Oracle® Fusion Middleware Release Notes for Oracle GoldenGate



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Oracle Fusion Middleware Release Notes for Oracle GoldenGate, 12c (12.3.0.1)

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Conventions

The following text conventions are used in this document:

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Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.





1 Introduction

This chapter introduces the Release Notes for Oracle GoldenGate 12c (12.3.0.1). **Topics:**

- Latest Release Information
- Purpose of this Document
- System Requirements and Specifications
- Certification Information
- Product Documentation
- Oracle Support
- Licensing Information
- Downloading and Applying Required Patches

Latest Release Information

This document is accurate at the time of publication. Oracle will update the release notes periodically after the software release. You can access the latest information and additions to these release notes on the Oracle Technology Network at:

http://www.oracle.com/technetwork/indexes/documentation/index.html

Purpose of this Document

This document contains the release information for Oracle Fusion Middleware Release for Oracle GoldenGate.

Oracle recommends you review its contents before installing, or working with the product.

System Requirements and Specifications

Oracle Coherence follows the Fusion Middleware system requirements and certifications for production environments. For more information, see http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html.

Certification Information

To see versions of platforms and related software for which <product name> is certified and supported, go to http://www.oracle.com/technetwork/middleware/ias/ downloads/fusion-certification-100350.html.

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Product Documentation

For complete documentation on Oracle GoldenGate, go to http://docs.oracle.com/en/ middleware/.

Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support at https://support.oracle.com

Licensing Information

Licensing information for Oracle Fusion Middleware is available at:

http://oraclestore.oracle.com

Detailed information regarding license compliance for Oracle Fusion Middleware is available at:

Licensing Information

Downloading and Applying Required Patches

Go to My Oracle Support to download the latest software patches.

https://support.oracle.com

See the README file in the patch distribution for up-to-date information on the software fixes provided by the patch.

To download and install the latest software patch:

- **1.** Login to My Oracle Support.
- 2. Click the Patches & Updates tab.
- 3. Under the Patch Search tab, select **Product or Family (Advanced Search)**, and select the **Include all patches in a product family** check box.
- 4. Enter Oracle GoldenGate as the product, select the platform and release, and click Search.

The list of currently available patches for Oracle GoldenGate is returned.

For CDC Extract you may need these software patch:

- For SQL Server 2012, 2014, and 2016, Microsoft has identified and fixed an issue where some update operations may be written incorrectly to a CDC staging table as an INSERT followed by a DELETE, rather than a DELETE/INSERT pair. This may cause downstream replication issues, such as a primary key violation, therefore it is recommended to apply the Microsoft fix for this issue: https:// support.microsoft.com/en-us/help/3030352
- For SQL Server 2016, prior to enabling supplemental logging, ensure that you have patched the SQL Server instance based on the following bug fix from Microsoft: https://support.microsoft.com/en-us/help/3166120/fix-could-not-find-



stored-procedure-sys.sp-cdc-parse-captured-column-list-error-in-sql-server-2016 If the instance is not correctly patched with the Microsoft fix, issuing ADD TRANDATA against a table for the database may incorrectly report that supplemental logging succeeded, when in fact it may not have; therefore no records will be captured for that table.



Downloading and Applying Required Patches



2 What's New in this Release

This chapter describes the features, enhancements, and changes made to Oracle GoldenGate. Oracle updates the release notes periodically after the software release. This document is accurate at the time of publication. **Topics:**

- New Features
- Default Behavior Changes
- Deprecated Features

New Features

This section describes the features and enhancements made to Oracle GoldenGate.

Topics:

12.3.0.1 - Initial Release

12.3.0.1 - Initial Release

Microservices Architecture

Oracle GoldenGate Microservices Architecture is a new architecture that illustrates server applications running as part of the Oracle GoldenGate environment. It is comprised of **services** that provide REST API interfaces for configuration, administration, and monitoring with included HTML5 Web applications. This is supported with Oracle Database only.

Single Service Manager per Installation

Oracle recommends that you create only one Service Manager on a system where you install MA to facilitate easy upgrades.

