: Indicates the User CPU time (in microsecond) consumed by the service call.
- ERRNO: Indicates the ERRNO returned to the service invoker.
- URCODE: Indicates the URCODE returned to the service invoker.
- SIZE: Indicates the size of the request message (in byte).
- WTIME: Indicates the waiting time of the request message in a queue (in microsecond).

• ALL: Indicates all fields above.

If no filed is specified for "-a" option, these fields are included in sequence by default: UID, SVC, STIME, ETIME, SYSTIME, USRTIME.

If a duplicate field name is specified, it is ignored and a warning message is printed in ULOG: "ERROR: duplicate field xxx for -a option".

If an invalid field is specified, it is ignored and an error message is printed in ULOG "ERROR: xxx is not a valid field for -a option".

The fields separated by TAB character are listed in the first line of a new accounting file. Following is a sample:

```
#UID SVC STIME ETIME SYSTIME USRTIME
```

Subsequently a line is printed for every service call in the same sequence of the field names and values are separated by a TAB character as well. If a field value is not available, it will be left empty.

Note:

- A Log file cannot be re-created if it has been deleted when Tuxedo is running.
- It is recommended you install the Tuxedo 11gR1PS1 RP043(or newer), otherwise, an error message appears: "illegal option a".
- If multiple server instances output accounting information to the same file, the same fields in the same sequence must be specified for all relevant servers, otherwise accrpt cannot work.
- The services in system server, such as BBL, GWTDOMAIN, TMS, etc. or the system services with the name starting with '.' cannot generate accounting records. The following Oracle Tuxedo Application Runtime for CICS servers are supported:
- ARTATR1
- ARTATRN
- ARTCNX
- ARTDPL
- ARTSTR1
- ARTSTRN
- ARTTDQ
- ARTTSO

- A multithread server (built with "-t" option) reports no TIME, SYSTIME or IISRTIME.
- A server with the "NONE" or "APP_PW" value of the SECURITY parameter in TUXCONFIG file reports no GID, UID or CLIENT.

Samples

```
CLOPT="-A -a account_file$SVC$GID$UID$TIME$SIZE --"
CLOPT="-A -a account_file$ALL --"
CLOPT="-A -a account_file --"
```

Accounting Information Analyzing

You can use a new tool accrpt to analyze and aggregate the content of accounting file.

If an accounting file is specified, accrpt analyzes and aggregates the file content and print the aggregated information into STDOUT.

```
accrpt [-k FIELD[,FIELD]...] [-t
{MINUTE|5MINUTES|10MINUTES|15MINUTES|HOUR|DAY}] [-o FIELD[,FIELD]...] [-i]
[FILE(s)]
```

Configuration

-k option

It indicates the key fields separated by ',' . The following fields can be specified:

- DID: Indicates the Tuxedo Domain ID of the server process.
- LMID: Indicates the LMID of the server process.
- GRPID: Indicates the Tuxedo Group ID of the server process.
- GRPNAME: Indicates the Tuxedo Group name of the server process.
- SID: Indicates the Tuxedo Server ID of the server process.
- PID: Indicates the process ID of the Tuxedo server process.
- PNAME: Indicates the process name of the Tuxedo server process.
- SVC: Indicates the name of the service being invoked.

- GID: Indicates the Tuxedo user group invoking the service.
- UID: Indicates the ID of the Tuxedo user invoking the service.
- CLIENT: Indicates the Tuxedo client invoking the service.

If this option is not specified, the SVC field is specified by default. If a field is specified but its value is not available, the field will be left empty in the output result.

-t option

It indicates the time window to aggregate the accounting information. If it is not specified, the accounting information is aggregated in hour by default.

-o option

It indicates the measurement fields that are outputted for accounting and chargeback purposes. Fields are separated by ','. The following fields can be specified in the list:

- TIMES: Indicates the total invoke times.
- SUCC: Indicates the invoke times for returning success.
- APPFAIL: Indicates the invoke times for returning application failure.
- SYSFAIL: Indicates the invoke times for returning system failure.
- ELPTIME: Indicates the total elapse time (in millisecond).
- TIME: Indicates the total CPU time (in millisecond).
- SYSTIME: Indicates the total System CPU time (in millisecond).
- USRTIME: Indicates the total User CPU time (in millisecond).
- SIZE: Indicates the total message size (in kilobytes) of the request message.
- WTIME: Indicates the average waiting time of the request message in a queue (in microsecond).

By default, fields TIMES, ELPTIME, SYSTIME, and USRTIME are selected as measurement fields.

-i option

If this option is specified, accrpt ignores the line of accounting information where any empty key field is included.

File(s)

Specifies accounting files for analyzing. If no file is specified, accrpt reads input from STDIN.

Output

accrpt analyzes raw accounting information and outputs the aggregated accounting information into STDOUT. Three groups of fields are outputted in sequence:

- Implicit fields: include STIME and ETIME of the time window. They are always printed as the first and second fields.
- Key field: All key fields specified by -k option.
- Measurement fields: all fields specified by -o option.

accrpt prints all fields in one line prefixed # character firstly and all accounting information subsequently, sorted by all Key fields, STIME, and ETIME in ascending order. In a line, all fields are separated by TAB character. If a value is not available, it is left empty.

Samples

Sample 1 - Default Usage

For SimpleServer, here we set its CLOPT parameter as "-A -a simpserv_acct -- "

Every day this server outputs its accounting information into a new file named simpserv_acct.mmddyy.

```
>cat simpserv_acct.022102
```

# SVC U	ID STIME	ETIME	SYSTIME	USRTIM	E		
TOUPPER	John	178924	9093/34452	178924909	3/65389	100	50
>accrpt	account3.	022102					

#STIME	ETIME	SVC	TIMES	ELPTIME	SYSTIM	E	USRTIME
00:00:00	01:00:00)	TOLOWER	10	100	20	40
01:00:00	02:00:00)	TOLOWER	15	200	30	50
00:00:00	01:00:00)	TOUPPER	10	100	20	40
01:00:00	02:00:00)	TOUPPER	10	100	20	40

.

