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Active-Active for Non-Stop Update

Eric Van Ettekoven EMEA Expert Services GoldenGate Software, a wholly owned subsidiary of Oracle Corporation, provides best-in-class real-time data integration solutions that help companies gain improved business intelligence across the enterprise, with more-accurate and timely analysis of real-time business performance.





Goals of an Active/Active Implementation

- Better use of existing hardware
 - Put your backup system to use
- Continually test backup system
 - It is working right now
- Reduce response time
 - Handle peaks each processing a portion of load
 - Maintain your system with planned switchovers
- Allows phased Migrations/Upgrades (no downtime)!
 - Once you have the ability to process on two systems, you can perform phased migrations





How GoldenGate TDM Works: Modular "Building Blocks"



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Uni-Directional Plus Live Reporting



When you need:

- Current up-to-the-minute reporting information
- Reduce impact of reporting demands on your production system
- Verification of your failover data readiness

Under Normal Operating Conditions

PRIMARY SYSTEM AVAILABLE for

- BOTH READ and WRITE SECONDARY SYSTEM AVAILABLE for
- ONLY READ operations



Live Standby (Active – Passive)



When you need:

- Live reporting+
- Fastest possible recovery & switchover
- Reverse direction replication ready
- Next best thing to Active-Active
- Backup that can be used for reporting

Under Normal Operating Conditions

PRIMARY SYSTEM AVAILABLE for

- BOTH READ and WRITE SECONDARY SYSTEM AVAILABLE for
- ONLY READ operations



Active / Active – Data Routed to Avoid Data Collision



When you need:

- Continuous availability
- Transaction load distribution
- Performance scalability

Under Normal Operating Conditions

Both SYSTEMS AVAILABLE for

BOTH READ and WRITE

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GoldenGate v.10 for HP NonStop: New Features





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AUTOSTART Parameter for Manager

- The AUTOSTART parameter can now be used to trigger Manager to start Logger processes
- To accommodate this, the syntax has changed to:

```
AUTOSTART [<group type>] {group name | <process name>}
[, ALLPROCESSES]
```

where

<prove type> can now include LOGGER <process name> is required for a Logger process in the form \$xxnnnn. Wildcards can be used for all or part of the name.

• Example – start all Loggers

AUTOSTART LOGGER *

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STATOPTIONS Parameter for Extract/Replicat

New reporting parameter:

```
STATOPTIONS [ ZEROSUPPRESS | NOZEROSUPPRESS ]
[, PROGSTATS ]
```

ZEROSUPPRESS

(Default) Do not print zero counts for insert, update and delete operations.

NOZEROSUPPRESS

Print zero counts for insert, update and delete operations.

PROGSTATS

(Replicat only) Report time spent creating a file, purging a file or ending a transaction. Default is not to print these.

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Primary Key Updates from Open Systems

- Primary key updates coming from open system databases into a NonStop SQL/MP or Enscribe database are now supported
- They are processed by deleting the target record and inserting a new record with the new primary key
- Primary key updates are still not supported for entry-sequenced and queue files



Changing the default location of AUDCFG

- 1. To change the default location for the AUDCFG segment, run BUILDMAC or NLDLIB
- As it builds the new library, the macro prompts: Do you want to change to location for the AUDCFG segment for TNS(Y/N)
- **3**. If you enter Y, the program prompts for the \$VOL.SUBVOL location of the file

Note: For multiple GoldenGate environments to have a different AUDCFG locations, each needs a unique copy of GGSLIB linked with the default location for that environment

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• Support for HP Blades





GoldenGate Version 10 New Features for HP NonStop

- New Parameters
 - ABENDONSECURITYCHECK parameter for Audserv
 - AUTOSTART LOGGER parameter for Manager
 - AUTORESTART parameter for Manager
 - IPINTERFACE parameter for Manager
 - DUP parameter options for Syncfile
 - CHECKPOINTSECS parameter for Replicat
 - FILEAGEDAYS parameter for Extract/Replicat
 - REPORTOPTIONS parameter for Extract/Replicat
 - TALUSEREXIT parameter for Extract/Replicat
- New Commands
 - Hotswap Logger during upgrades
- New Functionality
 - Platform support
 - TAL user exits
 - GET_USER_TOKEN_VALUE user exit function
 - Primary key updates from Open Systems
 - Trail file headers from Open Systems
 - @GETENV for trail file header information
 - Creating high pin processes
 - Changing the default location of AUDCFG