Oracle Database Sharding

Oracle GoldenGate provides a cohesive platform for a sharded Oracle Database, allowing data replication across various sharded database topologies. All the functionality of a sharded database, in addition to providing pre-configured Oracle GoldenGate replication as part of the GDSCTL DEPLOY command, is included. This is supported with Oracle Database only.

Parallel Replicat

Parallel replicat is a new variant of Replicat that applies transactions in parallel to improve the performance. It takes into account dependencies between transactions, similar to Integrated Replicat. The dependency computation, parallelism of the mapping, and apply is performed outside the database and can be off-loaded to another server. The transaction integrity is maintained in this process. In addition, parallel replicat supports the parallel apply of large transactions by splitting a large transaction into chunks and applying them in parallel. This is supported with Oracle Database only.

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Procedural Replication

Integrated Replicat has been enhanced to allow you to replicate certain Oraclesupplied PL/SQL procedures that cannot be replicated as DML or DDL. This requires that the source and target databases are Oracle Database 12c Release 2 (12.2) and later.

Automatic Conflict Detection and Resolution

You can configure and manage Oracle GoldenGate to automate conflict detection and resolution when it is configured in Oracle Database 12*c* Release 2 (12.2) and later.

DBA_GOLDENGATE_SUPPORT_MODE has a new value plsql This view has a new value, plsol.

ADD TRANDATA, INFO TRANDATA, and ADD SCHEMATRANDATA enhancements

These commands are enhanced to provide additional table handling information by adding the NOVALIDATE option:

- Warning on object type table, xmltype table, iot table, cluster table
- Support mode, including full support, support using fetch, or not supported
- List of Oracle GoldenGate key columns
- Columns and their types that caused the table to be unsupported or fetch
 supported
- Fetch restrictions
- Warning on lack of unique key

PMSRVR Commands

The PMSRVR commands control the Performance Metrics Server.

TRANLOGOPTIONS

The FETCHINLINESFLOB and VALIDATEINLINESFLOB options are added to the TRANLOGOPTIONS parameter.

The DLFAILOVER_TIMEOUT seconds option provides a configurable timeout in seconds to allow for standby database reinstatement post-role transition.

The DISABLESOFTEOFDELAY option sets the wait time that the EOFDELAY will take effect when an EOF is reported along with records to be returned.

The SUPPRESSNOOOPUPDATES option allows you to control whether no-op updates are filtered or not in Integrated Extract.

GETENV

The JULIANTIMESTAMP_PRECISE option is added to the GETENV parameter.

ALLOWNULLABLEKEYS | NOALLOWNULLABLEKEYS

The ALLOWNULLABLEKEYS | NOALLOWNULLABLEKEYS GLOBALS parameter changes the key selection logic.

ADD HEARTBEATTABLE and ALTER HEARTBEATTABLE

The TARGETONLY and NOTARGETONLY options are added to these parameters. This is available with Oracle Database only.

MAPALLCOLUMNS | NOMAPALLCOLUMNS

MAPALLCOLUMNS | NOMAPALLCOLUMNS are added as Global parameters and as an option to the MAP parameter to control whether or not Replicat obtains non-key columns.



Error Log Enhancements

You can control the ggserr.log file behavior.

OUTPUTFORMAT

Use the outputformat parameter to output data in text, SQL, and XML formats.

CACHEMGR

The CACHEVMUSAGE option .

SQLEXEC on Before and AfterImages

This functionality should work for any type of Extract or Replicat including Integrated Replicat. It allows a SQLEXEC to call the stored procedure and return the masked value for BAN, and then use that returned value in the WHERE CLAUSE similar to:

```
SQLEXEC (BEFOREFILTER, SPNAME MASK_COL, PARAMS (in_mask = BAN, mask_type =
`CHARACTER', OPTIONS = `N'),
```

Where the return value,MASK_RESULT, returns the masked value of the BAN column. The other options are to mask it using only character data (A-Z, a-z, 0-9), and the last OPTIONS is a list of possible options, such as whether the value should be deterministic or which values to encrypt.