Sample 2

>accrpt -t DAY account.022012

#STIME	ETIME	SVC	TIMES	ELPTIME	SYSTIM	E	USRTIME
00:00:00	24:00:0	0	TOLOWER	150	2000	300	500
00:00:00	24:00:0	0	TOUPPER	100	1000	200	400

Sample 3

>accrpt -k SVC-o TIMES,ELPTIME,TIME,SIZE account1.022012 account3.022012

#STIME	ETIME	SVC	TIMES	ELPTI	ME	TIME	SIZE
00:00:00	01:00:00	TOLOWE	R	10	100	20	100
01:00:00	02:00:00	TOLOWE	R	15	200	30	500
00:00:00	01:00:00	TOUPPE	R	10	100	20	100
01:00:00	02:00:00	TOUPPE	R	15	200	30	500

Known Issues

- The user ID of an ART service "connect" call is the domain ID. This works by design.
- The ART service "disconnect" cannot be accounted.

TSAM Plus Accounting and Chargeback

TSAM Plus LDAP Configuration File

The Oracle TSAM Plus LDAP configuration file is similar to the Oracle Tuxedo GAUTHSVR configuration file.

LDAP Configuration File

Although the default values for the LDAP configuration file are usually sufficient, you can choose to configure it with different names. Therefore, you should be aware of the following requirements for the LDAP configuration file:

- The LDAP configuration file is a plain text file.
- Keywords are case-sensitive, but their order does not matter. The keyword format is keyword=value.
- Blank lines or lines starting with a # sign are treated as comments, and are ignored.
- The upper limit of a line is 255 characters. If a line exceeds this upper limit, it is truncated.
- The Principal must have privileges to access the LDAP database (usually the LDAP administrator).

Table 3-1 lists the LDAP configuration file keywords.

Table 3-1 LDAP Configuration File Keywords

Configuration Keyword	Value Type	Description
Host	string	The host name or IP address of the LDAP server.The default value is localhost.
Port	numeric	The port number on which the LDAP server is listening. The default value is 389.
Principal		The Distinguished Name (DN) of the LDAP user that is used to connect to the LDAP server.
Credential		The credential (generally a password) used to authenticate the LDAP user that is defined in the Principal attribute.
UserObjectClass	string	The LDAP object class that stores users. The default is person.
UserBaseDN	string	The base distinguished name (DN) of the tree in the LDAP directory that contains users. The default is ou=people, o=example.com
UserFromNameFilter	string	An LDAP search filter for finding a user given the name of the user. The default is (&(cn=%u)(objectclass=person))
UserUIDAttrName	string	The attribute name of an LDAP user object that specifies the UID of the user or the UID and GID of the user in a fixed format. The default value is userid.
UserGroupAttrNames	string	The attribute names of an LDAP user object that specify the groups the user belongs to. This attribute can contain three types of values: GID, group CN and group DN. One type of value for each configuration. More names are separated by comma. The default value is usergroups.
RetrieveUIDAndGID	boolean	It should always be "true"
UIDAttrValueType	string	It should always be "UIDAndGID"

Table 3-1 LDAP Configuration File Keywords

Configuration Keyword	Value Type	Description
UseZOSRACF	boolean	Specifies whether the LDAP server is z/OS RACF LDAP server. The default is false.
SSLEnabled	boolean	Specifies that SSL is used to connect to the LDAP server
		The maximum number of seconds to wait for the LDAP connection to be established. If set to 0, there is no maximum time limit.
ConnectTimeout	numeric	The default value is 0.

Weblogic Embedded LDAP Server LDAP Configuration File Example

Listing 3-1 shows a Weblogic embedded LDAP server LDAP configuration file example.

Listing 3-1 Weblogic Embedded LDAP Server LDAP Configuration File Example

```
Host = localhost
Port = 7001
Principal = cn=Admin
Credential = aaa
UserObjectClass = person
UserBaseDN = ou=people,ou=myrealm,dc=base_domain
UserFromNameFilter = (&(uid=%u)(objectclass=person))
UserUIDAttrName = description
UserGroupAttrNames=wlsMemberOf
RetrieveUIDAndGID = true
UIDAttrValueType = UIDAndGID
UseZOSRACF=false
SSLEnabled=false
ConnectTimeout=5
```

TSAM Plus Database Metadata

TSAM Plus Database Metadata

This chapter contains the following sections:

- Tuxedo Configuration Information
- Tuxedo Monitoring Information
- TSAM Plus Management Information

Tuxedo Configuration Information

This section contains the following:

- TUXDOMAIN
- MACHINE
- GROUPS
- SERVER
- SERVICE
- LDOM
- RDOM
- ARTREGION
- ARTTUXGROUP
- ARTRESGROUP

• ARTTRAN

TUXDOMAIN

Tuxedo domain information.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note	
ID	NUMBER	NO	PK	11.1.1.1.0		
NAME	VARCHAR2(255)	NO	Unique	11.1.1.1.0	The domain name to identify the domain. Its value is composed of:	
					[Domain id]:[PMID of master machine]:[IPC key]	
MASTER	VARCHAR2(255)	NO		11.1.1.1.0	LMID of master machine	
STATUS	VARCHAR2(31)	NO		11.1.1.1.0	The status of the Tuxedo domain: ACT: Active INA: Inactive INV: Invalid, the node may not exist anymore.	
TUXMODE	VARCHAR2(31)	YES		11.1.1.1.0	MODE parameter in UBB	
TAG	NUMBER	NO		11.1.1.1.0	Internal used.	
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved.	

