

Release Notes for Oracle GoldenGate for HP NonStop (Guardian)

This document contains the release notes for the 26ai releases of Oracle GoldenGate for HP NonStop on the Guardian platform. You can find additional information about the parameters and options described in these release notes in the *Reference Guide for Oracle GoldenGate for HP NonStop (Guardian)*. This product is for the support of Enscribe and SQL/MP, it does not support SQL/MX.

New Release 23.4.0.0.0 — June 2024

This release contains several new features, some of which causes behavior changes and possibly require parameter modification depending on the version you are currently using. Therefore, Oracle recommends that you investigate the enhancements noted here as well as the *Reference Guide for Oracle GoldenGate for HP NonStop (Guardian)* and the *Fusion Middleware Administering Oracle GoldenGate for HP NonStop (Guardian)*, for more information. If you have questions, then you can also open a service request (SR) with [Oracle support](#) to resolve any issues that might affect your specific product usage.

This section outlines the new features that are being introduced in this release and includes the following:

New Parameters

This section lists the parameters that have been added for this release, please consult the reference manual for full details:

Replicat can now defer applying transactions until a specific amount of time has elapsed using `DEFERAPPLYINTERVAL`.

Extract and Replicat now have use of a new Colmap function `@SizeOf()` to allow the removal of hard coded lengths in mapping. This can be especially useful while using the `@GETTLFTOKEN()`.

Added the ability to use `=Defines` in `LogParm` for non audited Logger capture.

Added the parameter `CHECKTHRESHOLDMIN` for manager to alter the frequency that checks and reports `TMF DISKTHRESHOLD` percent.

Parameter Changes

This section explains the parameter changes that are included in this release.

Extract now has the option `RECEIVERPORT` for the `RMTHOST` parameter to communicate with an OpenSys MicroServices install. This should be used instead of `MGRPORT` or `PORT`.

Extract uses the `MAXFILESTHRESHOLD` as the number files left before `MAXFILES` is about to be reached that are displayed to EMS as critical warnings with emphasis. You now can set the `MAXFILESTHRESHOLD` on a per `EXTTRAIL` basis from `GGSCI`.

`EVENTACTIONS` can be used to trigger an event based on a file or table receiving a DML record. Added a new option `CLOSEFILES` to `EVENTACTIONS` to cause all open files and tables to be closed.

The User Exit parameters for Extract and Replicat have been modified to accommodate using Dynamically Linked Libraries.

Release 23.4.0.0.3 - June 2025

- The `FILE` statement in Extract now has the option of `USEREXITNAMEMAP`, which will be used when your User Exit changes the name of the file to an unmapped name. This corrects the issue that the trail metadata (TDR), and the DML records are written with the original source file name.
- The `Syncfile` parameter `DUP` now has the option of `QUALEXPR`. This allows for FUP qualified expressions to filter, like "Where not KeySequenced".

Deprecated Parameters and Programs

This section explains the deprecated parameters and programs in release.

TNS mode objects for Extract and Replicat have been deprecated and de-supported. If you have coded your own user exits, then you will be required to recompile them in Native mode.

For those using the Oracle® GoldenGate Application Adapters for `BASE24`, native mode objects are provided as part of that download found only on OTN.

Note

The T24 User Exit has been deprecated, see the *Reference Guide for Oracle GoldenGate for HP NonStop (Guardian)* for using `@GETTLFTOKEN`.

BlowFish for encryption over TCP/IP and encrypting passwords has been deprecated and de-supported. For encryption over TCP/IP, see the `Encrypt` option of [RMTHOST](#) in

the *Reference Guide for Oracle GoldenGate for HP NonStop (Guardian)* as well as [Using Encryption](#) in the *Administering Oracle GoldenGate for HP NonStop (Guardian Data Sources)*. For encrypted passwords used with the `LOGON` parameter, passwords must be regenerated from GGSCI, which will now automatically be AES.

`ATCONFIG` for TMF recovery has been deprecated and de-supported.

`SizeRemoteFiles` has been deprecated and removed.

