

# **Oracle® Tuxedo System and Applications Monitor Plus**

Reference Guide

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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
<a href="#">LMS (Local Monitor Server)</a>	The Oracle TSAM Plus Agent Local Monitor Server

## LMS (Local Monitor Server)

### Name

LMS—The Oracle TSAM Plus Agent Local Monitor Server

### Synopsis

```
LMS SRVGRP="identifier" SRVID="number" [other_parms]
CLOPT= "-A -- -l
tsam-manager-dataserver-url[,tsam-manager-backupdataserver-url,...] [;tsam-ma
nager-dataserver-url, tsam-manager-dataserver-url,...] [-t
heartbeat-interval] [-n fetch_coll_capacity] [-m metrics-shm-size] [-T
data-thread-number]"
```

## 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 specifies the Oracle TSAM Plus manager data servers addresses. You can set one or multiple addresses. The host address and port number are set based on your Oracle TSAM Plus manager installation. The format is:

```
host:port/tsam, host:port/tsam, ...[; host:port/tsam, 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.

TSAM Plus server addresses can consist of two parts using semicolon (;): the first active data servers part and the second standby data servers part. Each part contains multiple TSAM Plus server addresses separated by comma (,).

LMS logs on with the TSAM Plus manager specified by the first address. If failed to connect, LMS tries the next server. If no active data server is available, the standby data Server is used. At most 126 servers can be configured.

If a connected server is failed for health checking, LMS reconnects the servers from first to last.

When the connection to a data server is broken, the thread reconnects the data servers from first to last to get another active data server which connection number does not meet the maximum value. If there is no server available, the thread keeps reconnecting the data server one by one with an incremental sleep interval specified by the `-r` option.

**Note:** Configuring multiple TSAM Plus manager addresses has been supported since TSAM Plus 12.1.3.

`-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.

`-t`

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.

`-T`

LMS creates multiple threads to fetch data from Ring Buffer and sends the data to Manager Server. This option specifies the total number of threads the data servers can be connected. The threads number is distributed to each active data server evenly. The maximum value is 1023.

## Example(s)

[Listing 1-1](#) shows the LMS in UBBCONFIG.

### Listing 1-1 LMS in UBBCONFIG

---

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

---

# 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 field 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
- ARTTSQ
```

- A multithread server (built with “-t” option) reports `no TIME`, `SYSTIME` or `USRTIME`.
- 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|HOURL|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.
- **APPFALL:** 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 `simpserve_acct.mmddyy`.

```
>cat simpserve_acct.022102
```

```
# SVC  UID STIME      ETIME  SYSTIME      USRTIME
TOUPPER      John  1789249093/34452  1789249093/65389 100      50
.....
```

```
>accrpt  account3. 022102
```

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

## Sample 3

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

#STIME	ETIME	SVC	TIMES	ELPTIME	TIME	SIZE
00:00:00	01:00:00	TOLOWER	10	100	20	100
01:00:00	02:00:00	TOLOWER	15	200	30	500
00:00:00	01:00:00	TOUPPER	10	100	20	100
01:00:00	02:00:00	TOUPPER	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 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 <code>false</code> .
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: <ul style="list-style-type: none"> <li>• ACT: Active</li> <li>• INA: Inactive</li> <li>• INV: Invalid, the node may not exist anymore.</li> </ul>
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		11.1.1.1.0	The status of the Tuxedo machine: <ul style="list-style-type: none"> <li>• ACT: Active</li> <li>• INA: Inactive</li> <li>• INV: Invalid, the node may not exist anymore.</li> </ul>
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.

SERVERPORT	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	TYPE	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: <ul style="list-style-type: none"> <li>• ACT: Active</li> <li>• INA: Inactive</li> <li>• INV: Invalid, the node may not exist anymore.</li> </ul>
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved

## SERVER

Tuxedo server information.

COLUMN	TYPE	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: <ul style="list-style-type: none"> <li>• ACT: Active</li> <li>• INA: Inactive</li> <li>• INV: Invalid, the node may not exist anymore.</li> </ul>
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: <ul style="list-style-type: none"> <li>• ACT: Active</li> <li>• INA: Inactive</li> <li>• INV: Invalid, the node may not exist anymore.</li> </ul>
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved.

## LDOM

Tuxedo local domain gateway information.

COLUMN	TYPE	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.
GROUPNAME	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	TYPE	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: <ul style="list-style-type: none"> <li>• Active</li> <li>• SUSPended</li> <li>• INItializing</li> <li>• INActive</li> <li>• UNKnown</li> </ul>
TYPE	VARCHAR2(255)	YES		11.1.1.1.0	The type of domain: TDOMAIN
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved.