MACHINE

Tuxedo machine information.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
TUXDOMAI NID	NUMBER	NO	FK to TUXDOMAI N (ID)	11.1.1.1.0	
NAME	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	PMID of the Tuxedo Machine
LMID	VARCHAR2(255)	NO		11.1.1.1.0	LMID of the Tuxedo Machine
STATUS	VARCHAR2(31)	NO		11.1.1.10	The status of the Tuxedo machine: ACT: Active INA: Inactive INV: Invalid, the node may not exist anymore.
TUXVERSIO N	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo version
TSAMVERSI ON	VARCHAR2(255)	YES		11.1.1.1.0	TSAM Plus Agent version
HOSTNAME	VARCHAR2(255)	NO		11.1.1.1.0	Host name of the machine.
SERVERNA ME	VARCHAR(1 023)	YES		12.1.1.0	The host name of TSAM Plus manages to which the Tuxedo machine is connecting.

SERVERPOR T	NUMBER	YES	12.1.1.0	The port of TSAM Plus manager to which the Tuxedo machine is connecting.
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved

GROUPS

Tuxedo group information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
MACHINEID	NUMBER	NO	FK to MACHINE (ID)	11.1.1.1.0	
NAME	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	Group name
TUXGRPID	NUMBER	NO		11.1.1.1.0	GRPNO parameter in the UBB.
STATUS	VARCHAR2(31)	NO		11.1.1.1.0	The status of the Tuxedo machine: ACT: Active INA: Inactive INV: Invalid, the node may not exist anymore.
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved

SERVER

Tuxedo server information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
GROUPID	NUMBER	NO	FK to GROUPS (ID)	11.1.1.1.0	GRPNO parameter in the UBB
NAME	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	AOUT parameter in UBB
TUXSVRID	NUMBER	NO		11.1.1.1.0	SRVID parameter in UBB
STATUS	VARCHAR2(31)	NO		11.1.1.1.0	The status of the Tuxedo machine: ACT: Active INA: Inactive INV: Invalid, the node may not exist anymore.
CLOPT	VARCHAR2(1023)	YES		11.1.1.2.0	CLOPT parameter in UBB
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved.

SERVICE

Tuxedo service information.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
SERVERID	NUMBER	NO	FK to SERVER (ID)	11.1.1.1.0	
NAME	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	Service name

FUNCNAME	VARCHAR2(255)	YES	11.1.1.1.0	Function name
STATUS	VARCHAR2(31)	NO	11.1.1.1.0	The status of the Tuxedo machine: ACT: Active INA: Inactive INV: Invalid, the node may not exist anymore.
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved.

LDOM

Tuxedo local domain gateway information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
NAME	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	The name of this local domain access point.
LDOMID	VARCHAR2(255)	NO		11.1.1.1.0	The identifier of the domain gateway group associated with this local domain access point.
GROUPNAM E	VARCHAR2(255)	NO		11.1.1.1.0	The group name of the domain gateway group representing this local domain access point.
STATUS	VARCHAR2(31)	NO		11.1.1.1.0	The status of this local domain access point: VALid

TYPE	VARCHAR2(255)	YES		11.1.1.1.0	Always TDOMAIN
TUXDOMAI NID	NUMBER	NO	FK to TUXDOMAI N (ID)	11.1.1.1.0	
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved.

RDOM

Tuxedo remote domain gateway information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
NAME	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	The name of the remote domain access point
RDOMID	VARCHAR2(255)	YES		11.1.1.1.0	Reserved
LDOM	NUMBER	NO	FK to LDOM(ID)	11.1.1.1.0	
STATUS	VARCHAR2(31)	NO		11.1.1.1.0	The status of the remote domain access point: ACTIVE SUSpended INItializing INActive UNKnown
TYPE	VARCHAR2(255)	YES		11.1.1.1.0	The type of domain:
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved.

ARTREGION

Tuxedo application runtime for CICS region information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	Region ID
TUXDOMAI NID	NUMBER	NO	FK to TUXDOMAI N (ID)	11.1.1.1.0	Domain ID
NAME	VARCHAR2(255)	NO	Unique	11.1.1.1.0	Region name
STATUS	VARCHAR2(31)	YES		11.1.1.1.0	The status of the Region:
					• ACT: Active
					• INA: Inactive
					 INV: Invalid, the node may not exist anymore.
STARTTIME	TIMESTAMP	YES		11.1.1.1.0	Start time
SHUTDOWN TIME	TIMESTAMP	YES		11.1.1.1.0	Shutdown time
TRANCLASS ESDESC	CLOB	YES		12.1.1.0	The content of file tranclasses.de
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved.

ARTTUXGROUP

Tuxedo application runtime for CICS region information

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	

ARTREGIONI D	NUMBER	NO	FK to ARTREGION (ID)	11.1.1.1.0	
GROUPID	NUMBER	NO		11.1.1.1.0	Tuxedo Group ID
NAME	VARCHAR2(255)	NO		11.1.1.1.0	Tuxedo Group Name
STATUS	VARCHAR2(31)	YES		11.1.1.1.0	Reserved.
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved.

ARTRESGROUP

Tuxedo application runtime for CICS group information

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
ARTREGIONI D	NUMBER	NO	FK to ARTREGION (ID)	11.1.1.1.0	
NAME	VARCHAR2(255)	NO		11.1.1.1.0	Resource group name
STATUS	VARCHAR2(31)	YES		11.1.1.1.0	The status of the resource group: ACT: Active INA: Inactive INV: Invalid, the node may not exist anymore.
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved.