Release 23.26.1.0.0 - December 2025

- The option `FORMAT RELEASE` for `EXTTRAIL` and `RMTTRAIL` is restricted to 12.1 and up. Version options 9.0 thru 11.x are deprecated.
- The Manager command `REFRESH MGR` has been deprecated.

Note

HPE has announced July 2025 as the end of support for Nonstop Itanium J06. In conjunction with this announcement Oracle GoldenGate will provide only sustaining support for the Nonstop Itanium J06 platform as of July 2025.

Patches after this date can be obtained only by special requests to product management.

Program Changes

This section explains the general changes that are included in this release.

Added support for volume names up to 7 bytes. This allows for the product to be install on a long-named volume as well as write trails. However this can only be done for Enscribe based usage, SQL/MP does not support this feature.

Release 23.4.0.0.3 - June 2025

When processing Enscribe files and using Dictionary and `DEF` to access column details for mapping, the use of `EXPANDDDL` could now be mandatory with options of `EXPANDGROUPARRAYS` and/or `RESOLVEDUPGROUP`, in addition to the possibility of adding a group level name to a map. This behavior change is because of the correction for bug 37530173. Any need for these changes would be seen when a mapped column name is no longer found.

This is not expected to affect most installations.

Installation and Upgrades

The installation file downloaded from Oracle is a standard ZIP file.

Upgrade Process

The instructions for installation and upgrading are documented by release version at <https://docs.oracle.com/en/middleware/goldengate/non-stop/index.html>

Installation Instructions Changes

Oracle recommends to perform installs or upgrades of any Oracle GoldenGate version to the target system before the source.

As a best practice before any install check the currently posted release notes for patch numbers and version information. Alternatively check My Oracle Support (MOS), Patches and Upgrades to see if any patches are available for the requested release.

If there are no available patches, the user is directed to <https://edelivery.oracle.com>.

Corrected Problems and Enhancements

For questions on specific bugs or ticket numbers, consult Oracle Customer Support. BugDB is the bug identification number. You can obtain Patches from the My Oracle Support site or you can contact support by opening an SR to obtain the current patch.

Release 23.26.1.0.1 — March 2026

Patch 39066006 Oracle GoldenGate NSK 23.26.1.0.1 ON HP NonStop

Bug 39047674 NSK: CPU-bound loops due to unexpected I/O responses during process startup.

Corrected a programming error in the Baselib/GGSLIB intercepts that caused the users program to loop.

Bug 38977508 NSK: Fix SSID in GGSEMS

Corrected the SSID value for EMS on LO6 OS from Baselib.

Release 23.26.1.0.0 — January 2026

Patch 38727982 Oracle GoldenGate NSK 23.26.1.0.0 ON HP NonStop

Bug 38759696 NSK: Replicat abends with SQL error -4052 preparing statement

Corrected key columns when a Replicat uses SourceDefs, but those are ignored for metadata in trail.

Bug 38759624 NSK: Correct dynamic allocation size of the files list

Corrected Replicat from corrupting memory when over 500 files (source/target) are added with large DDL records and are not aged off over time.

Bug 37069878 NSK: LogDump fix SQL format display

Corrected the display of SQL table metadata details in LogDump.

Bug 37857037 NSK: Fix TDR display issue

Corrected Logdump displaying TDR formats greater than 2.

Bug 38641084 NSK: LogDump trap on REFTDR

Corrected Logdump from trapping when reading a REFTDR record that referred to a prior TDR for the same table.

Bug 38313004 NSK: Fix truncated reply from GETARFILESTATS

Corrected messages between Audserv and Extract when processing the GGSCI command GETARFILESTATS.

Bug 38327046 NSK: Fix keycols when extracting from a view

Corrected Extracts key columns when extracting a view and the column count and or column order are different from the base table.

Bug 38495418 NSK: Correct filterview logic from requiring contiguous key columns

Corrected Extract from writing no op (key only) updates to the trail when key columns are not contiguous.

Bug 38280361 NSK: Fix heap corruption in FormatXML

Corrected the memory size allocation in Extract to perform output FomatXML.

Bug 38307226 NSK: Missing target file warning target not audited

Corrected Replicat from displaying a premature warning message for "Audit Check" on a missing file before it's actually a problem.