## ARTREGION

Tuxedo application runtime for CICS region information.

COLUMN	TYPE	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: <ul style="list-style-type: none"><li>• ACT: Active</li><li>• INA: Inactive</li><li>• INV: Invalid, the node may not exist anymore.</li></ul>
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 sc
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	

ARTREGIONID	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	
ARTREGIONID	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: <ul style="list-style-type: none"> <li>• ACT: Active</li> <li>• INA: Inactive</li> <li>• INV: Invalid, the node may not exist anymore.</li> </ul>
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: <ul style="list-style-type: none"><li>• ACT: Active</li><li>• INA: Inactive</li><li>• INV: Invalid, the node may not exist anymore.</li></ul>
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](#)
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- [MON\\_SERVICE](#)
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- [MON\\_GWWS](#)
- [MON\\_ARTTCP](#)
- [MON\\_JESJOB](#)
- [MON\\_CLOB](#)

## POLICY

Monitoring policy 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	Policy name.
STATUS	VARCHAR2( 31)	NO		11.1.1.1.0	Policy status: <ul style="list-style-type: none"> <li>• enabled</li> <li>• disabled</li> </ul>
AGENTTYPE	VARCHAR2( 255)	YES		11.1.1.1.0	Policy type: <ul style="list-style-type: none"> <li>• tuxedo: Tuxedo monitoring policy.</li> <li>• art: Tuxedo application runtime for CICS monitoring policy.</li> </ul>

CREATEDTIME	TIMESTAMP	NO		11.1.1.1.0	Create time
MODIFIEDTIME	TIMESTAMP	YES		11.1.1.1.0	Modify time
TSAMVERSION	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	
ARTREGIONID	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: <ul style="list-style-type: none"> <li>enabled</li> <li>disabled</li> </ul>
SEVERITY	VARCHAR2(31)	NO		11.1.1.1.0	Alert definition severity: <ul style="list-style-type: none"> <li>information</li> <li>warn</li> <li>critical</li> <li>fatal</li> </ul>

TYPE	VARCHAR2(255)	NO	11.1.1.1.0	Alert definition type: <ul style="list-style-type: none"> <li>• callpath</li> <li>• svc</li> <li>• xatran</li> <li>• gwtdomain</li> <li>• bridge</li> <li>• gwws</li> <li>• arttran</li> <li>• arttcp</li> <li>• jesjob</li> <li>• jesmetrics</li> </ul>
AGENTTYPE	VARCHAR2(255)	YES	11.1.1.1.0	Alert definition agent type: <ul style="list-style-type: none"> <li>• tuxedo</li> <li>• art</li> <li>• jes</li> </ul>
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: <ul style="list-style-type: none"> <li>• 0 (Metric Evaluation)</li> <li>• 1 (fml)</li> </ul>
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
RESFILTER MODE	NUMBER	NO	11.1.1.1.0	Alert definition resource filter mode: <ul style="list-style-type: none"> <li>• 0 (Selection)</li> <li>• 1 (advance)</li> </ul>

TUXEVENTNAME	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	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
ALERTDEFID	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
PROCESSNAME	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: <ul style="list-style-type: none"> <li>• information</li> <li>• warn</li> <li>• critical</li> <li>• fatal</li> </ul>
ALERTTYPE	VARCHAR2(31)	NO	11.1.1.1.0	Alert definition type: <ul style="list-style-type: none"> <li>• callpath</li> <li>• svc</li> <li>• xatran</li> <li>• gwt domain</li> <li>• bridge</li> <li>• gwws</li> <li>• arttran</li> <li>• arttcp</li> <li>• jesjob</li> <li>• jesmetrics</li> <li>• system</li> </ul>
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: <ul style="list-style-type: none"> <li>• 0 (new)</li> <li>• 1 (cleared)</li> </ul>

TSAMVERSION	VARCHAR2(255)	YES	11.1.1.1.0	TSAM Plus agent version: <ul style="list-style-type: none"> <li>• null (11g or above)</li> <li>• 1.1 (TSAM 1.1 and 10gR3)</li> </ul>
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved.