In processing UPDATE and DELETE statements, you want the stored procedure to take the BEFORE image of the value and use that masked value in the WHERE CLAUSE. However, Oracle GoldenGate does not do this by default, so the MOD_COMPARE_COLS option is introduced so that you can control the values that are used in the WHERE CLAUSE. The MOD_COMPARE_COLS option works similar to COLMAP except that the values for the assigned columns are used in the WHERE CLAUSE instead of as values in the actual SET clause.

```
IGNOREINSERTS
GETUPDATES
GETUPDATES
GETDELETES
TABLE ADM. MESSAGE_LOG, TARGET ADM. MESSAGE_LOG,
SQLEXEC (BEFOREFILTER, SPNAME MASK_COL, PARAMS (in_mask = BEFORE.BAN, mask_type =
`CHARACTER', OPTIONS = `N'),
COLMAP (USEDEFAULTS, pk_col = @GETVAL(MASK_COL.mask_result)),
MOD_COMPARE_COLS (BAN = MASK_COL.MASK_RESULT);
```

In this example, the where CLAUSE for UPDATES and DELETES (since we are using IGNOREINSERTS) are modified to use the MASK_COL.MASK_RESULT value from the sQLEXEC statement instead of using the actual before image of the BAN column from the trail.

MySQL

- Support for extraction and replication of DDL (data definition language) operations is introduced.
- InnoDB now supports up to 1017 columns.
- Support added for Capture and Delivery to MySQL Database with TDE Enabled.
- MySQL (v12.2.0.1.0) has been certified for delivery to Amazon Aurora, which is derived from MySQL v5.6 for both a single instance and a cluster setup of Amazon Aurora.

SQL Server

• A new CDC-based Extract is introduced.



- The CDC-based Extract supports capture from SQL Server 2016 databases enabled with TDE, and remote capture.
- Capture from a source database configured as a Primary or read-only Synchronous mode Secondary of an AlwaysOn Availability group.
- Delivery to SQL Server 2016 targets.
- New parameters TRANLOGOPTIONS NO and MANAGECDCCLEANUP added for SQL Server CDC Extract. MANAGECDCCLEANUP is the default and instructs the CDC Extract to check for the Oracle GoldenGateCleanup task objects.
- For the CDC Extract, there is a new utility <code>ogg_cdc_cleanup_setup.bat</code>, which is used to create the Oracle GoldenGateCDC Cleanup job and associated objects, for controlling data retention in the CDC tables.
- TLS 1.2 support has been added for Oracle GoldenGatefor SQL Server, and requires the Extract to run with the new DBOPTIONS DRIVER SQLNCLI11 parameter.
- Single user TRANLOGOPTIONS EXCLUDEUSER functionality has been added for the SQL Server Classic Extract. However, multiple excluded users are not supported.

z/OS

- There is no longer a native z/OS build. This allows Oracle GoldenGatefor DB2 for z/OS to maintain compatibility with the other platform features and significantly reduces the MIPs costs associated with running the product.
- Extract uses stored procedures to read the transaction log.
- AES encryption and 64–bit support is included.
- BATCHSQL is now supported for DB2 z/OS

IBMi

- COLCHARSET SUPPORT NOW FUNCTIONAL IN TABLE SPECIFICATIONS IN EXTRACT
- TEXT data conversions significantly more efficient in Extract when writing Unicode trails

Default Behavior Changes

This section describes the default behavior changes made to Oracle GoldenGate in relation to the last release.

Topics:

12.3.0.1 - Initial Release

12.3.0.1 - Initial Release

System Change Number

The value size is expanded from 6 bytes to 8 bytes. This is applicable to Oracle Database 12*c* Release 2 (12.2) and later.

Extract

Checkpointing was changed to support the 8–byte representation for both classic and integrated Extract.



Long Identifiers

Support for long identifiers limit of 128 bytes was added. This is applicable to Oracle Database 12*c* Release 2 (12.2) and later.

Oracle Database

- Support for the Local Undo Oracle Database 12.2 feature, which allowed each PDB to use its own, local undo tablespace, has been added.
- Classic capture mode when replicating a CREATE USER command using the DDL trigger was changed and now the trigger owner and the Extract login user must match.

Character Sets for Pluggable Databases

Oracle GoldenGate now provides replication support for pluggable databases with different character sets.