Bug 38528871 NSK: Correct baselib intercepts from trying to log #temp files

Corrected Baselib from trying to intercept temporary #disk files, causing a runtime error 34 from `FILENAME_FINDSTART()`.

Bug 38043710 NSK:error 0 purging discard file

Corrected the reporting of an error when attempting to purge the discard file.

Bug 38517275 NSK: Correct memory allocation on Enscribe DDL record, not file rec len

Corrected Extract from abending with `*** Run-time Error 002 ***`, `Illegal address reference`. Changed to use the size allocation for default mapping to the larger of either a `TargetDef` or the File record length.

Bug 38567933 NSK: Remove use of Setmode 141

Removed the use of `Setmode 141` when opening a target file for unstructured writes (`BulkIO`). This is no longer required and can cause issues when executing writes that do not start on 2K boundary.

Bug 38100794 NSK: Replicat prepare statement error

Corrected Replicat to output a more detailed error message when target SQL/MP table expected columns do not exist.

Bug 38495593 NSK: Change the FILE_COMPLETExx functions

Enhanced the `Baselib` intercept to handle the condition when the Users programs is calling the various `FILE_COMPLETE` and `FILE_AWAITIO64` functions with `-1` for the file number instead of their own openers.

Bug 38682036 NSK: Fix @GETNEV("TLFKEY" for 64-bit Syskeys

Corrected the `@getenv()` option `TLFKEY` to handle Format 2 files larger `Syskey` size.

Bug 38673089 NSK: Server detect and reject little endian trails

Corrected the Server Collector to throw an error reply to OpenSys Extracts when sending trails in Little Endian format.

Release 23.4.0.0.4 — August 2025

Patch 38267939 NSK: Oracle GoldenGate NSK 23.4.0.0.4 ON HP NonStop

Bug 38294973 NSK: Replicat abends with CREATEUSINGTARGETUSERID clause was already specified

Corrected Replicat, when using the option `CREATEUSINGTARGETUSERID` in two separate statements, causes the error already specified.

Bug 38253456 NSK: Handle OpenSys CSNs, current size too small

Corrected a trap in Extract and Replicat with an EMS message of: `Run time Error 034, Released space not allocated`. This can occur when processing an OpenSys trail with large CSNs.

Bug 37990307 NSK: Fix dynamic port field overflow in remoteaddress

Corrected memory corruption in manager caused by DNS hostnames over 64 bytes.

Bug 38212367 NSK: Syncfile abends with error 74 on \$RECEIVE

Corrected Syncfile to handle cancel requests from TACL or FUP.

Bug 38177171 NSK: Correct lost error message detail on bad @function() syntax

Corrected Extract, Replicat from not reporting some error message details on bad syntax using function calls.

Release 23.4.0.0.3 — June 2025

Patch 37967883 - ORACLE GOLDENGATE NSK v23.4.0.0.3 ON HP NONSTOP

Bug 36105785 NSK: Allow Extract to output metadata based on output file not mapped when name changed by User Exit

Added the option `USEREXITNAMEMAP()` to the parameter `FILE`. This is to allow for the correct metadata and file name to be written to the trail when a User Exit changes the output name for a source Enscribe file.

Bug 36096576 NSK: Deprecate Extract/DEFGEN FORMAT RELEASE less than 12.1 (keeping DEFGEN 9.0)

Deprecate Extracts ability to over write trails in favor of Rollover recovery. Deprecate DEFGEN FORMAT RELEASE to match that of Extract.

Using FORMAT RELEASE 9.0 with DEFGEN is only for use with the D24 User Exit.

Bug 37927350 NSK: Extract pump traps adding User Tokens after table attribute refresh

Corrected an Extract pump from trapping on maps with user tokens after a table attribute refresh. This can be caused by alter table add column.

Bug 37509550 NSK: Fix large def with RMTTASK

Corrected Extract from receiving an error when sending a large metadata TDR record to a RMTTASK Replicat.

Bug 37530173 NSK: Extract and DEFGEN output on elementary fields with occurs

Corrected the value of level when a elementary item with an occurs is indexed, causing name expansion.