ARTTRAN

Tuxedo application runtime for CICS transaction information

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
ARTRESGRO UPID	NUMBER	NO	FK to ARTRESGRO UP (ID)	11.1.1.1.0	
NAME	VARCHAR2(255)	NO		11.1.1.1.0	Resource group name
STATUS	VARCHAR2(31)	YES		11.1.1.1.0	The status of the Region group: ACT: Active INA: Inactive INV: Invalid, the node may not exist anymore.
TRANCLASS	VARCHAR2(255)	YES		12.1.1.0	The transaction class which this resource group belongs to.
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved.

Tuxedo Monitoring Information

This section contains the following:

- POLICY
- ALERT_DEFINITION
- ALERT
- CALLPATH
- MON_CPSEGMENT
- MON_XA

- MON_SERVICE
- MON_GWTDOMAIN
- MON_GWTLINK
- MON_BRIDGE
- MON_BRGLINK
- MON_GWWS
- MON_ARTTCP
- MON_JESJOB
- MON_CLOB

POLICY

Monitoring policy information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
TUXDOMAI NID	NUMBER	NO	FK to TUXDOMAI N (ID)	11.1.1.1.0	
NAME	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	Policy name.
STATUS	VARCHAR2(31)	NO		11.1.1.1.0	Policy status: enabled disabled
AGENTTYPE	VARCHAR2(255)	YES		11.1.1.1.0	Policy type: tuxedo: Tuxedo monitoring policy. art: Tuxedo application runtime for CICS monitoring policy.

CREATEDTI ME	TIMESTAMP	NO	11.1.1.1.0	Create time
MODIFIEDTI ME	TIMESTAMP	YES	11.1.1.1.0	Modify time
TSAMVERSI ON	VARCHAR2(255)	YES	11.1.1.1.0	Reserved.
DEFINITION	VARCHAR2(4000)	YES	11.1.1.1.0	Policy definition in XML.
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved.

ALERT_DEFINITION

Monitoring alert policy definition.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
ARTREGIONI D	NUMBER	YES		11.1.1.1.0	ART Region ID
NAME	VARCHAR2(255)	NO	UNIQUE	11.1.1.1.0	Alert definition name
STATUS	VARCHAR2(31)	NO		11.1.1.1.0	Status: • enabled • disabled
SEVERITY	VARCHAR2(31)	NO		11.1.1.1.0	Alert definition severity: • information • warn • critical • fatal

TYPE	VARCHAR2(255)	NO	11.1.1.1.0	Alert definition type: callpath svc xatran gwtdomain bridge gwws arttran arttcp jesjob jesmetrics
AGENTTYPE	VARCHAR2(255)	YES	11.1.1.1.0	Alert definition agent type: tuxedo art jes
EXPRESSION	VARCHAR2(4000)	YES	11.1.1.1.0	Alert definition expression
EXPRESSION MODE	NUMBER	NO	11.1.1.1.0	Alert definition expression mode: • 0 (Metric Evaluation) • 1 (fml)
ACTION	VARCHAR2(255)	YES	11.1.1.1.0	Alert definition action. Null or a Tuxedo event broker name
RESFILTER	VARCHAR2(4000)	YES	11.1.1.1.0	Alert definition resource filter
RESFILTERM ODE	NUMBER	NO	11.1.1.1.0	Alert definition resource filter mode: • 0 (Selection) • 1 (advance)

TUXEVENTN AME	VARCHAR2(255)	YES	11.1.1.1.0	The event name posted to the Oracle Tuxedo event broker. The event name is the alert name by default; you can also specify it manually.
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved.
INTERVAL	NUMBER	YES	11.1.1.1.0	Alert check interval

ALERT

Alert information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
ALERTDEFI D	NUMBER	YES		11.1.1.1.0	
NAME	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	Alert definition name
DOMAIN	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo domain name
MACHINE	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo machine LMID
TUXGROUP	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo group number
PROCESSNA ME	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo process name
SERVERID	NUMBER	YES		11.1.1.1.0	Tuxedo server ID
PID	NUMBER	YES		11.1.1.1.0	Tuxedo process ID

LOGTIME	TIMESTAMP	NO	11.1.1.1.0	The time an alert occurs.
CLEARTIME	TIMESTAMP	YES	11.1.1.1.0	The time an alert is cleared.
SEVERITY	VARCHAR2(31)	NO	11.1.1.1.0	Alert definition severity: information warn critical fatal
ALERTTYPE	VARCHAR2(31)	NO	11.1.1.1.0	Alert definition type: callpath svc xatran gwtdomain bridge gwws arttran arttcp jesjob jesmetrics system
REASON	VARCHAR2(1023)	YES	11.1.1.1.0	The reason/cause for the alert.
STATUS	VARCHAR2(31)	NO	11.1.1.1.0	The status of an alert: • 0 (new) • 1 (cleared)

TSAMVERSI ON	VARCHAR2(255)	YES	11.1.1.1.0	TSAM Plus agent version:
				• null (11g or above)
				• 1.1 (TSAM 1.1 and 10gR3)
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved.

CALLPATH

Call path master information.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
CORRELATI ONID	VARCHAR2(255)	NO	PK	11.1.1.1.0	
PROCTYPE	NUMBER	YES		11.1.1.0	Tuxedo process type: 0 (NCLIENT) 1 (WCLIENT) 2 (APPSERVER) 3 (GWTDOMAIN) 4 (BRIDGE) 5 (GWWS) 6 (WSH) 7 (JSH) 8 (ISH) 9 (TMQUEUE) 10 (TMQFORWARD)
DOMAIN	VARCHAR2(255)	YES	Indexed	11.1.1.1.0	Tuxedo domain name
MACHINE	VARCHAR2(255)	YES	Indexed	11.1.1.1.0	Tuxedo machine LMID

INITIATOR	VARCHAR2(255)	YES	Indexed	11.1.1.1.0	Initiator process name
SERVICE	VARCHAR2(255)	YES	Indexed	11.1.1.1.0	Tuxedo service
LOGTIME	TIMESTAMP	YES	Indexed	11.1.1.1.0	The time a call path is generated
USERNAME	VARCHAR2(255)	YES		12.1.1.0	Tuxedo user name
CLTADDR	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo client name
TSAMVERSI ON	VARCHAR2(255)	YES		11.1.1.1.0	TSAM agent version: • null (11g or above) • 1.1 (TSAM 1.1
					and 10gR3)
SEGMENTCO UNT	NUMBER	NO		11.1.1.1.0	Segment count
CALLPATTE	VARCHAR2(YES		11.1.1.1.0	Call pattern in XML.
RN	4000)				If the length exceeds 4000, only an MD5 value will be stored here and the actual value should be found in MON_CLOB table.

