

## SOFTWARE RELEASE DOCUMENT (SOFTDOC)

Product:	Shadowbase Audit Reader (SAR)
Release:	Gravic Version 6.230 HP NonStop Shadowbase: T1122-AAD (SB Repl/Guardian)
Release Date:	May 15, 2016
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**NOTE:** This release contains updated software for HPE Shadowbase Audit Reader (SAR) for both the HPE Integrity Nonstop X and HPE Integrity Nonstop i Servers.

**NOTE:** This softdoc applies to the HPE Shadowbase Audit Reader component. Other softdocs document the releases of the other components in T1122H06, including:

- HPE Shadowbase Compare for SQL,
- HPE Shadowbase Enterprise Manager,
- HPE NonStop Shadowbase Guardian replication, and
- HPE NonStop Shadowbase OSS replication.

You are advised to reference those other softdocs for the changes related to those specific components of T1122H06.

**NOTE:** This softdoc covers new features and corrected problems for Shadowbase Audit Reader for HPE Integrity NonStop i servers (H06 and J06 Guardian NonStop) and HPE Integrity NonStop X servers (L06 Guardian NonStop).

This softdoc is available in an Adobe PDF file (.PDF). Softdoc files for SQL Compare are named IPMnnnn-SAR.pdf (where nnnn is the Shadowbase version number).

**NOTE:** The Shadowbase Audit Reader internally uses the nomenclature “TP-SPY” to reflect its original development roots. Hence, you will notice that the examples show a “tpspy” prompt, etc.

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## ***Disclaimer***

We are distributing this communication in an effort to bring important information to the attention of users of the affected products. We recommend that all users determine the applicability of this information to their individual situations and take appropriate action. We do not represent or warrant that this information is necessarily accurate or complete for all user situations and, consequently, we will not be responsible for any damages resulting from the user's use or disregard of the information provided. To the extent permitted by law, we disclaim all representations and warranties, whether express, implied, statutory, or otherwise, including the warranties of the merchantability, fitness for a particular purpose, title, and non-infringement.

## Special Notes for Version 6.230

None.

## Changes in Release 6.230

This section summarize the new features and problems fixed since the last General Availability release, Gravic version 6.101 for HPE Integrity NonStop i systems and version 6.200 for HPE Integrity NonStop X servers. This softdoc includes all changes, including those originally released in version 6.200 for NonStop i servers only.

## New Features

- 1) A new option has been added to display only those end transaction events that are related to transactions containing selected events. Previously, if the option to select end transaction events (record types: COMMIT, NETWORK COMMIT, ABORT, NETWORK ABORT) was selected, all end events of the selected type would be displayed whether or not any data from the transaction had been displayed. See *EMPTY TRANSACTION Command (New)*, below, for more information on enabling and disabling this feature.
- 2) A new option has been added to allow SAR to continue when audit reading errors are encountered. See *ON ERROR Command (New)*, below, for more information

## Problems Fixed

- 1) Under certain conditions, SAR would fail to display relative file compressed updates. This occurred for aborted transactions.
- 2) The HELP text contained a few minor grammatical errors.
- 3) When selecting an SQL/MX table or index, SAR previously required you to enter either the type (index or table) prior to the name, for example:  
TABLE%MYCAT.MYSCHEMA.MYTABLE or  
INDEX%MYCAT.MYSCHEMA.MYINDEX. The documentation indicated that the TABLE or INDEX was optional as long as the name was unique. SAR has been corrected to match the documentation, that is, the TABLE or INDEX identifier is optional.
- 4) Using the option INTFORMAT set to a float format ('f') caused the last column displayed to have its data truncated. For example, a table that is defined as:

```
>>invoke testtabl;  
-- Definition of table \GRAVIC1.$QA.CJCDATA.TESTTABL  
-- Definition current at 13:06:42 - 11/11/14
```

```
(  
  AKEY                PIC 9(3) NO DEFAULT NOT NULL
```

```
, COL2          PIC 9(3) DEFAULT NULL
, COL3          PIC 9(5) DEFAULT NULL
, COL4          PIC 9(5) DEFAULT NULL
)
```

with the following insert statement:

```
>>insert into testtabl values (111,111,11111,11111);
```

generated an audit record that displayed as follows (if floating point display is selected for output):

```
Record Type      : INSERT
MAT-File         : \GRAVIC1.$AUDIT.ZTMFAT.AA000074
MAT-Position     : 74.2588782532
MAT-Timestamp    : 2014-11-11 13:04:48.236746
(212282489088236746)
Home Node        : 222 (\GRAVIC1)
Transaction ID   : 222(2).1.7125778 (-2377618661279924222)
Undo Flag        : 0 (NONE)
Object Type      : 0 (Not SQL/MX object)
After Length     : 22
Physical File    : \GRAVIC1.$QA.CJCDATA.TESTTABL
Logical File     : \GRAVIC1.$QA.CJCDATA.TESTTABL
File Type        : SQL/MP table
```

```
IMG  AKEY  COL2  COL3  COL4
---  -
AFT  1.11e2  1.11e2  1.1111e4  1.11
```

SAR has been corrected to display the data correctly:

```
IMG  AKEY  COL2  COL3  COL4
---  -
AFT  1.11e2  1.11e2  1.1111e4  1.1111e4
```

- 5) While reading from saved audit under certain conditions, SAR failed to properly report the error condition causing it to stop reading.

