Log Shipping Reinitialization for Avsql-cl01 (WHS-S8MP-ADB1) to WHS-S8MS-ADB1

* 1. Determine space on san drive for backups (normal backup is being done on [\\whs-s8mp-adb2\data\repository1.bak](file:///\\whs-s8mp-adb2\data\repository1.bak) and there are 8 files and the database size is 1 TB so not sure where this would fit). Ensure the databases are in bulk logged – yes it is in bulk logged mode
  2. Shrink the data files to the allocated size as shown below. (For example shrink to 145000?)

1. Current File Mapping



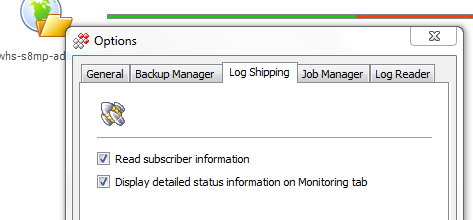
* 1. Run fragmentation report.
  2. The storage required will depend on which table you plan to reindex and how many days you plan to keep Tran log backups. You can determine by running a fragmentation report for fragmentation over 30%. With lite speed assume 25% compression ratio. Example: the routing event table is 122 GB. Therefore the log space will take roughly 30 GB for **each time** a re-index operation is performed. You need to make sure that there is adequate space on the tran log backup drive.
  3. Install the OLA Objects and create the tran log backup job for repository only.
  4. Disable Log shipping Jobs (On whs-s8ms-adb1.walgreens.com server? Not on avsql-cl01)

Enable the OLA The tran log backup job and schedule to run every 15 minutes per the RPO.

* 1. Reindex the selected tables. Monitor disk space closely.

1. Verify enough space on DR side ( See Appendix ,current File Mapping)
2. Familiarize yourself with the backup file location from the Source and the destination

Destination server folder: C:\MSSQLDATA\Logship\Incoming

* 1. Initial
     1. Open Litespeed Console and select Log Shipping on the Left Frame and like management studio register the source instance avsql-cl01) and the Destination (whs-s8ms-adb1) You should see the process flow Map on the main page
     2. Ensure you can read subscriber information tools🡪 options🡪log shipping(tab)🡪> check “read subscriber information”

Review Source(“Publisher”) properties

1. Set up temporary OLA Script with Lite speed version for ONLY the database you want to resynchronize.

For example: if you need to just resync repository, create an OLA job just for repository

1. Start with compression level 4

Use this command:

sqlcmd -E -S $(ESCAPE\_SQUOTE(SRVR)) -d xadmindb -Q "EXECUTE [dbo].[DatabaseBackup] @Databases = 'repository', @Directory = N'H:\MSSQLDATA\9.0\Backup', @BackupType = 'LOG',@backupsoftware='LITESPEED',@COMPRESSIONLEVEL =4, @Verify = 'Y', @CleanupTime = 48, @CheckSum = 'Y', @LogToTable = 'Y'"

Leave the Job Disabled for No

1. Restore full backup and differential backup using following queries to the DR site



1. Turn on the transaction log **backup** job on publisher site and turn on the transaction log **restore** job on subscriber site.
2. Use following query to verify the database is being backed up and restoring to the DR site.



Appendix A

File Size Script

/\* script to retrive table sizes for sql server 2005 plus

\*/

select schema\_name(t.schema\_id) as schema\_nm

,object\_name(i.object\_id) as table\_name

,sum(rows) as [table\_rows]

,sum(cast(used\_pages\*8.192/1024.0 as numeric(18,2))) AS [Table Size (MB)]

,i.name as index\_nm

,max(partition\_number) as [table partitions]

,i.type\_desc as index\_type

,is\_unique

,au.type\_desc

from

sys.tables t

join sys.indexes i

on i.object\_id = t.object\_id

join sys.partitions p

on i.index\_id = p.index\_id

and i.object\_id = p.object\_id

join sys.allocation\_units au

on (case when au.type in (1,3) then p.hobt\_id

when au.type = 2 then p.partition\_id

end)= au.container\_id

where objectpropertyex(i.object\_id,'IsMSShipped') = 0

group by schema\_name(t.schema\_id),object\_name(i.object\_id),i.name

,i.type\_desc,i.is\_unique,au.type\_desc

order by 4 desc

