Oracle Tuxedo Application Runtime for IMS

Release Notes

12*c* Release 1 (12.1.1)

September 2013

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September, 2013	12c Release 1 (12.1.1) Rolling Patch 015
April, 2013	Rolling Patch 001
August, 2012	GA

This chapter contains the following topics:

About This Release

Oracle Tuxedo Application Runtime for IMS (Tuxedo ART 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.

What's New

Tuxedo ART for IMS 12c Release 1 (12.1.1) supports Oracle Tuxedo 12c Release 1 (12.1.1), Oracle Tuxedo Application Rehosting Workbench 12c Release 1 (12.1.1), and Oracle Tuxedo Application Runtime for Batch 12c Release 1 (12.1.1).

Tuxedo ART for IMS 12c Release 1 (12.1.1) rolling patch 015 includes the following new features and enhancements:

- New set of DL/I calls, as follows:
  - CMD/GCMD
  - SYNC
  - POS
  - INQY
  - OPEN/CLSE
  - CHKP (Symbolic)
  - XRST
  - POS
  - ROLL
- Mainframe IMS/DB support solution, which enables ART IMS programs to utilize IMS/DB on Mainframes
- Support for `AIBTDLI` interface
- Support for C programs migration from Mainframes

- Support for Multi-Byte Character Set (MBCS)
- Support MQ-IMS Bridge
- Support Non terminal access
- Support for persistent message
- Buffer convert support for Oracle ODBA plugin
- Transaction-oriented BMP support
- Connect to CICS through EXCI support
- Full PSB/PCB parameter support
- Variables of DD statement support in ART IMS Batch
- MFS bypass mode support

Components

Tuxedo ART 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/C 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/C applications.
- a DB plug-in on open system side and an ODBA proxy on z/OS to provide a mainframe IMS/DB support solution.

Interoperability

Tuxedo ART for IMS maintains full interoperability with:

- Oracle Tuxedo 12.1.1.0 on all supported platforms
- Oracle Tuxedo Application Runtime for Batch 12.1.1.0
- Oracle Tuxedo Application Rehosting Workbench 12.1.1.0
- COBOL: MicroFocus COBOL 5.1 and COBOL-IT COBOL 3.3.13

Installation Notes

The installation of Tuxedo ART 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

Tuxedo ART 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. You cannot restore the symbolic CHKP data after the `ARTIBMP` server is rebooted.
5. Only Message formatting option 1 is supported.
6. You cannot deploy across heterogeneous machines.
7. 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.
8. 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 s suggested to specify a hexadecimal value to byte in 'attribute bytes' one at a time.

9. 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