Bug 37598965 NSK: Fix trap in ENCRYPTC

Corrected Extract and Replicat from trapping when the ENCKEYS file was missing along with using either ENCRYPTTRAIL or DECRYPTTRAIL.

Bug 37767902 NSK: Extract abends: ARLIB error get_audit_rec_image, Exceeded OPEN retry limit for audit file in dump location

Corrected how Extract/AUDSERV look for the next seqno when this file exists on a TMF dump volume.

Bug 37822150 NSK: Replicat needs to warn about REPCTXT not audited

Changed Replicat to add bounds check on status of the REPCTXT file when data corruption is possible.

Bug 37693266 NSK: Syncfile support for FUP QUALEXPR

Add support for FUP QUALEXPR on DUP commands to allow for FUP level filtering.

Bug 36821615 NSK: Extract rollover recovery changes

Corrected how Extract and Server Collector handle gaps in seqno's during trail recovery.

Bug 37945103 NSK: Deprecate REFRESH MGR command from GGSCI

Deprecated the refresh command in favor of stopping and restarting the Manager process for adding, changing, or removing Manager parameters.

Bug 37950675 NSK: Fix migrate bug.

Corrected migrate from improper syntax error:

```
[#if [#fileinfo /opennow/ .$  
Expecting a legal filename
```

Bug 37956798 NSK: Fix Manager not cleaning up old pump checkpoints

Corrected the manager back slave process to clean up old checkpoints in REPCTXT for Extract pumps.

Release 23.4.0.0.2 — February 2025

Patch 37889311 Oracle GoldenGate Veridata 23.3.0.0.0 C Agent for HP NonStop

The release 23.4.0.0.2 was for the NSK C agent of Oracle GoldenGate Veridata for HP Nonstop.

Release 23.4.0.0.1 — February 2025

Patch 37458675 - ORACLE GOLDENGATE NSK v23.4.0.0.1 ON HP NONSTOP

Bug 32977962 NSK: GGSCI needs to filter out remotecheckpoints to the local node.

Corrected GGSCI to not add local checkpoint records during ADD REMOTECHKPT command.

Bug 36515232 NSK: Deprecate [No]SizeRemoteFiles.

Deprecated and removed the Extract param SizeRemoteFiles.

Bug 36569543 NSK: Handle ansinames where only a portion is quoted.

Corrected the format for ansinames in a parameter file when quotes are required.

Bug 36730425 NSK: Trail with purgedata has no TDR from TMF Extract.

Corrected Extract to write a TDR metadata record to OpenSys when source was TMF for PURGEDATA.

Bug 36820999 /34744267: EXTRACT NSK:propogate URI HISTORY in a pump.

Changed Extract to update the fileheader URI History value with producer info.

Bug 36874975 NSK: Partonly Purgedata on non-partitioned files.

Corrected AUDSERV to output record type PURGEDATA on non-partitioned Enscribe files when Extract is using GETPARTONLYPURGEDATAS.

Bug 36912483 NSK: need to send purgedata ops thru the userexit.

Added a new User Exit callback `GET_FILEOP_INFO()` to obtain part only purgedata records. The new function will allow the use to track the partitions that have been purged as to maintain any target altfile purges that might need to take place.

Bug 36959101 NSK: GGSCI command Capture tabledefs fails.

Corrected GGSCI to return results from the Capture tabledefs command.

Bug 36975073 NSK: replicat network checkpoint.

Corrected Replicat from processing network checkpoints, if either the target repctxt or the files being replicated are not audited.

Bug 37069885 NSK: replicat error message is missing the error number.

Corrected Replicat from printing a hardcoded 0 as the error number.

Bug 37101663 NSK: @GETTLFTOKEN() throws token count error on bad header eye catcher location.

Corrected the error on a bad header token count. This occurred without first testing if parsing had found the token eye catcher on a valid header.

Bug 37389263 NSK:fix short used as an index in the file exclude code.

Corrected an Extract problem that can occur when more than 32767 `ALTFILE` are automatically excluded.

Bug 37393615 NSK: Handle OpenSys rectype metadata fragment 171.