DB2 LUW EOFDELAY

The EOFDELAY wait time will take effect even when an EOF is reported along with records to be returned.

DB2 for i Database

The default behavior of a DB2 for I Extract has been reverted to convert all character data to Unicode. Extracts with multiple journals are no longer allowed by default

(CDC Extract) TRANDATA

If you encounter the following error: Could not find stored *procedure* 'sys.sp_cdc_parse_captured_column_list' When adding TRANDATA to a SQL Server 2016 table, you may be required to install a patch related to the following SQL Server bug: https://support.microsoft.com/en-us/help/3166120/fix-could-not-find-storedprocedure-sys.sp-cdc-parse-captured-column-list-error-in-sql-server-2016

@RANGE

The **@RANGE** function now abends when there missing or NULL columns.

Deprecated Features

This section describes the deprecated and no longer supported features of Oracle GoldenGate.

Topics:

Deprecated Features

Deprecated Features

12.3.0.1 - Initial Release

Oracle GoldenGate Director

Oracle GoldenGate Director is not supported with Oracle GoldenGate12.3.0.1 release. Use Oracle GoldenGate Studio instead.

SYSLOG

The SYSLOG parameter for GLOBALS and MGR.PRM is removed.



Reverse Utility

The reverse utility is deprecated.

INFO MARKER

The INFO MARKER command is deprecated. Extract and Replicat no longer check the marker table history from NKS source.

NOASYNCTRANSPROCESSING

The NOASYNCTRANSPROCESSING option of TRANLOGOPTIONS is deprecated. There is no default behavior change.

FORMATASCII, FORMATSQL, and FORMATXML

The new OUTPUTFORMAT parameter replaces the deprecated FORMATASCII, FORMATSQL, and FORMATXML parameters.

CACHEMGR

The CACHEPOOL *n* and CACHEFSOPTION { MS_SYNC | MS_ASYNC options are deprecated.

EXTFILE, EXTTRAIL, RMTFILE, RMTTRAIL

These parameters have been deprecated for Data Pump. The Data Pump writes the output trail in the same format and metadata endian as the input source trail file: FORMAT RELEASE TRAILBYTEORDER

TRAILCHARSETUNICODE

The Extract TRAILCHARSETUNICODE parameter has been deprecated because the default behavior of a DB2 for I Extract is now reverted to convert all character data to Unicode. The character conversion efficiency has been significantly improved., however if a table must be sent without conversion, COLCHARSET(PASSTHRU) may be used on the TABLE statement.

USEANSISQLQUOTES | NOUSEANSISQLQUOTES

The GLOBALS USEANSISQLQUOTES | NOUSEANSISQLQUOTES parameters have been deprecated.



3 Known Issues and Workarounds

This chapter describes the known issues at the time of release. **Topics:**

Known Issues and Workarounds - Initial Release

Known Issues and Workarounds - Initial Release

Issue

Bug Number: 26190334

Impacted Release: 12.3.0.1

Impacted Platforms: All

JAgent supports only the Classic mode for Oracle GoldenGate. MA is not supported.

Workaround

No workaround available.

Issue

Bug Number: 25897967

Impacted Release: 12.3.0.1

Impacted Platforms: All

If there are Oracle GoldenGate12.3 processes running when OGG_HOME/deinstall/ deinstall.sh is executed, then those processes continue to run after deinstallation. The orphaned services' process IDs become defunct because the associated binaries no longer exist. However, the Service Manager process is kept alive and remains listening on the original port. Subsequent attempts to add deployments (after reinstalling Oracle GoldenGateMicroservices Architecture) may be blocked due to the discovery of the active, existing Service Manager port.

Workaround

When uninstalling Oracle GoldenGateMA, the best practice is to delete all affiliated deployments and/or stop their processes. In addition, identify the process ID of the Service Manager and manually kill the process. If the Service Manager is set up as an operating system service daemon, deinstall.sh does not clean up the configuration, so this task is also manual.

Issue

Bug Number: 26104564

Impacted Release: 12.3.0.1



Impacted Platforms: All

When an "execute" task is deleted, the associated ER process is killed. This is because the task owns the running state of the ER process.

