Release Notes

Shadow D/R Data Replicator – version F.02.01

Introduction

This F.02.01 version of Shadow D/R enhances Shadow D/R to replicate across NS domains, and to request to enable critical item update access.

The earlier F.01.01 version introduced KSAM file and flat file replication. This new feature is described in the supplemental notes titled "File Replication in Shadow D/R".

The following sections list the enhancements and resolved issues for this release and for past releases. This document is available on the Meta-View Performance Manager Product CD, and on the documentation page of the Lund website at:

http://www.lund.com/support/documentation.html

Current Release

Version F.02.01 – Released February 27, 2004

This release is based on version F.01.04.

Enhancements

SR#	Service Request Description
769	Shadow D/R has been enhanced to replicate between machines in different NS domains.
770	The Shadow D/R file replication poster process opened files EAR (exclusive allow read) on the secondary. It now opens them SHR (shared) so that processes which open files for write can share access with the poster. Obviously, the sharing processes must not modify the files, or synchronization will be lost.
771	Whether a program can update a critical item is determined by the database CIUPDATE flag, which is set using DBUTIL. If the flag value is DISALLOWED, no CI update is allowed. If it is ON, then any program can update a critical item. If it is ALLOWED, then a program can update critical items, but only after using DBCONTROL to enable the option. Until now Shadow D/R would not enable this capability. Therefore, if the CIUPDATE flag were ALLOWED on the primary, it might be necessary to change it to ON on the secondary when synchronizing databases. Now SHADOWRP will enable CI update when the CIUPDATE flag is set to ALLOWED eliminating the need for this extra step.

Product History

This product history lists enhancements and resolved issues in prior releases.

Version F.01.04 – Released November 14, 2003

This release is based on version F.01.03.

Resolved Issues

SR#	Service Request Description
600	A process could abort if it was armed with the Shadow file replication handlers. The problem occurred if the process had intrinsic calls with parameters that were not 32-bit aligned. This problem was encountered with MAIN.PUB.VESOFT (Vesoft Security).

Version F.01.03 – Released October 27, 2003

This version was based on version F.01.02, and released to a single customer as a patch.

Enhancements

SR#	Service Request Description
598	The Shadow D/R programs SHADOWMP, SHADOWCP, SHADOWRP, and SHADOWDP are now OCTCOMP'ed for better performance. Shadow has always been fast and should now be somewhat faster.
599	Shadow D/R now has a troubleshooting feature, replay mode, that allows log files to be replayed through the entire set of Shadow D/R processes from primary to secondary.

Resolved Issues

SR#	Service Request Description
596	Shadow D/R would lose synchronization if the secondary log files were in a different group than the primary log files.
597	SHADOWRP, the posting process, was putting a "command done" message to the batch $stdlist after posting a file operation.

Version F.01.02 – Released November 22, 2002

This version was based on F.01.01.

Resolved Issues

SR#	Service Request Description
N/A	Numerous problems were fixed that were discovered in alpha testing of the file replication feature.

Version F.01.01 – Created April 12, 2002, not released

This version was based on E.02.01.

Enhancements

SR#	Service Request Description
N/A	This version implements flat and KSAM file replication.

Version E.02.01 – Released July 6, 1999

This version was based on E.02.00.

Resolved Issues

SR#	Service Request Description
N/A	In some prior versions of Shadow D/R, SHADOWRP could abort with a stack overflow if a DBUPDATE was done on a record with a very large record size. Testing revealed the problem on version E.02.00 with a record size of 2300 words (4600 bytes), the largest that Turbo Image allows.

Version E.02.00 – Released June 7, 1999

This version was based on E.01.07.

Enhancements

SR#	Service Request Description
432	Shadow D/R Now handles 1200 concurrent users. The meaning of a "user" here is "an open of a database that is being shadowed". Thus a single process could actually be more than one user.

Resolved Issues

SR#	Service Request Description
441	SHADOWDP would sometimes abort.

Version E.01.07 – Released May 17, 1999

This version was based on E.01.06.

Resolved Issues

SR#	Service Request Description
395	Shadow's taping process didn't always write tape when it should.

Version E.01.06 – Create May 4, 1999, not released

This version was based on E.01.05. It was created to provide a working ShadowDP for version E.01.05.

Enhancements

SR#	Service Request Description
369	Shadow D/R is now licensed using standard Lund Performance Solutions licensing procedures.

Resolved Issues

SR#	Service Request Description
370	Shadow D/R could lose synchronization when there was inadequate space on the secondary to write to the shadow copy of the log files.
371	There were severe problems in SHADOWDP that made it practically unusable.
372	A certain sequence of normal commands could result in the message "MP and CP Log Only Mode states are mismatched. (MPERR 99)".

Version E.01.05 – Released November 9, 1998

This version was based on E.01.04.

Resolved Issues

SR#	Service Request Description
N/A	SHADOWCP could loop when the job password on the secondary system was incorrect

Version E.01.04 – Released October 30, 1998

This version was based on E.01.03.

Resolved Issues

SR#	Service Request Description
N/A	Database passwords were limited to 3 characters. This problem may have been introduced in E.01.03, when the length of command status increased.
N/A	The status command could not be used in a job.
N/A	SHADOWMP was not echoing commands to $stdlist in batch jobs.
N/A	The switch command and recover command were not working, for various reasons.
N/A	Shadow D/R was not sufficiently resilient under conditions of system and process failure. Numerous problems were fixed that were discovered under torture testing.

Version E.01.03 – Released June 4, 1998

This version was based on E.01.02.

Enhancements

SR#	Service Request Description
N/A	Shadow D/R now allows up to 512 concurrent transactions and 1000 concurrent users.
N/A	Program files can now be placed in any group, not just PUB.SYS.
N/A	Installation is now to the SHADOW.LPS group rather than PUB.SYS.

SR#	Service Request Description
N/A	Tracing has been improved for better troubleshooting.

Resolved Issues

SR#	Service Request Description
N/A	Error reporting was insufficient in two instances in which the resume command can fail: 1) a prior command awaits processing by RP, and 2) RP does not respond.

Version E.01.02 – Created May 19, 1998, not Released

This version was based on E.01.01.

Enhancements

SR#	Service Request Description
N/A	Shadow D/R no longer requires the outgoing virtual terminal option of NS.
N/A	There are tracing improvements for easier troubleshooting.

Version E.01.01 – Released November, 1997

This version was based on A.02.06.

Resolved Issues

SR#	Service Request Description
N/A	Shadow D/R was not year-2000 compliant.