Corrected a problem combining fragment TDR records type 171 from OpenSys.

This would cause an error, such as `Bad metadata record found (Bad hdr token length x vs x)`.

Release 23.4.0.0.0 — June 2024

Bug 29044245: EXTRACT NSK: Enable user exits as shared objects in native mode.

Enhanced Extract and Replicat to allow the use of a shared object DLL User Exit.

Bug 30777280: OTHER Support trail output from Logger or Extract to long named volume.

Added support for volume names up to 7 bytes when only used for Enscribe.

Bug 32515895: EXTRACT NSK: set error text in colfnc parse_argument.

Corrected lost error text on parsing details of `@function()` calls.

Bug 32690290: MANAGER NSK: Mgr missing audit reporting.

Corrected the double reporting of missing audit.

Bug 32716663: EXTRACT NSK: report duplicate column names.

Change formatting of warning messages for ambiguous referenced columns during mapping to give clearer indication of unintended name matches.

Bug 33060156: REPLICAT NSK:HandleCollisions should not be required for PKUPdates.

Corrected the requirement for HandleCollisions to be used to skip the Delete portion of a missing target record of a PKUpdate.

Bug 33064538: REPLICAT NSK: Replicat update stats bucket for fileop and User Exit Ignore returned like DML.

Corrected the file stat after a User Exit returned Ignore Record such as the Base24 Rename that occurs during a Refresh.

Bug 33150018: EXTRACT Add column function @SIZEOF ().

Added a new column function to return the size of a column or Enscribe group level field.

Bug 33281294: REPLICAT NSK: init_targ_fields does not init pic 9(n) fields correctly.

Corrected the default values of pic 9 fields to ASCII Zeros instead of binary zeros, which could cause an error -8405 when replicating data from OpenSys.

Bug 33402823: GGSCI NSK:System command fails.

Corrected handling of procedure death message from `TMFSERVE` that caused the GGSCI system command to fail.

33749686 EXTRACT NSK:Fix the TCP/IP compression stats reported by extract.

Corrected the display value of compression stats.

Bug 33817095: REPLICAT NSK:Detect and handle lock length less than key length.

Corrected Replicat from not releasing file locks on Key Sequenced Enscribe when the lock length is not the same as the key length.

Bug 33821106: REPLICAT NSK: Add a CLOSEFILES option to eventAction.

Added the option of `CLOSEFILES` to the eventActions clause of MAP.

Bug 33993578: OTHER NSK: Add check for running processes during product install.

Change to ensure no existing processes are running if the product is reinstall to an existing location.

Bug 34009241: EXTRACT NSK: Marker history processing.

Corrected marker history performance issues by changing read/write processing to do 56K I/O.

Bug 34028237: EXTRACT NSK:add configurable warning threshold for maxfiles reached.

Allow the warning threshold default of 2 on MaxFiles to be changed.

Bug 34039862: MANAGER NSK: mgr needs to return additional info in some responses.

Added full detailed display to the response a remote manager returns from GGSCI> GETMGRVERSION.

Bug 34242185: GGSLIB NSK: Purge op not captured from fup dup, purge in baselib.

Added the capture of procedure call FS_FILEPURGE_, which executes during FUP PARTONLY DUP.

Bug 34510414: EXTRACT NSK: always output current read position.

Added current read location and last completed CSN to both Extract and Replica reports after send report and Stop commands.

Bug 34645149: GGSCI NSK:fix altering the TMF read position by seqno, rba.

Correct the timestamp associated with any configured AUX trails after an alter by Extseqno and Extrba.

Bug 34715923/35279460: AUDSERV NSK:Audserv needs to report SQL/MP error text from SQLCATOBUFFER().

Added SQL/MP error details on error getting partition details from the catalog.

Bug 34725132: REPLICAT NSK:Fix report file filling up.

Changed the mode of testing if a report file was going to become full from a timer to a prewrite test.

Bug 34739855: EXTRACT NSK:Extract storing aborted transaction data.

Changed Extract from holding aborted transaction data through the rollback unless GetRollBacks is in use.

Bug 34743352: EXTRACT NSK: FILENAME_TO_PATHNAME_ gets error 4202.