Workaround

The correct method of creating an "execute" task is as follows:

- **1.** Create the ER process in stopped state.
- 2. Create the task.
- 3. Start the task.

Issue

Bug Number: 25502490

Impacted Releases: 12.3.0.1

Impacted Platforms: Solaris SPARC or Solaris x86_64

The LD_LIBRARY_PATH_64 environment variables must be set correctly before running Oracle GoldenGate on Solaris SPARC or Solaris x86_64.

Workaround

Before running the configuration wizard or any Oracle GoldenGate executables, you can resolve this issue in one of two ways:

- Remove the /usr/sfw/lib/sparcv9 directory, that is installed with Solaris, from the LD_LIBRARY_PATH_64 environment variable . Oracle recommends this workaround.
- Update the LD_LIBRARY_PATH_64 environment variable to include \$OGG_HOME/lib as the first entry.

Issue

Bug Number: 22826452

Impacted Releases: 12.3.0.1

Impacted Platforms: All

Do not use WILDCARDRESOLVE IMMEDIATE in a multitenant environment if performing DDL on that system. Extract may fail to capture records after the DDL operations.

Workaround

No workaround available.

Issue

Bug Number: 22739872

Impacted Releases: 12.3.0.1

Impacted Platforms: All

When using XAGENABLE, if you start manager from GGSCI and it immediately abends the command may hang.



Workaround

No workaround available

Issue

Bug Number: 22967088

Impacted Releases: 12.3.0.1

Impacted Platforms: All

If Integrated Replicat abends with OGG-00665OCI Error Flushing database inbound server, `..' (status = 3117-: two-task save area overflow), disabling ENABLEMONITORING.

Workaround

Restart the Replicat.

Issue

Bug Number: 19512704

Impacted Releases: 12.3.0.1

Impacted Platforms: All

Using STRCAT to concatenate a string that has used BINTOHEX returns the wrong information.

Workaround

No workaround available.

Issue

Bug Number: N/A

Impacted Releases: 12.3.0.1

Impacted Platforms: All

NOUSERID is only supported with downstream Integrated Extract.

Workaround

No workaround available.

Issue

Bug Number: N/A

Impacted Releases: 12.3.0.1

Impacted Platforms: All

[NO]MAPINVISIBLECOLUMNS does not function properly with user exits.



Workaround

No workaround available.

Issue

Bug Number: N/A

Impacted Releases: 12.3.0.1

Impacted Platforms: Aix

You must install the XL C++ runtime environment (RTE) version 13.1 on the systems that you want to use Oracle GoldenGate because it cannot run with older RTE versions.

Workaround

Ensure that the RTE version 13.1 is installed before you install Oracle GoldenGate.

Issue

Bug Number: 26564428;

Impacted Releases: 12.3.0.1

Impacted Platforms: Solaris 10

The Performance Metrics Server home page does not correctly display statistics.

Workaround

None.

Issue

Bug Number: 26564428;

Impacted Releases: 12.3.0.1

Impacted Platforms: Oracle Linux 6

When a source schema name is appended to the derived object (indexes and triggers) during DDL (like CREATE TRIGGER tkggul.mytrigger1), then the derived object is not mapped correctly by the Replicat. Since mapderived is default for Replicat, the statement should map per the map statements.

Workaround

Do not append a source schema name to the derived object name in DDL statement so that the statement is executed on the correct schema.

Issue

Bug Number: 26533353; Impacted Releases: 12.3.0.1

Impacted Platforms: N/A



Creating deployment with the **Integrate with XAG** option results in the Service manager not starting.;

Workaround

None.

Issue

Bug Number: 26501195;

Impacted Releases: 12.3.0.1

Impacted Platforms: Solaris 10

Workaround

The MA Service Manager and server web pages do not display in Solaris 10. To display these pages, upgrade to Solaris 11.

Issue

Bug Number: 26596046 ;

Impacted Releases: 12.3.0.1

Impacted Platforms: All

Oracle GoldenGatefor non-Oracle Bi-Directional and Cascading HEARTBEATTABLE implementations are not working correctly.

Workaround

None.

Issue

Bug Number: 26593572;

Impacted Releases: 12.3.0.1.0 (Microservices edition only)

Impacted Platforms: All

Admin Client does not allow connection to deployment as a non-admin user.