CALLPATTE RN_DETAILE	VARCHAR2(4000)	YES	11.1.1.1.0	Detailed call pattern in XML.
D				If the length exceeds 4000, only an MD5 value will be stored here and the actual value should be found in MON_CLOB table.
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved.

MON_CPSEGMENT

Call path detail information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
CORRELATI ONID	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	
DOMAIN	VARCHAR2(255)	NO		11.1.1.1.0	Tuxedo domain name
MACHINE	VARCHAR2(255)	NO		11.1.1.1.0	Tuxedo machine LMID
TUXGROUP	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo group number
PROCESSNA ME	VARCHAR2(255)	NO		11.1.1.1.0	Tuxedo server process name
SERVERID	NUMBER	YES		11.1.1.1.0	Tuxedo server ID
PID	NUMBER	NO		11.1.1.1.0	Tuxedo server process ID
USERNAME	VARCHAR2(255)	YES		12.1.1.0	Tuxedo user name

MSGQUEUE D	NUMBER	YES		11.1.1.1.0	Message queue length
	16)				• STMO • ME2NET • NET2ME • ME2Q • Q2ME • ME2QFAIL
MSGSTAGE	VARCHAR2(YES		11.1.1.1.0	Message stage:
MSGSIZE	NUMBER	YES		11.1.1.1.0	Message size
MSGTYPE	VARCHAR2(16)	YES		11.1.1.1.0	Message type: ARPARQ
5171105	NOMBER	115		11.1.1.0	null1
ERRNO STATUS	NUMBER NUMBER	YES YES	Indexed	11.1.1.1.0	tperrno Status:
URCODE	NUMBER	YES	T 1 1	11.1.1.1.0	tpurcode
TOTALTIME	NUMBER	YES	Indexed	11.1.1.1.0	Total time
ELAPSETIME	NUMBER	YES		11.1.1.1.0	Elapse time
USRCPUTIM E	NUMBER	YES		12.1.1.0	User CPU time
SYSCPUTIM E	NUMBER	YES		12.1.1.0	SYS CPU time
CPUTIME	NUMBER	YES		11.1.1.1.0	CPU time
HOSTSVC	VARCHAR2(255)	YES		11.1.1.1.0	Host service
TARGETSVC	VARCHAR2(255)	YES		11.1.1.1.0	Target service
DEPTH	NUMBER	YES		11.1.1.1.0	Call path depth

LOCALGTRI D	VARCHAR2(255)	YES	Indexed	11.1.1.1.0	Local GTRID
MSGID	VARCHAR2(255)	YES		11.1.1.1.0	Message ID
CALLMODE	NUMBER	YES		11.1.1.1.0	Call mode: • 1 (tpacall) • 2 (tpcall) • 3 (tpforward)
CALLFLAG	NUMBER	YES		11.1.1.1.0	Call flag
SVCSEQ	VARCHAR2(1023)	YES		11.1.1.1.0	Service sequence
PSVCSEQ	VARCHAR2(1023)	YES		11.1.1.1.0	Parent service sequence
IPCQID	VARCHAR2(64)	YES		11.1.1.1.0	IPC queue ID
LOGTIME	TIMESTAMP	YES		11.1.1.1.0	Log time
STARTTIME	TIMESTAMP	YES		11.1.1.1.0	Call start time
LASTTIME	TIMESTAMP	YES		11.1.1.1.0	Call last time
PROCTYPE	NUMBER	YES		11.1.1.10	Tuxedo Process type: 0 (NCLIENT) 1 (WCLIENT) 2 (APPSERVER) 3 (GWTDOMAIN) 4 (BRIDGE) 5 (GWWS) 6 (WSH) 7 (JSH) 8 (ISH) 9 (TMQUEUE) 10 (TMQFORWARD)

TSAMVERSI ON	VARCHAR2(255)	YES	11.1.1.1.0	TSAM agent version: • null (11g or above) • 1.1 (TSAM 1.1 and 10gR3)
CLTADDR	VARCHAR2(255)	YES	11.1.1.1.0	Tuxedo client address
LDOM	VARCHAR2(255)	YES	11.1.1.1.0	Ldom name: Ldom ID
RDOM	VARCHAR2(255)	YES	11.1.1.1.0	Rdom name: Rdom ID
MSGCVTTIM E	NUMBER	YES	11.1.1.1.0	Message convert time
ATTRIBUTES	VARCHAR2(4000)	YES	11.1.1.1.0	Reserved.
EXTTYPE	VARCHAR2(255)	YES	12.1.1.0	Call path extended type
EXTSUBTYP E	VARCHAR2(255)	YES	12.1.1.0	Call path extended subtype
EXTSEQ	NUMBER	YES	12.1.1.0	Call path extended sequence
EXTCORRSE Q	NUMBER	YES	12.1.1.0	Call path extended parent sequence

MON_XA

XA transaction information.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
LOCALGTRI D	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	Local GTRID