Added a more meaningful message that the Open System Services File System is required.

Bug 34756203: REPLICAT NSK:replicat network checkpoints.

Corrected the network checkpoint written to REPCTEXT to only write actual record length, not size of record.

Bug 34816441: LOGDUMP NSK:Logdump infer datetime fraction precision

Corrected the formatting of the fractional part of a Timestamp/Datetime datatype.

Bug 34846029: REPLICAT NSK: Implement DEFERAPPLYINTERVAL.

Enhanced Replicat to wait a predetermined amount of time before applying data.

Bug 35007016: REPLICAT NSK: Correct handling of Unified PKUpdate from OpenSys.

Corrected the handling of Unified `PkUpdate` from OpenSys when columns are compressed out and or missing from a source OpenSys DB.

Bug 35080490: EXTRACT NSK: Remove the old ATCONFIG code.

Deprecated the antiquated `ATCONFIG` for `TMF` recovery in favor of `TMF` Tape and Dumps.

Bug 35111977: OTHER NSK: COMBLIB needs to verify the presence of entrylib.

Corrected to ensure `ENTRYLIB` exists so a combined library will not be built without it.

Bug 35112835: REPLICAT NSK: Fix control record when we have not seen an open on the file.

Corrected `Replicat` to handle a control that was intercepted without a prior open, caused by the intercept being built without `ENTRYLIB`.

Bug 35196789: EXTRACT NSK: Add MOM pid to Extract/Replicat banners.

Added process details to the report banners.

Bug 35224161: EXTRACT NSK: Extract pump on nsk files with no node.

Corrected handling of NSK formatted names coming from OpenSys where the node name was removed.

Bug 35241002: EXTRACT NSK: fix core dump when source & target are the same and using CONVERTALLFLOATS.

Corrected a possible trap in an Extract pump when converting floats.

Bug 35270299: OTHER NSK: Deprecate TNS mode Extract and Replicat.

Removed the TNS Extract and Replicat object from the distribution.

Bug 35315074: GGSLIB NSK: Non Audited capture needs to resolve defines in audconfig.

Added the ability to use `=Defines` in `LogParm` for non audited capture.

Bug 35339156: EXTRACT NSK: Allow the result of an expression in SQLEXEC.

Added the ability to reference an expression while doing a `SqlExec` in a map statement.

Bug 35351238: OTHER NSK: Clean up fupop to user exit from wildcard not resolved.

Corrected the name passed to a User Exit when a `Fileop` was performed before a `DML`.

Bug 35364061: REPLICAT NSK: Remote checkpoint message.

Clarified an error message when a remote host was not configured in globals.

Bug 35411505: GGSCI NSK: add maxfiles to the info logger display.

Added the `MaxLogfiles` configured for a `Logger` process from the `GGSCI` info logger command.

Bug 35421610/35950674: EXTRACT NSK: Correct MRKRGGs counted to output trails.

Corrected trail stats to match file buckets for marker records that had been previously hidden.

Bug 35422116: DEFGEN NSK: Correct part of key for Defgen.

Corrected the Defgen output to remove group level Enscribe fields as part of key.

Bug 35485096: EXTRACT NSK: Open MGRPORT option for RMTHOSTALT.

Added the ability to use RMTHOSTALT with MGRPORT and other supporting parameters.

Bug 35496620: GGSCI NSK: add PARAMS to the ggsci env output.

Added the display of session params to the env command from GGSCI.

Bug 35554736: EXTRACT NSK: Extract/replciat need to validate source files.

Added a bounds check on invalid NSK names with extra digits.

Bug 35623008: GGSCI NSK: Correct GGSCI command to start extract with NoFilterRestart.

Corrected the ability to have Extract restart without skipping duplicate records.

Bug 35702992: EXTRACT NSK: Dont send auditcomp records to an Opensys target.

Corrected and stopped Enscribe Auditcomp records from being sent to an OpenSys target.

Bug 35742874: EXTRACT NSK: Output more IP connection details.

Added more details to the report display after Extract gets an IP connect to a remote process.

Bug 35747018: EXTRACT NSK: add sqlexec sanity check.