Workaround

Admin Client can only connect to the deployment using the credentials specified during deployment.

Issue

Bug Number: 26613655;

Impacted Releases: 12.3.0.1

Impacted Platforms: CDC Extract for SQL Server

ADD HEARTBEATTABLE does not create all objects needed by CDC Extract.



Workaround

After creating the HEARTBEATTABLE entries, use GGSCI to ADD TRANDATA schema.gg_heartbeat and ADD TRANDATA schema.gg_heartbeat_seed.

Issue

Bug Number: NA;

Impacted Releases: 12.3.0.1

Impacted Platforms:

Mozilla Firefox browser is not supported on MAC OS for embedded UI.

Workaround

Use Google Chrome browser.

Issue

Bug Number: 25061436;

Impacted Releases: 12.3.0.1

Impacted Platforms: IBM I

An issue has been raised with IBM about the generation of system sequence numbers where the system sequence numbers roll back during the one hour window in the fall daylight savings time adjustment period at 2 a.m. This can cause a loss of data and/or hung Extract. IBM is currently working to resolve this issue.

Workaround

Shut down the Extract during the fall Daylight Savings Time change at or before 2 a.m. local time and wait until 2 a.m. standard time has passed to restart Extract.

Issue

Bug Number: 26546679;

Impacted Releases: 12.3.0.1

Impacted Platforms: All

For tables that contain PARSE columns, the $sql_variant$ data type, or the FILESTREAM attribute, Extract may fail if processing DML for these tables.

Workaround

You must remove these tables from Extract with either the TABLEEXCLUDE parameter, or you can remove TRANDATA for the specific tables with DELETE TRANDATA

Issue

Bug Number: 26492075; Impacted Releases: 12.3.0.1 Impacted Platforms: All



Due to a limitation with SQL Server's Change Data Capture abilities, column level collations that are different from the database collation, may cause incorrect data to be written to the CDC tables for character data, and Extract may capture them as they are written to the CDC tables.

Workaround

None.

Issue

Bug Number: 26046195;

Impacted Releases: 12.3.0.1

Impacted Platforms: SQL Server 2008/2008R2 CDC Extract

SQL Server 2008 and 2008R2 Change Data Capture may write a Primary Key update to the CT staging table as a Delete or Insert that is not part of the same transaction. If this occurs, data written to the trail is as a Delete, followed by an Insert, and this could impact target foreign key constraints.

Workaround

Disable target table foreign key constraints.



Known Issues and Workarounds - Initial Release



4 Bugs Fixed and Enhancements in this Release

This chapter describes the bugs fixed and enhancements at the time of release. **Topics:**

- Initial Release August 2017
- Bugs Fixed in 12.3.0.1

Initial Release – August 2017

CACHEMGR and CACHESIZE can be placed in GLOBALS parameter

For Extracts and Replicats, CACHEMGR and all its options can be placed in the GLOBALS parameter, except for CACHEDIRECTORY.

Extended Timestamp Precision for RECORD, TIMESTAMP

@GETENV has two new values: RECORD_TIMESTAMP_PRECISE and TRANSACTION_TIMESTAMP_PRECISE. These options return the timestamp value with fractional precision, which implies that the values are returned from YEAR to MICROSECONDS or MILLISECONDS, depending on the type of database.

@STREQNULL, @STRCMPNULL Functions Added

©STREQNULL and ©STRCMPNULL functions work the same way as ©STREQ and ©STRCMPNULL, respectively. However, when two arguments passed to the function are both NULL, the functions return value because both values are identical. ©STREQNULL returns 1 and ©STRCMPNULL .returns 0.

SQLEXEC Before Image is Supported with Parameter SQLEXECONBEFOREIMAGE

A new parameter SQLEXECONBEFOREIMAGE introduced to support SQLEXEC execution on Before Image records, because SQLEXEC execution only happens after image records.

Enhancement of Filter USERNAME for SQL Server Classic Extract

SQL Server classic extract can now filter by user.

Bugs Fixed in 12.3.0.1



Chapter 4

Bugs Fixed in 12.3.0.1