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DOMAIN	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo domain name
MACHINE	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo machine LMID
TUXGROUP	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo group number
PROCESSNA ME	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo server process name
SERVERID	NUMBER	YES		11.1.1.1.0	Tuxedo server ID
PID	NUMBER	YES		11.1.1.1.0	Tuxedo process ID
PROCTYPE	NUMBER	YES		11.1.1.1.0	Tuxedo process type: • 0 (NCLIENT) • 1 (WCLIENT) • 2 (APPSERVER) • 3 (GWTDOMAIN) • 4 (BRIDGE) • 5 (GWWS) • 6 (WSH) • 7 (JSH) • 8 (ISH) • 9 (TMQUEUE) • 10 (TMQFORWARD)
LOGTIME	TIMESTAMP	YES	Indexed	11.1.1.1.0	Log time
XACODE	NUMBER	YES		11.1.1.1.0	The XA Routine return code
REMOTEGTR ID	VARCHAR2(255)	YES		11.1.1.1.0	Remote GTRID
RMID	NUMBER	YES		11.1.1.1.0	RMID

XANAME	VARCHAR2(YES	11.1.1.1.0	The transaction
	255)			routine name:
				tpbegin
				 tpcommit
				 tprollback
				 tpabort
				xa_commit
				• xa_start
				 xa_prepare
				 xa_rollback
				xa_end
				 tms_msg_xxx (forGWTDOMAIN XA transaction activities)
				 xa_msg_xxx (forGWTDOMAIN XA transaction activities)
LDOM	VARCHAR2(255)	YES	11.1.1.1.0	Ldom name: Ldom ID
RDOM	VARCHAR2(255)	YES	11.1.1.1.0	Rdom name: Rdom ID
MSGCVTTIM E	NUMBER	YES	11.1.1.1.0	Message convert time
EXECTIME	NUMBER	YES	11.1.1.1.0	Transaction execute time
FLAGS	NUMBER	YES	11.1.1.1.0	The XA Routine call flag
TIMEOUT	NUMBER	YES	11.1.1.1.0	The XA Routine timeout

TSAMVERSI ON	VARCHAR2(255)	YES	11.1.1.1.0	TSAM agent version: • null (11g or above) • 1.1 (TSAM 1.1 and 10gR3)
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved.

MON_SERVICE

Tuxedo service call information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
SVCNAME	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	Service name
DOMAIN	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	Tuxedo domain name
MACHINE	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	Tuxedo machine LMID
TUXGROUP	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	Tuxedo group number
PROCESSNA ME	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo server process name
SERVERID	NUMBER	YES		11.1.1.1.0	Tuxedo server ID
PID	NUMBER	YES		11.1.1.1.0	Tuxedo process ID
THREADID	NUMBER	YES		11.1.1.1.0	Tuxedo thread ID

PROCTYPE	NUMBER	YES		11.1.1.10	Tuxedo Process type: 0 (NCLIENT) 1 (WCLIENT) 2 (APPSERVER) 3 (GWTDOMAIN) 4 (BRIDGE) 5 (GWWS) 6 (WSH) 7 (JSH) 8 (ISH) 9 (TMQUEUE) 10 (TMQFORWARD)
USERNAME	VARCHAR2(255)	YES	Indexed	12.1.1.0	Tuxedo user name
LOGTIME	TIMESTAMP	NO	Indexed	11.1.1.1.0	Log time
MSGSIZE	NUMBER	YES		11.1.1.1.0	Message size
MSGTYPE	VARCHAR2(6)	YES		11.1.1.1.0	Message type: ARP ARQ
MSGQUEUE D	NUMBER	YES		11.1.1.1.0	Message queue length
MSGWAITTI ME	NUMBER	YES		11.1.1.1.0	Message wait time
STATUS	VARCHAR2(31)	YES		11.1.1.1.0	Reserved
ERRNO	NUMBER	YES		11.1.1.1.0	tperrno
URCODE	NUMBER	YES		11.1.1.1.0	tpurcode
EXECTIME	NUMBER	YES		11.1.1.1.0	Service execute time
CPUTIME	NUMBER	YES		11.1.1.1.0	Service CPU time

SYSCPUTIM E	NUMBER	YES	12.1.1.0	Service SYS CPU time
USRCPUTIM E	NUMBER	YES	12.1.1.0	Service USER CPU time
TSAMVERSI ON	VARCHAR2(255)	YES	11.1.1.1.0	TSAM agent version: • null (11g or above) • 1.1 (TSAM 1.1 and 10gR3)
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved

MON_GWTDOMAIN

Tuxedo /T domain gateway performance statistics master information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
DOMAIN	VARCHAR2(255)	NO		11.1.1.1.0	Tuxedo domain name
MACHINE	VARCHAR2(255)	NO		11.1.1.1.0	Tuxedo machine LMID
TUXGROUP	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo group number
PROCESSNA ME	VARCHAR2(255)	NO		11.1.1.1.0	Tuxedo server process name
SERVERID	NUMBER	YES		11.1.1.1.0	Tuxedo server ID
PID	NUMBER	NO		11.1.1.1.0	Tuxedo process ID
LDOM	VARCHAR2(255)	YES	Indexed	11.1.1.1.0	Ldom name: Ldom ID
LOGTIME	TIMESTAMP	NO	Indexed	11.1.1.1.0	Log time

LINKNUMBE R	NUMBER	YES	11.1.1.1.0	Link number
MSGQUEUE D	NUMBER	YES	11.1.1.1.0	Message queue length
REQUESTQU EUED	NUMBER	YES	11.1.1.1.0	Reserved
WORKLOAD	NUMBER	YES	11.1.1.1.0	Reserved
PROCTYPE	NUMBER	YES	11.1.1.1.0	Tuxedo process type: 3 (GWTDOMAIN)
TSAMVERSI ON	VARCHAR2(255)	YES	11.1.1.1.0	TSAM agent version: • null (11g or above) • 1.1 (TSAM 1.1 and 10gR3)
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved.