## CALLPATH

Call path master information.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
CORRELATIONID	VARCHAR2(255)	NO	PK	11.1.1.1.0	
PROCTYPE	NUMBER	YES		11.1.1.1.0	Tuxedo process type: <ul style="list-style-type: none"> <li>• 0 (NCLIENT)</li> <li>• 1 (WCLIENT)</li> <li>• 2 (APPSERVER)</li> <li>• 3 (GWTDOMAIN)</li> <li>• 4 (BRIDGE)</li> <li>• 5 (GWWS)</li> <li>• 6 (WSH)</li> <li>• 7 (JSH)</li> <li>• 8 (ISH)</li> <li>• 9 (TMQUEUE)</li> <li>• 10 (TMQFORWARD)</li> </ul>
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
TSAMVERSION	VARCHAR2(255)	YES		11.1.1.1.0	TSAM agent version: <ul style="list-style-type: none"> <li>• null (11g or above)</li> <li>• 1.1 (TSAM 1.1 and 10gR3)</li> </ul>
SEGMENTCOUNT	NUMBER	NO		11.1.1.1.0	Segment count
CALLPATTERN	VARCHAR2(4000)	YES		11.1.1.1.0	Call pattern in XML. 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_DET AILED	VARCHAR2( 4000)	YES		11.1.1.1.0	Detailed call pattern in XML.  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	TYPE	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

DEPTH	NUMBER	YES		11.1.1.1.0	Call path depth
TARGETSVC	VARCHAR2(255)	YES		11.1.1.1.0	Target service
HOSTSVC	VARCHAR2(255)	YES		11.1.1.1.0	Host service
CPUTIME	NUMBER	YES		11.1.1.1.0	CPU time
SYSCPUTIME	NUMBER	YES		12.1.1.0	SYS CPU time
USRCPUTIME	NUMBER	YES		12.1.1.0	User CPU time
ELAPSETIME	NUMBER	YES		11.1.1.1.0	Elapse time
TOTALTIME	NUMBER	YES	Indexed	11.1.1.1.0	Total time
URCODE	NUMBER	YES		11.1.1.1.0	tpurcode
ERRNO	NUMBER	YES	Indexed	11.1.1.1.0	tperrno
STATUS	NUMBER	YES		11.1.1.1.0	Status: <ul style="list-style-type: none"> <li>• null</li> <li>• 1</li> </ul>
MSGTYPE	VARCHAR2(16)	YES		11.1.1.1.0	Message type: <ul style="list-style-type: none"> <li>• ARP</li> <li>• ARQ</li> </ul>
MSGSIZE	NUMBER	YES		11.1.1.1.0	Message size
MSGSTAGE	VARCHAR2(16)	YES		11.1.1.1.0	Message stage: <ul style="list-style-type: none"> <li>• STMO</li> <li>• ME2NET</li> <li>• NET2ME</li> <li>• ME2Q</li> <li>• Q2ME</li> <li>• ME2QFAIL</li> </ul>
MSGQUEUE D	NUMBER	YES		11.1.1.1.0	Message queue length

LOCALGTRID	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: <ul style="list-style-type: none"> <li>• 1 (tpacall)</li> <li>• 2 (tpcall)</li> <li>• 3 (tpforward)</li> </ul>
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		11.1.1.1.0	Tuxedo Process type: <ul style="list-style-type: none"> <li>• 0 (NCLIENT)</li> <li>• 1 (WCLIENT)</li> <li>• 2 (APPSERVER)</li> <li>• 3 (GWTDOMAIN)</li> <li>• 4 (BRIDGE)</li> <li>• 5 (GWWS)</li> <li>• 6 (WSH)</li> <li>• 7 (JSH)</li> <li>• 8 (ISH)</li> <li>• 9 (TMQUEUE)</li> <li>• 10 (TMQFORWARD)</li> </ul>

TSAMVERSION	VARCHAR2(255)	YES	11.1.1.1.0	TSAM agent version: <ul style="list-style-type: none"> <li>• null (11g or above)</li> <li>• 1.1 (TSAM 1.1 and 10gR3)</li> </ul>
CLTADDR	VARCHAR2(255)	YES	11.1.1.1.0	Tuxedo client address
LDM	VARCHAR2(255)	YES	11.1.1.1.0	Ldom name: Ldom ID
RDM	VARCHAR2(255)	YES	11.1.1.1.0	Rdom name: Rdom ID
MSGCVTIME	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
EXTSUBTYPE	VARCHAR2(255)	YES	12.1.1.0	Call path extended subtype
EXTSEQ	NUMBER	YES	12.1.1.0	Call path extended sequence
EXTCORSEQ	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	
LOCALGTRID	VARCHAR2(255)	NO	Indexed	11.1.1.1.0	Local GTRID

