

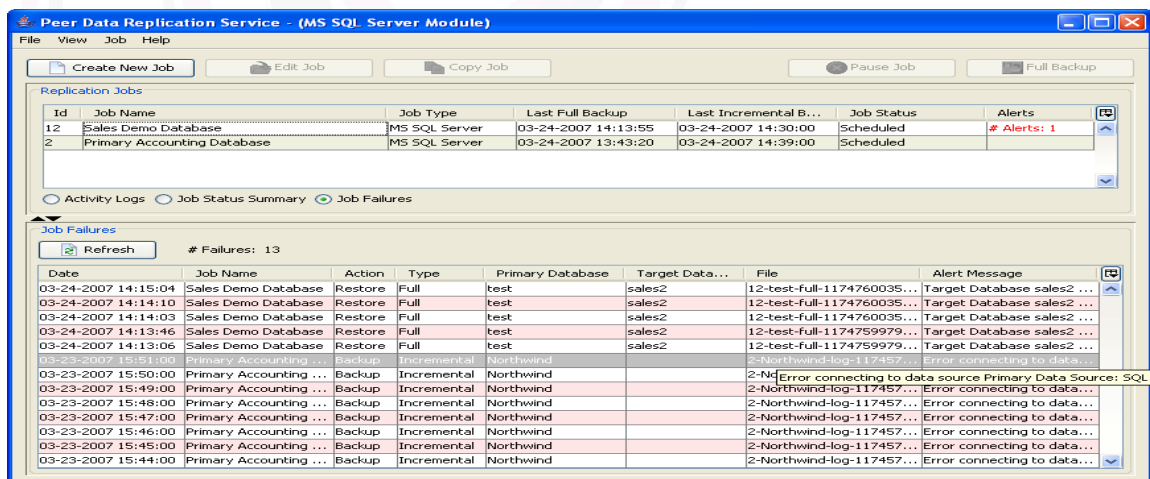
Real-time and scheduled database transaction replication and protection

Peer DRS is a generic data replication framework capable of backing up various types of databases (e.g. MS SQL Server, MS Exchange, Sybase, etc), as well as replicating database changes to one or more remote locations acting as warm standby servers. This release supports Microsoft SQL Server.

Peer DRS employs a form of log shipping. This is the process of automating the backup of databases and transaction log files on a primary server, and then restoring them onto a target standby server. The key feature of log shipping is the automatic backup of transaction logs throughout the day (or on whatever interval you specify), and the ability to then automatically restore them on a standby server located anywhere in the world. This in effect keeps the two databases in synchronisation with one another. Should the production server fail, all you have to do is point the users/applications to the new server and perform a database role reversal.

Peer DRS is unique from other products. It provides a centralised way to remotely manage and monitor all of your database backups from a single location and from a single application. It has a plug-in architecture allowing it to support different types of database backups from a single application, e.g. SQL Server, Exchange Server, etc. In addition, it is extremely flexible and can be configured to handle almost any type of backup scenario. Peer DRS has an easy and intuitive configuration wizard and management GUI making backups simple.

- Features
- Support for all Microsoft SQL Server versions from 7.0 onwards, and Microsoft Exchange Server from 2000 onwards.
 - Performs full backups on-demand or at a scheduled time.
 - Performs up to the minute incremental backups with replication to one or more warm standby's.
 - Configure and manage all database backups remotely from a central, client-based GUI.
 - Runs as a system service or run in background in system tray.
 - Replicate across a WAN via FTP, SFTP, SSH or a password protected Network Shared drive.
 - Resume a file copy from where it last left off for failed file copies to target.
 - Transfer backups securely across a WAN or LAN using SSH or SFTP
 - Configure backup jobs on a per database basis with different configurations and schedules.
 - Specify various archiving options and configure how long to keep backups and transaction logs.
 - Perform backups without restoring to a standby server for remote storage and disaster recovery.
 - Possible to use the standby server as a live read-only database.