MON_GWTLINK

Tuxedo /T domain gateway performance statistics detail information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
MON_GWTD OMAINID	NUMBER	NO	FK to MON_GWTD OMAIN (ID)	11.1.1.1.0	
LINKADDRE SS	VARCHAR2(255)	YES		11.1.1.1.0	Link address
LOGTIME	TIMESTAMP	NO		12.1.1.0	Log time

LINKSTATU S	NUMBER	YES	11.1.1.1.0	Link status: • 0 (UP) • -1 (DOWN) • 1 (INIT)
PENDNUMB ER	NUMBER	YES	11.1.1.1.0	Network Pending Number
PENDBYTES	NUMBER	YES	11.1.1.1.0	Network Pending Bytes
ACCNUMBE R	NUMBER	YES	11.1.1.1.0	Network Message Number
ACCBYTES	NUMBER	YES	11.1.1.1.0	Network Message Bytes
WAITREPLY NUMBER	NUMBER	YES	11.1.1.1.0	Network Outstanding Requests
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved.

MON_BRIDGE

Tuxedo bridge gateway performance statistics master information.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
DOMAIN	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	Tuxedo domain name
MACHINE	VARCHAR2(255)	NO		11.1.1.1.0	Tuxedo machine LMID
TUXGROUP	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo group number
PROCESSNA ME	VARCHAR2(255)	NO		11.1.1.1.0	Tuxedo server process name

SERVERID	NUMBER	YES		11.1.1.1.0	Tuxedo server ID
PID	NUMBER	NO		11.1.1.1.0	Tuxedo process ID
LOGTIME	TIMESTAMP	NO	Indexed	11.1.1.1.0	Log time
LINKNUMBE R	NUMBER	YES		11.1.1.1.0	Link number
MSGQUEUE D	NUMBER	YES		11.1.1.1.0	Message queue length
REQUESTQU EUED	NUMBER	YES		11.1.1.1.0	Reserved
WORKLOAD	NUMBER	YES		11.1.1.1.0	Reserved
PROCTYPE	NUMBER	YES		11.1.1.1.0	
TSAMVERSI ON	VARCHAR2(255)	YES		11.1.1.1.0	TSAM agent version: • null (11g or above) • 1.1 (TSAM 1.1 and 10gR3)
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved

MON_BRGLINK

Tuxedo /T domain gateway performance statistics detail information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
MON_BRIDG EID	NUMBER	NO	FK to MON_BRIDG E (ID)	11.1.1.1.0	
LINKADDRE SS	VARCHAR2(255)	YES		11.1.1.1.0	Link address
LOGTIME	TIMESTAMP	NO		12.1.1.0	Log time

LINKSTATU S	NUMBER	YES	11.1.1.1.0	Link status: • 0 (UP) • -1 (DOWN) • 1 (INIT)
PENDNUMB ER	NUMBER	YES	11.1.1.1.0	Network Pending Number
PENDBYTES	NUMBER	YES	11.1.1.1.0	Network Pending Bytes
ACCNUMBE R	NUMBER	YES	11.1.1.1.0	Network Message Number
ACCBYTES	NUMBER	YES	11.1.1.1.0	Network Message Bytes
TSAMVERSI ON	VARCHAR2(255)	YES	11.1.1.1.0	TSAM agent version: • null (11g or above) • 1.1 (TSAM 1.1 and 10gR3)
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	

MON_GWWS

Tuxedo GWWS performance statistics information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
ACTCLIENT NUM	NUMBER	YES		11.1.1.1.0	Active client number
ACTTHREAD NUM	NUMBER	YES		11.1.1.1.0	Active Thread Number
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved

AVGINTIME	NUMBER	YES	11.1.1.1.0	Average Inbound Process Time
AVGOUTTIM E	NUMBER	YES	11.1.1.1.0	Average Outbound Process Time
DOMAIN	VARCHAR2(255)	NO	11.1.1.1.0	Tuxedo domain name
TUXGROUP	VARCHAR2(255)	YES	11.1.1.1.0	Tuxedo group number
GWWSID	VARCHAR2(255)	NO	11.1.1.1.0	GWWS ID
INBOUNDPE ND	NUMBER	YES	11.1.1.1.0	Inbound Pending Request
OUTBOUND PEND	NUMBER	YES	11.1.1.1.0	Outbound Pending Request
INOWFAILN UM	NUMBER	YES	11.1.1.1.0	Inbound One-Way Failure Number
INOWSUCCN UM	NUMBER	YES	11.1.1.1.0	Inbound One-Way Success Number
INRPCFAILN UM	NUMBER	YES	11.1.1.1.0	Inbound RPC Failure Number
INRPCSUCC NUM	NUMBER	YES	11.1.1.1.0	Inbound RPC Success Number
MACHINE	VARCHAR2(255)	NO	11.1.1.1.0	Tuxedo machine LMID
OUTOWFAIL NUM	NUMBER	YES	11.1.1.1.0	Outbound One-Way Failure Number
OUTOWSUC CNUM	NUMBER	YES	11.1.1.1.0	Outbound One-Way Success Number
OUTRPCFAI LNUM	NUMBER	YES	11.1.1.1.0	Outbound RPC Failure Number

OUTRPCSUC CNUM	NUMBER	YES	11.1.1.1.0	Outbound RPC Success Number
PID	NUMBER	NO	11.1.1.1.0	Tuxedo process ID
PROCESSNA ME	VARCHAR2(255)	NO	11.1.1.1.0	Tuxedo process name
PROCTYPE	NUMBER	YES	11.1.1.1.0	Tuxedo process type: 5 (GWWS)
SERVERID	NUMBER	YES	11.1.1.1.0	Tuxedo server ID
LOGTIME	TIMESTAMP	YES	11.1.1.1.0	Log time
TSAMVERSI ON	VARCHAR2(255)	YES	11.1.1.1.0	TSAM agent version: • null (11g or above) • 1.1 (TSAM 1.1 and 10gR3)