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
PROCESSNAME	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: <ul style="list-style-type: none"> <li>• 0 (NCLIENT)</li> <li>• 1 (WCLIENT)</li> <li>• 2 (APPSERVER)</li> <li>• 3 (GWTDOMAIN)</li> <li>• 4 (BRIDGE)</li> <li>• 5 (GWWS)</li> <li>• 6 (WSH)</li> <li>• 7 (JSH)</li> <li>• 8 (ISH)</li> <li>• 9 (TMQUEUE)</li> <li>• 10 (TMQFORWARD)</li> </ul>
LOGTIME	TIMESTAMP	YES	Indexed	11.1.1.1.0	Log time
XACODE	NUMBER	YES		11.1.1.1.0	The XA Routine return code
REMOTEGTRID	VARCHAR2(255)	YES		11.1.1.1.0	Remote GTRID
RMID	NUMBER	YES		11.1.1.1.0	RMID

XANAME	VARCHAR2(255)	YES	11.1.1.1.0	The transaction routine name: <ul style="list-style-type: none"> <li>• tpbegin</li> <li>• tpcommit</li> <li>• tprolback</li> <li>• tpabort</li> <li>• xa_commit</li> <li>• xa_start</li> <li>• xa_prepare</li> <li>• xa_rollback</li> <li>• xa_end</li> <li>• tms_msg_xxx (forGWTDOMAIN XA transaction activities)</li> <li>• xa_msg_xxx (forGWTDOMAIN XA transaction activities)</li> </ul>
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
MSGCVTTIME	NUMBER	YES	11.1.1.1.0	Message convert time
EXEETIME	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

TSAMVERSION	VARCHAR2(255)	YES		11.1.1.1.0	TSAM agent version: <ul style="list-style-type: none"> <li>• null (11g or above)</li> <li>• 1.1 (TSAM 1.1 and 10gR3)</li> </ul>
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved.

## MON\_SERVICE

Tuxedo service call information.

COLUMN	TYPE	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
PROCESSNAME	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		11.1.1.1.0	Tuxedo Process type: <ul style="list-style-type: none"> <li>• 0 (NCLIENT)</li> <li>• 1 (WCLIENT)</li> <li>• 2 (APPSERVER)</li> <li>• 3 (GWTDOMAIN)</li> <li>• 4 (BRIDGE)</li> <li>• 5 (GWWS)</li> <li>• 6 (WSH)</li> <li>• 7 (JSH)</li> <li>• 8 (ISH)</li> <li>• 9 (TMQUEUE)</li> <li>• 10 (TMQFORWARD)</li> </ul>
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: <ul style="list-style-type: none"> <li>• ARP</li> <li>• ARQ</li> </ul>
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
EXEETIME	NUMBER	YES		11.1.1.1.0	Service execute time
CPUTIME	NUMBER	YES		11.1.1.1.0	Service CPU time

SYSCPUTIME	NUMBER	YES	12.1.1.0	Service SYS CPU time
USRCPUTIME	NUMBER	YES	12.1.1.0	Service USER CPU time
TSAMVERSION	VARCHAR2(255)	YES	11.1.1.1.0	TSAM agent version: <ul style="list-style-type: none"> <li>• null (11g or above)</li> <li>• 1.1 (TSAM 1.1 and 10gR3)</li> </ul>
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved

## MON\_GWTDOMAIN

Tuxedo /T domain 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		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
PROCESSNAME	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

LINKNUMBER	NUMBER	YES	11.1.1.1.0	Link number
MSGQUEUE D	NUMBER	YES	11.1.1.1.0	Message queue length
REQUESTQUEUED	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)
TSAMVERSION	VARCHAR2(255)	YES	11.1.1.1.0	TSAM agent version: <ul style="list-style-type: none"> <li>• null (11g or above)</li> <li>• 1.1 (TSAM 1.1 and 10gR3)</li> </ul>
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	Reserved.

## MON\_GWTLINK

Tuxedo /T domain gateway performance statistics detail information.

COLUMN	TYPE	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	
LINKADDRESS	VARCHAR2(255)	YES		11.1.1.1.0	Link address
LOGTIME	TIMESTAMP	NO		12.1.1.0	Log time

LINKSTATUS	NUMBER	YES	11.1.1.1.0	Link status: <ul style="list-style-type: none"> <li>• 0 (UP)</li> <li>• -1 (DOWN)</li> <li>• 1 (INIT)</li> </ul>
PENDNUMBER	NUMBER	YES	11.1.1.1.0	Network Pending Number
PENDBYTES	NUMBER	YES	11.1.1.1.0	Network Pending Bytes
ACCNUMBER	NUMBER	YES	11.1.1.1.0	Network Message Number
ACCBYTES	NUMBER	YES	11.1.1.1.0	Network Message Bytes
WAITREPLYNUMBER	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
PROCESSNAME	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
LINKNUMBER	NUMBER	YES		11.1.1.1.0	Link number
MSGQUEUE D	NUMBER	YES		11.1.1.1.0	Message queue length
REQUESTQUEUED	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	
TSAMVERSION	VARCHAR2(255)	YES		11.1.1.1.0	TSAM agent version: <ul style="list-style-type: none"> <li>• null (11g or above)</li> <li>• 1.1 (TSAM 1.1 and 10gR3)</li> </ul>
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved

