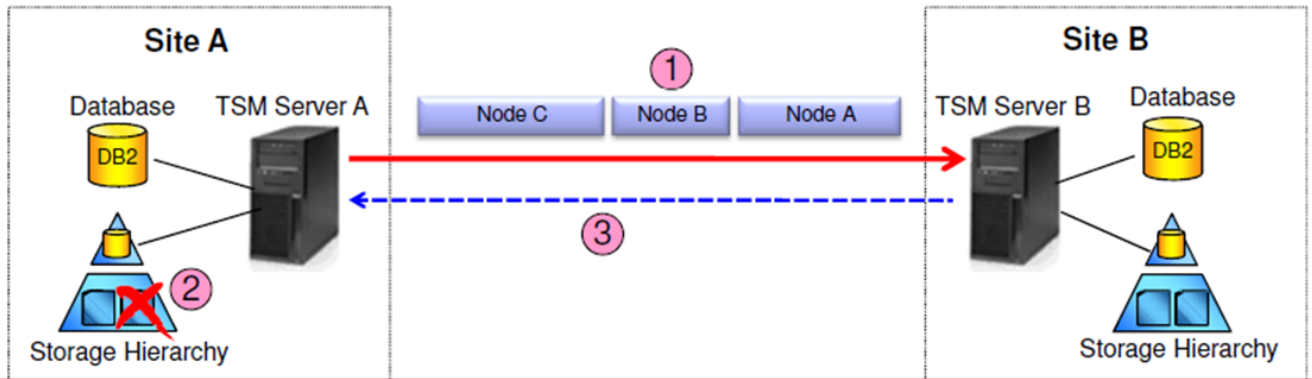


Overview of damaged file recovery

❑ Recover damaged files from target server



Scenario:

- 1) Server A replicates data to Server B
- 2) **Storage pool volume or files** on Server A is lost or data is otherwise inaccessible
- 3) Storage pool volume or files is restored from Server B to Server A

- SRS must enable: **SET replrecoverdamaged on**
- Additional step in replication process, if SRS has damaged files in a file space being replicated
 - Notifies the **TRS to resend them at the end of the replication**
 - When SRS replication ends, the TRS would start process **to resend the damaged files**
 - Damaged files are deleted and replaced with new copies, retaining original insertion date
- New parameter on **REPLICATE NODE** command: **RECOVERDAMAGED=YES|NO|ONLY**
 - **RECOVERDAMAGED=ONLY** will not do replication, it will only recover damaged files

Settings that effect the recovery of damaged files (source: TSM 7.1.1 Reference Guide(s))

Setting for the REPLRECOVERDAMAGED system parameter	Value of the RECOVERDAMAGED parameter on the REPLICATE NODE command	Value of the RECOVERDAMAGED parameter on the REGISTER NODE and UPDATE NODE commands	Result
OFF	YES, NO, or not specified	YES or NO	During node replication, standard replication occurs and damaged files are not recovered from the target replication server.
OFF	ONLY	YES or NO	An error message is displayed because files cannot be recovered when the REPLRECOVERDAMAGED system parameter is set to OFF.

Setting for the REPLRECOVERDAMAGED system parameter	Value of the RECOVERDAMAGED parameter on the REPLICATE NODE command	Value of the RECOVERDAMAGED parameter on the REGISTER NODE and UPDATE NODE commands	Result
ON	YES	YES or NO	During node replication, standard replication occurs and damaged files are recovered from the target replication server.
ON	NO	YES or NO	During node replication, standard replication occurs and damaged files are not recovered from the target replication server.
ON	ONLY	YES or NO	Damaged files are recovered from the target replication server, but standard node replication does not occur.
ON	Not specified	YES	During node replication, standard replication occurs and damaged files are recovered from the target replication server.
ON	Not specified	NO	During node replication, standard replication occurs and damaged files are not recovered from the target replication server.

Tip: When the **QUERY PROCESS** command is issued during node replication, the output can show unexpected results for the number of completed replications. The reason is that, for node replication purposes, each file space is considered to contain three logical file spaces:

- One for backup objects
- One for archive objects
- One for space-managed objects

By default, the **QUERY PROCESS** command generates results for each logical file space. Other factors also affect the output of the **QUERY PROCESS** command:

- If a file space has a replication rule that is set to **NONE**, the file space is not included in the count of file spaces that are being processed.
- If you specify data types in the **REPLICATE NODE** command, only those data types are included in the count of file spaces that are being processed, minus any file spaces that are excluded.

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