MON_ARTTCP

Tuxedo application runtime for CICS TCP listener performance statistics information.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
ATTRIBUTES	VARCHAR2(1023)			11.1.1.1.0	Reserved
DOMAIN	VARCHAR2(255)	NO		11.1.1.1.0	Tuxedo domain name
TUXGROUP	VARCHAR2(255)	YES		11.1.1.1.0	Tuxedo group number
TRANFAILN UM	NUMBER	YES		11.1.1.1.0	Failed Transaction Number
TRANSUCCN UM	NUMBER	YES		11.1.1.1.0	Successful Transaction Number

MACHINE	VARCHAR2(255)	NO	11.1.1.1.0	Tuxedo machine LMID
SESSIONNU M	NUMBER	YES	11.1.1.1.0	Session Number
PID	NUMBER	NO	11.1.1.1.0	Tuxedo process ID
PROCESSNA ME	VARCHAR2(255)	NO	11.1.1.1.0	Tuxedo process name
PROCTYPE	SMALLINT	YES	11.1.1.1.0	Tuxedo process type: 2 (APPSERVER)
SERVERID	NUMBER	YES	11.1.1.1.0	Tuxedo server ID
LOGTIME	TIMESTAMP	YES	11.1.1.1.0	Log time
TSAMVERSI ON	VARCHAR2(255)	YES	11.1.1.1.0	TSAM agent version: null (11g or above)

MON_JESJOB

Tuxedo application runtime for Batch job information.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.2.0	Job ID
DOMAIN	VARCHAR2(255)	NO	PK	11.1.1.2.0	Tuxedo domain name
MACHINE	VARCHAR2(255)	YES		11.1.1.2.0	Tuxedo machine LMID
NAME	VARCHAR2(32)	YES	Indexed	11.1.1.2.0	Job name
TYPRUN	VARCHAR2(7)	YES		11.1.1.2.0	Job typrun
PRIORITY	NUMBER	YES	Indexed	11.1.1.2.0	Job priority

OWNER	VARCHAR2(32)	YES	Indexed	11.1.1.2.0	Job owner
EXECMAC	VARCHAR2(32)	YES		11.1.1.2.0	Job executing machine
STATUS	VARCHAR2(12)	YES		11.1.1.2.0	Job status: CONVING WAITING EXECUTING DONE HOLD_CONVING HOLD_WAITING HOLD_DELAY FAIL DISCARD
JOBCLASS	CHAR(1)	YES	Indexed	11.1.1.2.0	Job class. Value may be [A-Z], [0-9]
RUNNINGST EP	VARCHAR2(32)	YES		11.1.1.2.0	Job running step
EXECSTATU S	VARCHAR2(32)	YES		11.1.1.2.0	Job executing status
SUBMITTIM E	NUMBER	YES		11.1.1.2.0	Submit time
WAITINGTI ME	NUMBER	YES		11.1.1.2.0	Job waiting time
EXECTIME	NUMBER	YES		11.1.1.2.0	Job execution time
ENDTIME	NUMBER	YES		11.1.1.2.0	Job end time
PURGETIME	NUMBER	YES		11.1.1.2.0	Job purge time
LOGTIME	TIMESTAMP	YES	Indexed	11.1.1.2.0	Log time
USRCPU	NUMBER	YES		11.1.1.2.0	Job user CPU time
SYSCPU	NUMBER	YES		11.1.1.2.0	Job system CPU time

INITIATORPI D	NUMBER	YES	11.1.1.2.0	Job initiator PID
ATTRIBUTES	VARCHAR2(1023)	YES	12.1.1.0	Reserved

MON_CLOB

Global CLOB information table.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	12.1.1.0	
MD5	VARCHAR2(40)	NO	Indexed	12.1.1.0	Call pattern content MD5
CONTENT	CLOB	NO		12.1.1.0	Call pattern content
ATTRIBUTES	VARCHAR2(1023)	YES		12.1.1.0	Reserved

TSAM Plus Management Information

This section contains the following:

- GLOBALCONFIG
- ROLES
- USERS

GLOBALCONFIG

TSAM Plus global parameters information.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
PARAM	VARCHAR2(255)	NO	PK	11.1.1.1.0	Parameter name

VALUE	VARCHAR2(255)	YES	11.1.1.1.0	Parameter value
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved

ROLES

TSAM Plus role information.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
NAME	VARCHAR2(255)	NO	PK	11.1.1.2.0	Role name
ID	NUMBER	NO		11.1.1.2.0	Role ID
DESCRIPTIO N	VARCHAR2(255)	YES	Unique	11.1.1.2.0	Role description
DEFINITION	VARCHAR2(4000)	YES		11.1.1.2.0	Role definition
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.2.0	Reserved

USERS

TSAM Plus user information.

COLUMN	ТҮРЕ	Nullable	Constraints	Since Version	Note
NAME	VARCHAR2(255)	NO	PK	11.1.1.1.0	User login name
ROLENAMES	VARCHAR2(255)	NO		11.1.1.2.0	Role names the user belongs to
PASSWORD	VARCHAR2(255)	NO		11.1.1.1.0	User password

FULLNAME	VARCHAR2(255)	YES	Indexed	11.1.1.1.0	User full name
DESCRIPTIO N	VARCHAR2(255)	YES		11.1.1.1.0	User description
MODIFIEDTI ME	TIMESTAMP	YES		11.1.1.1.0	User modification time
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved