

RSF-HA 11.0 Release Notes

- **Faster, Easier Setup.** The new Initialize RSF-HA Setup (INZRSFHA) command makes setting up your replication environment even easier. Several steps that you previously had to perform manually are now handled for you by this powerful command. Parameters allow you to customize your settings, and help text guides you through the process.
- **Hypercharged Replication.** Internal performance updates make replicating large libraries with high transaction volumes faster and more efficient. RSF-HA can now process up to 113 million journal transactions per hour (MJTPH) for a single library! The aggregate rate for all libraries being replicated is even higher, limited only by the performance characteristics of your machines.
- **Replication Groups.** You can now control the replication of several libraries as a group. One journal is used for all libraries in the group to ensure that changes on the target are processed in the order that they occurred for the group on the source machine.

Groups also makes it easy to:

- Start and stop replication for the group.
 - View replication status for the group as a whole, or for individual libraries in the group.
 - Compare/audit all libraries in the group.
 - Clean/remove orphan objects for all libraries in the group.
- **Multiple Replication Definitions Per Library.** It's now easier to divide a library into logical parts and replicate each part with different attributes. For example, you may want to associate different objects within a library with different journals, or associate a subset of library objects with a particular replication group. A new "Set Name" attribute was added to facilitate this process. Library replication entries are now unique by From Library, To Library, Server ID and Set Name. (If you don't specify a Set Name, a value of *DFT is

used.) With the addition of Set Name, you no longer need to create additional Server IDs in order to define different synchronization attributes for different groups of objects in a library.

- **Commitment Control Handling Enhanced.** During normal replication, changes are replicated from the source to the target in the order that they appear in the replication journal. Changes made under commitment control are handled like all others. If a transaction under commitment control is rolled back, additional entries are placed in the journal by the system to "undo" the uncommitted changes. RSF-HA replicates the regular and rollback entries in the order that they appear in the journal.

This means that under normal circumstances, transactions rolled back under commitment control are automatically rolled back on the target machine by RSF-HA.

However, it is possible for the connection from the source to the target machine to crash right in the middle of an uncommitted transaction. In that case, some changes from the uncommitted transaction may have been replicated to the target.

Now, during a role swap, RSF-HA will automatically back out any uncommitted transactions that may have been partially replicated before the connection from the source to the target was lost.

- **More Journaling Options.** New sync attributes make it easy to turn on remote journal validity checking (VLDCHK) and filtering (FTRIMAGES). Validity checking ensures that the remote journal information received by the target exactly matches what was sent by the source. Filtering can be used to avoid sending journal *BEFORE images to the remote journal even if they are present in the local journal.

Validity checking can increase remote journal integrity, at the cost of some degradation in remote journal performance.

Filtering can increase remote journal performance, but at the cost of losing the enhanced commitment control support described above.

These journal features can be set as desired for each replication entry.

- **Robust Monitor Display.** The Work With Sync Attributes display has been enhanced to handle the new replication groups. You can now easily position to a group or an entry within a group, view detailed replication status for the group, start and stop replication for the group, and more.

Plus, exiting the display abnormally (such as with System Request 2) is now handled in a more forgiving fashion. Now, no matter how you exit, you can return to the display with the usual commands and menu options.

- **Misc. Bug Fixes and Performance Enhancements.**