Add missing bounds check to ensure one of either BeforeFilter or AfterFilter was provided.

Bug 35756813: OTHER NSK: Change bad install (altkeys) message to reinstall product.

Clarified abend message for an incorrectly installed product.

Bug 35761645: GGSCI NSK: add direct read info to the info extract display

Added to the display info on a DirectRead Extract group to show the type, such as, ACITLF, ENTRY, or ADVANTAGE.

Bug 36571170 - NSK: Encryption over IP does not account for enough to pad buffer overhead.

Corrected the padded allotment to account for the AES initialization vector being appended to the message.

Bug 35778120/35788026: GGSCI NSK:Fix ggsci writing max length REPCTXT records.

Corrected GGSCI from updating REPCTXT records to 4040 bytes when altering a group to use actual count.

Bug 35788026: REPLICAT NSK:allow opensys table names longer than 48 bytes.

Correct limitation of OpenSys ANSI table name longer than 48 bytes.

Bug 35928952: MANAGER NSK:MGR trapped when it received a long message on TCP/IP.

Corrected manager from trapping by adding a bound check on incoming messages to manager when a process is sending messages larger than it can handle.

Bug 36014904: GGSCI NSK:Fix view report on very large report files.

Corrected positioning into a report file when viewing the last or end of a very large report.

Bug 36096307: LOGGER NSK:Logger dangling opens on logtrails.

Corrected dangling logfile opens due to SIGNALTIMEOUT failures.

Bug 36128271: GGSCI NSK:Fix incorrect check of errno after fgets.

Corrected the error testing during reading of parameter files from view command.

Bug 36139507: EXTRACT NSK:Calculate rate on the RecordCount display.

Added display of rate per interval when reporting ReportCount.

Bug 36192203: AUDSERV NSK:fix audserv parsing of ARLIBERROR.

Corrected parsing of Extract parameter AUDSERVPARAM option ARLIBERROR *<error>*, *<action>* .

Bug 36421312: EXTRACT NSK: Fix abend when resolving MRKRGGs.

Corrected a TMF Extract getting an error "Unable to add new file MRKRGGs" for a marker file from a different Oracle GoldenGate installation on the same node.

Bug 36504603: OTHER NSK: Remove Blowfish method from usage.

Deprecated and removed the use of BlowFish encryption from the product. This affects the GGSCI command Encrypt Password, the Logon parameter to Extract and Replicat, as well as Extract encryption over IP. For more information, see [Using Encryption](#) in the *Administering Oracle GoldenGate for HP NonStop (Guardian Data Sources)*

Bug 36525748: EXTRACT NSK: Bounds check rmthost to OpenSys MA to not allow encryption over IP.

Added RECEIVERPORT for Extract to send RMTTRAIL data to an OpenSys MicroServices remote and properly test valid parameters. This is to be used instead of either PORT or MGRPORT.

36626655 NSK: Extract does not write restart abend record after maxfiles abend and prior trail was already complete.

Corrected Extract to output a restart abend record on restarting after Extract reached the configured Maxfiles causing an abend.

Getting Help with Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

When you contact support, provide full and concise details. Use the PAK utility to provide all reports for each of a given process group of Extract (TMF and or PUMP) as well as Replicat for full source to target details. Use the same PAK utility to provide any relevant ZZSA files and matching object file.

Example of using PAK:

```
TACL> PAK Pakfile, <$vol>.<subvol>.<group name>*, Open
```

Known Issues

This chapter describes the known issues at the time of Oracle GoldenGate HP NonStop Release.

Release 23.4.0.0.0 — June 2024

Metadata Requirement as of Version GoldenGate for HP NonStop 19c

Extract may need access to source metadata to be able to write it to the output trails. This is subjective to your need and usage of column information downstream.

By default a metadata record (TDR) is written to the trail for each file or table before its first DML.

In the case of SQL/MP, the catalog is already accessible and nothing needs to be changed.

