Oracle® GoldenGate for X24 v3.0.6.0 Release Notes

Release Notes
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ORACLE



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New Parameters

Specifying conditional and usage fields

The D24 definition Usage Accumulator fields have been enhanced to now include the field type values ‘C’ and ‘U’. Each value triggers the following processing:

- space = Uses the ‘after’ image regardless of the field values; no checks are made on these fields.
- ‘U’ = Checks the Conditional value to determine if the field should be reset before applying delta logic. Note: a Conditional entry is required for Usage defined fields.
- ‘C’ = The conditional field that is checked before applying delta processing to the field. The value determines if the field should start at zero before applying any delta value. The supported format is currently ‘YYMMDD’ Any invalid format or date will result in a warning and no delta processing will be performed on those fields.
- ‘D’ = Continues to denote that the difference between ‘before’ and ‘after’ value is applied to the target field. Target value = Target value + (‘after’ – ‘before’).

The type of field is limited to just binary/amount fields as it is currently with delta fields and the ‘D’ field types.

Specifying after image change only and no change per field

The D24 definition is used and has been enhanced for a partial refreshes and regular updates. Enhanced field types for D24 now include the field type values ‘A’ and ‘N’. The type of field is no longer limited to just binary/amount fields (as it is currently with delta fields and the ‘D’ field type). The action for each field type is:

- space = Use the ‘after’ image regardless of the field values; no checks are made on these fields.
- ‘A’ = The ‘before’ and ‘after’ image values are compared and when the values are the same the ‘target’ value is used, resulting in no change to the ‘target’. When the value has changed, the ‘after’ image is used. Therefore the ‘target’ is changed only when change occurs for that field.
- ‘N’ = Never replicate the field. Always use the target field value.
- ‘D’ = Continues to denote fields that apply the difference between ‘before’ and ‘after’ to the target field. Target value = Target value + (‘after’ – ‘before’).

New Features

New BROADCAST support has been added for N24. Refer to ACI documentation for the BASE24 REFRESH for changes to the N24 NOTIFY process for N24.

Installation and Upgrade Procedure

NOTE: The X24 modules are version dependent for GoldenGate releases 10 versus 9.5 and earlier.

The installation file downloaded from Oracle is not compressed using gzip, instead it is a standard .zip file. To uncompress the download, please use the zlib ZIP utilities.

You can download the utility from: http://ftp.bsi2.com/pub/oss/ZIP.tar.Z

Additional information on this utility can be found here: http://ftp.bsi2.com/pub/oss/ZIP.README

The upgrade process for Oracle GoldenGate for HP Nonstop remains the same.

Known Issues

None identified at this time.

Changes In Current Behavior

Improved Installation Procedures

Install and unpack functions are now automated similar to standard NSK installs. Refer to the user documentation for details.

Corrected Problems

For questions on specific bugs or ticket numbers, please consult Oracle Customer Support.

Resolved Tickets

For questions on specific bugs or ticket numbers, please contact Oracle Customer Support. For reference purposes, TS# 123 is the Technical Services Ticket number, DT# 123 is the Development Ticket number, NSK-123 is the Jira ticket number, and SF# 123 is the SalesForce.com ticket.

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X24

BASETF-5

New version formats using VPROC have been implemented in all modules. Listed below is a D24 example.

```
 Binder timestamp:  07OCT2009 09:52:09
Version procedure:  T9999D40_c_exitshim
Version procedure:  T9999D40_fileop_29May2008
```

```
Version procedure:  T9999D40_getopc_05Dec2008
Version procedure:  T9999H06_D24_06Oct2009_v3_0_6_0
Version procedure:  T9999H06_GGS_18Aug2009_v9_5_0_19
Version procedure:  T9999H06_GGS_CORE_v9_5_0_0
Version procedure:  T9999H06_bioc_18Aug2009
       Target CPU:  UNSPECIFIED
```

BASETF-9

A new install procedure will allow proper volumes and sub volumes for the X24 module locations. Refer to the user documentation for the specifics on the locations.

D24

BASETF-17

References to the definition field segment were changed to use the reference internal segment table when a segment is found. This will 1) allow segment identifiers to identify the appropriate segment for 5.x BASE24 versions and 2) no longer require that the segments identifiers must be in true ascending order in the definition files. Those definition files can use the ACI segment identifiers and numbers as ACI provided numbers. Example: XXXX SEG 0000, XXXX SEG 0002 would not have been valid because it skipped XXXX SEG 0001. Previously this caused any fields in XXXX SEG 0002 to not be treated as delta fields.

BASETF-45

The ‘C’ conditional fields are no longer required to be in the segments of the ‘U’ usage fields for UAF processing. References to segment 26 refer to segments 0, 1, and 2. Validation for the segments for UAF are done based on the actual field name that identifies what segment the ‘U’ field is to be tied with. "LAST-RESET-DAT” = segment 0000, "ATM-LAST-USED-DAT" = segment 0001 and "POS-LAST-USED-DAT" = segment 0002.

N24

BASETF-42

The trace option is back into the N24 module and functionality. “NOTIFYT” is now valid again as an option for tracing N24 operations.

BASETF-8

Support was added for BROADCAST functions to match BASE24 REFRESH functionality. N24 operations can now use queues and processes the same way the BASE24 REFRESH process does today.

NSK-4241

Removed checks in the TACLB24 that did not allow an alternate key as a file in the GGSREFR file. It is required that the customer uses the LCONF option 5 or 6 to allow this functionality when using alternate keys with a refresh file. This will be required going forward.

NSK-4608/TSI-607

The address segments and the amount fields are now checked for spaces for segmented files and each field and will now put out a warning. The check for the fields being spaces was required because BASE24 allowed this for some FHM updates and some segmented files where

the max size or a space for the number of values in the segment was specified. If a field was specified within the segment where this was used, a warning is displayed and the update is processed as it would be processed on the source (therefore not allowing delta processing to be used).

```
UE 204 Definite out-of-sync condition for Insert:
```

-Or-

```
UE 203 Warning: possible out-of-sync condition for:
```

-Or-

```
UE 202 DEFINITE OUT-OF-SYNC CONDITION FOR:
FILE: $DATA03.PRO1DATA.CAF
RECORD: 11111111111111111 000
DELTA PROCESSING SKIPPED
<BEFORE><AFTER><TARGET> segment value issue or record segment
unavail or invalid
FIELD: SEG.1 TTL-WDL-PRD
```

T24

BASETF-30

In some cases when the QZ token was in use there could be data corruption. This has been corrected.

BASETF-29

Allows processing of the maximum 23 tokens by T24. Previously the last token id was not allowed due to parsing errors in the user-exit.