

# **Oracle Tuxedo Application Runtime for IMS**

Release Notes

11g Release 1 (11.1.1.3.0)

December 2011

**ORACLE®**

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Oracle Tuxedo Application Runtime for IMS, 11g Release 1 (11.1.1.3.0)

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This chapter contains the following topics:

- [About This Release](#)
- [Components](#)
- [Interoperability](#)
- [Installation Notes](#)
- [Platform Support](#)
- [Limitations](#)

## About This Release

Oracle Tuxedo Application Runtime for IMS supports IBM IMS applications on Mainframes to be migrated to Oracle Tuxedo. It provides a combination of APIs, tools, and services that allows both online and batch IMS applications to run unchanged, preserving years of IMS business logic and data investment in. It protects application users from change by supporting standard 3270 terminal emulators. It also provides familiar APIs and functions that developers use in their

mainframe applications. The result is the ability to quickly (and with low risk), migrate legacy mainframe applications to open systems running COBOL and C/C++ application servers. This provides substantial cost savings and greater flexibility.

## Components

Oracle Tuxedo Application Runtime for IMS software consists of the following component(s):

- [IMS Runtime](#)

### IMS Runtime

The IMS Runtime component provides:

- a set of DL/I calls that can be called by the COBOL programs migrated from Mainframe.
- a robust session environment based on Oracle Tuxedo to handle concurrent connections from several 3270 terminals
- a robust execution environment to provide OLTP to process the transaction codes received from 3270 terminals via calling the migrated COBOL applications

### IMS Runtime Features

- DL/I Functions for Messaging
  - GU
  - GN
  - ISRT
  - CHNG
  - PURG
- DL/I Functions for System
  - CHKP
  - ROLB
- Region Management
  - Start/Stop regions
  - Control by transaction class

- Transaction Types
  - Non-Response mode transaction code
  - Response mode transaction code
  - Non-conversational transaction code
  - Conversational transaction code
- 3270 Devices
  - TN3270 Interface
  - Basic edit mode
  - MFS mode
- MFSGEN
  - Dynamic and Default attributes
  - Extended attributes
  - Cursor positioning

## Interoperability

Oracle Tuxedo Application Runtime for IMS maintains full interoperability with:

- Oracle Tuxedo 1.1.1.2.0 on all supported platforms
- Oracle Tuxedo 11.1.1.3.0 on Oracle Linux 5.6 (64-bit) on Exalogic 2.0
- Oracle Tuxedo 11.1.1.3.0 on Oracle Linux 5.6 (64-bit) on non Exalogic hardware
- Oracle Tuxedo Application Runtime for Batch 11.1.1.3.0
- Oracle Tuxedo Application Rehosting Workbench 11.1.1.3.0.
- COBOL: MicroFocus COBOL 5.1 and COBOL-IT COBOL 2.9.5.

## Installation Notes

The installation of Oracle Tuxedo Application Runtime for IMS does not require Oracle Tuxedo installation, but Oracle Tuxedo is a prerequisite at runtime.

For more information, see the [Oracle Tuxedo Application Runtime for IMS Installation Guide](#).

## Platform Support

Oracle Tuxedo Application Runtime for IMS supported platforms are listed in the [Oracle Tuxedo Application Runtime for IMS Installation Guide](#).

## Limitations

Please note the following ARTIMS limitations:

1. Only one input message from a terminal is allowed in a single transaction
2. You cannot reply to more than one output messages to terminal in a single transaction
3. You cannot switch to a terminal other than the originator
4. Only the "CBLTDLI" interface is supported
5. Only COBOL programs are supported
6. Only Message formatting option 1 is supported
7. You cannot deploy across heterogeneous machines
8. Do not support IMS default system MOD - DFSMO2 which is used when MOD does not specify both in the application program and the MID "nxt" field. ARTIMS displays the output message as plain text in the terminal, user need to clear the terminal firstly.
9. Because there is different byte Ordering (Big Endian or Little Endian) in COBOL on different open systems, during 'Dynamic Attribute Modification' you cannot specify a decimal integer to attribute bytes directly in a program. It is suggested to specify a hexadecimal value to byte in 'attribute bytes' one at a time.
10. ART Workbench may incorrectly convert the hexadecimal value in COBOL according the `tr-hexa.map` configuration file. You must create the `tr-hexa.map` configuration file according the project itself.

## See Also

- [Oracle Tuxedo Application Runtime for IMS Installation Guide](#)
- [Oracle Tuxedo Application Runtime for IMS Users Guide](#)
- [Oracle Tuxedo Application Runtime for IMS and Reference Guide](#)