In the case of Enscribe files, if there is no `DICTIONARY` and `DEF` provided, Extract will fabricate metadata based solely on the details obtained from `FILEINFO`. While this is sufficient for the basic mapping of `FILE A` to `FILE A`, there would be no means to use `ColMap`, `FILTER/WHERE`, `KEYCOLS`, and others features or functions that would require column names and data type information. If this functionality is required, then you must use a `DICTIONARY` and provide a `DEF` for each `FILE`.

The metadata is required by an OpenSys target, and therefore the Extract writing remote trails to another OS is no longer allowed to send fabricated metadata for Enscribe files. You must provide a `DICTIONARY` and provide a `DEF` for each `FILE`. This eliminates the requirement of running `DEFGEN` to provide the OpenSys Replicat of `SOURCEDEFS`.

When Replicating from an OpenSys source to HP NonStop, as of HP NonStop v12.3, you no longer need to use `DEFGEN` to provide column information to the remote Extract on OpenSys. No mapping of filenames or columns is required. This can now all be accomplished in the NSK Replicat because of metadata in the trail.

For more information about trails, please see Oracle GoldenGate Self-Describing Trail Files in the *Fusion Middleware Administering Oracle GoldenGate for HP NonStop (Guardian)*.

Metadata Compatibility

Metadata in trails for SQL/MP and Enscribe DDL without redefines is compatible with any 12.2 or higher version.

Metadata in trails for Enscribe DDL that contains Redefines, can only be sent to OpenSys targets of versions of 12.2.0.1.7 or higher and NSK targets of 12.3.0.1.0 or higher.

Metadata in trails that was fabricated for Enscribe files when DDL was not provided can cause problems for Replicat using `TARGETDEF` on a Map statement, please consult the manuals to correct this.

When Extracting from OpenSys, providing a Map from a ANSI name to an NSK name and not providing a `TargetDef` will result in an Error `TDR invalid column metadata, mismatched`. Remove the `MAP` statement and only send the ANSI name.

Trail Version Compatibility

Oracle recommends that both the source and target versions be of the same major release versions, but if this is not possible and the target version is older than the source, the output data trails must be created by Extract in the targets version formatting, use the appropriate `FORMAT RELEASE <major.minor>` option with the `EXTTRAIL/RMTTRAIL` parameter.

Open Issues

- When configuring Extract to send to an OpenSys Microservices install, ensure that you are using `TCPBufSize 27000`.
- `LOGGER` can write bad GGS Tokens to the trail after a backup take over from a CPU failure.
- Oracle GoldenGate for HP NonStop does not support SSL/TSL encryption to and from OpenSys MicroServices installs. To communicate with a MicroServices install you must not use SSL security when configuring the deployment.

Note

- It is recommended NOT to use `FASTREADS` on a trail that is being written with normal 4K I/O and do not use `FASTREADS` in a low volume situation. The most common problems are bad records read in an Extract Pump/Replicat, Replicat receiving an error 59, or corrupted data. This issue can be caused by common and incorrect setups:
 1. A Logger process is doing 4K writes (default) and either an Extract pump/Replicat is using `FASTREADS`.
 2. An Extract is not doing `FASTIO` and either an Extract pump/Replicat is using `FASTREADS`.
 3. An Extract is sending to a `RMTTAIL` and the Server Collector is doing 4K writes (default) and Replicat is using `FASTREADS`.
- If you are using User Exits to do primary key updates, you must change the key length fields to a long instead of a short. This is due to the support for the larger records of DDL2.
- When capturing non audited change data using `LOGGER`, applications are required to open logged files with the correct elections setting for the file in question when opened. While `FILE_OPEN_()` may allow 64 bit primary key access on a `FORMAT 1` file, those updates will be captured as `FORMAT 2` and causes a miss-match with Oracle GoldenGate metadata. If column information is required for any reason, then Maps, Filters, or `SQLExec`, an Extract pump or Replicat fails.
- The Oracle GoldenGate product cannot be installed on volumes of 7 digits (if any SQL/MP is expected to be processed). This limitation is within the SQL/MP product, and not Oracle GoldenGate.

Related Information

[Oracle GoldenGate Documentation](#)

[Oracle GoldenGate for Distributed Applications and Analytics](#)

[OCI GoldenGate](#)

[Oracle Database High Availability](#)

Documentation Accessibility

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