## MON\_BRGLINK

Tuxedo /T domain gateway performance statistics detail information.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
MON_BRIDGEID	NUMBER	NO	FK to MON_BRIDGE (ID)	11.1.1.1.0	
LINKADDRESS	VARCHAR2(255)	YES		11.1.1.1.0	Link address
LOGTIME	TIMESTAMP	NO		12.1.1.0	Log time

LINKSTATUS	NUMBER	YES	11.1.1.1.0	Link status: <ul style="list-style-type: none"> <li>• 0 (UP)</li> <li>• -1 (DOWN)</li> <li>• 1 (INIT)</li> </ul>
PENDNUMBER	NUMBER	YES	11.1.1.1.0	Network Pending Number
PENDBYTES	NUMBER	YES	11.1.1.1.0	Network Pending Bytes
ACCNUMBER	NUMBER	YES	11.1.1.1.0	Network Message Number
ACCBYTES	NUMBER	YES	11.1.1.1.0	Network Message Bytes
TSAMVERSION	VARCHAR2(255)	YES	11.1.1.1.0	TSAM agent version: <ul style="list-style-type: none"> <li>• null (11g or above)</li> <li>• 1.1 (TSAM 1.1 and 10gR3)</li> </ul>
ATTRIBUTES	VARCHAR2(1023)	YES	11.1.1.1.0	

## MON\_GWWS

Tuxedo GWWS performance statistics information.

COLUMN	TYPE	Nullable	Constraints	Since Version	Note
ID	NUMBER	NO	PK	11.1.1.1.0	
ACTCLIENTNUM	NUMBER	YES		11.1.1.1.0	Active client number
ACTTHREADNUM	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
AVGOUTTIME	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
INBOUNDPEND	NUMBER	YES	11.1.1.1.0	Inbound Pending Request
OUTBOUNDPEND	NUMBER	YES	11.1.1.1.0	Outbound Pending Request
INOWFAILURE	NUMBER	YES	11.1.1.1.0	Inbound One-Way Failure Number
INOWSUCCESS	NUMBER	YES	11.1.1.1.0	Inbound One-Way Success Number
INRPCFAILURE	NUMBER	YES	11.1.1.1.0	Inbound RPC Failure Number
INRPCSUCCESS	NUMBER	YES	11.1.1.1.0	Inbound RPC Success Number
MACHINE	VARCHAR2(255)	NO	11.1.1.1.0	Tuxedo machine LMID
OUTOWFAILURE	NUMBER	YES	11.1.1.1.0	Outbound One-Way Failure Number
OUTOWSUCCESS	NUMBER	YES	11.1.1.1.0	Outbound One-Way Success Number
OUTRPCFAILURE	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: <ul style="list-style-type: none"> <li>• null (11g or above)</li> <li>• 1.1 (TSAM 1.1 and 10gR3)</li> </ul>

## 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
SESSIONNUM	NUMBER	YES	11.1.1.1.0	Session Number
PID	NUMBER	NO	11.1.1.1.0	Tuxedo process ID
PROCESSNAME	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
TSAMVERSION	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: <ul style="list-style-type: none"> <li>• CONVING</li> <li>• WAITING</li> <li>• EXECUTING</li> <li>• DONE</li> <li>• HOLD_CONVING</li> <li>• HOLD_WAITING</li> <li>• HOLD_DELAY</li> <li>• FAIL</li> <li>• DISCARD</li> <li>• INDOUBT</li> </ul>
JOBCLASS	CHAR(1)	YES	Indexed	11.1.1.2.0	Job class. Value may be [A-Z], [0-9]
RUNNINGSTEP	VARCHAR2(32)	YES		11.1.1.2.0	Job running step
EXECSTATUS	VARCHAR2(32)	YES		11.1.1.2.0	Job executing status
SUBMITTIME	NUMBER	YES		11.1.1.2.0	Submit time
WAITINGTIME	NUMBER	YES		11.1.1.2.0	Job waiting time
EXEETIME	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

INITIATORPID	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
DESCRIPTION	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	TYPE	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
DESCRIPTION	VARCHAR2(255)	YES		11.1.1.1.0	User description
MODIFIEDTIME	TIMESTAMP	YES		11.1.1.1.0	User modification time
ATTRIBUTES	VARCHAR2(1023)	YES		11.1.1.1.0	Reserved