## ***New Features Description***

None.

## ***New and Modified Commands***

### **EMPTY TRANSACTION Command (New)**

Syntax:

```
EMPTY TRANSACTION (SHOW | HIDE);
```

Semantics:

The EMPTY TRANSACTION command provides more selectivity in displaying transaction end events (COMMIT, ABORT, NETWORK COMMIT, NETWORK ABORT events). It determines whether all end transaction events will be displayed (EMPTY TRANSACTION SHOW) or only those end transaction events associated with transactions containing other displayed audit trails events (EMPTY TRANSACTION HIDE).

This command works in conjunction with the RECORD TYPE command. Only end event records specified by the RECORD TYPE command will be displayed.

The default setting is EMPTY TRANSACTION SHOW.

## ON ERROR Command (New)

Syntax:

```
ON ERROR (BREAK | CONTINUE);
```

Semantics:

The ON ERROR command determines whether or not SAR will continue processing events when an error occurs. If it is set to “BREAK”, SAR will stop processing events at the first record. If it is set to “CONTINUE”, SAR will continue processing.

The default setting is ON ERROR BREAK.

## SHOW SETUP, SHOW ALL Command (Modified)

The SHOW SETUP and SHOW ALL command output have been modified to display the EMPTY TRANSACTION and ON ERROR settings:

```
TP-SPY>SHOW SETUP
format          : LIST
sequence type   : LANDING
record type     : DELETE, INSERT, UPDATE
undo flag       : NONE, TRANSACTION, FILE
char truncation : 27
progressinfo    : Will not be shown
pause          : 0
break on error  : YES
maxignore       : 0
delay          : 0 hundredth of a second every 0 records
pack compressed : ON
all partitions  : ON
empty transaction : SHOW
error dump      : ON
enscribe       : ON
sql            : ON
extended ASCII  : OFF
out term       : ON
out file       : No outfile specified
address        : HEX
```

```
nested column titles: EXTENDED
non data change recs: ON
redefined columns   : USED
```

TP-SPY>

## ***New and Modified TACL Parameters***

None.

## ***Installation Instructions (Shadowbase Audit Reader)***

- 1) Binary FTP the TSPYR file from your PC (if you obtained the files from a Gravic FTP site) or DVD. ASCII transfer the OINSTALL file.
- 2) To begin the Install process, enter the following at the TACL prompt:

OBEY OINSTALL

The following response will be displayed on the terminal screen. (Details of output will vary depending on your system):

```
$DATA1 JHSAR623 19> o oinstall
#frame
#push #informat
#set #informat tac1
#push filecode
#push tos
#set filecode 700
#set tos [ #tosversion ]
[#if ([ #charfind tos 1 R ] = 1) or
      ([ #charfind tos 1 T ] = 1)) |THEN| #set filecode 800]
[#if ([ #charfind tos 1 V ] = 1) |THEN| #set filecode 500]
fup alter tpspyr,code [ filecode ]
PID: $Z58C $SYSTEM.SYS10.FUP
STOPPED: $Z58C
CPU time: 0:00:00.007
run tpspyr,($*.*.INSTXT,$*.*.INSTALL,$*.*.INSTINI),vol [#defaults],myid,listall
PID: $Z58D \GRAVIC1.$DATA1.JHSAR623.TSPYR
UNPAK - File decompression program - T1255H01 - (2014-04-29)

Archive version: 3
File Mode RESTORE Program - T9074H01 (16MAR2015) (AGL)
(C)2000 Compaq (C)2007 Hewlett-Packard Development Company, L.P.
Drives: (\GRAVIC1.$Z58D)
System: \GRAVIC1 Operating System: J06 Tape Version: 3
Backup options: NO AUDITED, BLOCKSIZE 8, NO IGNORE, OPEN, PARTONLY OFF,
                INDEXES IMPLICIT
*WARNING-7147* Files created and stored via OSS and SQL/MX objects are not
                supported.
Restore time: 27Jun2016 10:09 Backup time: 23May2016 12:26 Page: 1

Tape: 1 Code EOF Last modif Owner RWEP Type Rec B1

$DATA1.JHSAR623
INSTALL 800 110712 23May2016 11:25 150,12 NNNN
INSTINI 101 662 23May2016 11:25 150,12 NNNN
INSTXT 101 14532 23May2016 11:25 150,12 NNNN

Summary Information

Files restored = 3 Files not restored = 0
STOPPED: $Z58D
CPU time: 0:00:00.011
#unframe
```

The TPSPYR file is a self-extracting archive. During the execution of OINSTALL, the files contained within will be unpacked and restored to the system as shown above. The files restored in the step above include a customizing configuration file, INSTINI.

The INSTINI file is provided to allow for installation customization. You will have to edit this file and make the appropriate modifications to set items like the SQL catalog and the program subvolume. This can be done manually prior to continuing the installation process or during the installation process by selecting the appropriate step.

3) Follow the instructions in the Installation section of the Shadowbase on a NonStop System section of the ***HP Shadowbase Audit Reader (SAR) Manual***. After making any necessary system specific changes to INSTINI, the INSTALL script will be run.

## Known Problems Remaining

***\*\*\* End of Document \*\*\****