| Id | Job Name | Job Type | Last Full Backup | Last Incremental Backup | Job Status | Alerts |
|----|-----------------------------|---------------|---------------------|-------------------------|------------|-------------|
| 12 | Sales Demo Database | MS SQL Server | 03-24-2007 14:13:55 | 03-24-2007 14:30:00 | Scheduled | # Alerts: 1 |
| 2 | Primary Accounting Database | MS SQL Server | 03-24-2007 13:43:20 | 03-24-2007 14:39:00 | Scheduled | |

| Date | Job Name | Action | Type | Primary Database | Target Data... | File | Alert Message |
|---------------------|------------------------|---------|-------------|------------------|----------------|----------------------------|---|
| 03-24-2007 14:15:04 | Sales Demo Database | Restore | Full | test | sales2 | 12-test-full-1174760035... | Target Database sales2 ... |
| 03-24-2007 14:14:10 | Sales Demo Database | Restore | Full | test | sales2 | 12-test-full-1174760035... | Target Database sales2 ... |
| 03-24-2007 14:14:03 | Sales Demo Database | Restore | Full | test | sales2 | 12-test-full-1174760035... | Target Database sales2 ... |
| 03-24-2007 14:13:46 | Sales Demo Database | Restore | Full | test | sales2 | 12-test-full-1174759979... | Target Database sales2 ... |
| 03-24-2007 14:13:06 | Sales Demo Database | Restore | Full | test | sales2 | 12-test-full-1174759979... | Target Database sales2 ... |
| 03-23-2007 15:51:00 | Primary Accounting ... | Backup | Incremental | Northwind | | 2-Northwind-log-117457... | Error connecting to data... |
| 03-23-2007 15:50:00 | Primary Accounting ... | Backup | Incremental | Northwind | | 2-Northwind-log-117457... | Error connecting to data source Primary Data Source: SQL... |
| 03-23-2007 15:49:00 | Primary Accounting ... | Backup | Incremental | Northwind | | 2-Northwind-log-117457... | Error connecting to data... |
| 03-23-2007 15:48:00 | Primary Accounting ... | Backup | Incremental | Northwind | | 2-Northwind-log-117457... | Error connecting to data... |
| 03-23-2007 15:47:00 | Primary Accounting ... | Backup | Incremental | Northwind | | 2-Northwind-log-117457... | Error connecting to data... |
| 03-23-2007 15:46:00 | Primary Accounting ... | Backup | Incremental | Northwind | | 2-Northwind-log-117457... | Error connecting to data... |
| 03-23-2007 15:45:00 | Primary Accounting ... | Backup | Incremental | Northwind | | 2-Northwind-log-117457... | Error connecting to data... |
| 03-23-2007 15:44:00 | Primary Accounting ... | Backup | Incremental | Northwind | | 2-Northwind-log-117457... | Error connecting to data... |



How it works

Peer DRS uses a form of log shipping as its methodology for replication, and in order to understand how Peer DRS works, you need to understand how log shipping in general works.

Peer DRS log shipping implementation is straightforward:

1. A Full backup of the database is taken on the primary server and stored in a backup folder located either on the primary server, or more likely, a network shared drive accessible by the Peer DRS application. The files in this Backup Folder can also serve as your backup archives.
2. If the target copy destination folder is different than the Backup Folder, the files are copied to the destination folder of all configured targets, otherwise no copy is performed.
3. The target standby server maintains a copy of the full database. The target database is not operational; but it can stay in read-only mode.
4. Based on the configured incremental backup schedule (e.g. every 15 minutes), incremental changes are recorded in transaction log files and stored in the shared Backup Folder
5. Transaction log backup files are copied to all configured target database destination folders immediately after an incremental backup of the primary database is performed.
6. Transaction log backups are applied to the target database on the target server in the order that they were taken on the primary server.

Licensing

Peer DRS is licensed on a per database instance basis for each of the supported replication modules e.g. MS SQL Server. For example, if you are interested in replicating all databases stored on a single instance of SQL Server on a server to another SQL Server instance serving as a standby running on a different server or on the same server then you will need to purchase a Peer DRS – SQL Server license for 2 database instances. The license applies to an entire database instance and includes all databases running within that instance.

If you are only interested in backing up a single SQL Server instance and replicating all database changes to one or more target servers, but don't need to restore the data into any MS SQL Server instance then you would only need to purchase a license for one database instance.

System requirements

Microsoft SQL Server
7.0 onwards

Microsoft Exchange
Server 2000 onwards

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